



The daily cardinal. Vol. LXXV, No. 76 January 27, 1965

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Special Registration Edition

SECTION I

The Daily Cardinal

Complete Campus Coverage

SECTION I

VOL. LXXV, No. 76

University of Wisconsin, Madison, Wisconsin, Wednesday, Jan. 27, 1965

FREE COPY

Madison Bids Adieu to 1450



SCHOOL FIRST—About 1,400 students received their academic degrees at the first midyear commencement ever held at the University late Saturday afternoon. The colorful ceremony, complete with cap and gown, was held in the Wisconsin Fieldhouse at historic Camp Randall. In previous years the University has held only a convocation honoring its midyear graduates. This photo, taken from the Fieldhouse balcony, shows University Pres. Fred Harvey Harrington giving his charge to the graduates. The solemn spectacle was viewed by about 5,000 parents, relatives, and friends of the graduating students in spite of the wintry weather.

While the white stuff enveloped Madison and the University grounds Saturday, some 1400 students rested comfortably at the Fieldhouse, listening to a variety of speeches before being awarded their degrees in the University's first official mid-year Commencement ceremonies.

NOT ALL OF THE 1400 graduates were there, of course, but the approximately 850 who chose to come heard talks by University Pres. Fred H. Harrington, Madison Chancellor Robben Fleming, and Board of Regents Pres. Arthur DeBardeleben—highlights of the ceremony—as well as words from Wisconsin Alumni Association Pres. Robert Spitzer and Kenneth B. Quintenz, 1965 Senior Class President.

The degree candidates then filed across the Fieldhouse stage to receive their diplomas.

Chancellor Fleming took note of the unique occasion by pointing out in his speech that the mid-year Commencement was not only "a new experience for us," but also "a measure of our times."

HE INDICATED that one of the reasons for the new situation within the University is a reaction to "the demand for higher education."

The Chancellor sought to draw his listeners even further into what might previously have been the "outside world" when he told the audience they were "destined to struggle with some extraordinary sensitive policy problems on the domestic scene."

Fleming declared these problems revolve around "private versus public rights." But, he
(continued on page 7)

Come Sign Up To Help The Cardinal

EDITOR'S NOTE: The following dialogue must be taken with some skepticism; its meaning however, is very pertinent to the coming semester at the University.

Student: "What's happening this semester?"

ANOTHER STUDENT: "Same thing that's happened every other semester—nothing."

Another Student: Not true, gentlemen.

First Student: "I'm a lady."

FIRST ANOTHER Student: "That's open to question."

Second Another Student (after first two have finished fighting): That's what I mean—everybody's so immature around here. But there's one place where it's different—over behind Journalism Hall, at the Cardinal office.

(From offstage—boo, hiss)

SECOND student (unperturbed by booing): There's a meeting in 155 Journalism Sunday night. That's where you can find out, at 7:30."

(Tomatoes begin to fall; all three leave stage running.)

Registration: 'The Great Leveller'

By DALE BARTLEY
News Editor

This week is what assistant registrar Thomas L. Johnson terms the "great leveling process." This is the one process that all students must take part in at the same time. It is commonly called

Registration.

THESE ARE the basic procedures.

All students must first obtain their registration materials.

• Continuing students in letters and science, agriculture, education, commerce, pharmacy,

nursing, and home economics report to 230 Social Science Building. Seniors registered Tuesday, Juniors, Sophomores, and Freshmen register Wednesday, Thursday, and Friday.

ALL OF THE above students must call for their materials at times specified on Registration Schedule A. This can be obtained at 172 Bascom or at the New Administration building.

• Engineering students report to the lobby of the Mechanical Engineering Building from 8:00 a.m.-11:30 a.m. or 1:00 p.m.-4 p.m. on Wednesday, Thursday, or Friday.

• Law, medical and special (those not in a degree program) students report to the information booth in the lobby of the new Administration Building Wednesday, Thursday or Friday from 8:00 a.m. to 4:00 p.m. The Lobby is closed 11:30 a.m. to 1:00 p.m.

• New and re-entering graduate students report to 165 Bascom Tuesday through Friday according to specific times on Registration Schedule B. Schedule B can be obtained at 172 Bascom or the new Administration Building.

• New freshmen report at the new Administration Building Friday morning, January 29.

• Transfer students with permits to register report to 124 Commerce Building.

• Transfer students without permits to register report as follows:

agriculture students at 136 Agriculture Hall; engineering students at 208 Mechanical Engineering Building; education, commerce, pharmacy, nursing, home economics, and letters and science students at 140 new Administration Building.

• Re-entering undergraduates not enrolled since August 1964 report to 165 new Administration Building according to the Registration Schedule for Re-entry students. This schedule can be obtained at 172 Bascom.

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The Daily Cardinal

Comment

A PAGE OF OPINION

A Vast Tabula Rasa?

The beginning of a new semester is a good time for us at The Daily Cardinal to evaluate our past and peer into our future. It is also a convenient lull into which we can insert an explanation of our situation and our obligations.

THE CARDINAL shares the distinction with only about a dozen college papers—out of almost 2,000—of being financially independent of the institution with which it is associated. This has many meanings, both for us on the staff and for you, our readers. But most importantly, it means that there is no editorial control, either subtle or forthright, coming from any source on the administration or faculty.

There is a student-faculty board of control, but the students outnumber the faculty members, who are only allowed to vote on financial matters. If issues of editorial concern come up, no faculty member is permitted to enact any policy, for this responsibility lies with the five elected student members.

THERE ARE certain disadvantages to being independent—mainly not enough money to pay the salaries and purchase the equipment we would prefer.

Nevertheless, these are disadvantages with which we gladly put up rather than sacrifice the precious right to point a journalistic finger at anyone or anything without fearing administrative reprisal.

It is highly unreasonable to expect that the present administration, which actively seeks student discussion and criticism of on- and off-campus issues, would be likely to take drastic measures to chastise us if somehow we found ourselves under their authority.

YET IT IS probable that there would be minor disagreements; there is also the possibility that another group of people at another time would not take such an enlightened view as our present administrators do, and the staff at that time would have a great deal more use for the privilege than we do now.

There is another point which we would like to emphasize, as long as we are in an explanatory frame of mind. Being a student newspaper, we seem to be the target of quite a bit of antagonism. Much of this is expected, but occasionally the outside world seems to take an interest in The Cardinal as a symbol of all that is wretched in today's college world.

Such grumblings usually start off-campus, and we seem to find ourselves in the midst of another wave now. To those claims that we are corrupt and are corrupting the student body we give little consideration.

WE CANNOT smugly assume that the entire study body is a vast tabula rasa waiting only for our impressions upon it. We conceive of our paper as a forum for student opinion, not a monolithic conspiracy against anyone or anything.

We harbor no images of being perfect; we are probably more aware of our shortcomings than many of our most avid critics. But to all of the discontented we wish to extend an invitation to come and help us out. A notice at the bottom of this page tells of an organizational meeting on Sunday night, and we open our doors to anyone with suggestions for improvement who is willing to help us put them into action.

GAIL BENSINGER
Editor-in-Chief

The Problem of Identity At the College Level

By **CARROL CAGLE**
New Mexico Lobo

Collegiate Press Service

It seems that those who are participating in the process of higher education—students, faculty, and administrators—all are being entangled in a problem of identity. At the same time, higher education itself in these United States has come to a point in history where it must decide just where it is going. In a sense, the educational process and those participating in it must stop for a reassessment.

The problem of identity is accentuated by the switchover in

many universities to the computer system of registration. This causes not only students to become known as mere numbers but also affects professors. They are confronted with a class roll which is a list of numbers—numbers which must be matched up with seat numbers. If the instructor is an advisor to undergraduates, he too probably has a number.

THE ADMINISTRATORS fare no better. The university president (No. 1) turns to his dean of students, "Say, A-41, I'm thinking of recommending the student body president ... What's his

number? F-108 789? ... for that graduate fellowship. What do you think?"

"Well, I'm not for sure. I have a feeling we should talk to Professor 1067 first. I think he has some number else in mind."

The student finds it hard to become enthused about higher education when it becomes apparent that he is a number, seated numerically in a certain room number, turning in assignments to a numbered professor for a numbered grade, to be averaged at the semester's end for a numbered grade point.

...NOW TO examine the problem facing the universities. Although private and parochial schools are being hit hard, the main brunt of the postwar baby boom is being borne by state land grant colleges. As the "name" schools, especially in the East, fill up, students are moving West and to smaller state schools elsewhere.

This mass migration every fall of students from one corner of the country to the other has caused the land grant colleges to examine their philosophy.

Should they be concerned primarily with educating students in their own states, penalizing out-of-staters? Or should they raise their entrance requirements, excluding in-state students at the expense of better qualified interlopers?

The problem of identity—that is, just what should the university be and what are its aims—is one that faces higher education everywhere. And those who are participating in the higher educational process must resolve the same problem.

By

WHITNEY
GOULD



SOLID
GOULD

Annoy, Annoy

Every time a semester comes to close, we're prompted to reflect back on all the elements that have contributed toward making the semester the horror that it was. Naturally, it's the "little things" that annoy us the most.

In a random fashion we began to collect some of the most awful irritations we could think of.

SURELY, ONE of the most distressing indignations the student endures is the surrender of his belongings in the Coop, Brown's, the Union, the library, in the interest of protecting the security of these noble institutions. Now we realize that thousands of dollars are lost each year through shoplifting and book-snatching, and we sympathize with officialdom for having to devise some controls.

But really, now, people ... We girls come close to doing strip-tease every time we enter the reserve book room in the basement of the library, where not only books, but purses, book bags and other suspicious-looking accoutrements are confiscated. Many of us feel naked without our purses, while we clutch desperately at all that is left—a pen and a fee card.

Men, too, are humiliated. As they leave the stacks, they are confronted by persevering ladies whose noses twitch at the scent of a library book; these ladies rifle through briefcases, removing and examining books. Granted that this may be a necessary evil; it's still a bit creepy. And aside from a full-scale shakedown, no sure-fire solution occurs to us.

THE UNION LIBRARY has become so adamant in refusing to let people carry their belongings into the harmonious chamber that we expect to find lady wrestlers on guard at the door, or ready to erupt from the woodwork, in order to hustle offenders off to the checkroom.

Other traumas are endured when we try to combat the onslaught of food-seekers in the cafeteria line or the Rathskeller. Obviously, the only way to remedy this situation is to institute a free-for-all system, whereby Union food servers can stand in the middle of the cafeteria or Rat and shoot assorted sandwiches and casserole portions out of a cannon—first come, first serve, so to speak.

There will be a bit of a fallout problem on some items, of course, but plastic raincoats can be made available.

ANOTHER SITUATION plagues seniors going on to grad school; we are forced to beat a threadbare path to the doors of overburdened professors in order to obtain letters of recommendation. Most of us hate to do this, and we're sure it's no picnic for the professors. Clearly, the answer is a mimeographed form, whose blanks can be filled in with the appropriate words.

Sample: "Yes, I've known _____ for _____ years. (He) (she) was a student in my course(s) in _____, _____, and _____, where (he) (she) proved to be a student of (check one): lousy _____, abominable _____, adequate _____, brilliant _____, unbelievable _____, abilities. _____'s potential is (check one): non-existent _____, average _____, phenomenal _____."

The last irritation we'd like to explore and correct is the campus parking problem. University planners seem to ignore the fact that students drive cars, and must park them **somewhere**. The one answer that no one has offered is pigeon hole parking in the stacks of the library.

VOLKSWAGENS could chug through the turnstiles and move into those commodious reading stalls with the greatest of ease. Overtime parking rates would be determined in relation to overdue book rates. Hertz cars would be charged according to delinquent reserve book rates—(\$1.00 for the first hour, etc.)

So much for these problems of cosmic significance. Now we can all sail confidently into the second semester with triumphant smiles.

THE UNIVERSITY
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BUT THE CARDINAL
NEEDS YOU
MORE!

COME TO 155 JOURNALISM
SUNDAY NIGHT 7:30 P.M.

WE'LL TELL YOU
WHY
and
HOW

The Daily Cardinal

"A Free Student Newspaper"
FOUNDED APRIL 4, 1892

Official student newspaper of the University of Wisconsin, owned and controlled by the student body. Published Tuesday through Saturday mornings during the regular school session by the New Daily Cardinal corporation, Journalism Hall, Madison, Wisconsin. Printed at the Journalism School typography laboratory.

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Young German dramatic baritone
Program: Schubert, Schumann, Strauss, Wolf

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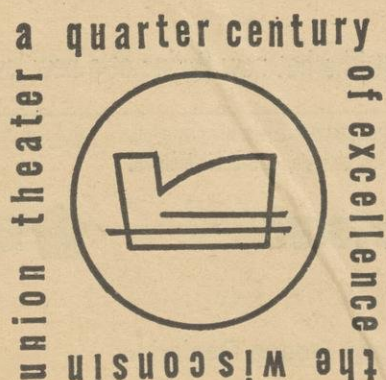
LOOKING AHEAD . . .

AMERICAN BALLET THEATRE Feb. 24, 25
(Order at the Box Office beginning Feb. 1)

BALLET FOLKLORICO March 16

MARIAN ANDERSON March 28
at the University Pavilion

MINNEAPOLIS SYMPHONY ORCHESTRA April 25



Spotlight On Wedding Styles

Everything for the bride-to-be from the gown and trousseau attire to a wide variety of wedding gifts will be on display at the Bridal Style Show on April 1 in the Union's Great Hall.

THE PROGRAM, which is sponsored by the Union Social committee under the direction of Margie Alt, will try to fill in every detail usually included in wedding plans. After the showing of bridal gowns and other clothing, items such as china, flatware, portraits, and luggage will be displayed in the Reception room.

Admission is free with the presentation of a fee card at the Union Box Office prior to the show.

"Badger Stampede" will lead off the long list of other Social committee events Friday from 9 p.m. to midnight in Tripp Commons where the Marauders will perform for students' listening and dancing enjoyment. The informal dance is intended especially for new students to become acquainted. Admission is 75c per person.

THE "BADGER Roundup," another informal mixer, will feature The Chessmen on Saturday night, Feb. 6 from 9 p.m. to midnight. The dance also will be held in Tripp Commons and admission is 75c per person.

Every Friday night free record dancing is provided at Danskeller which is held in the Stiftskeller. Entertainment such as piano players, folksingers, and much more will provide feature entertainment every week at 10 p.m. Danskeller is very informal, people can just drop in or stay all evening and it provides a good place to go after the movie or library.

The Union's own mock gambling casino, Hungry U, will bring back the wild west to the Union on Feb. 26, March 26, and May 7 from 9 p.m. to midnight in the Lake Plaza rooms. Money is provided (only the play paper variety) along with a roulette wheel, craps, blackjack, varied entertainment, refreshments, and "old west" atmosphere.

THE OLDEST college nightclub in the nation, "Club 770," began at the Wisconsin Union. Tripp Commons will provide the setting on Feb. 13 and April 10

evenings for candle-light waiter service, dance bands and other entertainment, reserved tables, all for \$2 per couple.

Social committee also sponsors Talent Tryouts which are open auditions for all student entertainers—folksingers, comedians, small bands, dancers, and many other acts. No prior sign-up is needed and a piano accompanist is provided for those acts which require it.

After Talent Tryouts, the members of Social Committee compile an Entertainer's Guild file. When campus organizations and local Madison groups need names of entertainers, the committee refers them to the appropriate students. Those listed in the Guild are also given the opportunity to perform at the Union where they can gain valuable publicity by increasing their audience and becoming better known.

Rathskeller Praised As Most Celebrated Academic Hangout

"The most justly celebrated hangout in academia," is the University of Wisconsin's Union Rathskeller, according to David Boroff, associate professor of English at New York University and author of "Campus U.S.A."

According to Boroff, in a recent article in Saturday Review, one of the measures of "institutional excellence" is what happens in student hang-outs, or Union.

"THERE ARE educational statesmen aplenty to chart the road to academic probity. The yardsticks are drearily familiar: Ph.D. rate, library resources, faculty salaries, student board scores, publications, and the academic pork barrel we call contract research. These, at the very least, are crudely measurable.

"My interest is in something far more imponderable—the intellectual tone of an institution, its Geist, what is left after the brick and mortar and salary increases have all been taken into account. A rich, 'successful' college may lack intellectual vivacity: a poor one may have it . . .

"I wonder if I might draw from my own techniques in appraising colleges to suggest some 'informal' indices of institutional excellence . . . they are far more important than one might think. I have witnessed a direct correlation between the intellectual vitality of a school and the bravura of its bulletin boards. Harvard, Swarthmore, St. John's in Maryland, and Bennington provided some of the most entertaining and revealing of bulletin board graffiti . . .

"THE BOOKSTORE is another cultural index. I have observed some terrifying displays of philistinism and intellectual torpor in some bookstores. At a small college I had occasion to visit, the bookstore was a kind of general store in which books were tucked away behind Bermuda shorts and long woolen stockings. And there wasn't a single magazine above the level of Life and Time . . .

"No dean worth his stipend can afford to be indifferent to student hangouts—especially those that dispense coffee—for that is where

the serious talk takes place. My bias is, obviously, toward urbane, light-handed administration, but here a little social engineering is in order. The vital schools have meeting places where students—and faculty—can repair for coffee and conversation.

"One shrewdly administered college in the South combines its snack bar with its paperback bookstore—a conspicuously happy marriage! The most justly celebrated hangout in academia is the University of Wisconsin's Union Rathskeller, where beer has corrupted no one, and where political debates flourish at any hour, class lines crisscross (freshman girls meet real graduate students), and professors sit in earnest conference with students over cups of coffee."

SCOOP!

Lewis Carroll's "Jabberwocky" has been translated into French, Latin, and German.

I didn't think Charlie was that kind of guy...

<p>He's always been sort of a, well, you know what.</p>	<p>Yes, I know. Wide ties, wide lapels and all.</p>	<p>That car he's driving tonight... bucket seats, carpeting, console, vinyl trim, big V8.</p>	<p>Frankly, I don't think he can afford it.</p>	<p>Yes, who does he think he's going to impress?</p>	<p>Hi, Charlie.</p>
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You Need a Job For the Summer?

Do you need a summer job? Would you like to work at one of the many campus throughout Wisconsin? If so, the Union Special Services committee and the Student Employment Bureau have something you might be interested in.

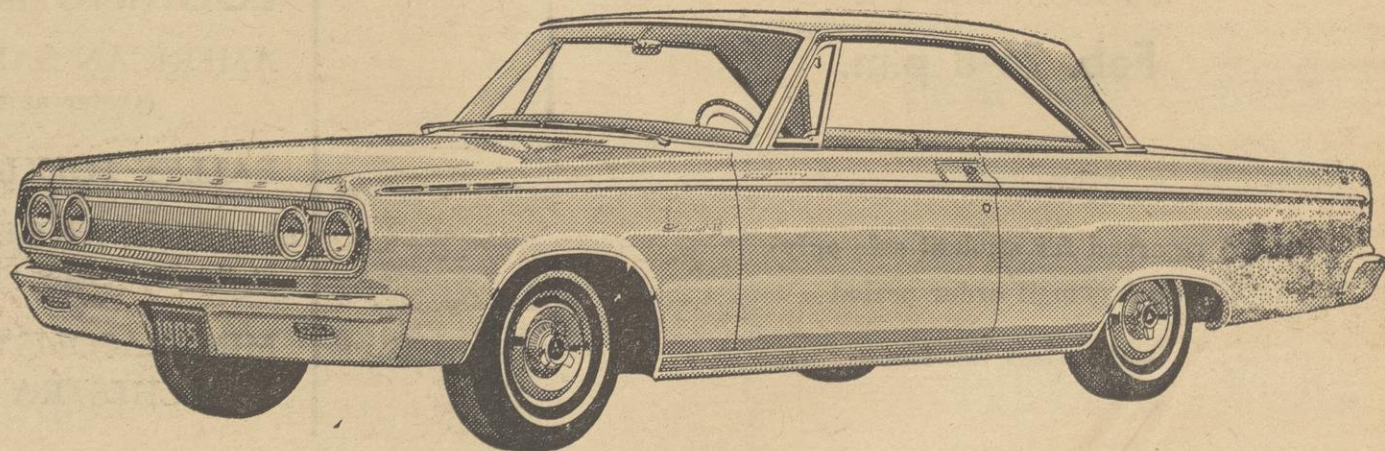
THURSDAY, Feb. 11, these two organizations will sponsor the second annual Camp Placement Day. The program is scheduled from 12 to 5 and 7 to 9 p.m. in the Union's Great Hall.

The Camp Placement Day will provide an opportunity for students to learn more details about various camps both in and out of the state. Representatives will be on hand from many of the in-state camps to interview the prospective student employees.

Information and brochures describing the out-of-state camps also will be available. The staff of the Student Employment Bureau will be on hand to answer questions on these camps. All interested students are urged to attend the program for full information on summer camp employment.

SCOOP!

There is a tide in the affairs of men which, taken at the flood, leads on to fortune.



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Coronet 500 sports the following as standard equipment: all-vinyl interior, front bucket seats, full carpeting, padded dash, directional signals, backup lights, deluxe wheel covers, center console, 273 cubic inch V8.

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See all the new Dodges on display at your nearby Dodge Dealer's.

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Ag-Industry Conference Now at Union

Students are perhaps wondering about all the hubbub taking place in the Union. A good deal of it is being generated by the University Agricultural Industries Conference and Public Affairs Forum, which started here Tuesday and continues through Saturday.

And in spite of its connection with things "back on the farm," several of the sessions and par-

ticularly the public affairs forum on water and life should interest students who find they have some semester-break time on their hands.

A STOP AT the Memorial Union Theater this morning, for example, would find nationally recognized speakers discussing a problem that concerns everyone—water. The Public Affairs Forum on Water and Life starts at

10:15 a.m.

Henry Caulfield, chairman of the water resources council, U.S. Department of Interior, will deliver a speech titled "Research: the Key to Water Use." "Water: Our Most Vital Resource" is the title of a speech to be given by Gordon Walman, a geographer from Johns Hopkins University, Baltimore, Md.

Students are welcome at all

sessions held in conjunction with the conference.

IF YOUR INTERESTS tend more toward water skiing, swimming or fishing, a sectional program on recreational use of water might interest you. Or, for the latest thinking in water research, plan to attend the sectional program dealing with this important topic. Both sectional programs are scheduled at 1:30 p.m. today in the Wisconsin Center Building.

A couple of building dedication programs will interest some students. The dedication ceremony for the new H. L. Russell Laboratories, housing the departments of entomology, forestry, plant

pathology, and wildlife, will be held at 8 p.m. Thursday in the Union Theater. Dedication of the new Veterinary Science Building will take place Thursday at 1:30 p.m. in the Bacteriology Building Auditorium.

Open house at the Veterinary Science Building will be held Saturday from 9 a.m.-noon.

A look at the 1965 Agricultural Industries Conference and Public Affairs Forum program will probably reveal other sectional programs or speeches of special interest to you. For more information about the event, stop in at the Union Play Circle lobby. People there can fill you in on the details.

Prof. Aids Revolutionary Chem Analysis Process

A revolutionary process of chemical analysis—continuous analysis—is being contributed to by Walter J. Blaedel, chemistry.

THIS NEW analysis method drastically cuts the time involved in the billions of chemical analyses performed each year in the U.S. alone, and represents a major break-through toward the achievement of an automated industry.

Chemical analyses are performed to monitor industrial processes, to aid research in many branches of science, and to conduct required tests in clinical laboratories and hospitals.

In recent years there has been an intense emphasis on automation of analytical processes, provoked not only by an extreme dearth of analysts but also because automatic analysis is critical to automated industry.

ONE OF THE most important results of emphasis on automation has been the development of continuous analysis, in which a sample is processed in the form of a flowing stream. By utilizing

this method, troublesome and intricate manipulations encountered in transporting samples from one step to the next in conventional analytical processes are greatly diminished.

Furthermore, after calibration with standard known samples, results of analyses can be read out directly without need for intermediate readings and calculations that often accompany conventional analytical processes.

The University chemistry department has done pioneering research in continuous analysis and today is a leader in this new but highly important field. Over the past few years, a number of continuous processing and measuring techniques have emerged from University laboratories.

AMONG THESE is a sensitive differential filter photometer that can measure very small differences in the intensities of two light beams.

This photometer forms the basis of a method for measuring continuously the rate of an enzyme-catalyzed reaction. It is currently

being used in clinical laboratories at the University Medical Center to determine the amounts of an enzyme—lactate dehydrogenase—in serum and urine samples as well as for basic diagnosis and research.

Another development is a tubular platinum electrode (TPE) sensor capable of detecting substances that can be oxidized or reduced at an electrode.

ANOTHER type of electrode being developed is capable of plating out—or removing—traces of reducible metals quantitatively from solutions so dilute that the metals cannot be detected by means now available. After removal and concentration upon the electrode, traces may then be detected and measured more easily than in the original solution.

University scientists are also interested in improving accepted analytical procedures that appear amenable to continuous techniques. One such method is termed the isotope derivative procedure. In this, a radio-active tracer is employed to detect the presence of a substance in minute amounts and which may be mixed with so many similar substances that it cannot be purified and isolated quantitatively for measurement.



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BETHEL LUTHERAN CHURCH

312 Wisconsin Ave.

257-3577

(Wisconsin Ave. at Gorham St.)

SERVICES AT 8:45, 10:00, and 11:15 A.M.

SUNDAY SCHOOL & NURSERY at all 3 services

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Come to

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Sunday, February 7, 8 p.m.

Dancing, Folk Dancing, Hootenanny, etc.

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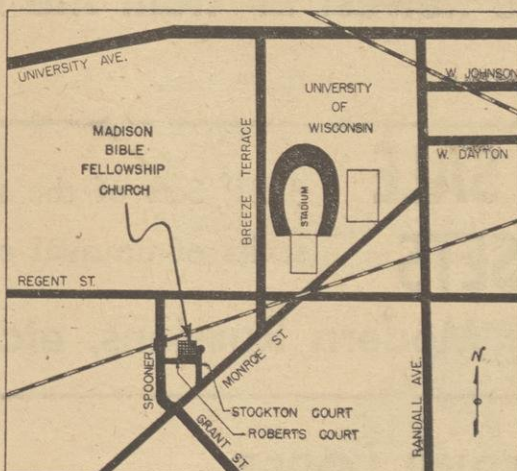
"for students, sponsored by N.L.C. churches in Madison and LUTHERAN CENTER"

SUNDAY, 9 A.M. (beginning Feb. 7)

coffee hour and sermon talk-back following

Using Chapel at ST. FRANCIS HOUSE, University at Brooks.

PREACHING ON 7TH: — PASTOR WALTER MICHEL



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9:30, 10:30, & 7:00

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Thursday Vespers 7:00 p.m.

Richard D. Balge, pastor

Sunday Cost Supper 5:00 p.m.

Sunday Worship 10:00 a.m.



CALVARY LUTHERAN CHAPEL and STUDENT CENTER

(Mo. Synod)

713 State Street

255-7214

Beginning Sunday, Jan. 31

Sunday Services: 9:00, 10:00 and 11:15 a.m.

Matins: Tuesday Morning 7:00 a.m.

Vespers: Thursday Evening 9:30 p.m.

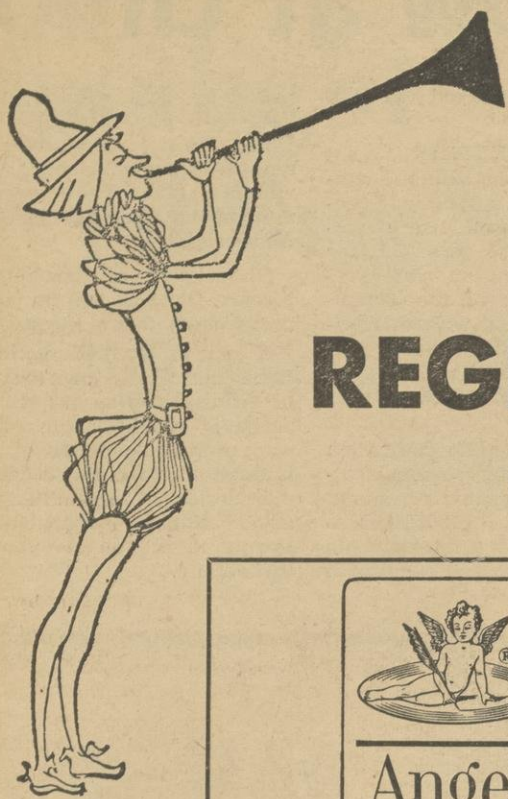
Fellowship Supper: Sunday Evening, 5:30 p.m.

Choir Rehearsal: Thursday, 7:45 p.m.

MISS BONNIE BEVERSDORF, Secretary MR. JOHN MILBRATH, Housefellow

PASTOR WALTER WEGNER

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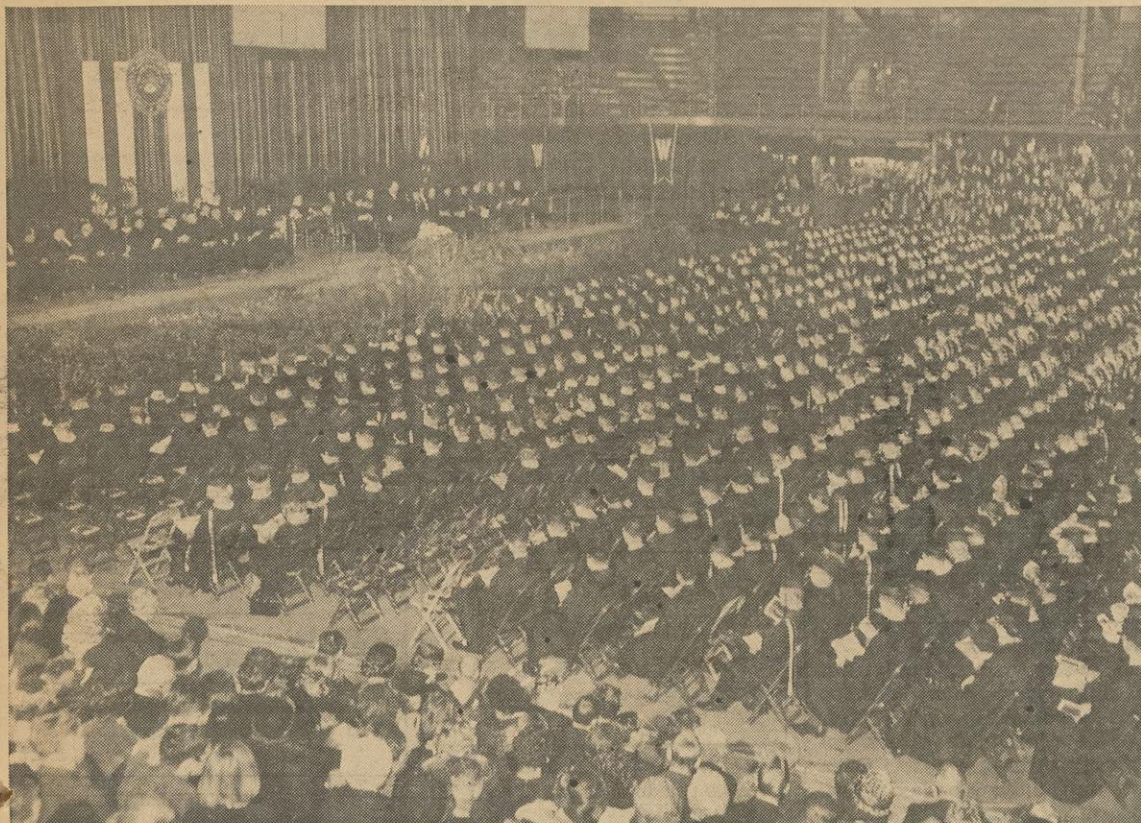
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Gathering at the Fieldhouse



CLASS OF '65—The University held its first midyear commencement in history late Saturday afternoon with about 1,400 students receiving their academic degrees at the Fieldhouse. This photo, taken from the Fieldhouse balcony, shows Regent Pres. Arthur DeBardeleben, Park Falls, greeting the graduates on behalf of the University Board of Regents.

COATTA NEW GRID AIDE
John Coatta, who quarterbacked the Wisconsin Badgers a decade ago, was signed last week as an assistant coach to head mentor Milt Bruhn. Coatta will supervise the backfield in his new assignment, which was purely an addition to the Badger coaching staff.

A Long Year For Badgers

(continued from page 16)
fronted by the number one team in the nation, the Badgers battled to a respectable 28-3 defeat. But things got worse before

they got better. Wisconsin entertained Michigan State in the Badgers' Homecoming game, and if the Spartans left Madison without enjoying their stay at Camp Randall it was certainly through no fault of the Badgers.

Outgained 414-206, the injury-riddled Badgers watched helplessly as a mediocre Michigan State team dominated play throughout, moving the ball almost at will, enroute to a 22-6 victory.

Against Northwestern the following Saturday it appeared as if the Badgers could do nothing right. Poor tackling and listless offense had them down 17-0 at the half. Then the tables turned, and the Badgers roared back. But in the end the story was the same as the Badgers had again beaten themselves, this time by their inability to consummate scoring drives.

Then came Illinois and by far the Badgers' worst effort of the season. Seemingly wholly deficient in both playing ability and desire, the Badgers rolled over and played dead while the Illini galloped to a 29-0 win, that could have just as easily been 59-0.

1400 Get 'U' Diplomas

(continued from page 1)
said, he wasn't just referring to hiring practices or the "question of open occupancy"; also included, the Chancellor said, were the issues of "privacy" and the "growth in the population."

IN ADMITTING that, despite the problems the graduates faced, he "envied" them, Fleming concluded his remarks with a plea—and a challenge—to the students to "make this a better world if you will."

Harrington's words, while couched in philosophic terms with reference to growing "limited" attitudes towards the nature and function of higher education, were also a slap at Wisconsin Gov. Warren Knowles' views on the same subject.

"While this University has offered job-oriented training (an area Knowles indicated was weak at the school) . . . we have insisted that a Wisconsin degree must also mean broad education, and we have stressed the social responsibility of our graduates," Harrington asserted.

jobs of the week

NOTE: The Student Employment Bureau is located at 831 State Street, first floor, Park St. entrance. The bureau is open 8:30 a.m. to 12 p.m., and 12:45 to 5 p.m., daily. During semester break, the bureau will be open Saturday, 9-12 p.m., and 1-4 p.m. Students who want part-time jobs for next semester should see an interviewer as soon as they have completed registration. These students should try to arrange 2-3 hour blocks of time

(preferably morning hours,) around their class schedules. The bureau can find a job for any student who is willing to work.

SOME OPENINGS FOR NEXT SEMESTER:

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• **JUNIOR, SENIOR, OR GRAD** to teach Basic Vacuum Tube Laboratory. Experience desirable. Evening hours.

• **WOMEN STUDENTS** to be trained as Dietary Clerks for a local hospital. Saturdays and Sundays, day-time hours.

• **CAB DRIVERS, Truck Drivers, Bus Drivers:** Must know Madison well; must be over 21 years old and have a Wisconsin driver's license.

• **SERVICE STATION ATTENDANTS:** Must have experience. 15 to 20 hours per week.

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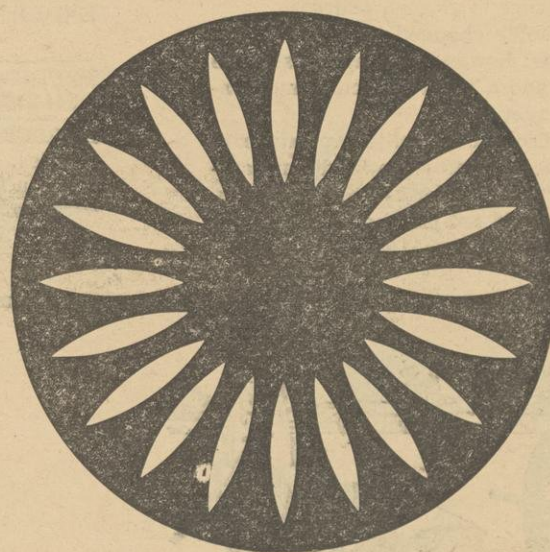
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THE UNIVERSITY OF WISCONSIN

1965 SUMMER SESSIONS AT MADISON



BERKELEY

EDITOR'S NOTE: The following is the first in a series of articles comparing the situations at the University of California (Berkeley campus) and the University of Wisconsin with regard to freedoms of speech and political advocacy.

By MARK LIPSCHUTZ
Cardinal Staff Writer

The recent eruption at the University of California awakened a lot of people in one way or another. In Wisconsin, many of those people cast a nervous eye to their own university and wondered, "Could it happen here?"

It couldn't very well happen over the issue of Free Speech, because the University has given to its students and faculty everything for which the Berkeley Free Speech Movement is fighting.

THE GOAL OF the movement at Berkeley is, in the words of one of its leaders, "the right to advocate anything on the campus, except what is prohibited by civil law."

The Movement is thereby fighting the complete lack of communication between the students, faculty, and administration at the University of California. It was this lack of communication which made resolution of the conflict nearly impossible by more orderly means.

The problem of communication at Madison, however, has been pretty well resolved through cooperation of the students, faculty, and administration. The Regents have, for all practical purposes, delegated the authority for guiding student affairs to the faculty, and the faculty has handled the matter in a remarkable way. It has set up the Committee on Student Life and Interests, better known as SLIC, which is made up of faculty members, administrators and students.

THE STUDENTS ON this committee have an equal standing with the other members. This fact is recognized in practice, for, as acting Dean of Student Affairs Lewis E. Drake has commented, "The students are listened to."

"The faculty and students set up the policy and the administration follows that policy," Drake said.

It is SLIC that established the policy regarding the presentation of off-campus speakers by student organizations. The policy is a liberal one; it allows anyone to speak so long as "the program will not damage the University or interfere with its over-all educational program."

THIS CLAUSE in the statement of policy is clearly meant to be elastic in its interpretation, and SLIC interprets it in its broadest sense. For example, a person labeled as "subversive" by the federal government will not be prevented from speaking, the rules say, unless his "public record of conduct has clearly established him as obnoxious or offensive to society."

The term "conduct," however, "does not include the holding or advocating of opinions or purposes, or membership in organizations or the actions of those organizations." A speaker can advocate almost anything he pleases at this University.

Of course there is a certain amount of red tape that student organizations must wade through in order to get speakers properly registered, but student leaders say that SLIC makes it as easy as possible for the organizations. The attitude is one of cooperation.

CONTRAST THIS situation to the one at Berkeley, where since 1934 there had been such strict bans on free speech that in 1952 Adlai Stevenson had to stand outside the university grounds in order to give an address.

In 1956 the rules at Berkeley changed to allow controversial speakers on campus; however the administration required police protection and a tenured faculty moderator at all "controversial meetings."

Student organizations were not permitted to advocate anything, to recruit members, or to raise funds on campus. This meant that the "Students for Lodge" and "Students for Scranton" clubs could not put the names of the

(continued on page 10)

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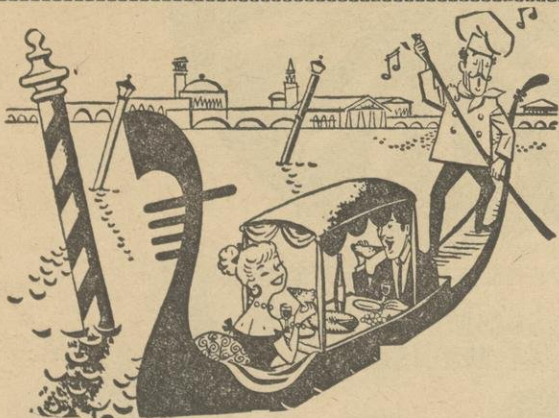
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Louis Armstrong Show Cancelled

TUSCALOOSA, Ala. (CPS) — A decision by the University of Alabama administration to prevent entertainer Louis Armstrong from appearing on campus has met with strong student objection.

THE ADMINISTRATION had "advised" a student organization not to contract with Armstrong, a Negro, for an appearance at the organizations Festival of Arts in Feb. The university administration denied that its decision had anything to do with race.

As a result of the incident, which attracted national attention when it was reported in the student newspaper, the Crimson-White, the Alabama student government unanimously passed a resolution asking that "the administration repeal its ban on the appearance of Louis Armstrong and his All Stars."

A student group circulated a petition requesting that Armstrong be allowed to appear, but later withdrew it on grounds that "due to the distortions of the controversy by the national news medias, (it) could do nothing but harm the university."

THE GROUP said that its original decision to petition "had nothing to do with the racial issue, but was a protest against the administration depriving the students of seeing the renowned entertainer."

"We dropped the petition," a group spokesman said, "not because our feelings about wanting the entertainer on campus have changed, but because the original purpose of the petition had become distorted by the racial implications which the national news medias have placed on the controversy."

Exactly what role—if any—the question of race had in the incident was unclear. The university administration issued a state-

ment denying that Armstrong's race had anything to do with the decision not to have him appear, but it did not offer any explanation for its action.

THE STATEMENT said, "The administration of the University of Alabama advised the student Cotillion Club not to contract with Louis Armstrong for an appearance in February. The Cotillion Club followed the advice of the administration."

"The university does not have a policy against the appearance of Negro entertainers and the position of the administration in this case is not based on the race of Mr. Armstrong and his group. Negro entertainers appear on this campus every week at different student functions."

"Negotiations with the Louis Armstrong group had not reached the point of a contract and therefore, there was no 'cancel-

lation" of a scheduled appearance."

"THE UNIVERSITY administration will not debate the reasons for the advice given in this instance."

The Crimson-White editorialized that the "crisis is much bigger than Louis Armstrong or any Negro entertainer. It is a crisis that encompasses and may set a dangerous precedent for the entire cultural and academic scope of the university."

The paper said the incident "is not racial in the sense of segregation or integration because that is no longer relevant at this university in academic cultural or social levels. It is a racial matter in as much as Louis Armstrong is a Negro and that, of course, does have an important bearing on the problem."

THE PAPER, which viewed the problem primarily as one of aca-

demic freedom rather than of race, said:

"Faced with a problem crucial to any Southern institution our students reacted in a commendable and intelligent manner. But the students are not listened to on this campus when it comes to matters affecting the university. It is okay for them to talk about racial problems in Mississippi, to discuss college mores in panel discussion, to send telegrams con-

gratulating Southern California. But it is not all right for them to seek knowledge about how things are at home."

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Madison Seeks Summer Lifeguards

The City of Madison Personnel Department is seeking male applicants for the position of Lifeguard I for summer employment on the public beaches of the Parks Division Recreation Section.

Beginning salary for a 40-hour week is \$336 monthly, paid bi-weekly at the rate of \$155, or \$1.94 hourly.

APPLICATIONS may be obtained at the Personnel Department, room 404 City-County Building on or before Feb. 22 and thereafter only if test arrangements can be made.

There will be a qualifying pool test at 7:30 p.m., Tuesday, March 2, at the West High School pool; however, applications must be on file prior to the test.

All applicants must be 18 years

old or over on the date of employment; and at the time of application, must be in satisfactory physical condition, be at least 5 feet 6 inches tall and weigh not less than 155 pounds.

THE WORK INVOLVES the regular duties of a Lifeguard such as: lifesaving, resuscitation, first aid, and maintaining order on the beaches.

New applicants are required to attend 16 hours in study and 16 hours in the pool program of the Lifeguard Training School, under the direction of Mr. C. H. Tucker, Recreation Services Supervisor of the Parks Division. Former Lifeguards are required to attend 12 hours in the pool training and may be required to attend the study group to learn new techniques.

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Ford Foundation Tops 'Gift' List As 'U' Accepts Over \$2,000,000

Gifts and grants of \$2,007,553, including \$1,105,457 from federal agencies and 29 contributions from Wisconsin sources, were accepted by the University regents Friday.

THE LARGEST amount, \$700,000, came from the Ford Foundation, New York, to expand and strengthen the University's training and research program in Latin America which is undertaking an extensive study of agrarian structure and land ownership and tenure and attempting to further international understanding in Latin America.

A University graduate, the late Dr. Carl T. Stephen of Chicago, Ill., bequeathed approximately \$3,000 to aid cancer research at the University. The bequest was accepted by the University Regents meeting in Madison Friday as a "Living Memorial" to Dr. Stephan.

For the fifth time, J.P. Lee of Menomonie, has presented \$250 to the University to help a needy student in pharmacy. He asked that a Menomonie County resident be given preference for the financial assistance, if there is one taking pharmacy at the University. If there is not, then it is made available to a Wisconsin

resident.

THE JOHNSON Foundation, Racine, allocated \$10,000 to continue support of the University Center for Productivity Motivation in the School of Commerce. Another \$350 for the same purpose came from the Mautz Paint and Varnish Company Foundation, Madison.

THE NATIONAL Science Foundation provided \$64,700 to support a summer institute in physics for secondary school teachers at the University of Wisconsin-Milwaukee, and \$45,800 for a Madison campus project titled "Research Participation for High School Teachers," under direction of the department of zoology.

The National Institute of Health made a grant of \$200,000 for an interdisciplinary study in climatology.

"IN RECOGNITION of the superior quality of engineering instruction and training in the University mechanical engineering department," the Ford Motor Company Fund, Dearborn, Mich., contributed \$5,000 to be used at the discretion of the department in enriching its programs. The donor said this would be the first of three such annual allocations

for this purpose.

Gifts from Wisconsin sources included two totaling \$4,000 from the Harry J. Grant Foundation, Milwaukee, for scholarships and the proposed Elvehjem Art Center; and \$386 from the Mineral Point Community Chest and \$380 from the Lancaster Community Chest for medical research.

Lloyd A. Kasten, professor of Spanish and Portuguese at Madison, contributed \$1,800 for publication of studies prepared at the University's Seminary of Medieval Spanish Studies. Prof. Gordon E. Bivens, UW-M economics,

made an initial gift of \$150 for programs in the field of consumer affairs.

OTHER GIFTS from Wisconsin organizations for scholarships and research included:

From the Alma G. Hall Foundation, Milwaukee, \$500; the Frank Rogers Bacon Foundation, Milwaukee, \$7,032; Otto L. Kuehn Co., Milwaukee, \$300;

Milwaukee Internists' Club, \$200; Wisconsin County Fairs' Association, \$1,000; Madison General Hospital, \$175; and securities valued at \$5,165 from Allen J. Shafer, Madison.

Sproul Hall vs. Bascom Hill

(continued from page 8)

candidates on posters advertising meetings of their organizations, and thus could not make their nature known. To do so would have constituted "advocacy."

THE ONLY place where students were unhampered in their political activities was a small section of the campus which bordered on downtown Berkeley and had been a part of the city until the university took it over in 1959. Student organizations had used this area without conflict until September of 1964, when the administration clamped down and extended its ban. It was then that the University of California made itself known to the world.

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WSA Veep Sees Success During Upcoming Term

By ERIC NEWHOUSE
WSA Reporter

"It's been a successful semester for WSA, and I think next semester will be a better one," concluded Wisconsin Student Association Vice-Pres. Ed Weidenfeld.

THE STATEMENT was a wrap-up of the things that WSA had accomplished in the last semester.

One large-scale bill in Weidenfeld's estimation is a housing bill that was passed by Student Senate and will come before the Student Life and Interest Committee next semester.

The bill contained these provisions:

- No distinction be made between apartments and rooming houses,

- All students above freshman standing or 21 years of age may live in any type of house they please,

- No distinction be made between males or females in any housing regulations,

- Freshmen under 21 years of age be required to live in an organized housing unit with a house-fellow or counselor,

- A study be made of housing space available for married graduate students.

"I expect that the report (to SLIC) will substantially alter the present standards for student housing," Weidenfeld said. Weidenfeld is also a member of SLIC.

ANOTHER important bill set up a WSA committee to evaluate course curriculum. The result will be a published report of the curriculum and value of all the University's general survey courses, "whether or not the evaluation is requested."

Several Senate meetings before, the Senate responded to student pressure (acting against WSA executive pressure), and voted down a bill asking for mandatory dues.

The problem, obviously, was that the WSA budget was too small, and the Senate chose instead to try and increase the sale of WSA Contributing Membership Cards.

THIS THEY did, by enacting a priority system in which the contributing members would get early ticket sales for Homecoming, Symposium, Exam Files, Model United Nations, Mock Senate, and in which only contributing members could purchase the very-low-cost WSA Insurance.

A more recent bill is the general-policy bill on the "publish-or-perish" controversy which asked that the University devote more time to instruction procedures.

The authors of that bill have announced that in the coming semester, they will introduce more bills which ask for more contact between the individual student and his professor.

"**THIS IS** indicative of student concern with the problems of the academic community," said Weidenfeld. "Students are becoming more aware of the University itself, and less concerned with external problems in general."

"One result of responsible criticism is that the time will come shortly when both students and faculty may have to re-evaluate the traditional concept that it is the faculty who decide how this community is being run."

"If this is a community, then there has to be a partnership, and if there is a partnership, everyone must recognize that there is no justification in students having less of a role in governing the community than non-students of equivalent age being denied an active role in his community."

WEIDENFELD announced that as part of the increased student

responsibility program, WSA was asking that students be made members of faculty committees in strategic areas.

He added that by the end of the year, student would be on the following committees: Loans and Scholarships, Books and Supplies, Admissions, Library Committee, and Athletic Board.

An attempt to put students on Divisional Committees, where

they would have a hand in hiring-firing and tenure policies, seems to have failed.

"**WE RESPECT** the faculty position as long as the faculty allows students to state their arguments before the faculty. Unfortunately, many faculty members have not been true to their own tradition of objectivity in allowing any student to appear before them," Weidenfeld said.

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(continued from page 1)
tained at 172 Bascom or the new Administration Building.
After registration materials

have been received, students obtain assignments to hours and sections for assignment committee subjects. A special list of committee rooms is contained in the registration packet.

STUDENTS then have their study lists checked by the respective dean's office representative. Then students register at the

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Armory. It will be open Wednesday and Thursday 8:00 a.m. to 4 p.m., and Friday 8 a.m. to 7:00 p.m. All cards must be completely filled in with ink

before reporting at the Armory. The student will receive his stamped fee cards there.

Students may then pay their fees at the Bursar's Office, new

Administration Building, Monday through Friday from 8 a.m. to 4 p.m. A fine will be charged for payment of fees after the first week of classes.

— PLACEMENT SCHEDULE —

FEBRUARY 4-12

(Prepared by the University Placement Services, Room 117 Bascom Hall)

LETTERS & SCIENCE (all majors unless otherwise indicated) Room 117 Bascom Hall. Chemistry at 109 Chemistry Bldg.

Eastman Kodak—chem., physics & ap. math.
Aetna Casualty & Surety Co.
Aetna Life Insurance Co.
Aid Ass'n. for Lutherans—Mathematics
*Allied Chemical Corp.—chem. at 11:50 Eng. Bldg.
Armour Pharmaceutical—chemistry
Anaconda Wire & Cable Company
Bankers Life Company—Des Moines, Iowa
*Bankers Life & Casualty Co.—Chicago—math
Battelle Memorial Inst.—MS & Ph.D. physics, chem., mathematics, and other majors
*Leo Burnett Company Inc.
Celanese Corp.—chem., physics & MS Ind. Reln.
Corning Glass Works—chem., math, physics & other majors
Crum & Forster Group
Deere & Co.—math and other majors
E. I. Du Pont—ap. math, physics, chemistry & other majors
Eastman Kodak—math, ap. math, numerical anal. and other statistics
First Wisconsin National Bank—math, other maj.
Gerber Products Co.—chem. and other majors
*John Hancock Mutual Life Ins.—mathematics
Alleghany Ballistics (Hercules)—Ph.D. ap. math, chemistry and physics
Hoffman La Roche—chem., statistics, other maj.
Honeywell—MS & Ph.D. ap. math & math & Ph.D. physics and statistics
Irving Trust
Kemper Insurance
*Eli Lilly & Co.—chemistry
*Mutual Benefit Life Ins. Co.—math
Parke Davis & Company—math, chemistry & other majors
Philco-Aeronutronics—physics, geophysics, math, ap. math, num. anal. & statistics
*Phillips Petroleum—Ph.D. chemistry
Jewel Tea—107 Commerce
Shell Companies—chem., geophysics, physics, math physics and other majors
Union Carbide—Chemicals & Olefins Divisions—chemistry, math and Num. anal.
Wood Conversion
Navy Department—Administrative Office
U.S. Atomic Energy Comm.—MS & Ph.D. chem., physics, ap. math and MS degree other majors
U.S. Dept. of the Interior—Bureau of Mines, geology, geophysics and physics
U.S. Public Health Service

AGRICULTURE—136 Ag. Hall

Gerber Products
Shell Companies
Jewel Tea—107 Commerce
BACTERIOLOGY—113 Bacteriology
Armour Pharmaceutical—109 Chem. or 174 Pharmacy
Gerber Prod.—117 Bascom
*Eli Lilly—109 Chem.
Parke Davis—117 Bascom

BIOCHEMISTRY—123 Biochemistry

Armour Pharmaceutical—109 Chem. or 174 Pharmacy
*Eli Lilly—109 Chemistry

GEOLOGY—282 Science Bldg.

U.S. Dept. of Interior—Bureau of Mines—117 Bascom
Corning—117 Bascom
Industrial Relations Majors
Celanese Corp.—117 Bascom
Corning—117 Bascom

JOURNALISM—285 Journalism

*Leo Burnett

LAW

Aetna Casualty—117 Bascom
*Bankers Life—117 Bascom
Crum & Forster—117 Bascom

LIBRARY SCIENCE

Eli Lilly & Co.—MS with undergraduate degree or concentration in chemistry
Medical Technology
Armour Pharmaceutical—109 Chem. or 174 Pharmacy
Parke Davis—117 Bascom
Pharmacy—174 Pharmacy
Hoffman La Roche—117 Bascom

COMMERCE—107 Commerce Bldg.

Aetna Casualty & Surety Co.
Aetna Life Insurance Co.
Aid Ass'n. for Lutherans
Anaconda Wire & Cable Co.
Bankers Life Company—Des Moines
*Bankers Life & Casualty—Chicago
Battelle Memorial Institute
Benefit Trust Life Insurance Co.
*Leo Burnett Company, Inc.
Celanese Corporation
Chrysler Corporation
Control Data Corporation

Corning Glass Works
Crum & Forster Group
Culligan, Inc.
Douglas Motors Corp.
Eastman Kodak
Ernst & Ernst
First Wisconsin Nat'l Bank.
Fontaine McCurdy & Co.
*John Hancock Mutual Life Ins.
Hoffman La Roche—117 Bascom
Honeywell
Irving Trust
Jewel Tea
Jostens Inc.
Kaiser Aluminum
Kemper Insurance
*Eli Lilly & Co.
Marathon Electric Mfg. Corp.
Minnesota Mining & Mfg.
*Mutual Benefit Life Ins. Co.
Parke Davis & Company
Price Waterhouse & Co.
Roadway Express, Inc.
Western & Southern Life Ins. Co.
Wipfli Ullrich & Co.
Wood Conversion
F. W. Woolworth Co.
U.S. General Acctg. Office
U.S. Atomic Energy Comm.
U.S. Bureau of Public Roads

ENGINEERING—1150 New Engr. Bldg.

*Allied Chemical Corp.
American Air Filter
Anaconda Wire & Cable Company
Anheuser-Busch Inc.
Battelle Memorial Institute
Chrysler Corporation
Consolidated Papers, Inc.
Cook Electric Company
Corning Glass Works
Cutler Hammer Inc.
Deere & Company
Douglas Motors Corp.
E. I. DuPont
Fairbanks Morse Inc.
FMC Corporation
General Dynamics Corp.—Liquid Carb. Div.
Goodman Mfg. Co.
*Hercules Powder
*Alleghany Ballistics (Hercules)—Ph.D.
Hewlett Packard Co.
Hoffman La Roche
Honeywell
Johnson Service Co.
Jostens Inc.
Kaiser Aluminum
Kennecott Copper Corp.
*Eli Lilly & Co.
Marathon Electric Mfg. Corp.
Mechanical Handling Systems
Modine Mfg. Co.
Monsanto Chemical Co.
Northern Indiana Public Service
Pan American Petroleum Corp.
Parke Davis & Company
Parker Hannifin Corp.
Pennsylvania R. R. Co.
Philco-Aeronutronics
*Phillips Petroleum
Reserve Mining Co.
Seeburg Corporation
Shell Companies
Space Technology Labs. Inc.
Union Carbide—Chemicals and Olefins
Union Carbide Corp.—Plastics Div.
Warner Elec. Brake
Wood Conversion
Zenith Radio Corp.
Navy Department (Administrative Off.)
U.S. Atomic Energy Comm.
U.S. Bureau of Public Roads
U.S. Dept. of the Interior—Bureau of Mines

*Denotes interest in summer employment—consult your placement office. Other opportunities for summer employment—check with placement.

Schedules will be out during Registration Week for sign-up at 117 Bascom Hall.

Applications for the Federal Service Entrance Examination must be filed by February 18th for the March 20th examination; by March 18th for April 17th and by April 15th for May 15th examination. Test for management internship will be given in February.

File by March 15th for the May 1st Foreign Service Examination and by October 18th for the December 4th examination.

Next Wisconsin Career Day Examination will be in March. Check!

Peace Corps and Vista (Volunteers in Service to America) Information available in Room 117 Bascom.

Heavy interviewing will be in February and March—so be sure you are registered with your placement office now!

CAMPUS INTERVIEWS SCHEDULED FOR THE SPRING OF 1965

PREPARED BY THE PLACEMENT SERVICES, ROOM 117 BASCOM HALL. LIST IS SUBJECT TO CHANGE.

Abbott Labs.	Feb. 22-24	Combustion Engr. Inc.	Feb. 15	Women	Mar. 11	*N/W Nat'l Life Ins.	Mar. 1	United of Omaha	Feb. 22
Acme Steel Co.	Mar. 22-23	Commonwealth Assoc. Inc.	Feb. 8	Haskins & Sells	Feb. 19	Nutrena Mills—Div. of	Feb. 17	U. S. Rubber	Feb. 22
Adv. Scientif. Inst.	Mar. 25-26	Commonwealth Edison	Mar. 18	Heil Co.	Mar. 23-24	Cargill	Feb. 25	U. S. Steel	Feb. 16
Aetna Cas. & Surety Co.	Feb. 11	Conn. General Life	Feb. 22-23	*Hercules Powder	Feb. 9	Oilgear Co.	Mar. 8-9	United Church Board	Mar. 10
Aetna Life Ins. Co.	Feb. 10	Conn. Mutual Life	Feb. 17	*Alleghany Ballis.	Feb. 9-10	Olin	Mar. 12	UNIVAC	Mar. 8
Aid Ass'n. for Luther.	Feb. 11	Consolidated Papers, Inc.	Feb. 11	Hewlett Packard	Feb. 12	*John Oster Mfg.	Mar. 25	Universal Oil	Mar. 2
Air Reduction Co.	Mar. 1	Consumers Power	Feb. 17	Hoffman LaRoche	Feb. 8	Outboard Marine Corp.	Feb. 16	Stanford Univ.	Jan. 22
AiResearch Mfg. Co.	Mar. 8	Container Corporation of	Mar. 11-12	Holt Instr. Labs.	Mar. 29	Owens Corning Fiberglas	Mar. 16	Grad. Business Sch.	Feb. 18
Alleghany Ludlum Steel	Mar. 31	America	Mar. 11-12	Home Mutual Ins.	Mar. 9	Owens Illinois	Mar. 25-26	Grad. Business Sch.	Feb. 18
Allen Bradley Co.	Feb. 22	*Cont'l. Assurance Co.	Mar. 2	Honeywell	Feb. 11-12	Pacific Mutual Life Ins.	Feb. 19	Univ. of Ill.	Feb. 18
*Allied Chem. Co.	Feb. 10	Continental Can Co.	Mar. 8-9	Geo. A. Hormel	Mar. 15-16	Pan American Petroleum	Feb. 8	Tufts University	Jan. 11
The Louis Allis Co.	Mar. 23-24	Cont'l. Ill. Nat'l. Bk. and	Feb. 17-18	Household Finance	Feb. 18-19	Pan Amer. World Airws	Mar. 4-5	Fletcher School	Mar. 9
Allis Chalmers	Mar. 9-10-11	Trust Co.	Feb. 17-18	Hughes Aircraft	Mar. 15	Parke Davis & Co.	Feb. 11-12	U of W Med. School	Mar. 9
Allstate Ins.	Mar. 9	Cont'l. Nat'l. Amer.	Feb. 23-24	Humble Oil & Refg.	Mar. 2	Parker Hannifin Corp.	Feb. 9	N/W University	Jan. 12
All-Steel Equip. Inc.	Mar. 1	Group	Feb. 23-24	Hupp Corp.	Mar. 26	Parker Pen Company	Feb. 15	M. of Arts Teach. Prog.	Mar. 17-18
Alcoa	Mar. 3	Cont'l. Oil Co.	Mar. 19	Ill. Central RRd.	Mar. 22	Peat Marwick Mitchell	Feb. 16-17	Upjohn	Mar. 8-9
Amer. Ag. Chem. Co.	Mar. 29	Control Data Corp.	Mar. 18	Illinois Power	Feb. 17	J. C. Penney	Mar. 3-4	*Vick Chemical	Mar. 8-9
Amer. Air Filter	Feb. 9	Cook County Dept. of	Mar. 10	Illinois Tool Works	Mar. 24	Pennsylvania Railroad	Feb. 8	Vilter Mfg.	Mar. 12
Amer. Appraisal Co.	Mar. 12	Public Aid	Mar. 10	Ingersoll Milling	Mar. 8	Peoples Gas Light Coke	Mar. 24	*Walker Mfg.	Mar. 2
Amer. Can-Research	Mar. 4-5	Cook Electric Co.	Feb. 9	Ingersoll Rand	Feb. 22	Perflex Corp.	Apr. 5	Warner Elec.	Feb. 10
Amer. Can-Canco	Mar. 15-16	Cornell Aero. Lab.	Feb. 16	Inland Container	Mar. 23	Chas. Pfizer	Mar. 9 & 18	*Wash. Nat'l. Ins.	Feb. 16
Amer. Cynamid Co.	Mar. 2	Corning Glass Works	Feb. 11-12	Inland Steel	Feb. 26	Aeronutronics—Philco	Feb. 10	Waukesha Motor	Mar. 12
Amer. Elec. Pow. Serv.	Feb. 25	Corn Products	Mar. 19	I. B. M. Elec. Prod.	Mar. 15-16	*Phillips Petroleum	Feb. 10	Wells Fargo Bank	Feb. 17-18
Amer. Hospital Supply	Feb. 25-26	Crum & Forster	Feb. 9	I. B. M.	Feb. 17-18	Pittsburgh Nat'l. Bank	Mar. 3	West Bend Co.	Feb. 26
Amer. Inst. Foreign Trade	Feb. 26	Patrick Cudahy, Inc.	Mar. 23	International Harvester	Feb. 22-23	*Pittsburgh Plate—Chem.	Mar. 10	*West & South Life	Feb. 11
Amer. Mach. & Foundry	Mar. 24	Culligan Inc.	Feb. 10	Inter'l. Milling	Mar. 1-2	Div.	Mar. 10	Insurance Co.	Feb. 25 & 26
Amer. Motors Corp.	Apr. 5-6	Cummins Eng. Co.	Feb. 26	Inter'l. Nickel	Mar. 12	Pittsburgh Plate Glass	Feb. 18-19	Western Printing	Mar. 29
Amer. Nat'l. Bk. & Tr. Co.	Feb. 22-23	Cutler Hammer Inc.	Feb. 10	Inter'l. Nickel	Mar. 12	Pratt & Whitney Aircraft	Mar. 12	Westinghouse Elec.	Mar. 15-16
Amer. Nat'l. Red Cross	Feb. 23-24	Daffin Corp.	Mar. 1	Interstate Power	Feb. 26	Prentice Hall	Feb. 24	W. Va. Pulp & Paper	Mar. 3
American Oil Co.	Feb. 15	Dayton Power & Light	Feb. 25	Iowa Illinois Gas & Elec.	Mar. 10	Price Waterhouse & Co.	Feb. 8-9	Whirlpool	Mar. 11-12
*Amer. Oil & Amoco	Mar. 9-10	Deere & Co.	Feb. 9	Irving Trust	Feb. 11	Procter & Gamble	Mar. 11-12	Wilson & Co.	Feb. 18-19 & 22
American Viscose	Mar. 30	DeSoto Chem. Coatings	Feb. 16	Jet Propulsion	Mar. 22-23	Milw. & Ohio	Mar. 11-12	Wipfli Ullrich	Feb. 8
Ames Company	Apr. 28	Detroit Edison	Feb. 22	Jewel Tea	Feb. 16 & 10	Charmin'	Mar. 10-11	Wis. Elec. Power	Mar. 3
Amoco Chemicals	Mar. 26	Reuben H. Donnelley	Mar. 17	Johns Manville	Mar. 22		Mar. 16-18	Wis. Elec. Power	Mar. 22
Amper Corp.	Mar. 19	R. R. Donnelley & Sons	Mar. 15-17	Johnson Wax	Feb. 15		Mar. 2	Wis. Power & Lgt.	Feb. 22-25
Amphenol Borg. Elec.	Mar. 16-17	Douglas Aircraft	Mar. 3-4	S.C. Johnson & Son	Mar. 8-9	Prudential Ins.	Mar. 11		Mar. 29
Amsted Ind.	Feb. 23	Dow Chemical Co.	Mar. 3-5	Johnson & Johnson	Mar. 8-9	Pullman Standard	Mar. 18	Wis. Pub. Service	Feb. 16
Griffin Wheel	Feb. 23	*Dow Corning	Feb. 15-16	Johnson Service	Feb. 9-10	Pure Oil	Feb. 23-24		Feb. 24
Anaconda Wire & Cable	Feb. 9	E. I. DuPont	Feb. 9-12	Jones & Laughlin Steel	Mar. 5	Quaker Oats	Mar. 23	Wood Conversion	Feb. 8
Art Andersen & Co.	Feb. 24-25	Eastman Kodak Co.	Feb. 4	Joslyn Stainless Steels	Mar. 8	R.C.A.	Feb. 15-16	F. W. Woolworth	Feb. 26
Anheuser Busch Inc.	Feb. 8	Eaton Mfg. Co.	Mar. 24	Jostens Inc.	Feb. 12	Rath Packing	Mar. 4-5	Wyandotte Chem.	Mar. 26
*Applied Physics Labs	Mar. 9-10	Ekco Containers	Mar. 19	Kaiser Aluminum	Feb. 10	Raychem	Mar. 11	Xerox	Mar. 11
Johns Hopkins	Mar. 9-10	Emerson Elec. Mfg.	Feb. 22	Kelsey Hayes	Mar. 5	Raytheon	Feb. 16-17		Mar. 3
Archer Daniels Midland	Mar. 1-3	Employers Mutuals	Mar. 18	Kemper Insurance	Feb. 9	REA Express	Mar. 9	Arthur Young	Feb. 22-23
Argonne Nat'l. Lab.	Feb. 25-26	(Women)	Apr. 1	Kenecott Copper	Feb. 10	Red Jacket Mfg.	Mar. 3	Y.W.C.A.	Apr. 8
Armco Steel	Mar. 2	Equitable Life Assur.	Mar. 11-12	Kiesling & Gilbertson	Mar. 8	Republic Steel Mar. 26 & Mar. 1-2	Feb. 8	Youngstown Sh. & Tube	Mar. 19
Armour Grocery Prod.	Feb. 23	Soc. of the U.S.	Mar. 11-12	Kimberly Clark	Feb. 16-19	Reserve Mining	Feb. 8	Zenith Radio	Feb. 11
Armour Pharmaceutical	Feb. 10	*Erie Mining Co.	Mar. 8	Koehring Co.	Mar. 9-10	Reynolds Metals	Mar. 4-5		
Armstrong Cork Co.	Feb. 22	Eso & Humble	Feb. 23-25 & 26	Kohler Company	Mar. 4	Roadway Express	Feb. 9	U. S. GOVERNMENT:	
Associates Investment	Mar. 8	*Ethyl Corporation	Mar. 1-2	Koppers Co.	Mar. 16	Roche Labs.	Apr. 29	C.I.A.	Mar. 2-4
Atlantic Refining Co.	Mar. 15	FS Services	Mar. 9	S. S. Kresge	Mar. 16	Rockwell Standard	Mar. 19	N.S.A.	Feb. 17-19
Atlas Chem. Ind. Inc.	Feb. 15	Fabri-Tex Corp.	Mar. 19	Kroger	Mar. 1-2	Ryan Inc.	Mar. 30	Bureau of the Budget	Mar. 3
Automatic Elec. Co.	Mar. 15	Factory Mutual Engr.	Mar. 18	Ladish	Feb. 26	*Rohm & Haas	Mar. 1-2	Internal Revenue Serv.	Mar. 3
Babcock & Wilcox Co.	Feb. 25	Fairbanks Morse	Feb. 12	Leeds & Northrup	Feb. 24	Royal Globe Ins. Co.	Mar. 17	U. S. Air Force	Mar. 22-23
Bankers Life Co.	Feb. 12	Falk Corp.	Feb. 26	Libby McNeill & Libby	Feb. 22	Kurt Salmon Assoc.	Mar. 18-19	Gen. Acctg. Office	Feb. 9
*Bankers Life & Casualty	Feb. 10	Fansteel Metallurgical	Mar. 4-5	*Lincoln Labs.—M.I.T.	Mar. 5	Schrock Fertilizer	Mar. 8-9	Air Force Systems Com.	Feb. 17
Bank of America	Mar. 22-24	Federal Deposit Ins.	Mar. 2	Liberty Mutual	Feb. 15	Scott Paper	Mar. 8-9	Army Eng. Waterways	Mar. 26
Barber Colman Co.	Mar. 16	*Federal Intermed. Credit	Mar. 3	*Eli Lilly	Feb. 10-11	Sears Roebuck	Feb. 24-25	Special Services	Apr. 8-9
Battelle Mem. Inst.	Feb. 11	Bank	Mar. 3	Lincoln Nat'l. Life Ins.	Feb. 25-26	Sentry Insurance	Feb. 8	Army Mat'l Command	Mar. 1-2
Baxter Labs. Inc.	Feb. 24-25	Federal Res. Bk. Chgo.	Feb. 24	Link Belt Co.	Apr. 8	Service Bureau Corp.	Mar. 3	Army Audit Agency	Feb. 23
Bechtel Corp.	Apr. 1	Federated Ins. Cos.	Feb. 24-25	Lockheed California	Feb. 15	Shell Companies	Feb. 11-12	Army Engr.—Rock Island Mar. 4	
Bell Aerosystems Co.	Mar. 16-17	Fireman's Fund. Amer.	Mar. 9	Los Angeles County	Mar. 17	Sherwin Williams	Mar. 5	U. S. Marine Corps	Feb. 22-24
Belle City Malleable Iron	Mar. 10	Insurance	Mar. 9	Lybrand Ros Bros.	Feb. 18-19	Sinclair Research	Feb. 18		Apr. 26-28
Wisconsin Tele. Co.	Mar. 2-4	Firestone Tire & Rub.	Feb. 15-16	McDonnell Aircraft	Mar. 2-4	A. O. Smith Corp.	Mar. 11	U.S. Coast Guard	Mar. 29
Bell System: Technical	Feb. 23-25	Mar. 10-12		McGladrey, Hansen	Feb. 18		Mar. 1	Bureau of Ships	Mar. 25
American Tel. & Tel.		*First Nat'l City Bank	Mar. 1	*Mallinckrodt Chem.	Feb. 24-26	Smith Barney	Mar. 17	The Navy Dept.	Feb. 8-9
Bell Tel. Labs.		First Nat'l Bk. of Chgo.	Feb. 24	Manitowoc Engr.	Mar. 12	Snap On Tools	Mar. 17	*Naval Ord.—China Lake	Mar. 8-9
New York Tele.		*First Wis. Nat'l. Bk.	Feb. 10	Mfr's Nat'l. Bk. Detr.	Mar. 10	Socony Mobil Oil	Mar. 16-18	Oceanographic Office	Feb. 26
Sandia		Fisher Governor	Mar. 1	Marathon Elec. Mfg.	Feb. 9	Space Tech. Labs.	Feb. 11-12	*Naval Research	Mar. 4-5
Western Electric		Flui Dyne Engr. Corp.	Mar. 29		Feb. 16	Sperry Phoenix	Mar. 19	*Naval Ordnance Lab.	Mar. 5
Wisconsin Telephone		Fontaine, McCurdy	Feb. 9-10	Marathon	Feb. 23-25	Square D	Mar. 9-10	David Taylor Model Basin	Mar. 5
Non-Technical	Mar. 2-4	FMC Corporation	Feb. 9	Marine National Exchange	Mar. 4	A. E. Staley	Mar. 4-5	Manned Space—Texas	Mar. 12
American Tel. & Tel.		Mar. 18-19 & Apr. 6		Bank	Mar. 4	Standard Brands Inc.	Mar. 26	Marshall Space—Ala.	Mar. 12
New York Tel.		Foot Cone & Belding	Apr. 15-16	Martin Company	Feb. 17-19	Stand. Oil—Amer. Oil	Mar. 22-23	John F. Kennedy Space	Mar. 12
Western Elec.		Ford Motor	Mar. 1-2	Mason & Hanger	Mar. 24	Stand. Oil of Calif.	Feb. 22-26	Florida	Mar. 12
Wisconsin Tel.			Feb. 17-18	Mass. Mutual Life Ins.	Mar. 11	Stand. Oil of Ohio	Feb. 16-18	U. S. Atomic Energy	Feb. 10-12
*Beloit Corp.	Mar. 1			Ronald Mattox & Assoc.	Mar. 22	Stand. Oil of Cal.—Ortho	Mar. 9	R. E. A.	Mar. 8
Bemis Bro. Bag Co.	Mar. 1			Oscar Mayer & Co.	Feb. 22	State Farm Insurance	Mar. 10	N. Reg'l. Res. Labs.	Mar. 30-31
	Mar. 19			Mar. 15, Mar. 22, Mar. 29		Calif. State Personnel	Mar. 11	USDA—Soil Conservation	Feb. 15
Bendix	Feb. 19			Mead Corporation	Mar. 17-18	Ill. Dept. of Public	Mar. 11	Patent Office	Mar. 23
	Feb. 22			Mead Johnson	Feb. 24-25	Works, Buildings	Mar. 11	Weather Bureau	Mar. 23
	Feb. 26			Mechanical Handling Sys.	Feb. 8	Ill. Dept. of Pub. Health	Mar. 30	Bureau of Pub. Roads	Feb. 12
Benefit Trust Life Ins.	Feb. 12			Wm. S. Merrell	Feb. 25-26	State of Indiana	Apr. 7	National Center for	Mar. 3
Bessemer & Lake Erie	RRd. Mar. 24			Metropolitan Life Ins.	Feb. 15	*Minn. Highway Dept.	Mar. 24	Health Statistics	Mar. 3
	Feb. 22			Milprint Inc.	Mar. 24	State of Minnesota	Mar. 25	Public Health Service	Feb. 8-9
Bethlehem Steel	Feb. 22			Milw. Chaplet & Mfg.	Mar. 18-19	State Hwy. Comm.—Wis.	Mar. 11	Bureau of Mines	Feb. 8
Boeing	Mar. 16-18			Milw. City Civ. Serv.	Mar. 19	Wyoming St. Hwy. Dept.	Feb. 25	Geological Survey	Mar. 9
Borden Foods	Mar. 16-17			M.M.M.	Feb. 9 & Mar. 17-19	Staufer Chemical	Mar. 19	Bureau of Reclamation	Mar. 3-4
E. J. Brach & Sons	Mar. 3-4			Minn. Power & Light	Mar. 29	Stouffer Foods	Feb. 19	Dept. of Labor	Feb. 15-16
Boston Store	Mar. 12			*Modine Mfg.	Feb. 9	Sunbeam Corp.	Mar. 8	Maritime Admin.	Mar. 29
Boy Scouts of Amer.	Mar. 8			Monsanto Chem.	Feb. 11-12	Sundstrand Corp.	Mar. 9-10	Naval R.O.T.C.	Feb. 15-16 & May 4-5
Brunswick	Mar. 16-17			Motorola, Inc.	Feb. 15-16	Swift & Co.	Mar. 15-16	U.S. Civil Service	Mar. 26
Bucyrus Erie Co.	Mar. 30			*Mutual Benefit Life Ins.	Feb. 12	Swift & Co. Research	Feb. 23-24	Civil Serv. Comm. Canada	Feb. 18
*Leo Burnett Co. Inc.	Feb. 11-12			National Bk. of Detroit	Mar. 4-5	Sylvania Elec. Prod. Inc.	Mar. 8-9		
Burroughs Corp.	Mar. 18			National Castings	Mar. 18-19	Tatham Laird Inc.	Feb. 26	*Asterik denotes interest in students for summer employment—consult your placement office.	
Burroughs Wellcome	Feb. 15			National Dairy Prod.	Mar. 10	Texaco	Feb. 26, Mar. 10	File by March 15th for the May 1st Foreign Service Examination and by October 18th for the December 4th Examination.	
Campbell Soup	Mar. 22-24			National Gypsum	Mar. 19	J. Walter Thompson	Feb. 15-16	FSEE:	
Cargill, Inc.	Mar. 31-Apr. 1			Nekoosa Edwards Paper	Feb. 17	Time, Inc.	Mar. 25	By Feb. 18th for the Mar. 20th examination; Mar. 18th for the Apr. 17th examination; Apr. 15th for the May 15th examination.	
Carling Brewing				New Jersey Zinc	Mar. 2	Timken Roller Bearing	Mar. 11	Tests for management internships will be given in February.	
Carnation Co.	Mar. 23-25			Newport News Shipbldg.	Feb. 18	Titanium Metals Corp.	Apr. 1	Next Wisconsin Career Day Examination will be in March. Check!	
Carrier Res. & Develop.	Apr. 5			New York Central RRd.	Mar. 11	Torrington Co.	Feb. 26		
Carson Pirie Scott	Mar. 8			*New York Life Ins.	Feb. 19	Touche Ross aBiley	Feb. 15-16		
Caterpillar Tractor	Feb. 16-17			Nordberg Mfg. Co.	Feb. 15	Trane Co.	Mar. 9-11		
Ceco Steel Prod. Corp.	Mar. 22			North Amer. Aviation	Mar. 25-26	Transworld Airlines	Mar. 1		
Celanese Corp.	Feb. 9 & Mar. 19			Atomics International		Travelers Insurance	and Feb. 22		
Center for Naval Analy. of the				Autonetics		UARCO	Mar. 16-17		
Franklin Institute	Mar. 5			Los Angeles		Underwood Olivetti	Feb. 26, Mar. 26		
Central Ill. Elec. & Gas	Mar. 5			Rocketdyne		Underwriters Labs.	Mar. 24-25		
Rex Chain Belt	Mar. 9			Space & Information		Union Carbon	Mar. 9		
Chicago Bridge & Iron	Mar. 23			North. Ind. Public Serv.	Feb. 8	Consumers Prod. Div.	Mar. 2		
Chicago Rock Isl. RRd.	Mar. 10			North. States Power	Mar. 4	Chemicals	Feb. 8-9		
Chicago Tribune	Mar. 17			The Northern Trust Co.	Mar. 9-10	Plastics	Feb. 10		
Chic. Milw. St. Paul RR	Mar. 30			N/W Bancorporation	Mar. 5	Carbon Prod.	Mar. 11-12		
Chrysler Corp.	Feb. 8			*N/W Mutual Life Ins.	Mar. 24-25	Linde	Mar. 4-5		
City of Detroit	Mar. 15-16			N/W Nat'l Bank of Mpls.	Mar. 5	Silicones	Feb. 16		
*City of Milwaukee	Mar. 23					United Air Lines	Feb. 22-23		
Cleveland Cliffs Iron Co.	Feb. 17					United Air.—Res. Labs.	Mar. 29-30		
Coast to Coast	Mar. 18					United Calif. Bank	Feb. 19		
Colgate Palmolive Co.	Feb. 16								
College Life Ins.	Feb. 25								
*Collins Radio	Feb. 18-19								
Columbia Gas of Ohio	Mar. 25								

Cagers' Direction Is Still Uphill

By DAVE WOLF
Co-Sports Editor

That the Wisconsin basketball team has improved was no longer in question when coach John Erickson's team closed the fall term with a 5-6 record. Whether the Badgers had improved enough to elevate themselves in the Big Ten race remained, however, a matter of conjecture.

It has been a season of striking contrasts—pulsating victories and painful defeats. Three of those victories came at the opening gun as Wisconsin, hoping to rebound from its disastrous 8-16 record of the previous campaign, rolled over Houston 76-65, Pittsburgh 80-63, and Bowling Green 87-56. Leading the advance for Erickson's young crew were center Mark Zubor, who had nights of 28 and 27 points, and forward Ken Barnes, who tossed in 22 in the opening win.

Reality appeared in the form of Big Ten contender Illinois. The Badgers were reminded that they still lacked the speed and rebounding necessary in the upper levels of the conference as the Illini breezed to a 70-56 triumph, despite Zubor's 30 points.

The Christmas vacation was a time of both heart-

break and gladness. At the Milwaukee Classic Wisconsin lost a pair of last second decisions to Boston College, 86-85, and Marquette 62-61. The team then travelled to Hawaii where, revived by the sunshine and the uncanny outside shooting of Paul Morenz, the Cardinal and White took two of three to finish second in the Rainbow Classic. Only one of the games counted on the season record—a spinetingling 70-69 revenge win over Boston College.

Back in the Big Ten, the Badgers were back in trouble. Iowa plastered Wisconsin 92-62, while Minnesota continued the embarrassment with a 81-57 drubbing. But then, when all appeared to have become chaos, Erickson juggled his lineup and out came a winner.

Six foot eight soph Keith Stelter went to one forward and Co-Captain Ken Gustafson, a disappointment in a shot at the guard spot, went to the other. Dennis Sweeney, another sophomore, joined dependable co-captain Jim Bohen in the backcourt. Zubor moved from forward to center—and Wisconsin shocked Purdue 76-66. All five starters hit in double figures, as Stelter dropped in 18, Sweeney hit from the outside and played tough defense, Gus-

tafson battled brilliantly under the boards and Bohen supplied the leadership which guided the team to victory.

That night of joy was followed, 48 hours later, by a night of sorrow. Leading 17-1 and 36-15 the bewildered Badgers collapsed in the second half to fall before Marquette 59-58.

Eighth in the Big Ten, with a 1-3 record, Wisconsin faces a rugged schedule when it returns from exams. Minnesota, Michigan, Indiana (twice) and non-con-

ference scoring machine Notre Dame are among the hurdles which must be crossed. Four more victories are needed to improve on last season's record — and it will take a supreme effort to get them.

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Notion: Fraternities foster scholastic irresponsibility.

Fact: The fraternity grade point average is two-tenths above the all men's average.

Notion: Fraternities demand strict conformity.

Fact: Extra-curricular campus activities are largely dominated by fraternity men.

Notion: Fraternities perform no useful campus function.

Fact: Organized groups for student voice in campus life are led by fraternity men.

Judge the fraternity system for yourself

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Epeemen Make Existence 'Bearable'

By DIANE SEIDLER

The health of the epee squad should be of major concern to the members and fans of Coach Archie Simonson's fencing team. Without the epeemen life would be unbearable and the fencing team farther from unbeatable than it is now.

This is not to cast aspersions on the foil and sabre squads. But simple arithmetic reveals that, after five meets, epee's 34 triumphs in 45 bouts is more than the amassed winnings of both foil (11-34) and sabre (18-27).

The fencers opened the season with a 15-12 win over the Shorewood Fencing Club. Later that same afternoon they lost to the

Illinois AFLA, 17-10. Things looked optimistic, however, and the "epee trend" was already evident. Rick Bauman, (5-1) and Roger Blattberg (5-1) led the epeemen (14-4) and the rest of the fencers, while Dick Arnold (sabre, 4-2) and Chuck Hellman (foil, 2-2) performed creditably.

In the second meet, a five hour quadrangular contest between Wisconsin, Wayne State, Detroit, and Air Force, all three squads were sporadic.

Wisconsin started off well by smothering Wayne State 20-7. Foil (7-2) looked good for the first time as Hellman (3-0) returned unscathed and Steve Borchardt posted a 2-1 record. But epee

stole the show by winning all nine bouts. Bauman (3-0), Captain Dick Weber (2-0), and Blattberg (2-0) led the attack.

The second match was a heart-breaker. Epee scored its second successive perfect slate, but foil fell apart and lost all nine bouts. Weber, Bauman, and Blattberg each won three for epee, while Hellman and Bob Christensen each lost three for foil. Sabre became the crucial weapon, but the sabremen could win only four of nine, and the Badgers lost, 14-13.

To put the icing on Wisconsin's already crumbling cake, Air Force outdueled the Badgers, 22-5. This time even epee couldn't stand the pressure and could win only two points. Bauman scored

both of them. Sabre posted a similar record, and foil mustered only one win.

The next encounter for the fencers comes Friday, when the

three squads travel to Princeton, N.J. to face Princeton and Rutgers in a triangular meet.

Indian Projects 'Y' Will Sponsor

The University YMCA is planning a special project with Wisconsin Indians for the Spring semester.

The YMCA has explored possible projects with Tribal leaders from Menominee County and with some Indian leaders in Jackson County.

LAST NOVEMBER the YMCA

brought Potawatomi Indian leader John Winchester to the campus to train students for work with Indians and to assess the problems Indians face in contemporary society.

Students interested in serving on the Y's Indian projects should talk with Jim Sykes, YMCA Program Associate, at the Y within the first two weeks of the new semester.

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Football Year Ends Happily

By JIM HAWKINS
Associate Sports Editor

All is well that ends well—or at least that is what the eternal optimists would have us believe. And since Wisconsin's 1964 football season did end well, or at least better than fans had any right to expect on the basis of the Badgers' performance during the rest of the season, it may be fairly safely asserted that the gridiron campaign was not a total disaster.

On November 21, confronted with the determined second place aspirations of the Gophers of Minnesota as well as bitter cold, icy winds, and their own inept 2-6 record, Wisconsin's Badgers took to the frozen turf in Camp Randall Stadium and there proceeded to surprise the sports world, the Gophers and, indeed, themselves as they turned in an impressive 14-7 victory.

Badger backs Ron Smith, Ralph Kurek, and Carl Silvestri, all seniors making their last appearance in the Cardinal and White, led the way, grinding out a total of 318 yards on the ground while quarterback Hal Brandt added 98 more in the air.

The Gophers' highly flaunted aerial attack never did get untracked, as Badger defensive backs Silvestri and Dave Fronek joined with linebackers Tom Brigham and Bob Richter to give Minnesota quarterback John Han-kinson nightmares all afternoon.

For Coach Milt Bruhn and his staff it was the end of a long, depressing season. The Badgers finished in a tie for seventh place in the conference, escaping the cellar only by virtue of their win over Minnesota in the season finale. They ranked seventh in the league in offense and were dead last in defense. It was certainly not the kind of season that most had expected.

The trauma began innocently enough when the Kansas State

Wildcats, long the doormat of the Big Eight Conference, came to town to provide the opposition for the Badgers' season opener.

Wisconsin emerged victorious, 17-7, but aside from the final score there was little separating the two clubs. The Badgers were sluggish and sporadic on offense, mounting only an occasional sustained drive. Wisconsin's weak offensive line, which was to become all the more glaringly apparent in future weeks, was noted by Coach Bruhn as the facet most in need of improvement.

On the next Saturday, the Fighting Irish of Notre Dame invaded Madison and Wisconsin's third straight win over the Irish was taken almost for granted by many.

But Notre Dame had a new head coach, Ara Parseghian, and a startlingly effective pass combination of Huarte-to-Snow, and the Badgers quickly found out what the rest of the nation would soon learn—the Irish were going to be winners again!

Nothing seemed to go right for Bruhn and his boys that gloomy afternoon as, besieged by the Notre Dame red-dog in addition to bone-chilling wind and rain, the Badgers fell, 31-7.

After a two week vacation to heal injuries and correct mistakes, the Badgers embarked on their first road trip of the season, journeying to Purdue to meet the Boilermakers who had themselves, the week before, bowed to

the rampaging Irish.

The Badger secondary, the team's biggest weakness according to pre-season prognostication, came through with flying colors, holding the Boilermakers' fine quarterback Bob Griese to only three completion in 12 attempts.

But on the ground things were different. Defensively, there was no stopping the Boilermakers, and when the Badgers did manage to get the ball they failed to muster an attack of their own.

Brandt again found himself absorbing much of the blame for the 28-7 defeat despite the fact that he completed six out of 18 tosses, and at no time could rely on a ground game to keep the defense honest and off of his back.

The Badgers returned home 0-1 in conference play and 1-2 for the season, and many people began to wonder whether Wisconsin would win another game all year.

Into Camp Randall came the undefeated Hawkeyes of Iowa,

featuring the passing wizardry of sophomore Gary Snook. And in an effort to find a winning combination, Coach Bruhn pulled out all the stops, revamping both his offense and his defense.

The final score was 31-21, the Badgers this time comfortably on the long end, and the prospects for the future again looked bright.

But then came the trek to Ohio State, whom the Badgers haven't defeated in Columbus since 1918,

and again Wisconsin's win streak was snapped at one.

Plagued by injuries, and con-
(continued on page 7)

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MEMORANDUM

TO: ALL MEN ON CAMPUS
FROM: LEON SWEET
SUBJECT: FIRST PHASE OF NEW CLOTHING CONCEPT

The Capitol Tog Shop

has an exciting innovation in the offering of fashion-styled men's clothing, specially purchased with the campus gang in mind. In a nut-shell, the idea is simply this: We offer you a free Beau Collegian membership which entitles you to earn a *discount* on any item in the store.

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(found only at 231 State St.)

PREVIEW



SPRING

1965

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Fasching Will Start Lent at 'U'

Fasching Party, the Union's annual second semester open house, will be held Friday, February 26 from 9 p.m. - 12. A myriad of free activities designed to please every taste will take place throughout the Union.

FASCHING is the German pre-Lenten festival which corresponds to the famous Mardi Gras of France and Italy. Beginning in November, Fasching builds up to a climax with parties and costume balls prior to Lent.

During Fasching, many of the soberest Germans give themselves up to partying and nonsense or, to quote an old verse, "Deliver themselves up to voluntary madness, put on masks, clothe themselves like spectres, and give themselves up to Bacchus and Venus."

To help students maintain the spirit of Fasching, members of the Union House Committee, sponsors of the event, have planned a Dixie-land jazz band performance in the Great Hall. In line with German tradition a Polka band will play in the Ratnskeller. More contemporary music will shake the rafters of the Cafeteria where a rock and roll band will provide music for listening and dancing.

IF TIRED feet are a problem, less strenuous entertainment can be found in Tripp Commons where folk-singing, piano playing and other listening entertainment will prevail.

Amid the Mardi-Gras atmosphere emphasized by balloons and masks, students may try their

luck at games of chance at the Social Committee's Hungry U mock gambling casino. Roulette, sheephead, and other similar games for those quick of eye and hand will be included.

"I'm All Right Jack," will be the full length Movietime film featured in the Play Circle that night. Other activities soon to be announced will be in other parts of the Union. Linda Gratz is in charge of the Fasching Party.

Under the direction of chairman Suzanne Dawson, House Committee members will distribute a Union cafeteria policy survey in which students will have a chance to express their opinions and offer suggestions.

AFTER the results are tabulated, and if students express a desire for changes, the committee will work with the Union staff to put them into effect. In this way the committee acts as a pressure group for students and is usually successful in getting the kitchen to try new ideas.

Committee members in charge of the project also have been doing some appetizing research. They've been tasting different foods at the Union and will continue to do so throughout second semester.

Because Gordon Commons will be opening in the fall, Tripp Commons will not be used in the evening next year for Sellery and Witte Hall contract diners. Suggestions for possible uses of this room next year are welcomed. Suggestions to date have been the use of Tripp for open contracts

for grad students and/or apartment dwellers. Suggestions for this and other projects may be placed in special boxes which are located in the Union. The House Committee will study and channel all suggestions.

Another committee project will be tours of the Union for new and transfer students on Thursday.

For information on finding and

getting to places outside of the Union, the committee sponsors the Rides Board located in the corridor outside the Stiftskeller. Cards are available to be filled out by prospective riders and drivers to all parts of the country. The service is designed to facilitate less expensive and more efficient student travel.

Inter-Faith Courses Offered by Churches

Beginning Feb. 16th, the campus religious organizations are initiating a pilot program of cooperative education called "Dialogue." The Protestant, Catholic, Jewish, Eastern Orthodox, and Baha'i student religious groups are jointly presenting six non-credit courses to meet once a week for six to eight weeks.

The titles of these courses are as follows:

• **EVOLUTION, CREATION AND THE BIBLE**—to be taught by Prof. Stan Beck, Entomology; and the Rev. Myron Teske, Lutheran Center;

• **THE RELATIONSHIP OF SEX AND LOVE**—to be taught by Prof. Warren Hagstrom, Sociology; Dr. Herman Gladstone, Student Health Psychiatry; Fr. Paul Abel, St. Francis House; Fr. Edward J. Erbe, Catholic Welfare Bureau; Rabbi Manfred Swarsensky, Beth El Temple; Rev. Bruce Wrightsman, Bethel Lutheran, Mr. and Mrs. Dick Fensky; coordinated by Jim Sykes, University YMCA;

• **CONTEMPORARY THEOLOGY**—discussions of Jacques Maritain, Nicholas Berdyaev, Martin Buber and Paul Tillich to be led by Connie Parvey, Lutheran Center; and Rev. Ken Friou, United Campus Christian Fellowship;

• **LIVING RELIGIONS OF THE WORLD**—lectures and discussion of Hinduism, Buddhism, Zoroastrianism, Judaism, Christianity, Islam, Baha'i and Primitive African Religions to be taught by University Faculty and coordinated by Rev. Bob Sanks, Wesley Foundation;

• **AN INTRODUCTION TO THE PSYCHOLOGY OF RELIGION**—to be taught by Don Bossart, Wesley Foundation

• **JUDAISM AND CHRISTIANITY: CURRENT ISSUES AND HISTORICAL PERSPECTIVE**—to be taught by Rabbi Richard Winograd, Hillel Foundation with Rev. Ed Beers, United Campus Christian Fellowship; and Rev. Walter Michel, Lutheran Center.

These courses are open to all students and other members of the University community. The registration fee for each course is \$1. For further information, call the Coordinator of Student Religious Activities, 262-2421.

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Gold, Lewis To Lecture Here

Lectures by Herbert Gold and Oscar Lewis, the 14th annual Creative Writing Competition, "Playwrights '65," a science-writers lecture series and a distinguished faculty lecture series are all included on the busy second semester calendar of the Union's Literary committee.

THE COMMITTEE, headed by Margie Mercer, will open the semester on Thursday, Feb. 18, with a free lecture by Herbert Gold. Acclaimed as one of the outstanding new contemporary authors, Gold has written both novels and short stories and also has taught at Cornell, the State University of Iowa, Brandeis University, Wayne University, and last summer was a visiting professor at Harvard.

"Salt," "The Man Who Was Not With It," "Therefore Be Bold" and "Prospect Before Us" are among the author's published novels. He is also the author of a collection of essays, "The Age of Happy Problems," and more than forty short stories, fourteen of which appeared in "Love and Like."

Recipient of a number of awards including a Guggenheim, an O. Henry prize, and a Ford Foundation Theatre Fellowship, Gold will lecture at 8 p.m. in the Union's Great Hall. He will discuss "An Elephant in the Valley, A Rabbit on the Mountain: Does Fiction Tell the Truth?"

"**CULTURE of Poverty**" will be the topic for the March 17 lecture by Oscar Lewis, University of Illinois anthropologist and bestselling author. The writer is well known for his "Children of Sanchez," a documentary based on his study of life in Mexico, and "Pedro Martinez," a fictional work, and also for a great number of articles describing the life of the Mexican people.

The free lecture, planned as part of the Union's "Mexican Focus" series, will be presented at 8 p.m. in the Union Theater.

The direct encouragement of student creative writing is also among the projects of the Literary committee and is carried out each year in the committee's Creative Writing Competition, sponsored in co-operation with the University's Department of English.

THE COMPETITION, which

last year saw 16 students sharing some \$750 in awards, is open to all students regularly enrolled and working for degrees at the University during the 1964-65 academic year. This year, entries may be submitted to Room 506 in the Union any weekday between Feb. 2 and 8. No entries will be accepted after 5 p.m. on Feb. 8.

Each entrant may submit up to five entries with no more than three entries in either the poetry or prose class. The poetry may include lyric, narrative or dramatic verse, while the prose category is open to fiction of all kinds, essays, short stories, biographies and dramas. Three copies of each manuscript must be submitted.

More details are available in the Competition Rules Brochures, available in the Union Library, the Department of English office and the undergraduate library in the Memorial Library.

A PRELIMINARY evaluation of the manuscripts will be done by a screening panel. Three judges, including one faculty member from and selected by the University's department of English will read the remaining entries independently and then meet for final selection of winning works.

Winners of the Creative Writing Competition will be announced at an April 4 program, also featuring a lecture by outstand-

ing educator, critic and writer Stanley Edgar Hyman. Hyman is presently working at Bennington College in Vermont. The awards program will be held at 8 p.m. in the Union's Great Hall.

Following her husband's appearance on Sunday, Mrs. Hyman, better known as best-selling author Shirley Jackson, will lecture at 4:30 p.m. Monday, April 5. She has written short stories, fiction and "miscellaneous prose" and her books include such novels as "Sundial," "The Bird's Nest," "The Haunting of Hill House," "We Have Always Lived in the Castle," and a nonfiction bestseller, "Life Among the Savages."

THE LITERARY committee's spring plans also include the "Playwrights '65" series. Patterned after the popular "Poets '63" and "Novelists '64," the series will include programs by five or six playwrights reading from and discussing their own works. The series, presented in co-operation with the University Department of Speech through a grant from the H.L. Smith Fund, will offer students an opportunity for more insight into the working mind of the playwright and for a comparison of styles and trends in today's dramatic art.

Also on the spring agenda are a distinguished faculty lecture series with appearances by such campus notables as Miss Helen White and Miss Madeline Doran, and a science-writers lecture series. The latter will open at 4:30 p.m. Feb. 9, in the Union's Old Madison Room with a discussion of "Problems of Scientific Writing" by Dr. Aaron Ihde. All series programs are free.

YMCA Will Offer Another Film Slate

The University YMCA will present a series of contemporary, experimental and art films during the second semester. The series is \$2.00 and the programs will be on Wednesday nights.

The series will have six programs which will include from one to six movies per program. The movies last from one and a half to two hours.

THE PROGRAMS and days are: Feb. 24, "Fires on the Plain" and "Breath Death"; March 3, "Cleo From 5 to 7" and "Blonde Cobra"; March 10, "Paris Belongs to Us"; March 17, "The Bandits of Orgosola" and "Scorpio Rising"; March 24, "The Bailiff"; April 7, "Georg," "Mass," "A Movie," "Portrait of the Lady in the Yellow Hat,"

'You Say Your Mother Left You by Yourself'

Hey, new students! Lost, confused, wondering what to do now? Here's a schedule to help you through these first troublesome days.

• WEDNESDAY, JAN. 27:

1 p.m.—Testing program for new students (very important). Required of all new freshmen and those new transfer students entering the College of Letters and Science, Commerce, Agriculture, Home Economics, Nursing and Pharmacy. Place: 272 Bascom Hall.

8 p.m.—Special New Student Movies: "Wisconsin Is an Idea" and "The L and S General Course Degree Requirements." Place: Twelfth Night Room, in the games section of the Union.

• THURSDAY, JAN. 28:

9 a.m.—New Foreign Student Meeting. Report to the Reception Room in the Union.

9 a.m.—Group Guide Meetings. New Freshmen Report to classrooms in Social Science Building as assigned on activities cards received in Room 272 Bascom Hall or if no room has been assigned, report directly to Rooms 264 or 268 Social Science building.

10:30 a.m.—Convocation and Coffee Hour. Old Madison Room in the Union.

1:30 p.m.—Memorial Library Orientation. Auditorium, Wisconsin Center.

2 p.m.—Tours of the Union. Meet in the Play Circle lobby.

3:30 p.m.—Skating Party. Elm Drive skating rink and Elm Drive "B" basement.

6 p.m.—Union Films for Registration. Union Play Circle.

7:30 p.m.—Faculty Firesides. For all new students at homes of faculty members. Meet in the Plaza room of the Union for transportation.

• FRIDAY, JAN. 29:

1 p.m.—Transfer Student Guide Meetings. Report to the Top Flight Room in the Union. This is open to all new transfer students.

9 p.m.—Union Mixer. "Badger Stampede" with live entertainment (the Marauders) in Tripp Commons, Union, 75 cents per person.

• SATURDAY, JAN. 30:

9 p.m.—"Wintry Welcome" dance with live music, Tripp Commons, Union. Admission free, date or dateless.

• SUNDAY, JAN. 31:

3 p.m.—Sunday Music Hour. University concert band in the Union Theater. Admission is free.

• MONDAY, FEB. 1:

8 p.m.—Sorority Rush Convocation. Great Hall, Union.

• WEDNESDAY, FEB. 3:

7 p.m.—Fraternity Rush Convocation. Union Theater.

• SATURDAY, FEB. 6:

9 p.m.—Last new student mixer. "Badger Round-Up" with live rock and roll music. Tripp Commons, Union. Admission is 75 cents. Date or dateless.

'U' Regents Sell Land to Madison

Sale of approximately 41.6 acres of land at Rosa Rd. and Mineral Point Rd. to the city of Madison for use as a park was approved recently by the University Board of Regents.

The land was sold to the city for \$175,650 is on condition that all of the land be used as a park. If any portion of the land is used for other purposes without approval of the regents, title to the entire 41.6 acres will revert to the University.

The sale is still subject to approval by the State Building Commission.




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Madison Bachelor Gives His Cook Book Collection to 'U'

"We may live without friends, we may live without books; But civilized man cannot live without cooks."

So wrote Owen Meredith, first Earl of Lytton and 19th century English rhymster. But a highly civilized Madisonian has found the need for all three insistent and from these needs has shaped a lifetime hobby.

THE GREAT SUCCESS of that pursuit was much in evidence this month as the University sorted and shelved an exceptional gift of 2,615 cook books from Mortimer Levitan.

Louis Kaplan, director of University Libraries, had this to say about the Levitan Collection: "With this gift, Wisconsin now possesses one of the 10 largest cook book collections in the U.S. Its importance to the School of Home Economics and to historians of culture will soon be felt."

The dignified, always a bit formal, bachelor donor has a simple explanation for the way his gourmet-and-collector roles began. "I liked to eat and I liked to cook, so in 1925 I bought a few books to tell me how to do things."

THERE ARE books on English, French, German, Scandinavian, Italian, Swiss and Oriental cooking, and on Mexican and South American. There are at least 20 volumes on Jewish foods.

Books devoted to famous re-

cipes out of famous restaurants—Hollywood's Brown Derby, San Francisco's St. Francis Hotel, the eastern Longchamps chain, for American examples—are abundant. For almost every large classification within human foods, there is at least one book and often many on the ways to good eating: on meats, fish and game; on soups, salads, vegetables and desserts; on eggs, cheeses, mushrooms, and honeys.

Cooking otherwise classified has also brought within the Levitan gift volumes on frozen, canned and pickled foods, on outdoor cookery, cruise cooking, the summer kitchen, the picnic and the barbecue. Books on cooking for

one, for two, and for a multitude; on short cut meals.

THERE IS something for the beginner called "The Sweet Sixteen Cook Book" and there are gems from old artists of the kitchen: "The Best of Boulestan," for instance, or "The Epicurean," written by Charles Ranhofer, chef at the famed early 20th century New York dining place, Delmonico's.

Friends and relatives will tell you that the discriminating Levitan has always placed much emphasis on good seasoning in foods. This interest is reflected in the book collection and in his apartment at Midvale Boulevard where kitchen shelves are filled with herbs and spices. While Madison's number one gourmet maintained a private office in the Levitan Building at 15 W. Main Street, a small kitchen there could also always supply the appropriate seasonings for choice and even exotic foods—caviar, perhaps, yellow tomato juice, or even quail eggs.

Grad Club Begins Year's Socializing

The Grad Club, of which every University graduate student is a member, will begin second semester activities with its Sunday Social this week.

This weekly get-together from 4:30 to 6:00 Sunday afternoon in the Reception Room of the Union provides an opportunity for graduate students and faculty mem-

bers to meet in an informal setting. Some weeks the social hour also includes a listening session or a special program in keeping with the season.

EVENTS planned for the spring include a Valentine Dance in Great Hall 9-12 p.m. on February 12 which will feature an orchestra. On March 26 they will have a square dance from 9 to 12 p.m. in Great Hall, and on April 9 they will sponsor a free cabaret dance in Tripp Commons which will feature records, a theme and entertainment—date or dateless.

'U'-YMCA To Present Apu Trilogy

The University YMCA is planning a special series of Indian films that will be shown at the YMCA during the first three weeks in February. The noted Apu Trilogy of films produced and directed by India's renowned Satyajit Ray will be shown February 3rd, 10th, and 17th at 7:30 and 9:30 p.m. The cost of the series is \$2.00.

The three films to be shown are: **Pather Panchali** on February 3rd, **Aparajito** on February 10, and **Apur Sansar** on February 17th.

Tickets are available at the YMCA desk, 306 N. Brooks St.

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Chicago Junior College Roiled Over 'Dirty Book'

CHICAGO (CPS)—A furor over the inclusion of Negro author James Baldwin's "Another Country" on a required reading list is raging at Wright Junior College.

THE CONTROVERSY, which has involved the college, the City Council, the Board of Education, and the school's chapter of the American Association of University Professors, began when a parent demanded that the book be removed from the compulsory reading list on the grounds that it was "filthy and morally offensive."

The parent, Raymond A. Snyder, whose daughter Marline, 26, is enrolled in a night school lit-

erature class at Wright, wrote to Oscar Shabat, dean of the College asking that the book be removed. Shabat refused.

Shortly afterwards, the issue was raised in the Chicago City Council, when Alderman John Hoellen submitted a resolution calling for an investigation of why the book was required reading at the college.

THE RESOLUTION, along a counter-proposal calling for reaffirmation of the "precious American right" of freedom of expression, teaching and learning, was sent to committee, but a few days later the council passed a resolution suggesting "Another

Country" be taken off the required list. It took some pains, however, to explain its action was only "advisory."

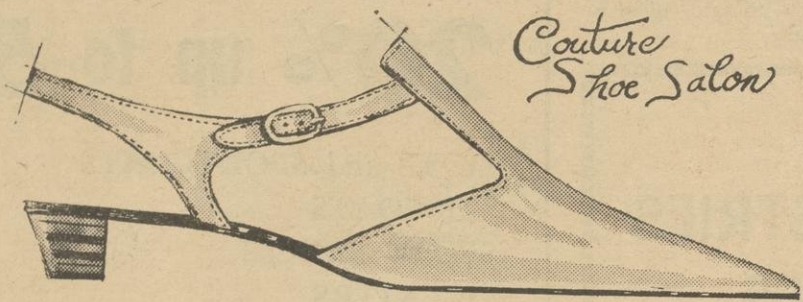
Resolutions were also passed by the Illinois Education Association, which represents some 67,000 teachers, and the Wright chapter of the AAUP. Both affirmed the right of the school to require the book.

The AAUP resolution said that "any external interference with the obligations and responsibilities of the faculty to select instructional material" constitutes "a deplorable violation of the principles of academic freedom." The incident was also discussed

Ballet Folklorico de Mexico To Visit 'U' in March



FIESTA!—The color and gaiety of a Mexican fiesta will be transported to the Union Theater stage March 16 with the arrival of the Ballet Folklorico de Mexico. The 75-member Mexican national dance company, composed of gifted dancers assembled from all parts of Mexico, performs modern as well as traditional numbers. The program will be sponsored by the Union Theater Committee.



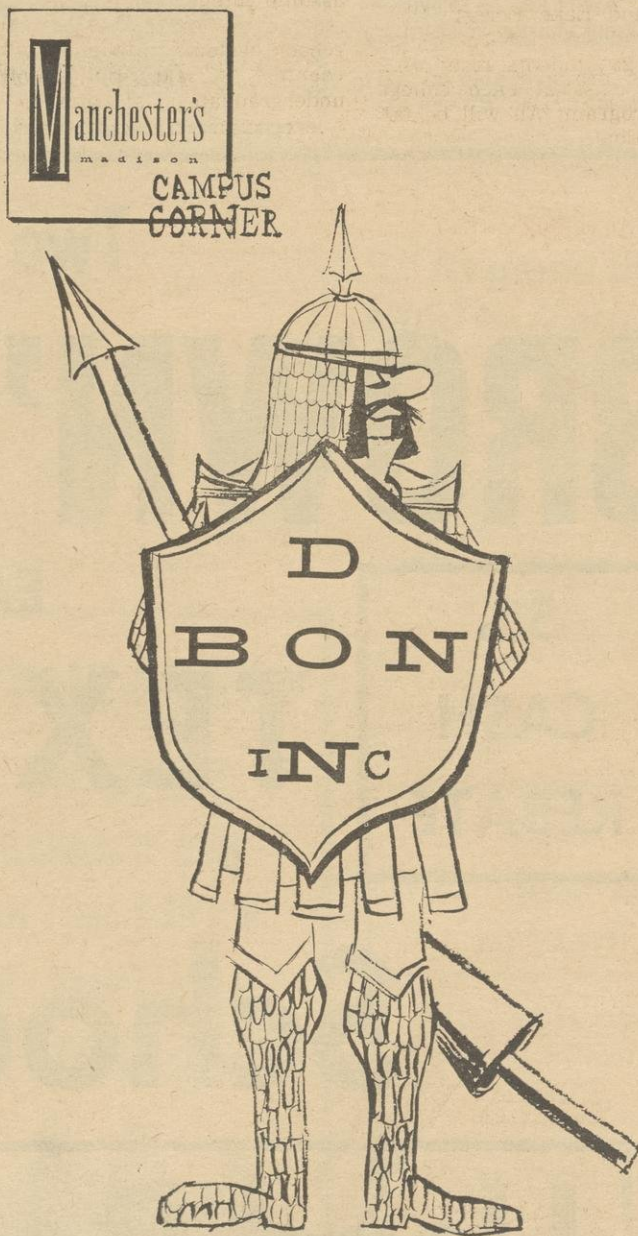
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Global Folk Festival Is Offered in April

The Union's International Club will sponsor an International Folk Festival week between April 30 to May 8 as a climax to their schedule of second semester programs.

THE INTERNATIONAL Week will start on April 30 with a special Folk Festival Variety show which will include music of all kinds, dancing, skits, and entertainment from around the world. Ninety-seven countries are represented on campus by international students and a wide variety of cultures will be included in the show.

On May 8 a show featuring displays of crafts from various countries will be held. During the week many Union committees will sponsor special programs with an international theme, as will the many organizations of foreign students on the campus. Plans for the week include a speaker's bureau which will send foreign students to speak at various groups around the city, an international parade of students, and letters which will be sent to many foreign ambassadors, senators, and other government officials. Vicki McClausland is general chairman of the event.

Many other programs are being

planned by International Club and Peter Fernandes, president of the group. Regular club events are International Dancetime held every Friday night from 9 p.m. to midnight and the Friendship Hour held every Sunday starting at 8 p.m. Both programs are held in the Union and locations are listed on "Today in the Union."

AN INTERNATIONAL Dinner will be held in February, and in March the club will participate with other Union groups in "Mexican Focus." On March 19 they will sponsor a Mexican Fiesta, and on March 21 they will hold a special Mexican dinner.

Before the programs concerning Mexico occur, a German atmosphere will prevail for club members as they sponsor a Polka Party on March 12.

Other events planned for the spring include a three-day trip to Gary, Chicago, and Kenosha for a sampling of industry in the Midwest. Also planned for this semester is a soccer tournament.

International Club serves as a meeting place for both international and American students and functions to promote international friendship and understanding. Membership is open to all students.

75 Freshmen Get Degrees Without Ever Going to Class

CPS-CUP — The possibility of completing an entire undergraduate career—from registration to bachelor's degree—without ever attending classes will be offered 75 U.S. college freshmen next September.

THE EXPERIMENT — underwritten by a \$325,000 grant from the Ford Foundation—will be launched at three liberal arts colleges: Allegheny, (Pa.), Colorado College, and Lake Forest (Ill.)

A national selection committee will pick 25 students from the freshman class at each college for the program. All will be talented students with accelerated high school preparation.

The chosen undergraduates will then pursue their first degrees through faculty-guided independent study, free of usually required courses, class attendance, grades and credits.

EACH STUDENT will have, however, a faculty advisor in the role of preceptor, critic, and guide. Each will also have special access to visiting scholars, lecturers, and artists.

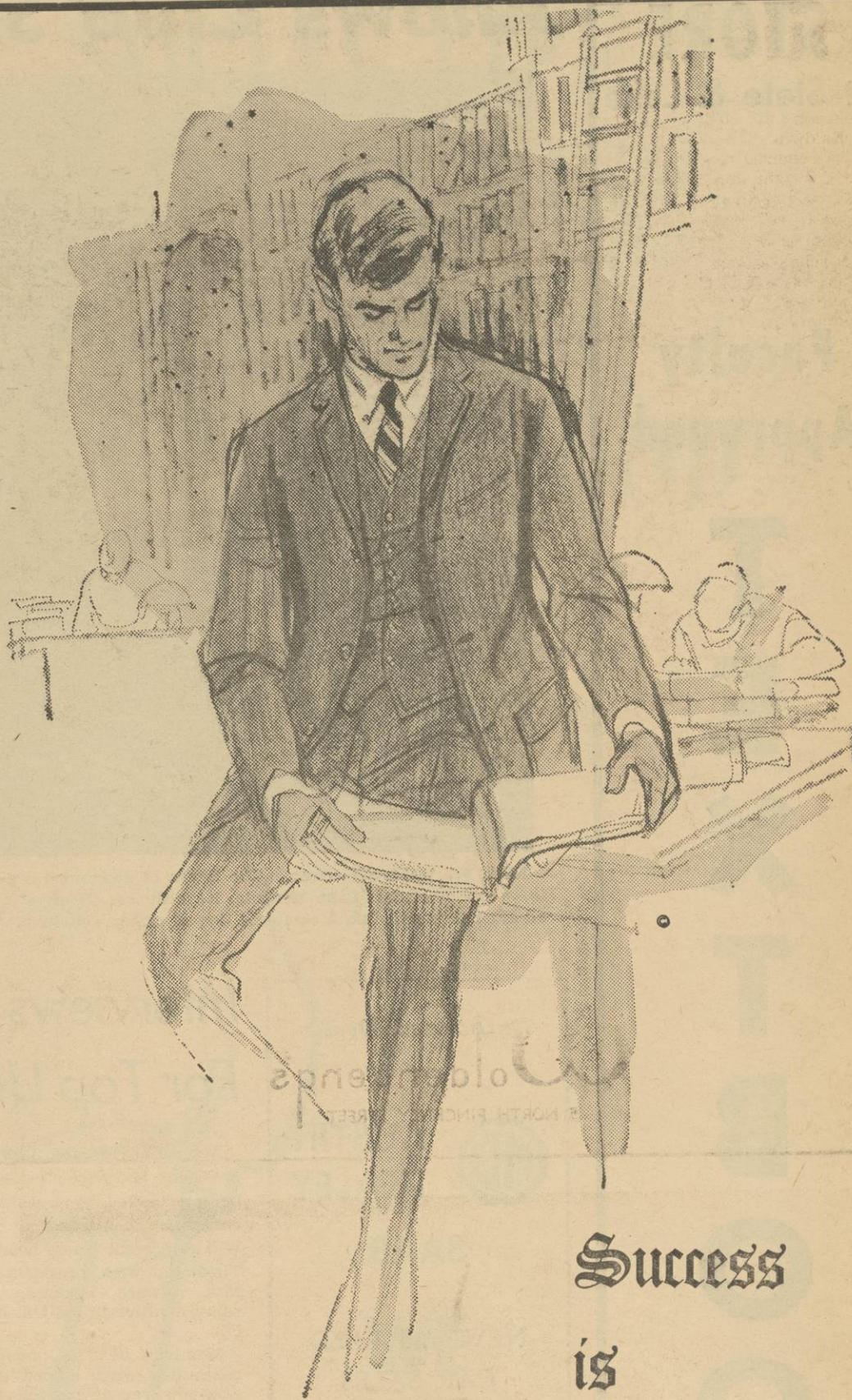
The unique departure is intended to allow academic freedom of movement for able undergraduates comparable to that permitted talented students in U.S. secondary schools, a foundation vice-president, Clarence H. Fause, explained.

"Secondary school programs that permit talented students to advance at their own pace and assume intellectual initiative are now part and parcel of better school systems throughout the country," he said. "But, too often undergraduates at universities are prevented from making the most of their talents by the rigidities of traditional curricula and course requirements."

AT THE END of the second year, the 75 students will be examined by committees of outside educators on their basic liberal education at that stage. Similar committees will examine them on their major fields at the end of four years.

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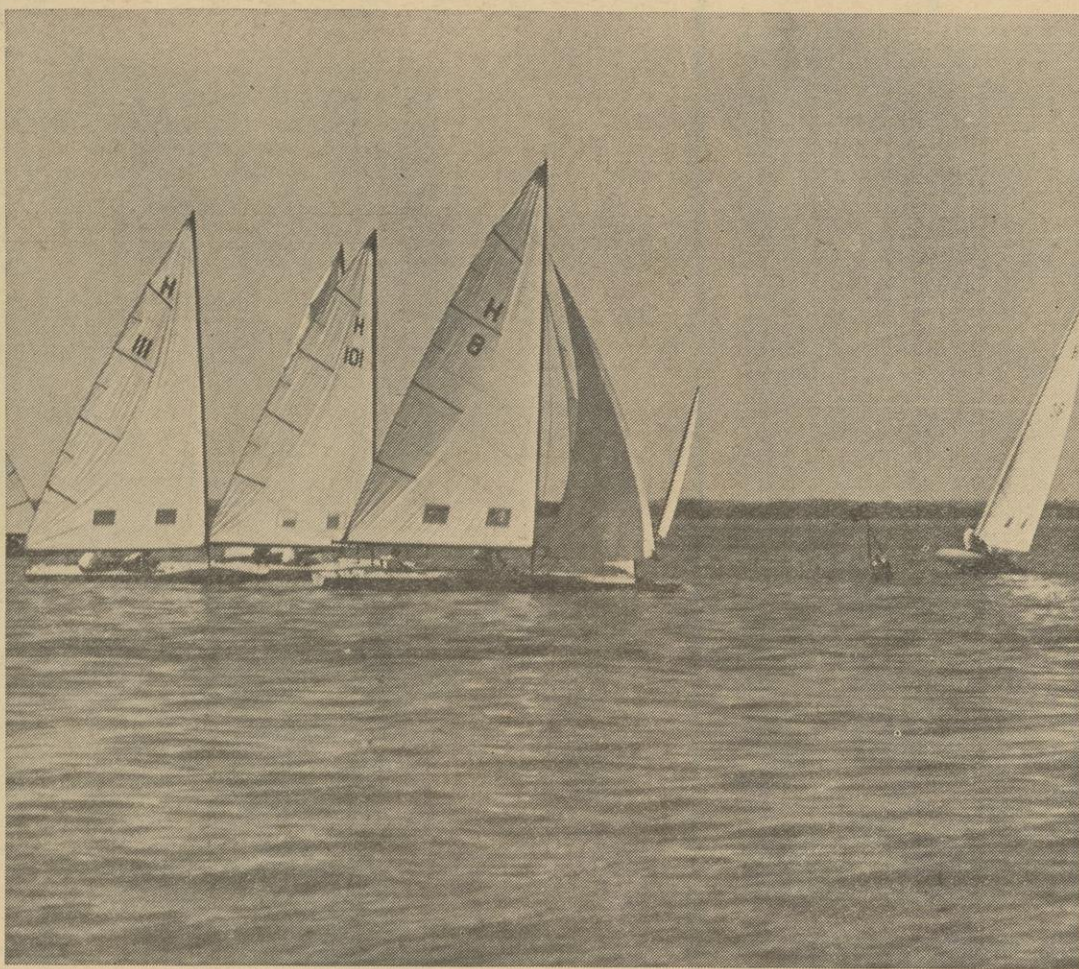
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Hoofer's Physical Enlargement Allows Club Services Expansion



SAILING, SAILING—Deep in the freeze of January it is hard to even imagine days warm enough to go sailing around Lake Mendota. Nevertheless, Hoofers is making plans for that far-off day; in addition they schedule a complete line of winter activities. —Cardinal Photo

Expanded facilities will add to the enjoyment of spring for the members of the Hoofers, the Union's outing club. The enlarged space is included in the remodeling project of the Union's under-theater area.

The expansion will provide an additional 4000 sq. feet of space for the Hoofers Clubs. Most of this is for on-land activities and equipment storage of the Sailing Club.

ALREADY completed is the boat repair area under the theater. From this, a marine railway will go through the tunnel to the waterfront, allowing the Club access to boat storage and repair facilities. Members already are hard at work preparing for the ice to thaw and the sailing season to begin.

Construction scheduled to begin this spring will include a canoe shelter and the Hoofers will join with the Union in manning a waterfront store and a type of "union boathouse" according to Gib Peters, the Union's outing director. When completed, the expansion also will provide additional space for the Club's growing waterfront control and safety program.

Only when the slopes are bare are the active members of the Hoofers Ski Club to be found in the new quarters. With the purchase of new equipment for rental to all students, the Ski Club has helped to increase the skiing interest on campus—and certainly among the 375 student enthusiasts who participated in the Hoofers mid-semester ski trip.

A FULL SCHEDULE of one-day and weekend trips is planned for the second semester. Instructions are included in the \$3 membership dues and beginners are welcome to join the fun. Sign-ups are usually held the Tuesday or Wednesday before the trip; more details are available at the Hoofers Headquarters.

Trips scheduled to date include weekend trips on Feb. 5, Feb. 26, March 26, and April 2, one-day trips on Feb. 14 and March 6, and for a grand finale, the April 16 week-long western trip, tentatively scheduled for Breckenridge and Vail near Aspen, Colorado.

The Hoofers Hunt Club, organized last fall, will continue a program of both rifle and bow and arrow hunting during the spring term. Plans include target shooting programs and bow-and arrow shooting for carp.

Interviews Begin Feb. 8 For Top Union Officers

Applicants for the 1965 Union president and vice-president will be interviewed by a nominating committee consisting of Joan Wilkie, present Union head; Tom Tinkham, WSA president; and Mrs. Edward Rikkers, alumni representative to the Union Council.

Members of the nominating committee were named at the Council's recent meeting. Applications for the positions will be available beginning February 8 with a February 22 deadline for submitting the briefs. The committee will interview candidates between February 23 and March 2 and will present their recommendation to the Union Council.

recommendation was made as a possible solution for handling overflow lunch crowds in the Rathskeller and will be studied by the Council at the March 3 meeting.

THE COUNCIL meeting also approved the use of the Union's 12th by the Union on a trial basis.

Council members also discussed plans for the Union's Tripp Commons dining room next year when Southeast dorm dining facilities are completed. During the past two years Tripp Commons has offered contract dining service for residents of Sellery and Witte Halls under an arrangement with Residence Halls.

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Colorado 'U' Will Teach Prospectives for Peace

BOULDER, Colo. (CPS)—The University of Colorado will offer a course in peace and techniques of achieving it during the coming semester.

THE COURSE, entitled Problems and Prospects for Peace, will explore the sources of human conflict from economic, historical, philosophic, political, psychological, sociological, and technological points of view, and will examine some of the problems which must be solved if further world wars are to be prevented.

Since the study will cover so many fields, it will be taught as an interdisciplinary course and will draw its staff from several departments within the university.

The course, for which two hours of academic credit are being given, will meet once a week and will be divided into two sections, one hour of lecture and one of discussion.

THE LATTER part of it will consider what might be the nature of a warless world, the opportunities which would be opened by freedom from the burdens of providing for military defense,

and the problems of assuring maximum individual freedom.

The idea for the course was originated by a group of professors who contended that the problems of world peace should receive the same sort of disciplined study normally accorded to other problems facing humanity—including disease and war.

Organized attempts to study peace have been undertaken on a few other campuses, but rarely have they been accompanied by courses offered on the undergraduate level.

LIFEGUARDS WANTED

The Madison Holiday Inn has offered the use of its pool to the Mendota State Hospital this year again. This year the Department has had to curtail this therapeutic activity due to the lack of volunteer life guards. Any currently certified senior life guard or water safety instructor wishing to donate their time for this very worthwhile activity please contact Ed Karpowicz, Director of Recreational Therapy at the Mendota State Hospital.

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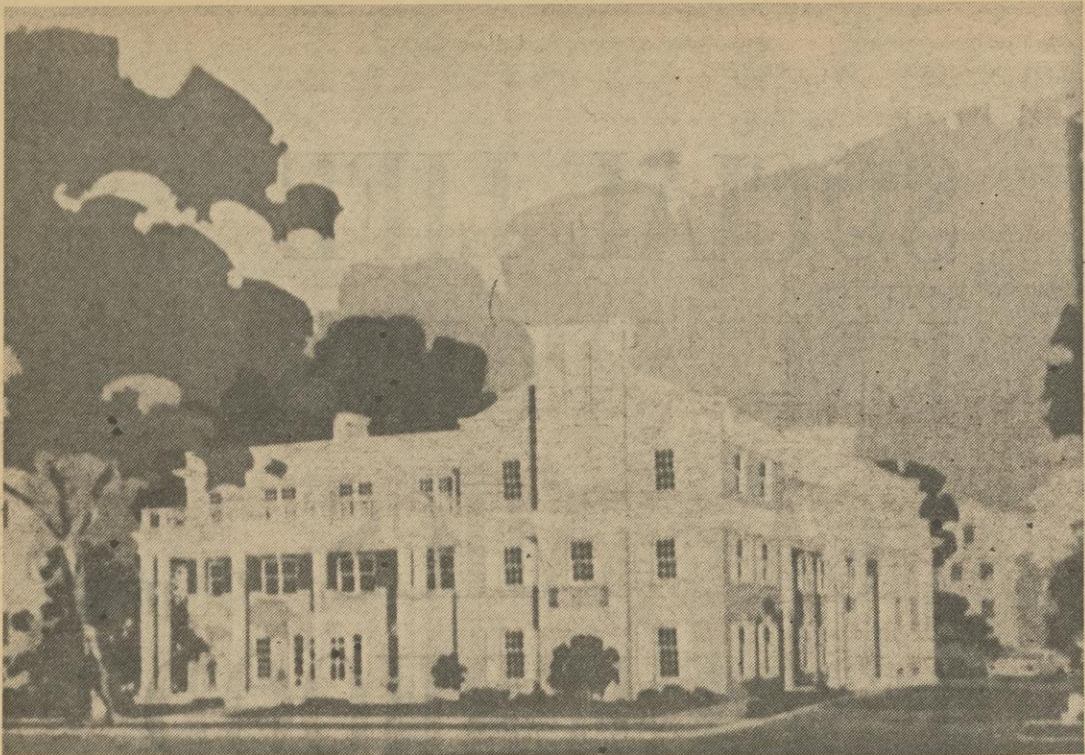
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NEW — Shown above is an artist's conception of the \$240,000 addition presently being constructed as part of Alpha Chi Omega's expansion program. The sorority indicated that expansion coincides with a general remodeling of the present structure, located at 152 Langdon St. The A Chi O's also said that the new house will be the home for some 60 coeds. (See story at right for more details.)

Alpha Chi Omega Charts Addition

Alpha Chi Omega recently began construction of a \$240,000 addition which will approximately double the size of the present structure. The addition will add 10,680 square feet of living area. The new entrance porch with pillars will be on Langdon Street.

A NEW LIVING room, 40 feet by 28 feet, and a new lounge, 32 feet by 14 feet will be located on the first floor. Both rooms have large windows and French doors which lead out to a raised patio with a fountain at the rear of the addition.

The first floor of the present building will be remodeled into a new housemother's apartment and an enlarged T-shaped dining room which will seat between 90 and 100.

The second and third floors will

provide rooms for a total of 60 girls—28 girls in the new section and 32 in the old. Large storage rooms and laundry facilities will be provided on each floor.

THE BASEMENT will house the new chapter room which will also double as a study hall. The present kitchen in the basement will be remodeled and enlarged.

The decor of the entire house will be colonial or traditional in feeling. The house will be completely carpeted from the basement to the third floor.

A large paved parking area for 12 cars will be located at the rear of the house.

Louis A. Siberz, A.I.A. of Madison is the architect. Harry Kreuger, N.S.I.D., of Madison is the interior decorator. Stenjem Building Co. is the general contractor.

Chemists Isolate Three Drugs in Cancer Fight

Pharmaceutical chemists at the University have isolated three active compounds in their search for drugs that inhibit the growth of cancer.

THE COMPOUNDS have been extracted from plants that have been used for centuries in folk medicine systems, Prof. S. Morris Kupchan said. The active agents in both are similar to compounds previously known for their digitalis-like action on heart muscle.

The results stem from a major research program at the University including the acquisition of plants from all over the world

and the extraction, isolation and characterization of their tumor-inhibitory principles.

From the several thousand plants that have been screened so far, over 100 active plants extracts and several tumor inhibitors have been isolated.

ONE OF THE active compounds, calotropin, was isolated from *Asclepias curassavica*, a plant which has been used in the treatment of cancers, tumors and warts for many years in Costa Rica, Mexico, and India. In Mexico the plant, a red milkweed, is known as "cancerillo."

The Cancer Chemotherapy National Service Center of the National Cancer Institute, which did the testing, reported the plant extract "showed significant and reproducible inhibitory activity against human carcinoma of the nasopharynx cultivated in tissue culture." It inhibited tumor growth.

The research group fractionated the extract to isolate the principle responsible for the tumor-inhibitory activity. Eventually calotropin, a single crystalline compound, was produced.

"IF THE compound shows reproducible activity in the test animals," Kupchan said, "then evaluation and clinical trials may be undertaken."

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Doctors Diagnose by Computer

THE DAILY CARDINAL—11
Wednesday, Jan. 27, 1965

Men of medicine may be able to diagnose patients by "long-distance," using a type of computer system tested at the University.

COMPLETION of the first two-way long-distance feedback experiment dealing with medical research and diagnosis on respiration has been announced by Prof. Karl U. Smith, director of the University's Behavioral Cybernetics Laboratory, and Dr. John Henry of the Hines, Ill., Memorial Hospital.

In their experiments, two-way data-phone links were established between a closed-loop computer system on the University campus and the respiratory hospital facility outside of Chicago. Purpose of the testing was to check new cybernetic methods in remote control of the feedback effects of diseased organic functions.

"The patients used a mouth-piece breathing device to generate visual indications of breath pressure on an oscilloscope. These breath movements were changed to an electrical wave form by means of a special respiratory device. Then the electrical signals of the movements were sent to Madison on one line of the data-phone system."

AT THE MADISON end, the signals were converted to digital form and programmed by the computer for analysis. In turn, these were fed back on the line to Hines and displayed to the patients and doctors.

"The main outcome of the studies has been to show how the doctor, working at some remote point in the hospital or in his office, can receive signals pertaining to the patient's body functions, and then have a means to analyze the situation," Smith explained.

The medical diagnosis methods employed are of a new type whereby the central computer is used as a laboratory instrument to segregate and thus measure the control functions and variables of physiological systems

SCOOP!

Philip Wylie's novel, "The Gladiator," was a model for Superman.

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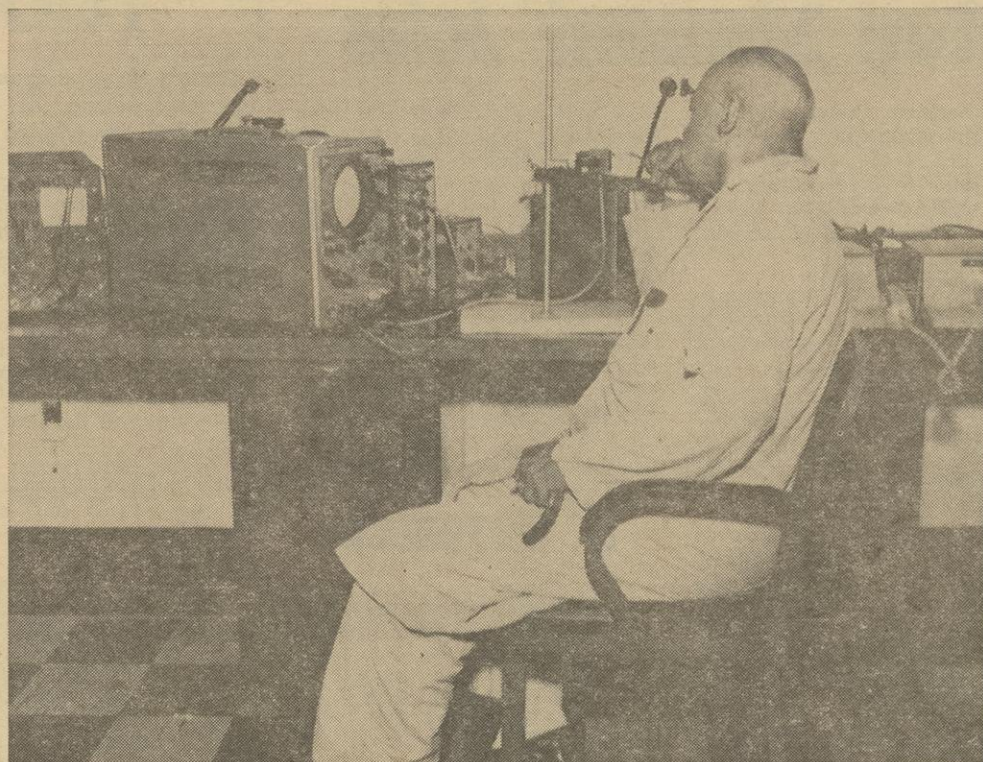
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COMPUTER DIAGNOSIS—A patient at Hines, Ill., Memorial Hospital, afflicted with emphysema, participated in a new diagnostic procedure tested successfully at the University Behavioral Cybernetics Laboratory. He used a mouth respirator to control his breathing function, and the signals made on the machine were transmitted from the hospital to Madison, where a computer was employed to record experimental variations in the signal, allowing by long-distance diagnosis by the computer.

which may be affected by disease, injury, and by faulty development.

"**RESULTS** of this experiment," Dr. Smith pointed out, "have given added proof that delayed feedback is a critical factor in regulating learning and response in the normal subject and in patients with respiratory disorders. Some evidence was gained . . . that may aid in developing new diagnostic procedures for certain organic body functions."

The studies further illustrate that much needs to be done to understand disease as a modification of normal biological and physiological control of organ systems. It also shows the comprehensive potential of computers as laboratory installations for varied research.

Smith said future plans call for similar data-phone connections between Wisconsin and the Veterans Administration Hospital in Hanover, N.H., and between the University laboratory and the neurological and rehabilitation clinic of University Hospitals to probe the use of these tests as they relate to epilepsy.

Plans also have been made to conduct exploratory cross-continental studies by means of Telstar, in cooperation with the Bell Telephone Co., and to investigate studies in government institutions and industries to learn the effects of work patterns on aging and health.

Theatre Collection of Columnist Wilson Accepted By Regents

The Earl Wilson Theatre Collection accepted by the University regents Friday.

APPRAISED at \$3,500, the well-known columnist's collection will be housed in the manuscript division of the State Historical Society for research under the direction of the Wisconsin Center for Theatre Research.

Regents also accepted the Mortimer Levitan collection of 2,615 cook books valued at \$13,000, to be shelved in the new library of the College of Agriculture; and 664 issues of 94 different "Little" magazines valued at approximately \$3,220, to be added to the Memorial Library collection, from Marvin Sukov.

David Victor, television writer and producer of the "Dr. Kildare" show, gave television and radio scripts and related materials appraised at \$19,335, to be housed in the manuscript division of the State Historical Society; while Gore Vidal, added to his collection with drafts of the

novel "Julian," screenplays, and other literary materials appraised at \$13,715.

ALAN SCHNEIDER, Broadway director of the original version of Albee's "Who's Afraid of Virginia Woolf?", contributed other literary properties appraised at \$8,300 to be housed in the manuscript division of the Society.

Mr. and Mrs. H. C. Timberlake, gave the proceeds from three lots to finance a graduate fellowship in the School of Commerce; Philip Stevenson, playwright, poet, novelist, and screenwriter, gave drafts of scripts, articles, essays, and correspondence appraised at \$735; Edith A. Downes, gave books and allied material relating to Carl Schurz, and novelist Edna Ferber gave additional rights to papers, manuscripts, records, and correspondence previously donated by her to the Historical Society.

John Jay Skis Through Union Film

Ski photographer John Jay will bring his latest film, "Persian Powder," to the Union Theater for a single showing Feb. 1 under the sponsorship of the Union Film Committee.

THE MOVIE includes the first ski films on 18,000-foot-high slopes of the Persian Alps just outside Iran's capital city, Teheran. Swiss ski expert Fred Iselin, as well as a group of Iranian beginning skiers, are shown in action. Iselin also performs in the Cedars of Lebanon near Beirut and at Kranjska Gora, Yugoslavia, in the film.

In the United States, the film visits ski areas at Taos, N. Mex.; Mt. Snow, Vt.; and Vail and Aspen Highlands, Colo. A 4,100-foot ski descent of the Teton mountains at Jackson Hole, Wyo., also is pictured. Other highlights include the Olympic national races in Winter Park, Colo., and Innsbruck, Austria, and the final race of American skiing star Buddy Werner before his death.

Tickets for the 8 p.m., 90-minute film, which will be personally narrated by Jay, go on sale Thursday (Jan. 16) at the Union box office.

University YMCA Plans Midwinter Retreat Jan. 29-31

The University YMCA and YWCA Midwinter Retreat is scheduled for the weekend of Jan. 29-31 at Madison YWCA Camp Olbrich. The theme of the retreat is "The Meaning of Work: Now and for the future."

The annual mid-winter retreat brings together students who wish to relax in an atmosphere conducive to discussion and outdoor recreation, including skating, campfires, and singing.

The cost of the weekend is \$6. Those interested should register at the Y desk or with the YWCA director.

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Aid Is Special Service's Job Programs Detail Student Jobs

Formed three years ago as the Union's placement and personnel committee, Special Services committee has a wide variety of programs on its calendar for the spring semester.

The committee's first job of the new semester will be that of arranging interviews for persons wishing to work on Union committees during the semester.

Interviews are planned for Tuesday, February 9, from 7 to 9 p.m. and on Wednesday, February 10, from 3:30 to 5:30 p.m. All interviews will be held in the Union Loft. Committees holding interviews include Gallery, Forum,

Special Services, Music, Tournaments, House, Literary and News Bureau. Information on the committees and their respective programs will be available in the Union's committee headquarters, Room 506.

A MAJOR part of the committee's activity will be devoted to programs detailing employment possibilities for students. Programs planned in this area include "Working in Washington," which will give information on summer jobs in the Capital; "Career Coffee Hours," which are meetings with professors to discuss after-college opportunities in specific fields; and "Camp Placement Day," which on Feb. 11 will provide aspiring camp counselors with the opportunity to meet and interview for summer jobs with camp leaders from all parts of the United States.

Again this semester, the Special Services committee mem-

bers, under the direction of Jean Marie Oates, will aid in the Peace Corps recruitment program. Additional information will be provided through the cultural seminars dealing with the way of life in many of the areas served by the Peace Corps.

The committee also will sponsor Mid-Day programs again this semester and a Travel Series highlighting aspects of travel in Europe and Mexico.

'U' Research: See Magazine Section IV

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Behind the Stiff's 'Table Top...'

There's an unusual and intriguing story behind the table top hanging on the wall of the Stifskeller.

THE TABLE top came from a large heavy round oak table. This table, a special one, was found in the front room of Dad Morgan's place, the University students' gathering place from the turn of the century through the 1920's. This favorite student hangout was located on State St. between the Pantorium and the Old Chocolate shop.

Dad had the reputation of making the largest and best milkshakes anywhere in the Midwest. Students were there all the time, between and after classes, to read newspapers, drink malts, play billiards, or just to talk.

Dad's place had a great deal of prestige—especially during the fraternity rushing season. If fraternity men took a rushee to Dad's after a show at the old

Orpheum, it meant that the fraternity was still interested in the rushee. The fraternity was no longer interested in the rushee if he was taken directly home.

EVEN WHEN alumni returned to campus for the football games, they went to Dad's. Everyone knew that if a ticket for a football game was still available, or you had one to sell, Dad's was the place to go.

At Dad's one of the tables in the front room, a large heavy round oak table, was a very special one. All the "W" men sat there and Dad permitted athletes of real distinction to have their names carved on the table top. The oak was so hard that some athletes hired a professional carver to inscribe their names.

Over the years the carvings accumulated until the table top was completely covered. Some names of Wisconsin's football greats and some "All Americans" such as Tubby Keeler, Butts Butler, and Ralph Scott were carved on the table. It was considered an honor to have your name on the table next to famous names such as these.

DAD'S PLACE closed in 1928 when the students started going to the new Union which had just opened. Dad was an early supporter of the Union idea and even made a large contribution to the building fund, for he wanted the students to have an adequate place to get together.

Dad then donated the carved table to the Union because it had become such a famous trophy and a traditional symbol for students. It stayed in the center of the Rathskeller as a feature attraction for many years.

Then problems developed. The table could not be kept clean because of the deeply carved initials in the top, and students began trying to carve their names over the existing ones.

To preserve the table and the carvings, the Union removed the top and mounted it on the wall of the old billiard room, which is now the Stifskeller.

Today the table top has found a place of honor on the Stifskeller wall for all to see and most to be puzzled by. The table has survived many years and many moves and the top serves as an unusual record of student life for more than 40 years.



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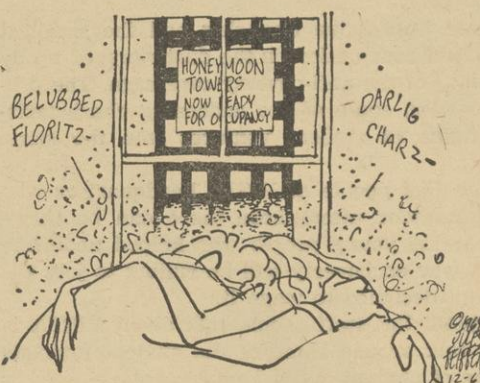
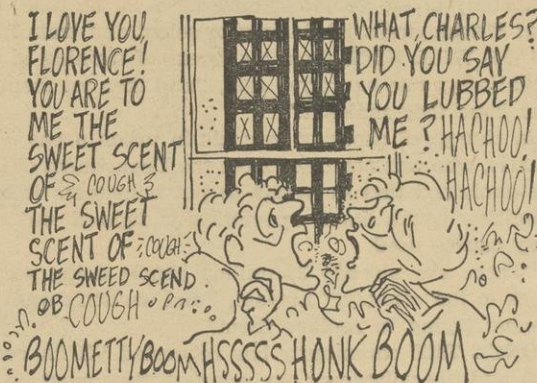
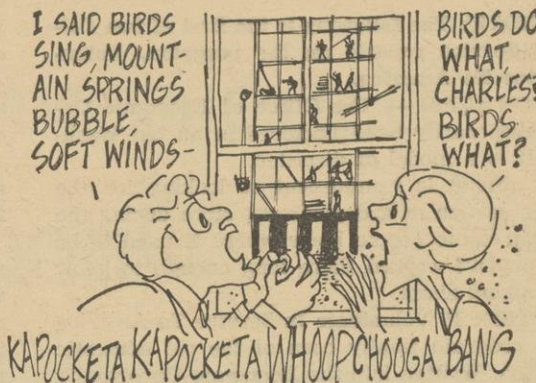
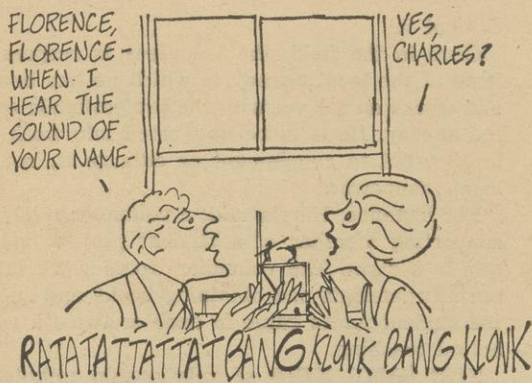
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FEIFFER . . .

by Jules Feiffer



'U' Regents Review 'Roles' Of Two Intended Structures

General concepts of two proposed buildings on the University campus—Social Science Research and Numerical Analysis and Statistics—were reviewed by the Regents recently.

INITIAL planning for the structures was detailed by representatives of the campus planning committee and the department of planning and construction.

The Social Science Research building is planned as completing of the Social Science buildings which opened its doors on Observatory Drive in 1962. The state is expected to provide \$1,153,800 of its \$2,053,800 cost, with the remainder coming from the National Science Foundation.

The facility would house the departments of anthropology, ec-

nomics, and sociology, and the Wisconsin Survey Research Laboratory, and include faculty and graduate offices, laboratories, computer equipment, and conference areas. The eight-story Unit II would be constructed with materials similar to the adjacent brick and precast concrete structure.

CONSTRUCTION of the Social Science Research Unit II is expected to get under way next July, with a completion goal of September, 1966.

Plans call for locating the new Numerical Analysis and Statistics building on the north side of West Dayton street between Orchard and Charter streets.

It would house an anticipated \$5 million in computing equip-

ment, and provide offices, classrooms, research and training space, and administrative areas for the University Computer Center and the departments of computer science and statistics.

The three-story building, expected to be completed by September, 1966, was designed by Madison architects Weiler, Strang, McMullin and Associates.

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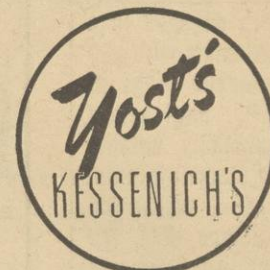
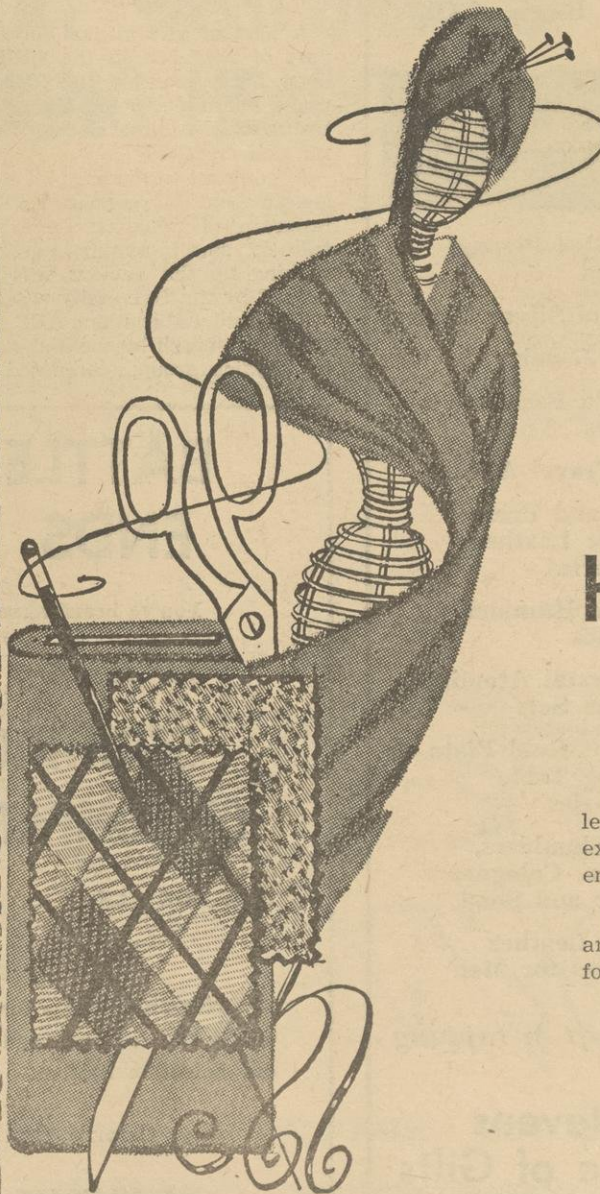
In 1943, a man, from this same Napoli, Italia (not Naples, Italy) opened a restaurant here in Madison. His proud specialty . . . spaghetti a la' Napoli, not Naples . . . his name, Lorenzo, not Lawrence. . . since 1943 his menu has grown to include a wide range of tasty meals, priced for the student, and spaghetti still the real source of his neapolitan pride.

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VISTA: To Relieve Our Poor

EDITOR'S NOTE: The following is the first of two Col-
legiate Press Service reports on the program, **Volun-
teers In Service To America.**

WASHINGTON (CPS) — The Office of Economic Op-
portunity is temporarily headquartered in an old Wash-
ington hotel. It is a model of disorder.

Finding an official is reminiscent of looking for the
luggage repair section of a department store during the
Christmas rush: some people knew where it used to be
and the rest haven't worked there long enough to know
what you're talking about.

NO EXCEPTION IS Volunteers In Service To America
(VISTA), the program finally born of the old domestic
peace corps idea. Written into the Economic Opportunity
Act of 1964 almost as an afterthought, VISTA was en-
gendered by Congress as a step-child to the director of
the war on poverty.

With the least impressive financing and the smallest
staff, VISTA could become lost in the dust whipped up by
the other sections of the anti-poverty campaign. The pro-
gram has, however, some of the endearing characteris-
tics and strengths of student ventures into the same
field.

One can even find people at VISTA headquarters who
hope the half-amateur atmosphere there can be main-
tained and that the young people who helped underline
the need for a war on poverty will be willing to join the
federal program designed to wage it.

AND THE WAY the staff people talk about VISTA is
the way they talk around some of the student tutorials
and the offices of student activist movements:

"This program could be revolutionary in the best way.
There will be opportunities for the volunteer to have an
effect on society that will make the Peace Corps look
like a knitting circle."

"The criteria for judging a project's effectiveness will
be: did the volunteer help the poor?"

"The volunteer will become an advocate of the poor.
As such they may become rather troublesome gadflies
to some of the other federal programs. . . ."

VOLUNTEERS IN SERVICE To America was created
by 300 dry words buried twenty-one paragraphs into Title
VI of the poverty act. In these few words Congress allow-
ed a strictly defined program to aid poverty programs
at the state or local level only and to assist in a few pro-
grams on the Federal level.

In its zeal to avoid misuse or misunderstanding of
VISTA, Congress made sure that the volunteers could be

used only with the consent of the governor of a state and
only when requested by some welfare agency.

Like the Peace Corps volunteer, the VISTA volunteer
will receive only a small living stipend, and will not be
exempted from the draft.

THE VOLUNTEER goes in for one year, half the nor-
mal Peace Corps term, and can join to work in any area
from Indian reservations to mental hospitals.

The volunteer will retain complete control of his as-
signment. After being accepted for training, a volunteer
will be invited to join a project for which he has express-
ed interest, such as an urban tutorial. If the volunteer
prefers not to accept the offer, he may refuse it without
prejudice to his standing.

Those running VISTA look on themselves as training
and logistics specialists. Over and over they stress the
autonomy of the volunteer once he is in the field, noting
that Washington's job is only to select and train him.

"WE WILL GIVE them six weeks of training in actual
situations," one executive said, "and then let them loose
and hope they make it."

In charge of choosing projects in urban areas is John
Harris, who was recruited from the Department of Labor.
He explained that he wants to put volunteers into com-
munities which have specimically figured out where they
can be used.

"There are already 38 million people doing volunteer
work in the country," he said, "and we don't want to go
around trying to replace them."

ONCE THE community has requested VISTA coopera-
tion and the volunteers are selected, they must be train-
ed and encouraged to take a certain role in the com-
munity. Harris says the job is to be "a cultural bridge
between the poor and the rest of the people."

Judy Guskin, a returned Peace Corps volunteer who
heads the VISTA training program, says they are to be
the "liason the poor people have never had with the rest
of the world."

"The volunteer," she says, "is to be a listener—to find
out what the poor think they need—and then to be the
person who shows them how to get what they have com-
ing."

Harris wants the volunteer to be "a catalyst. He may
have to help restructure a situation to make poor people
able to participate in the society."

THEY HOPE VISTA will thus be attractive to people
who are concerned with poverty, but who would not want
to get involved in some monolithic federal project to

combat it.

Once in the field, the volunteer is responsible to the
head of the local agency to which he has been referred,
and works on a level with the professionals employed by
the agency. He is to be integrated into work being done
locally, but to supplement or enlarge it, not to replace
local manpower.

For instance, Harris said, a volunteer might work as a
supporting member of a student project on adult liter-
acy in a slum. The volunteer would work full-time pre-
paring materials and obtaining books and supplies while
the student tutors came in once or twice a week for the
actual teaching.

THE SAME KIND of relationship might exist in a
migrant labor camp or on an Indian reservation with
VISTA working in cooperation with a local project to in-
crease its effectiveness. The volunteer would remain re-
sponsible at the local level in all cases.

What can they do in the cities? "Almost anything,"
says Harris. Listed are day-care nurseries, tutorial pro-
grams, adult literacy classes, and even voter registra-
tion and education.

Volunteer assignments will call for a wide range of in-
terests and skills. Volunteers will work in rural and urban
communities community action programs, in Job Corps
camps, with migrant laborers, on Indian reservations, in
hospitals, schools, mental institutions, alone and in
groups. They will in many cases be trained and then re-
ferred to a local government or private agency for work
on a specific project to combat poverty.

SOME VOLUNTEERS, however, will be assigned di-
rectly by VISTA for work in one of five areas: migrant
labor communities, mental hospitals, the District of Col-
umbia, Indian reservations, and U.S. trust territories.
Other volunteers will be assigned to work with other
areas of the poverty campaign such as the Job Corps.

While VISTA is becoming more and more certain about
what the volunteers should be doing and about where
they will be working, problems remain. The program is
open for anyone over 18 and to married couples who both
can qualify, but recruiting is going slowly.

Staff members are as yet unsure what kind of people
will be attracted to the program and just what will hap-
pen to them when they go to work.

Given the kinds of projects being planned, enormous
political problems could result when a VISTA volunteer,
for instance, launches a frontal assault on the power
structure of a community through a slum community or-
ganization he has developed.

HAIRCUTS

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UNTIL 5:30 P.M.

The authors were engaged in a program of experiments with LSD and other psychedelic drugs at Harvard University, until sensation-
al national publicity, unfairly concentrating on student interest in the drugs, led to suspension of experiments. Since then, the authors have continued their work without academic auspices.

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BY TIMOTHY LEARY, PH.D.
RALPH METZNER, PH.D.
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University Gains Over One Million Dollars

For High Energy Particle Tests, Analysis

A fund of \$1.2 million for support of research in the field of high-energy physics has been made available to the University by the U.S. Atomic Energy Commission (AEC).

A contract providing the research fund for support of the program of research into extremely small atomic particles making up the nucleus was approved by the University regents.

The fund will continue AEC support of research by the high-energy physics group, composed of eight faculty members, more than a dozen post-doctoral scientists, and 30 graduate students.

The program is primarily one of analysis of data obtained from experiments conducted with the extremely powerful atomic accelerators in operation now at other research centers in this country and abroad.

University scientists have taken part in research programs utilizing the "atom-smashing" machines at Argonne National Laboratories and the job now is to analyze data obtained by experimenters and physicists throughout the world.

The University has been a pioneer in the kinds of analytical work that can be conducted at research centers lacking large modern accelerators.

Similar centers devoted to analysis of experimental data obtained with the giant accelerators such as those at Brookhaven, Argonne and on the West Coast are now appearing.

Work at Wisconsin is also being conducted in collaboration with physics research groups at other universities such as Illinois, Purdue, California, Columbia, Northwestern, and two schools in Italy, the Universities of Padua and Bari.

Only through such large-scale processing of the data now becoming available can physicists hope to obtain the necessary information on the nature of many of the recently-discovered sub-atomic particles.

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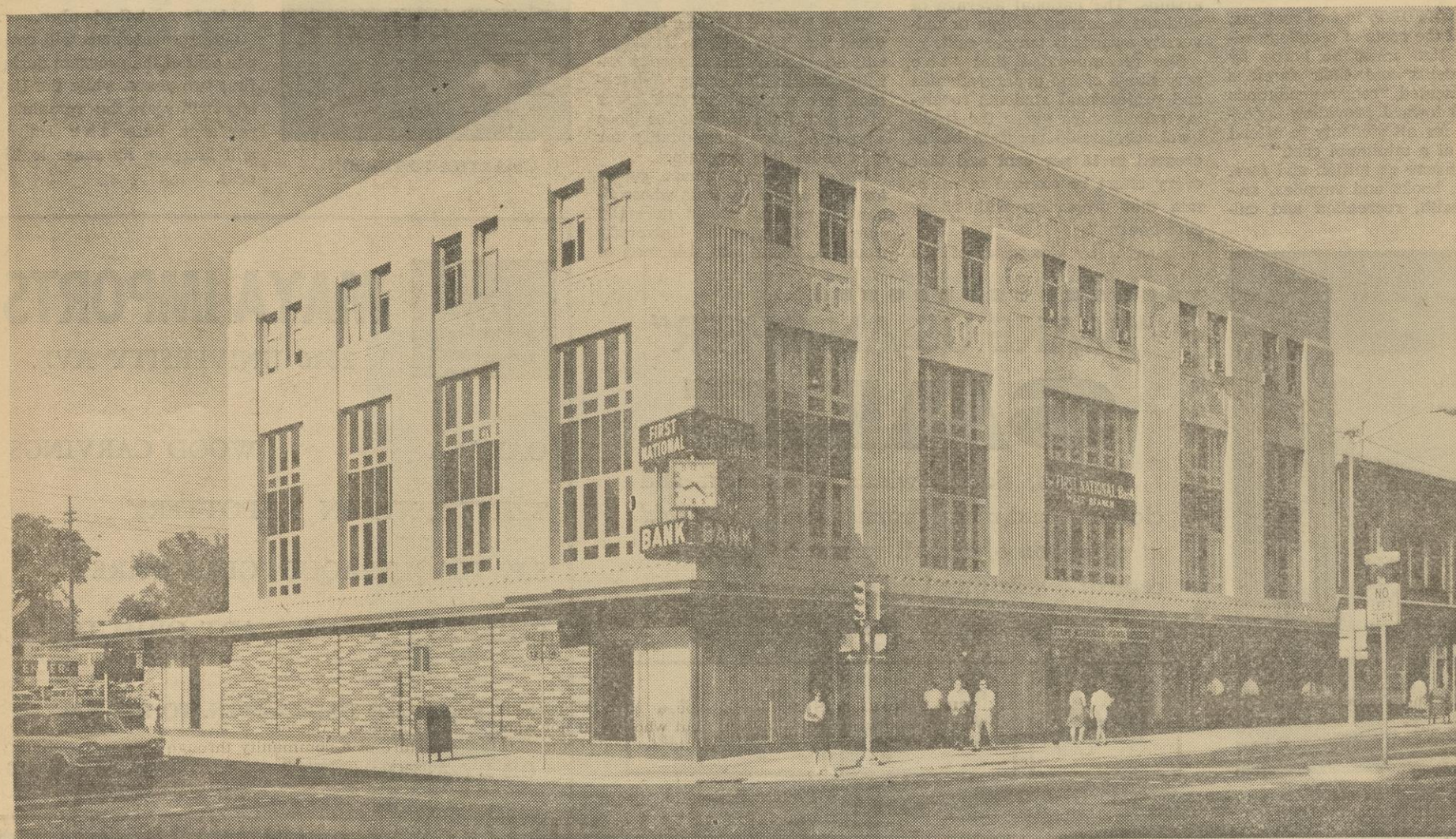
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An 'Educational' Right to Work

By **ALAN RUBIN**
Cardinal Staff Writer

Next semester will see the beginning of a new scholarship program at the University.

This Work-Study program was first outlined in a report to University Pres. Fred H. Harrington by Martha Peterson, Dean for Student Affairs, in March, 1964.

THE REPORT, in two sections, itemized the costs of a college education that must be borne by the students and their families and presented "recommendations directed toward providing opportunities for all students to attend college at a minimum cost."

Such areas as tuition and fees, housing, books and supplies, student health, recreation and cul-

tural programs, and transportation were discussed.

Section II of the report then outlined ways that the University could aid the students who were deprived of an education because of need.

PETERSON pointed out the fact that nine per cent of the undergraduate students at the University receive University scholarships. The national average of students receiving college or university awards is ten per cent.

She recommended that "the percentage of the undergraduates and professional students receiving scholarships under the traditional scholarship program be increased to 15 per cent and that every effort be exerted to maintain that proportion with rising enrollments."

Passage, by Congress, of the

Economic Opportunity Act last August enabled the University to introduce its new program on all 11 campuses.

Essentially the program provides, for students who show need, a package of a job, a loan, and possibly a scholarship to help him pay the costs of an education.

THIS PROGRAM has been divided into two phases. The first will effect only those already enrolled at the University. Applications are available at the office of student financial aids for those who think they may qualify for help under this program.

Under the second phase, superior high school students whose financial position would normally rule out attending the University would be found and informed of

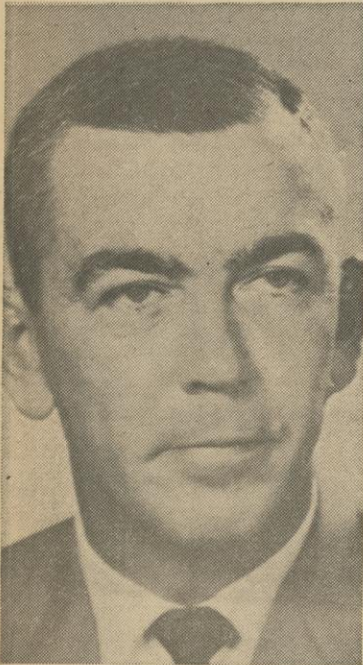


MARTHA PETERSON

the program. Through the University and local agencies these students would be encouraged to take advantage of the program.

Donald McNeil, special assistant to the president, is looking into over 2,000 job opportunities on all campuses. If approved by the Office of Economic Opportunity in Washington, these jobs will be available for deserving students next September.

Government funds will cover 90 per cent of the program during its first two years, while the University will pay the remaining 10 per cent. Later the University will increase its share to 25 per cent.



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SECTION III

The Daily Cardinal

Complete Campus Coverage

SECTION III

VOL. LXXV, No. 76

University of Wisconsin, Madison, Wisconsin, Wednesday, Jan. 27, 1965

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the

UNION



the campus living room...

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Public Relations Committee Sponsors Radio Program

Through radio, the written word, and personal communication the Union Public Relations committee, under the direction of Beth Verner, seeks to establish two-way communication between the Union, the students and the general public.

A new committee project this year has been a weekly radio program about the Union and its programs. As a part of the "Papa Hambone" program on WIBA, a half-hour interview about the Union is presented every Tuesday night at 9 p.m.

ANOTHER project this year is the reorganization of the Union House Rep program. Every organized campus living unit has an elected House Rep who serves to facilitate two-way communication between the students and the Union. In this way students learn about Union programs and facilities and also suggest ways of improving the Union.

The living units have been divided into districts with each House Rep attending meeting of his respective district. All House Reps will meet for a Feb. 14 coffee hour and then representatives of each district will meet directly with Public Relations committee members through the House Rep council to coordinate activities.

ONE OF the important roles of the House Reps this year was to find out student suggestions for facilities and services to be included in the proposed new Union-

South. Proposals from the House Reps are relayed to Union Director Porter Butts and the Union Building committee.

This semester Public Relations committee will continue with many new activities. Again this year the committee will assist with the state high school basketball tournament by manning an information booth in the Cafeteria lobby. Along with the booth, displays will provide information about the Union, bus schedules, and other campus and city activities for the high school visitors.

THIS SEMESTER committee members will continue to publish Union Previews, the weekly listings and descriptions of all programs in the Union. These comprehensive information sheets are posted in all living units and in various campus locations.

Two new projects for the committee will be accomplished in cooperation with the News Bureau committee. These activities include publication of a booklet about all aspects of the Union and the presentation of a program about some aspect of mass communications around the world for the International Week in the spring.

By utilizing many aspects of mass communications the Public Relations committee seeks to improve the two-way communication between the Union and students and provide for new programs and services as suggested by student wishes.



WISCONSIN PLAYERS—Three frizzy-looking cast members from Eugene Ionesco's bizarre comedy "Rhinoceros" rehearse a scene from the Player's last production of the fall semester. The company plans three productions during the next four months.

—Cardinal Photo by Dic Victor

'U' Players Will Present Three Spring Productions

The Wisconsin Players get into high gear second semester with three Union Theater productions in the next four months.

March 8 - 13 the Players, in conjunction with the School of Music, present Sigmund Romberg's "The Student Prince." Lavish theater strictly for entertainment's sake, the musical fails to fade in the glare of today's brash musical comedies, due—in large part—to the Romberg music.

THE LYRIC "Serenade" and reminiscent "Golden Days" are favorite melodies which our con-

temporary composers strive to match. Indeed, the robust "Drinking Song" induces a subtle longing for those musical days preceding the "Tequila" era.

"The Student Prince" will be directed by Frederick Buerki and Richard Church.

Theatergoers will receive a very different kind of fare April 6-10 with the production of Arthur Miller's "Death of a Salesman."

GENERALLY regarded as the best of our contemporary American theater, the play's biting protest against the American suc-

cess myth is exceeded in power only by the penetrating and delicate character study of an ordinary man who pursues the myth.

Director for "Death of a Salesman" is Richard Byrne.

One last evening of fun prior to final exams will be offered by the Players May 11 - 15 with Garson Kanin's "Born Yesterday."

KANIN extracts all the comic potential found in a romantic triangle formed by a basic brute, an abundant blonde, and an appealing intellectual, and manages several satiric jabs at Washington wheeler-dealerism along the way. "Born Yesterday" will be directed by Jerry C. McNeely.

The productions are available at \$1.50 and \$2. Tickets may be purchased at the Union Theater box office several days prior to each production.

THE OTHER side of the footlights is available to all University students as well. Open try-outs will be held for the casts of "Death of a Salesman" on March 1-2 and for "Born Yesterday" March 15-16.

In addition, dozens of backstage positions in costuming, lighting, set construction, make-up, etc., need filling for each of the three productions.

Right now work is beginning on "The Student Prince" and anyone can become involved simply by reporting backstage at the Union Theater any weekday afternoon.

SCOOP!

Seymour Phipple, of 303 W. Gluck St., Mud Flats, Kansas, is a professional match-extinguisher.

NOW SHOWING! INTERNATIONAL FILM FESTIVAL

★ Ichikawa's Odd Obsession

JAN. 27

★ Ford's Eighth Day of the Week

JAN. 28 - 29

★ Cocteau's Testament of Orpheus

JAN. 30 - 31

Union Play Circle

continuous showings:

Mon.-Thurs. from 3 p.m.

Fri.-Sun. from noon

MOVIE TIME PRICES

Presented by Union Film Committee

'Little Badger' Film Series Expanded for 'U' Children

"Little Badgers," a series of planned recreation and entertainment programs for children of University students and faculty members, has been expanded to meet the demands of large increases in attendance during the first semester.

The original "Little Badgers" series will continue second semester to present Saturday morning programs which include film, stories, games, and crafts projects.

THIS FIRST group of programs, Series I, will be held on alternate Saturdays and will begin at 9 a.m. A few individual tickets are still available and may be purchased at the Play Circle box office.

Series II of the Little Badgers

programs is a new project second semester and is sponsored by the Film committee. The series will include ten films which are designed for older children and include foreign film designed to acquaint the children with the cultures of various countries.

The films to be presented are Feb. 20, "Horse With the Flying Tail" and "Donald in Mathmagic Land"; March 6, "Greyfriar's Bobby"; March 20, "Mr. Magoo's 100 Arabian Nights"; April 3, "Duck Soup"; and April 10, "The Adventures of Chico" and "The Town Musician." Tickets are 25c and presentation of a fee card for each program, and may be purchased at the Play Circle box office.

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Mid-Day Program Planned by Union

If you're looking for an interesting way to fill the extra minutes between the end of lunch and the beginning of the first afternoon class, the Union's Special Services committee has the answer for you in its "Mid-Day Program" series.

The programs, held in the Union's Twelfth Night room, feature musical and film entertainment and are open to everyone. Most of the programs begin around noon and usually are planned for Mondays and Wednesdays, according to Ray Patch, Mid-Day programming chairman.

During the past semester, the programs included films on Europe and New England and concerts by a jazz pianist and by a guitarist. To provide the widest possible variety in the subject matter, individual Union committees will have a certain amount of time allotted to them to present programs in their respective areas.

The Mid-Day programs are free.

Check This Complete Listing Of All Union Facilities' Hours

With five dining rooms, three galleries, a workshop and darkroom, a library, and billiards facilities, in addition to a variety of planned programs, the Union offers many services and facilities for student use, the Memorial Union, at the corner of Langdon and North Park Streets, opens at 6:45 a.m. Monday through Saturday, and at 8 a.m. Sunday. Closing hours are 10:45 p.m. Sunday through Thursday, and 12:30 a.m. Friday and Saturday.

CAFETERIA: A favorite spot for campus dining, the Union's cafeteria offers up-to-date service, complemented by a view of the lake. Located on the first floor of the building, the cafeteria offers breakfast, lunch, dinner and snacks.

RATHSKELLER: Select snacks, hot plate lunches, fountain specialties from self-service counter. Enjoy coffee and conversation in famed German atmosphere of the Rathskeller and the new addition, the Stiftskeller. Located on the first floor.

TRIPP COMMONS: Leisurely dining by candlelight is offered every Sunday night at Tripp's popular Smorgasbord served from 5 to 7 p.m. Select from three menus for weekday luncheons in Tripp, the Union's Tudor-style dining room on the second floor. In the evenings and on Sunday noon, Tripp is reserved for contract diners.

INN WISCONSIN: The emphasis is Wisconsin in the Union's newest dining room. Menus in this waiter service dining room center around regional dishes and the decor, including art work by Wisconsin painters, is distinctly Wisconsin. Located on the second floor, serves luncheon and dinner every day but Monday.

PROFILE ROOM: Autographed portraits of the Union's famous visitors provide the atmosphere in the Profile Room, located down the

hall from the INN. May be reserved through the Reservations Office for small group dining, with service from the Inn menu.

BREESE TERRACE CAFETERIA: Located at the corner of Breese Terrace and University Avenue, this cafeteria is served by the Union kitchen for the convenience of students on the ag and engineering campus. Serves breakfast, lunch, dinner and snacks Monday through Friday.

POPOVER: Adjacent to the Cafeteria, Popover may be reserved by groups who wish to pick up their food in the cafeteria line and adjourn for a luncheon or dinner meeting.

MAIN DESK: Second floor, across from Main Lounge. Magazines, candy, cigarettes, newspapers, gum for sale; staffed by a clerk who can answer questions about room locations, programs in the building, facilities. Checks of \$5 maximum may be cashed free at the Main Desk upon presentation of a fee card. Open Monday to Thursday, 7:45 a.m. to 10:45 p.m.; Friday and Saturday, 7:45 a.m. to 12:30 a.m.; Sunday, 8:00 a.m. to 10:45 p.m.

CAFETERIA DESK: First floor, opposite Cafeteria entrance. Toothpaste, film, postcards, magazines, newspapers, combs, candy, gum for sale. Also Union pastry and other foods from carry-out service. Open Monday through Thursday, 7 a.m. to 7 p.m.; Friday, 7 a.m. to midnight; Saturday, 11 a.m. to 1:30 p.m. and 4:30 to midnight; Sunday, 11 a.m. to 1:30 p.m. and 4:30 to 7 p.m.

LOST AND FOUND: First floor, beyond Trophy Room. Place to return items found in building, inquire about lost items. Open weekdays, 9:30 a.m.-11:30 a.m. and 12:30 to 4 p.m. Closed weekends.

THEATER BOX OFFICE: Inside Park Street entrance of Union, first floor; tickets on sale for Union events such as Concert Series, theater programs, and also for other campus events, such as Wisconsin Players' productions. Open every day, including Sundays, from 12:30 to 5:30 p.m.

CHECKROOM: Main checkroom, second floor across from Main Lounge, open Monday through Saturday, 7 a.m. to building closing; on Sunday, from 8:30 a.m. to building closing. No charge.

WORKSHOP AND DARKROOM: Go up stairway in Play Circle Lobby, second floor. Equipment and material for everything from completing class projects to making publicity posters or doing jewelry and art metal work; complete darkroom facilities available to those who purchase darkroom permit in workshop. Open Monday through Friday, 1 to 5 p.m.; Tuesday and Thursday evenings, 7 to 10 p.m.; Saturday, 9 a.m. to 12 noon and 1 to 5 p.m. Closed Sunday.

GALLERIES: Main and Theater galleries, along with the Main Lounge, feature continuous exhibitions by students, faculty, and artists from outside the university. Exhibitions, selected by the Union Gallery committee are changed every three weeks. Hours same as building.

LIBRARY: Students may borrow or browse in the Union library, located on the second floor beyond the Main Lounge. Collection includes latest periodicals, new books and the best from other years. Open Monday through Sunday, 11 a.m. to 10 p.m.

MUSIC: The Music Lounge is located on the second floor across from the library. Students may select records from the library collection and listen to them in the lounge.

THEATER: Located in the theater wing of the Union, the theater offers varied programs including concerts, lectures, dramatic and dance productions. The Wisconsin Players productions also are staged here. Tickets are available at the Union Box Office for these programs.

PLAY CIRCLE: The Play Circle, located on the first floor of the Union, presents "distinguished foreign films, films you've missed, films you want to see again" continuous from noon Friday through Sunday. The free studio plays, play readings and studio films also are presented in the Play Circle.

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NEW YORK TIMES

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1964 -- A Year of Protest By the Nation's Students

(CPS)—1964 might be termed the year of the student protest at the nation's colleges and universities.

STUDENTS on campuses in all parts of the country staged a rash of demonstrations and protests on a wide array of national, international, and local issues, and no let up seems in sight.

Protest action was aimed at everything from new regulations governing the consumption of alcohol at Trinity College in Hartford, Conn., to policies restricting student political activity at the University of California, and almost everything in between.

At the University of Pennsylvania, several hundred students demonstrated against the construction of a new fine arts building on campus on grounds that it would destroy one of the few tree-shaded open spots at the university.

AT THE UNIVERSITY of Texas, the campus chapter of the Students for a Democratic Society picketed against the use of Black Face in a campus minstrel show on grounds that it was degrading to the Negro and the university's Negro students.

At City University of New York, students organized a two month campaign favoring free tuition, and worked to defeat candidates for the state legislature who opposed it.

At the University of Michigan, a student political party staged a demonstration demanding "campus democracy now," as well as more money for teaching, new student housing, better facilities, increased student wages, and a lower cost of living on campus.

MUCH STUDENT protest activity centered on civil rights. At the University of Colorado, the campus chapter of the Congress on Racial Equality picketed a restaurant which had refused to hire a Negro girl. The restaurant gave her the job within an hour after the picketing began.

At Bradley, the university chapter of the National Association for the Advancement of Colored People has been trying to get a local barber to take Negro customers.

The biggest, longest, and best organized of the protests, however, was at the University of California at Berkeley, where hundreds of students have been contesting a ban on campus political activity since last Sept. The protest continued into 1965, after the UC Regents refused to accept the demands of the Free Speech Movement and a large majority

of the Berkeley faculty.

THERE IS NO single reason behind all the protests, but a good many of them—especially those aimed at university administrations—have centered on the issue of "In Loco Parentis," or the question of to what extent the university can perform those disciplinary functions that would normally be performed by a student's parents.

The issue is central to both the Trinity and Berkeley disputes. In both cases students are claiming that the university is denying them rights and privileges they would normally enjoy if they were not students.

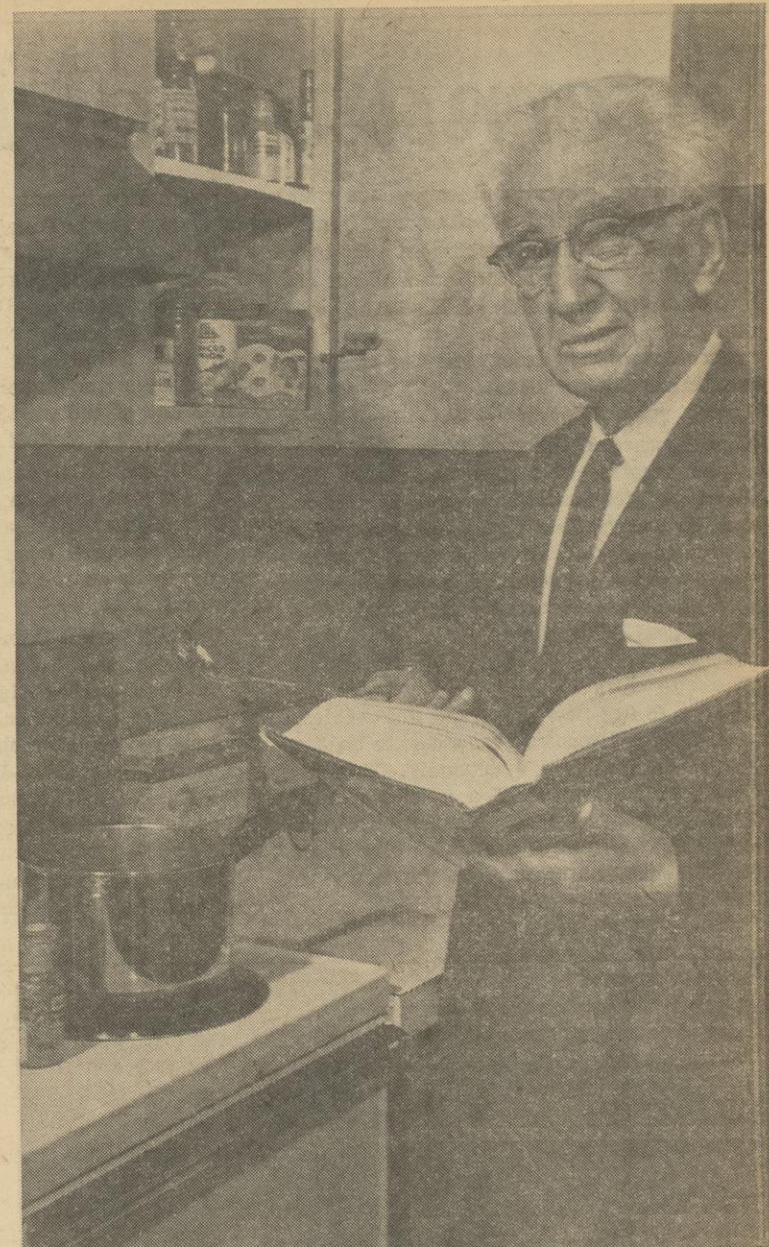
A second cause for protest seems to be the feeling by students that university officials are not consulting with them on decisions affecting them. Apparently this is the main reason for the demonstration at Michigan, and for a demonstration at the University of Illinois, where students are protesting an administration decision to build a million dollar intramural building without soliciting student opinion on the project.

THE 1964 presidential campaign is also a factor behind the protests. Students participated in politics to an unprecedented extent this past year, and on a number of campuses this brought them into conflict with school regulations. On others, student involvement in national politics translated itself into a heightened awareness of campus oriented issues.

In some cases the two coincided, as in New York where the issue of free tuition was injected directly into the campaign for state offices. Students there were able to take their case directly to the voters; senatorial candidate Robert Kennedy publicly endorsed free tuition; and students from City University campaigned at the grass roots with the precinct workers.

Of the six candidates they specifically opposed, one was defeated and the other five won re-election by considerably reduced margins.

If there is any one reason for increased student protest, however, it would probably be the civil rights movement. The movement, which involved large numbers of politically active students, convinced many of them that non-violent demonstration could be an effective device on the campus. It also served to make them more sensitive of their own civil rights.



WE WILL EAT TODAY—A mouthwatering gift of 2,615 cook books, received by the University of Wisconsin this month, is prompting new interest in the 40-year-old hobbies of the donor, Mortimer Levitan of Madison. Levitan, retired lawyer, former assistant attorney general for the State of Wisconsin, and considered the capital city's number one gourmet, is shown here in the proper kitchen environment for two loves—good cooking and good books on cookery. The gift to the University is one of the 10 largest collections of cook books in the U.S.

Union Plans 'College Bowl'

The fifth annual Wisconsin Union College Bowl tournament to be held in February will seek to stimulate intellectual competition and interest among all students.

College Bowl will this year send four students to compete on the national TV College Bowl program.

MORE THAN four-member teams will participate in the tournament which will be held on Feb. 9, 16, and 23. Teams consist of undergraduates who applied for participation during the fall semester.

Conducted similarly to the television program, the contest will include short-answer questions. The "toss-up" and "bonus" questions have been prepared by University professors, hopefully to challenge even the most gifted,

intellectual students.

Each panel member will be individually judged by a board of two faculty members and two students, who will rate the contestant on correctness of answers, speed of response, and number of mistakes. The ten persons rated highest (regardless of team standings) will then be interviewed by a group of people who will select a team for the national College Bowl program.

DUE TO an administrative ruling which was recently reversed,

the University has never participated in the National Bowl, so this year's Union tournament has generated even greater interest than usual. The Forum committee has been organizing and publicizing the event since Thanksgiving and anticipates exciting and worthwhile competition.

A limited audience can be accommodated in each of four Union rooms: Beefeaters, Round Table, Old Madison, and Top Flight, but interested spectators are encouraged to attend.

Computer Romance Sets Darwin Back 1,000,000 Years

A recent attempt at computerized romance at San Diego State College, Calif., might possibly have been arranged by Charles Darwin.

Sophomore class Pres. Jim Poole was paired with a lovely young thing named Stephanie, a three-year-old a.p.e. Stephanie's master, zoology Prof. Kon Hunsaker, submitted a questionnaire for her, and it matched perfectly with Poole's qualifications.

The unabashed undergraduate presented his date with a corsage, which Stephanie consumed for a mid-evening snack.

SCOOP!

The Daily Cardinal was spawned fullblown in the mind of the Capital Times or the South Grunch Gazette.

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These words, in brief, tell the story of the University in 1964.

THE UNIVERSITY made numerous steps forward in the past 12 months, such as the creation of a new Center for Research in Vocational-Technical Education and Training, the first university-wide agency of its kind in the country. Another stride was the University's commitment to give equal opportunity to America's disadvantaged of the 1960s.

A third was the University's accelerated efforts to work closer with Wisconsin industries to use new ideas and discoveries, to cultivate Wisconsin resources, to hasten growth of the state's economy. This included establishment of a new economic development center at Wausau, utilizing in full the abilities of the University in an experiment that may point the way to statewide applications.

A huge step toward deciphering the genetic code, the synthesizing of short, biologically active chains of deoxyribonucleic acid, or DNA, with known sequences of bases, was achieved by the University's H. Gobind Khorana, professor of bio-chemistry and co-chairman of the Enzyme Institute. This was hailed by Science Service as one of the world's premier scientific discoveries of 1964.

THERE WERE many others, but this sampling will give an idea of the scope and breadth of the teaching, public service, and research exemplified in the day-by-day work on the University's 11 campuses.

During 1964, the University stood out as the sixth largest in the United States based on enrollment of full-time credit students. Last September a total of 26,293 students reported for classes on the Madison campus, 11,302 at UW-Milwaukee and 3,438 at the nine Centers—a total of 41,033. The total enrollment 10 years ago was some 17,000.

Summer Sessions enrollment was record-breaking, too, with close to 11,000 on

hand for classes.

ASTOUNDING WAS the expansion of UW-M this past year, spurred by the purchase of Milwaukee-Downer buildings and grounds, the earlier purchase of Milwaukee University School, and acquisition of other neighboring properties. The campus in Milwaukee now has close to 100 acres.

Robben W. Fleming, member of the University of Illinois Law School faculty for six years, became the first provost of the Madison campus last fall, a happy homecoming for the former University student and teacher.

Other administrative changes included appointment of Robert L. Clodius as vice president of the University; L.H. Adolfson as first provost of the University Center System; Theodore J. Shannon, dean of the Extension division;

KENNETH M. Setton, Vilas Research Professor and director of the Institute for Research in the Humanities; Philip C. Rosenthal, dean of the UW-M College of Applied Science and Engineering;

Profs. Glenn S. Pound, dean of the College of Agriculture; Henry B. Hill, dean

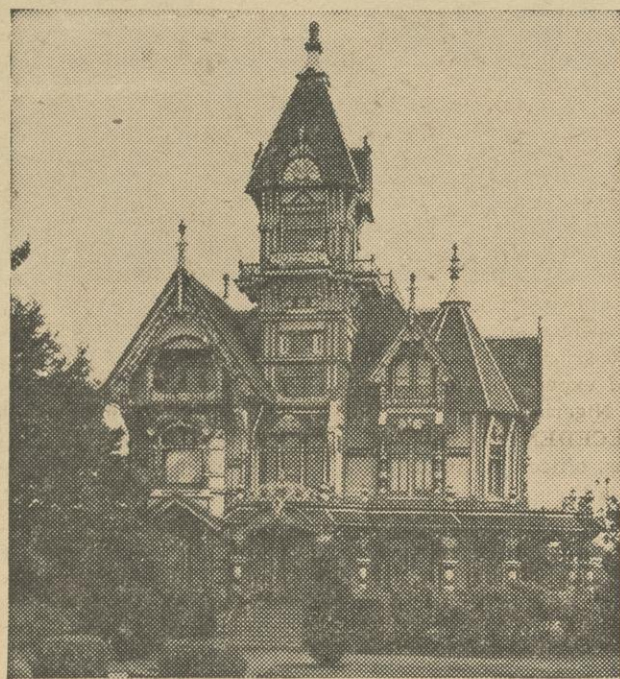
of International Studies and Programs; Wallace Douma, director of student financial aids, loans, scholarships, and employment; James V. Edsall, University planner; and William Koms, UW-M director of business affairs.

A big new classroom building was erected, a doctoral program in mathematics was initiated, and separate schools of social work, commerce, applied science and engineering, nursing, fine arts, business administration, and library science created to make 1964 a big year for UW-M.

THE UNIVERSITY'S newest Center, at Marshfield, opened its doors, and the Coordinating Committee for Higher Education worked on plans for two others, in Rock and Waukesha counties, to be built in the near future.

The regents approved a 1964-65 operating budget aggregating \$123,511,785, including funds from all sources and expenditures for all functions including University Hospitals. The state tax appropriation to the University, excluding the Hos-

(continued on page 7)



House Ad

The kind of house it is, what goes on inside . . . and why you might want to move in with us

Our company may have something in common with the house you see here—roomy, very American, sort of folksy looking from the outside—but comfortable and a good place to grow in, with all the modern conveniences.

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It's not a cushy job. It's not all glamor, beautiful receptionists, and gibsons for breakfast, lunch and dinner. It's not a dreamer's paradise. So much for the big myth.

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It's hard work. It's an opportunity in business adventure—not comfortable, desk-bound security.

We're known as "Star-Reachers." Excellence doesn't come easily. To reach it, we have to strive and keep striving every day of the week, and sometimes Saturdays and Sundays. Other agencies scramble to get ahead of us. We don't intend to let them.

Ours is a service. A dedicated service. We answer to clients. They depend on our work. They trust our judgment. They back us up with millions of dollars which must return a profit to them—and to us.

We work with ideas. Each should be as good or better than the last one. Sometimes they're hard to come by. In a stack of ideas, we might find the right one. If we don't, we keep looking.

Our schedules can be backbreakers. Ads and campaigns that took bits and pieces out of each of us can be scrapped before they get out of the house. Then we start again from scratch. It can mean long hours. Late hours. Lonely hours.

But, it's exciting work, too.

We're in the business of creating good advertising. Creativity fires excitement. There's the thrill of finding the right idea and working out the right marketing plan, the right copy and pictures, the right media plan. There's the kick of seeing ideas in action—out there doing the job of selling. It could be your strategy, your ad, your TV commercial, your promotion.

We've got a house full of interesting people. Some stand ten feet tall in the business. Others are just starters. They're all kinds, from all places. What they have in common is talent. And the ability to laugh when they need it most.

Chances are you won't spend the rest of your days with one product or service. You may be asked to become an expert on gasoline, beer, hair spray, cereal, electricity, peas, insurance, railroads, or cake mix. And that's just a few. It'll keep you from working into a tight little rut.

As we said, this is a place where you can grow. Your own ability (and willingness to work) will be your timetable. Here a bright, self-confident, talented young person can earn recognition—and get it. We make it our business to know where the idea came from.

What you can bring to our house:

Burnett hires young people with a wide variety of educational backgrounds. Here are the majors of a few of those joining us in 1964: Advertising, Architecture, Communications, Economics, English, History, Journalism, Marketing, Music, Political Science, Psychology, Sociology, Spanish, Statistics. These people are headed for work in copy, art, client contact, research, marketing, media, print production and service, and the broadcasting areas of programming, production and service. As you can see, we're more interested in the mind and the individual man or woman than in the field of study.

Interested in our house? Can you interest us in you? See our representative when he visits the campus. If you miss him, send your letter and resumé to James K. Tully, Vice President, Leo Burnett Company, Inc., Prudential Plaza, Chicago, Illinois 60601.

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Union Offers Spring Forum On Mexico

To center attention on Mexico and to import a little of that country's culture and background, the Union committees and the Ibero-American Studies Program, are jointly sponsoring a "Mexican Focus" series for the spring term.

From March 10 to March 21, special emphasis will be placed on Mexican politics, literature, music, art, customs and living habits. The series will include a political panel discussion, films on Mexican travel, and a Mexican dinner.

OSCAR LEWIS, University of Illinois anthropologist and best-selling author, will be a featured speaker. Knowledge of his topic, "Culture of Poverty," comes from his life in Mexico a few years ago. His published works include "Children of Sanchez" and "Pedro Martinez" and many articles about the Mexican people, and though a scientist, he has contributed much to the field of literature. The Union Literary committee will sponsor his appearance at 8 p.m., March 17 in the Union Theater. The program is free.

"Ballet Folclórico," the world-famous Mexican ballet, will be presented by the Union Theater committee on March 16. The 75-member group is Mexico's national dance company and the theater performance promises to be a highlight of the series.

The Union's International Club also will furnish many varied programs on Mexico, including a panel discussion for the Sunday, March 21, Friendship Hour; a Mexican Fiesta incorporated with its usual Dance Time program on Friday, March 19; a cultural program entitled "An Evening in Mexico" on March 20; and a Mexican dinner on March 21.

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Record a Story of the 'U' in 1964

(continued from page 6)

pitals allotment for the year, was \$41,176,661.

The equal opportunities program at Wisconsin has this past year taken some significant steps forward into an area long neglected. University Pres. Fred H. Harrington said:

"**WE BELIEVE** we cannot write off whole generations. Not just the children or the children's children. We cannot wait another generation to give opportunity to those who deserve it as a birthright."

• A two-year faculty exchange plan between Wisconsin, Texas Southern University at Houston, North Carolina College at Durham, and Agricultural and Technical College of North Carolina at Greensboro. Such areas as curriculum development, faculty improvement, student motivation, administrative training, conferences and institutes are being examined and encouraged.

• An eight-week summer refresher course in mathematics at Madison for faculty members representing some 40 predominantly Negro institutions in the south.

• A UW-M project to identify bright youngsters from disadvantaged areas in Milwaukee who previously had no thought of going to college.

• A new UW-M Institute of Human Relations, with University-wide responsibilities in the coordination of action, research, experimental, and demonstration programs. Lawrence C. Howard, formerly of Harvard, Hofstra, Wayne State, and Brandeis universities, was named the first director of the institute.

• Donald R. McNeil, special assistant to the president, and a leader in the University's equal opportunities program, said:

"We are finding out what should be done, and how best to do it, so that when more monies are available, we can use them constructively, and with maximum impact."

IN AUGUST, the University set up a Center for Research and Services for the Newly Developed Nations, patterned to lend assistance wherever and whenever required.

Negotiations were completed, and a Junior-Year-in-Germany for top level students initiated at the University of Freiburg. Other students traveled for a year of study at the University of Aix-en-Pro-

vence, France, a companion program; to Monterrey, Mexico, to attend the Institute of Technological and Advanced Studies; and to the University of New Delhi, India.

The UW-M received national recognition as one of the foremost Peace Corps training centers in the country, as did the Madison campus as a leading Peace Corps recruiting center. Young people were enlisted and trained for duty in dozens of far corners of the world.

ONCE MORE THE University Geophysical and Polar Research Center dispatched several teams to work on projects in the Arctic and Antarctic.

In June, the University awarded 3,216 degrees at Madison and 600 at UW-M. This brought the Madison campus total to more than 142,000 since the first graduation ceremony in 1854.

Honorary degrees were presented to Dr. Lloyd K. Harrison, former University Law School dean, now of New York; Alexander Meiklejohn, Berkeley, Calif., the man behind the University's Experimental College, who was to die at 92 in mid-December; Irwin Maier, Milwaukee publisher; Donald C. Slichter, Milwaukee insurance executive; and Edward L. Tatum, New York, Nobel Prize winning scientist.

PROF. JAMES L. McCamy, political science, drew up a code of ethics for state employees at the request of Gov. John W. Reynolds. U.S. Sen. Gaylord Nelson (D-Wis.) asked the University to help draft legislation to help fight the President's war on poverty. And Prof. Ralph K. Huitt, political science, was named to direct a comprehensive study of Congress, the first such examination of America's lawmaking body since 1946.

These events, too, brightened 1964 for the University:

• A new \$2.6 million extremely high speed electronic computer and auxiliary equipment were installed to augment present facilities at the Computing Center at Madison.

• A team of Wisconsin alumni romped home the winner of the CBS television network quiz show, "Alumni Fun."

• Wisconsin was one of four schools granted \$3.5 million by the Ford Foundation to form a Consortium for International Activities Inc., to further and broaden educational activities abroad.

• There were more than 1,300 foreign

students from 95 nations attending the University at Milwaukee and Madison.

• A new arboretum was established for UW-M, near Cedarburg.

• The University placed increased emphasis on "the distinctive opportunities for research, improved teaching, educational extension, and public service possible through radio and television."

• The Memorial Library's rare book collection was praised as one of the outstanding such collections in the country.

• The University Medical Center developed a new process to take three-dimensional picture X-rays of the heart, a new drug proved effective against a disease leading to permanent brain damage, and a new method to lessen severity of blood clots.

• A. Matt Werner of Sheboygan, won the praise of the state legislature "for completing 25 years of outstanding and continuous service as member and chairman of the University Board of Regents."

• The University's "sifting and winnowing" plaque graced the Wisconsin display at the 1964 World's Fair in New York. And the University several times honored the memory of the man who started it all in 1894, Economics Prof. Richard T. Ely, including an hour-long network television dramatization of his case in December.

• UW-M got its own educational FM radio station, WUWM, and WHA-TV, Madison, moved into new quarters with improved facilities, equipment, and more power.

• A graduate student, Bill Portal-Foster, collected over 12,000 books and dozens of boxes of clothes for students at little Alice Lloyd College in the Kentucky hills.

Noteworthy, too, was the University's participation in a program calling for 32 educators under Wisconsin sponsorship to spend up to two years in Africa in an effort to improve and expand teacher education in Northern Nigeria.

TO MEET UNPRECEDENTED demands for more classrooms, offices, dormitories, and laboratories, the University last year maintained its comprehensive construction program of the 1960s. About half the cost came from sources other than state funds. Many of the new structures are self-financing, others were provided by federal or foundation grants. Opened in 1964 were these buildings:

In Madison—Witte Hall, \$5.6 million, dormitory for 1,120 students; Russell Laboratories, \$4.3 million, for plant pathology, forestry, entomology, and wildlife management departments; Engineering No. 3, \$3 million, classrooms and laboratories; Administration Building, \$2.3 million, business offices;

Cancer Research Center, \$2.8 million, and Clinical Cancer Center, \$520,000, part of University Hospitals; Law School, \$1.5 million; Primate Regional Center, \$1.2 million, for psychological and other studies of monkeys; Zoology Research, \$1.5 million, animal studies; Veterinary Science Laboratory, \$1.4 million, for graduate programs; Primate holding facility, \$80,000.

In Milwaukee—Bolton Hall, Classroom Building No. 1, \$3.2 million.

THE MARSHFIELD Center was completed in time for classes last September, at a cost of \$865,000 borne by Wood County.

As in past years, the faculty, expanded in 1964 to match the demands of a 10 per cent jump in enrollment, brought many honors to Wisconsin. These included:

Profs. Frank R. Horlbeck, chairman of art history, named a fellow of the Society of Antiquaries, London; Ruebush G. Shands, agronomy, presented the Superior Service Award by the U.S. Department of Agriculture;

VAN R. POTTER, medicine, elected president of the American Society for Cell Biology; Prof. Winston Brembeck, UW-M speech, named president-elect of the Central States Speech Association; Prof. Robert Bray, meat and animal science, elected president of the American Meat Science Association;

Profs. Verner E. Suomi, meteorology, named chief scientist for the U.S. Weather Bureau; R. H. Bing, chosen president of the Mathematical Association of America; William H. Hay, named chairman of the Western Conference on the Teaching of Philosophy;

Profs. David Fellman, political science, elected president of the American Association of University Professors; Robert Lampman, economics, called to Washington by Sargent Shriver to help with the President's war on poverty; Ben M. Peckham, president of the Association of Professors of Gynecology and Obstetrics.

Be a Temporary Solon: Interview for Mock Senate

By HARVEY SHAPIRO
Contributing Editor

Would you like to be Senator for a day? You can be, without running a campaign or having a platform, but merely by interviewing for Mock Senate.

To be held March 20, the Mock Senate allows 100 students each to represent a United States Senator and work for the passage of legislation which that Senator might favor.

IT'S ONLY make-believe, of course, but an air of authenticity is provided by holding the affair in the chambers of the state legislature. The Mock Senate will be highlighted by a guest speaker of political prominence.

Students may interview for the

Mock Senate by contacting its chairman, Mark Justl, through the Wisconsin Student Association office. WSA is the sponsor of the day-long affair.

"The purposes of Mock Senate," Justl said, "are educational and non-partisan. Participating in it provides a method of learning the methods, procedures, and maneuvers used in the United States Senate."

WHILE a student must accurately reflect the views of the Senator he is representing, Justl maintains that there is still plenty of room for a student to innovate and create specific legislation within the ideological scope of each senator.

Justl said there is no require-

ment that a student share the beliefs or party affiliations of the Senator he is playing. In fact, he said, "it is often more beneficial to represent a senator whose views you oppose as a means of seeing the other side of questions and providing reinforcement for your own arguments."

If the participating students carry out their roles faithfully, Justl said, the Mock Senate will serve its participants as a valuable introduction into the complexities of the Senate, "the cloakroom as well as the floor."

They can use their persuasive and rhetorical skills as well as put into practice some of their political theories, Justl maintained.

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Hoebel:	Man in Primitive World	Anthropology 100	65
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Union Food Supervisor Plans for a Hungry 'U'

Did you ever wonder how many hamburgers the Rathskeller sells each day, or how much meat is consumed per day in the Union?

These are important questions to Union Food Supervisor, Paul Cleary. He directs food preparation for the four serving units within the walls of the Union (the Cafeteria, the Rathskeller, Tripp Commons, and the Inn Wisconsin), plus the preparation of food for the Rreeze Terrace Cafeteria, the Wisconsin Center, and the extensive catering service the Union

offers for University functions and private house feeding.

MOST UNION food is prepared in the tremendous Union central kitchen. There, using nine huge ovens, 25 full-time employees prepare food to feed the ten to twelve thousand students, faculty members, and visitors served daily in the Union.

The Union's own baker arrives at the central kitchen each night at 9 p.m. and works making the bakery goods until 6 a.m. when the cooks on the breakfast and lunch shifts arrive. They start preparing the one ton of meat (including poultry and fish) consumed daily in the Union. In the Rathskeller alone, more than 500

hamburgers are sold daily.

French fries are a popular item and the Union is capable of accommodating student needs. There are three 75 pound-capacity French fries an hour—that's enough to serve over 3,000 people! **WHEN THE** Union finds a new recipe, it must be sure that the new dish is appetizing and will be

well received. For this reason there is a taste-test panel, composed of home economics students, people who specialize in the study of food.

The new recipes received, of course, are in small proportions—too small to be made in the huge machinery in the central kitchen, so the recipes are enlarged tenfold for the taste-test panel. Then, after adjusting the recipe according to the panel's suggestions, the dish is made and sold in the Union.

The Union kitchen is always looking for ways to improve the food, and new and different recipes are gladly accepted. So, if you've got a recipe you think a lot of, why don't you turn it in to the Union? Who knows—you may find the Cafeteria serving it next week!

Play Circle Offers Second Semester Film Schedule

An unusual selection of noteworthy foreign and domestic films will be offered by Movie Time in the Union Play Circle during the second semester.

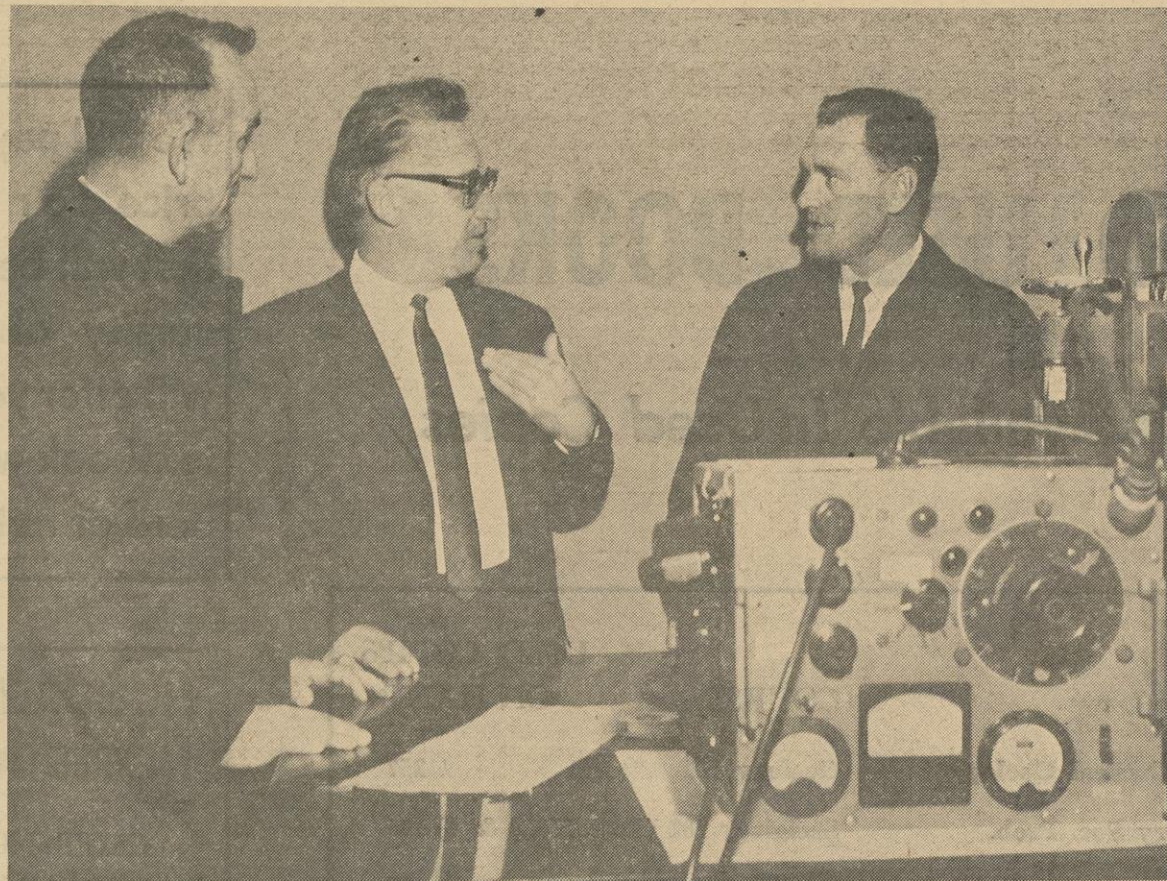
The schedule for Movie Time showings is:

"TO CATCH a Thief," Feb. 5-7; **"The 400 Blows,"** Feb. 12-14; **"Saturday Night and Sunday Morning,"** Feb. 19-21; **"I'm All Right Jack,"** Feb. 26-28; **"Hud,"** March 5-7; **"Yanco,"** March 12-14;

"Lord of the Flies," March 19-21; **"Don Quixote,"** March 26-28; **"Long Day's Journey Into Night,"** April 2-4; **"The Sky Above and the Mud Below,"** April 9-11; **"Phaedra,"** April 23-25;

"The Sporting Life," April 30-May 2; **"The Bridge on the River Kwai,"** May 7-9; **"The Silence,"** May 21-23; **"La Strada,"** May 28-30; and **"Vertigo,"** June 4-6.

In addition, a series of five free Studio Films have been scheduled. They are **"Son of the Shiek,"** Feb. 3; **"To Have and Have Not,"** Feb. 10; **"Mogambo,"** March 10; **"Viva Zapata!,"** March 24; and **"Cat on a Hot Tin Roof,"** April 7.



INTERNATIONAL PROTECTION—A tour of the University, including its protection and securities facilities and operations, was on the agenda for Ernst Krack (center), chief of security police, Munich Germany, who visited here recently. He is shown with Albert D. Hamann, director of the University department of protection and security, and Madison Police Chief Wilbur Emery (right). Krack, who commands a 3,400-man police force, also visited the State Crime Laboratory and discussed protective measures with other state and local officials.

Foreign Films For Intercession

Three foreign films remain to be shown in the Union film festival, through Jan. 31 in the Play Circle.

These particular movies were selected because of their high quality but relatively unknown directors.

"Mr. ARKADIN," for Jan. 26-27, follows Gregory Arkadin, an amnesia victim, on his world wide search for a tailor who can reveal his identity as an all-powerful, wealthy tycoon.

With murder, Arkadin tries to hide his shameful past from his young daughter. The film is directed by Orson Welles.

The German movie with English subtitles, **"Eighth Day of the Week,"** will be shown Jan. 28-29. Directed by Alexander Ford, it portrays two people who try to find fulfillment of their love in a crowded, dispirited city built on war rubble.

JANUARY 30-31 the last movie, **"Testament of Orpheus,"** will be shown. This French film with English subtitles is a biographical effort by the director, Jean Cocteau, to understand the world in which he lives.

He succeeds, with the aid of an invention, in entering the twentieth century age of reason. In his adventures of the arts two characters from Orpheus condemn him to live, the worst sentence a poet could receive.

The films will be shown continuously from noon Friday through Sunday, and from 3 p.m. Monday through Thursday at regular Movie Time prices.

Royal Welsh Choir Gives 'U' Concert

The Royal Welsh Male Choir, making its first cross-country tour of the United States, will present **"An Evening in Wales"** Feb. 26 at the Union Theater.

John Samuel will conduct the 45-member choir in a program of traditional Welsh airs, religious music and spirituals. Featured performers will include soprano Esme Lewis, with guitar accompaniment; harpist Eleanor Dwyrd; and narrator Peter Hydon, reading from some of the descriptive works of Dylan Thomas.

Tickets will go on sale Feb. 1 at the box office window for the 8 p.m. concert, which is sponsored by the Union Music committee.

Fringe Features Former Beloit

A former Beloit College dramatic student, James Valentine, will have a starring role in the 1965 version of hit British revue, **"Beyond the Fringe,"** Jan. 30 at the Union Theater.

Valentine has replaced Patrick Horgan in the role originally created in London by Peter Cook.

BEFORE attending Beloit College, Valentine spent three years at the Central School of Drama in London, where he received the Laurence Olivier prize. In England, he has played repertory roles and performed on BBC television.

In this country he had had several New York roles, appeared with the Shakespeare Festival in Stratford, Conn., and toured with Helen Hayes, Cedric Hardwick and Hans Conreid.

Other members of the **"Beyond the Fringe"** cast are Robert Cessna, Donald Cullen and Joel Fabiani. The newly updated revue makes pungent comments on the current scene—both here and abroad.

SCOOP!

Contrary to librarians' belief, Theodore Sturgeon's legal name is Theodore Sturgeon, despite that fact that he was born Edward Hamilton Waldo.

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Scholarship Funds Head Education Bill

WASHINGTON (CPS)—A Federal scholarship program that would aid up to 140,000 students next year heads the 260 million dollar education program President Johnson has presented to the 89th Congress this year.

Approval by spring of the scholarship program and Johnson's other education measures was predicted by Congressional and education leaders.

IN THE HOUSE, Adam Clayton Powell (D-New York) the chairman of the Education and Labor Committee, is aiming for sub-committee approval by mid-February, and full committee approval by March 1.

If the House Rules Committee, which schedules committee-approved bills for floor debate, does not act on the education measure in 21 days, Powell plans to take advantage of the new House rule that will enable him to by-pass the committee and call the bill directly to the floor.

In the Senate, Wayne Morse (D-Oregon) chairman of the Labor and Public Welfare Committee, said hearings on the bill, started January 26, would probably last three weeks. He thought the education measure might come to the floor during the first two weeks of March.

The scholarship program will be augmented by several other huge aid measures:

- Expansion of the work-study program initiated this year under the Economic Opportunity Act of 1964. Work-study aid, which is currently restricted to students from low income families, would be extended to greater numbers of students and to students from middle income families.
- Partial federal payment of interest on guaranteed private loans.
- Expanded aid to medical students.

The loan measure was presented as "a more effective, fairer, and far less costly way to provide assistance than the various tax credit devices that have been proposed," President Johnson said in his education message to Congress.

A 1.2 billion dollar price tag has been put on tax-credit proposals.

TAX CREDITS were defeated 48-45 in a bitter battle last February, upon Administration promises of support for loans, scholarships, and work-study programs. Sen. Vance Hartke (D-Indiana) last year introduced an omnibus student aid bill with such programs.

Sen. Abraham Ribicoff (D-Conn.), the main proponent of tax credit measures, will not be giving up without a fight, however. Thirty-four other senators have already joined him in introducing a bill to provide tax credits of up to \$325 for anyone who pays the college tuition expenses of a student.

Forty senators who supported this measure last

year are still in Congress. Four senators who opposed it then, one who didn't vote, and three newly-elected senators are among its sponsors.

Another part of President Johnson's higher education program aid smaller colleges. Proposals in this area include:

- Faculty exchanges with other colleges and universities, as suggested last year by Rep. Edith Greene (D-Oregon).
- Aid to faculty members of small colleges to renew and extend knowledge of their fields.
- Fellowships to encourage graduate students and instructors in large universities to augment the teaching resources of small colleges.
- Development of cooperative programs to make more efficient use of college resources.

President Johnson has also recommended support for the purchase of books and library materials; an urban extension program similar to the land grant colleges agricultural extension program; grants to universities for the training of librarians and the teachers of handicapped children; and increased support for research in a wide variety of scientific, educational, and humanistic fields.

In addition, Congress may be asked to deal with several other measures affecting students:

- A Cold War GI Bill sponsored by Sen. Ralph Yarborough (D-Texas) and 30 other Senators. This would extend educational and other benefits to veterans who served after the GI Bill lapsed in 1955.
- Amendments to the Social Security Act to enable full-time students to receive dependent child insurance benefits to age 21 instead of age 18. Such amendments died last year when controversy over medicare prevented action over Social Security.
- Moves to modify or end the draft. It will be keyed to a defense department study due in the spring.

The many higher education programs up for consideration this year, however, seem to be taking a back seat to the 2.255 billion elementary-secondary school program.

THIS PROGRAM includes \$1 billion for aid to children of low income families; \$100 million for school library resources and instructional materials; \$100 million for supplementary educational services; \$45 million for educational research and training; and \$10 million to strengthen state departments of education.

Provisions which would allow parochial school pupils to share public school facilities seems to have dissolved the traditional church opposition to Federal aid to education measures. They also have evoked approval from the powerful National Education Association and a number of Congressmen.

NASA Chief Opens 'Outer Space' Series

James E. Webb, director of the National Aeronautics and Space Administration (NASA), will keynote a series on outer space and its political, economic and medical implications to highlight second semester activities of the Union Forum Committee.

THE COMMITTEE, headed this year by David Knox, works to bring programs of general intellectual interest concerning current events to the campus. Poverty, religion, the law, and politics are other topics on the spring calendar of events.

According to Knox, the committee feels that "there is a substantial lack of knowledge in regard to the implications of our space program in general, and NASA in particular, and that because of the problems of presenting difficult technological information, this has been an area avoided in committee planning. Hoping to present a meaningful look at the intricate workings in the field of science, and space science in particular, the committee now has developed this program."

Webb's lecture, dealing with "Politics and Outerspace—A Perspective," is scheduled for March 18 in the Union Theater. The lecture will cover expectations for the next 25 years of the space program, the prospective benefits to mankind resulting from the spacial exploration, and an analysis of the progress, expenditures and goals of our space program.

OTHER programs in the series will focus on "Economics and Outerspace" and "Outerspace—Engineering and Medicine" and will include an astronaut and an authority on space medicine as guest lecturers.

Still in the planning stages is a series on poverty. The Forum Committee's tentative outlines for the series call for five speakers discussing various aspects of poverty in the United States and also

the Economic Opportunities legislation. Plans for a religion series include a number of films and speakers on the world's major religions.

Continuing programs planned for the second semester include the "Laws and Great Society" series and the "Urge to Merge" series. The laws series, presented in small discussion groups led by University faculty members who are experts in particular fields, was drawn up to acquaint students with current legislation and its effects.

NATIONAL issues discussed during the first semester included mass transit and medicare; scheduled for the second semester is a continued look at national legislation as well as an introduction to Wisconsin legislation under consideration by state lawmakers.

Sylvester Smith, past president of the American Bar Association, led off the "Urge to Merge" series the first semester with a discussion of "World Understanding Through Law."

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Pinter's 'Party' Next Studio Play

"The Birthday Party," by contemporary British playwright Harold Pinter, will be staged Feb. 24 - 25 in the Union Play Circle as the first Studio Play production of the new semester.

Fraduate student Howard Malpas will direct the play, which is open free to students who obtain advance tickets at the Union box office.

MEMBERS of the cast will be Seyna Bruskin, Dale Rolfsen, Glenn Reitze, Margaret Rachlin, Richard Cassell and Eugene Goldsmith. Susan Yevy is assistant director and state manager.

Studio Plays, sponsored by Wisconsin Players and the Union Theater Committee, offer students an opportunity to direct, produce and act in Play Circle productions. The season's fourth Studio Play will be staged May 5 - 6 and a Studio Play Reading has been scheduled for May 18.

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Competition, Exhibitions

Student Art Featured Second Semester

Student artists will play a major role in the second semester activities of the Union's Gallery committee, which again will sponsor the annual spring student art competition.

In last years Student Art Competition, some \$850 in awards went to 100 artists for 191 works. A total of 169 student artists submitted some 406 works for judging.

THIS YEAR, the committee will accept the works on March 25 and the judging will be held on March 27 and 28. The announcement of the student winners will be made at the show's opening reception, April 4, and the exhibition will run through May 3.

In addition to planning for the student show, Gallery committee members also have scheduled a variety of exhibitions for the Union's three galleries.

To begin the semester, the committee invited faculty artists Wayne Taylor and Stephen French to exhibit their sculpture and painting works in a Main Gallery show. The show may be seen through Feb. 5, along with a Theater Gallery exhibition of "Drawings by Leo Grucza," from the University of Illinois.

PHOTOGRAPHY will be in the spotlight during February in "Wilderness, America's Living Heritage," in the Theater Gallery and "Photography by Fritz Albert and Peter Baenziger," in the Main Gallery.

The Wilderness exhibition, sponsored through the Sierra Club, is a collection of 57 black and white photographs by Ansel Adams, Philip Hyde, and the late David Simons and Cedric Wright. The exhibition dramatizes the growing concern in the U.S. for the rapidly vanishing wilderness

and wild areas.

In the Main Gallery exhibition, the photos by Albert, an assistant professor in the university's department of agricultural journalism, illustrate the story of issues of land tenure in Bolivia.

EXPERIMENTAL photos in black and white and color will be shown by Baenziger, who attended the State School of Photography in Munich and is now a graduate student in the agriculture journalism department. Both shows may be seen Feb. 6-March 1.

Continuing the emphasis on photography will be the March 2-14 theater gallery exhibition of award winners in the "Camera Concepts 18" black and white photography competition.

Cooperating with other Union committees in the "Mexican Focus" series of programs, the Gallery committee will present "Paul Strand's Mexico," in the Theater Gallery from March 16 through April 2. The exhibition is a Museum of Modern Art touring show of 20 photographs taken in 1933 and capturing "the essence of the Mexican landscape and the pride, grace and enduring strength of its people."

IN THE MAIN GALLERY, art patrons may enjoy "Eight Painters of the 19th Century," from March 2-23. The show comes from the International Business Machines fine art collection.

Following the close of the Student Art Show, "Paintings by Dennis Pearson," will be exhibited in the Main Gallery. Running May 7-31, the show includes a number of the works by the young Madison artist who has been receiving

attention throughout the United States. He is a graduate of the University art department.

Rounding out the semester's exhibition schedule in the Main Gallery will be "Leonard Baskin: Prints and Books," June 3-21. The exhibition consists of 100 prints, two printing blocks, a book and several woodcuts almost the size of a door, which celebrate in stark images the passion of life and death.

FINAL EXHIBITION in the Theater Gallery, May 7-June 9, will be "Prints by Contemporary Wisconsin Artists," the 1964 senior class gift to the Elvehjem Art Center. The exhibition includes original prints by Wisconsin artists such as Colescott, Gloeckler, Meeker, Von Neumann, Earnest, Solechek-Walters and Lichtner.

The Gallery committee also will offer students other opportunities to pursue their art interests. On Feb. 10, the committee will sponsor the rental of the Union's loan collection.

Pictures from the collection will be available for student rental for a \$1 fee and presentation of a fee card and may be kept the entire semester. The rental will be held 4-5 and 7-8 p.m. in the Union's Top Flight room.

ALSO SCHEDULED for the semester are art films on Feb. 15 and April 5. "The Titan," Academy Award winning documentary of the life and work of Michelangelo, will be presented in February with free showings planned for 4:30, 7 and 9 p.m. in the Union's Play Circle. The second film title will be announced at a later date.

Final event of the semester will be the May 16 Sidewalk Arts and Crafts Sale.

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Union Theater Offers Drama, Music, Film

A wide-ranging schedule of notable dramatic, musical and film events are included on the Union Theater's second semester agenda for its twenty-fifth anniversary year.

The hit British satirical revue, "Beyond the Fringe," arrives Jan. 30 to open the semester on a humorous note. The newly-updated version of the show which has provoked more than its share of laughs both in London and on Broadway features pertinent and impertinent comments on the current scene.

THE ANNUAL SERIES of free Sunday Music Hours continues Jan. 31 with a concert by the University Concert Band, conducted by Prof. Raymond F. Dvorak.

Ski fans will welcome the return of John Jay, with his latest film, "Persian Powder," Feb. 1. The movie includes shots of some of the top international skiers in action.

Young German baritone, Hermann Prey, makes his campus debut in a Concert Series program Feb. 2. One of Europe's most popular singers, Prey is making his second American concert tour.

THE FILMED record of an unusual voyage on

the Nile will be presented by Capt. Irving Johnson in a Travel and Adventure Film Series program, "Yankee Sails the Nile," Feb. 11.

The famed Juilliard String Quartet, with a vast repertory and equally vast talent which have won fans around the world, will perform on two Concert Series programs Feb. 19 and 20.

Feb. 21 will bring to the theater the noted off-Broadway dramatic portrayal of the Negro in American history, "In White America." Gloria Foster heads the cast.

THE AMERICAN Ballet Theatre, celebrating its twentieth anniversary, makes its tenth campus appearance with two performances Feb. 24 and 25.

One of the world's most renowned choral singing groups, the Royal Welsh Male Choir, will sing here Feb. 26. It will be the first time the entire choral group has toured this country.

Special showings of the award-winning film version of Leonard Bernstein's "West Side Story" have been scheduled for 1:30 and 7:30 p.m., Feb. 28.

"THE ALPINE WORLD," which visits obscure Alpine villages as well as some of the better known mountain vacation areas, will be narrated by Eric

Pavel in a Travel-Adventure Film program March 15.

The 75-member Ballet Folklorico, national dance company of Mexico, will present a colorful and lively program of traditional and modern dances March 16.

The Sunday Music Hour program for March 21 will consist of a concert by the University Orchestra, conducted by Prof. Richard C. Church.

Marian Anderson on March 28 will sing a farewell concert, part of her world-wide tour, at the University Pavilion.

ONE OF THE world's foremost pianists, Byron Janis, will conclude the 1964-65 Concert Series with performances March 30 and 31.

The traditional spring concerts by the Minneapolis Symphony Orchestra have been scheduled for 4 and 8 p.m. Sunday, April 25.

The University's own Tudor Singers, accompanied by a Music School woodwind ensemble, will present a Sunday Music Hour concert May 2.

THE ANNUAL series of Travel-Adventure Films will end May 3 with an underwater saga, "Man Looks to the Sea," with Stanton Waterman.



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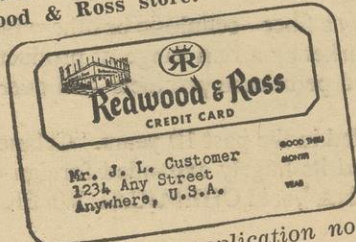
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April 9-10

Diplomats Spar At Model UN

By HARVEY SHAPIRO
Contributing Editor

With the beginning of second semester, actual proceedings of the 1965 Model United Nations Conference will commence, though the conference itself won't be held until the weekend of April 9-10.

AT THE MODEL United Nations, students representing the various member nations carry on simulated meetings of the various U.N. committees and councils. Their goal is to work out resolutions which they can successfully maneuver through the mock General Assembly sessions.

Jerry Huguet, Model United Nations chairman, has pointed out that the Model U.N. delegates' aim is not to reconstruct the actions of the "real U.N.," but to "approximate and innovate within the framework of the possible positions a country might take."

The purpose of the conference, Huguet said, is to "give students a working knowledge of the operations of the U.N. and a better understanding of international politics."

WHILE OVER half of the 115 United Nations member nations have received student representatives, Huguet said that "many choice countries are still available."

Delegations may be obtained by contacting Huguet at 507 Memorial or calling him at 257-1787. There is a small delegation fee.

Nearly a dozen countries will be represented by students from schools other than the University, Huguet said. The 1965 Model U.N. marks Madison's first intercollegiate affair of this type, though in past years University students have taken part in Model United Nations at other campuses.

IN AN EFFORT to prepare the participating students, Huguet said that "bloc meetings" would begin Feb. 14. Here countries, allied geographically or politically, hammer out resolutions attempting to further their collective interests.

The actual United Nations conference will begin Friday night, April 9, with policy speeches by students representing the major powers.

This will be followed by a keynote address by a man prominent in United Nations. Friday night is rounded out by a General Assembly Session and more bloc meetings.

SATURDAY is devoted to meetings of the U.N. councils and committees, such as the Security Council or Arms Control Committee.

Saturday evening will feature a speakers dinner and an address by another prominent speaker, while Sunday will be devoted to the final General Assembly session at which the resolutions of the various blocs, committees, and councils will all vie for the approval of the majority.

Throughout the affair, "back room politicking" will be carried on in the "smoke-filled rooms" provided by the Union for that purpose, Huguet promised.

Huguet said that the delegates must work in the realm of reality, but that they are not limited in the resolutions they introduce.

"**THE MODEL U.N.**" said Huguet, "not only gives students insight into the merits of various proposals, but ideas as to how they should be maneuvered to insure passage."

It may only be make believe, Huguet said, "but the students can actively let Red China in or throw Russia out; arrange disarmament or start a war; all the while learning the mechanics of the U.N. in action."

BILLIARDS TOURNAMENT

A billiards tournament will be held Feb. 5, at 8 p.m. at the Union. The winners will go to the regional billiards tournament at LaCrosse on Feb. 19-20. The three-cushion billiards tournament will be limited to the first six, while the men's pocket billiards tournament is limited to the first 16. Signing up for the tournament, which is open to all University students at no cost, can be done at the games desk by Feb. 3. One winner from each contest will be chosen by highest total score.

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THE GIFT, valued at \$3,220, came from Dr. Marvin Sukov, a Minneapolis psychiatrist, whose reputation as a generous donor was already firmly established on campus.

Dr. Sukov is a long-time collector of "Little Magazines," often produced on a shoestring but aimed at high literary content. The "Littles" have been identified with forwarding every important literary school or movement in the U.S. for the past 35 years, and have frequently been the first to recognize and present authors who later became famous.

In 1959, part of the Sukov Collection—then some 10,617 issues under 715 titles—became Wisconsin's own. One half of the collection was a gift from the Minneapolis doctor; the other half was purchased by the University.

FOR THE MOST part, the magazines were English language publications, but many had originated in foreign countries. All told, they represented one of the most important bodies of research materials brought to the

University for 10 years past and a true research plum for scholars in the humanities, especially those in modern literature.

In 1961, Dr. Sukov, continuing his collector's interest in the "Little Magazines," added new titles to his original gift including rare items such as a complete run of issues of "The People's Press," published in Chicago between 1935 and 1939.

The latest Sukov gift increases the University's holdings in "Littles" by between 600 and 700 items. These include hard-to-come by issues of the American journals "Portfolio" and "Folder."

Felix Pollak, curator for the University Memorial Library rare book department, pointed out that the "Littles" representing the most recent gift "are in mint condition."

SCOOP!

Due to the overwhelming popularity of "The Complete Scoops!" The Daily Cardinal has come out with Volume II. The 150 page book has been described by Fester Turnbuckle, of the Mud Flats (Kansas) Blatt, as "every bit as good as its predecessor . . . a definite must." Need we say more?



A GIFT FOR "U"—The latest additions to the University of Wisconsin's collection of "Little Magazines" catches the attention of Shirley Rosenkranz, a graduate student in English. A gift of 664 issues of 94 different "Little Magazines," from Dr. Marvin Sukov of Minneapolis was recently accepted by the University regents. The "Little Magazines," carried the work of young authors destined for later literary fame and are a valuable source for literary historians.

Union News Bureau Plans New Projects

Aspiring journalists of the Union News Bureau began the semester by working on the Union section in the Registration Cardinal, as well as completing work on a section in the Wisconsin Badger yearbook.

Two new projects will be initiated this semester by News Bureau members in cooperation with the Public Relations committee. A book explaining all phases of the Union will be prepared by the two committees for distribution. Another new joint project will be the sponsorship of a program con-

cerning mass communications around the world as part of the International Week in the spring.

THE TWO committees also will seek to help publicity chairmen all over campus improve their programs through a workshop session similar to one held during the fall semester. Last semester's workshop on practical publicity hints featured a reporter from a metropolitan newspaper, faculty members, and other people noted for their accomplishments in the field of journalism.

Other News Bureau projects

are concerned with informing the public about Union programs and facilities. In achieving this goal committee members, headed by Janet Hindin write stories for The Daily Cardinal, Madison and state newspapers, and other publications. Inside 770, the Union newsletter, is published six times per semester, and a pamphlet explaining Union committees and clubs is prepared in the spring for distribution to freshmen, new students, and other interested students.

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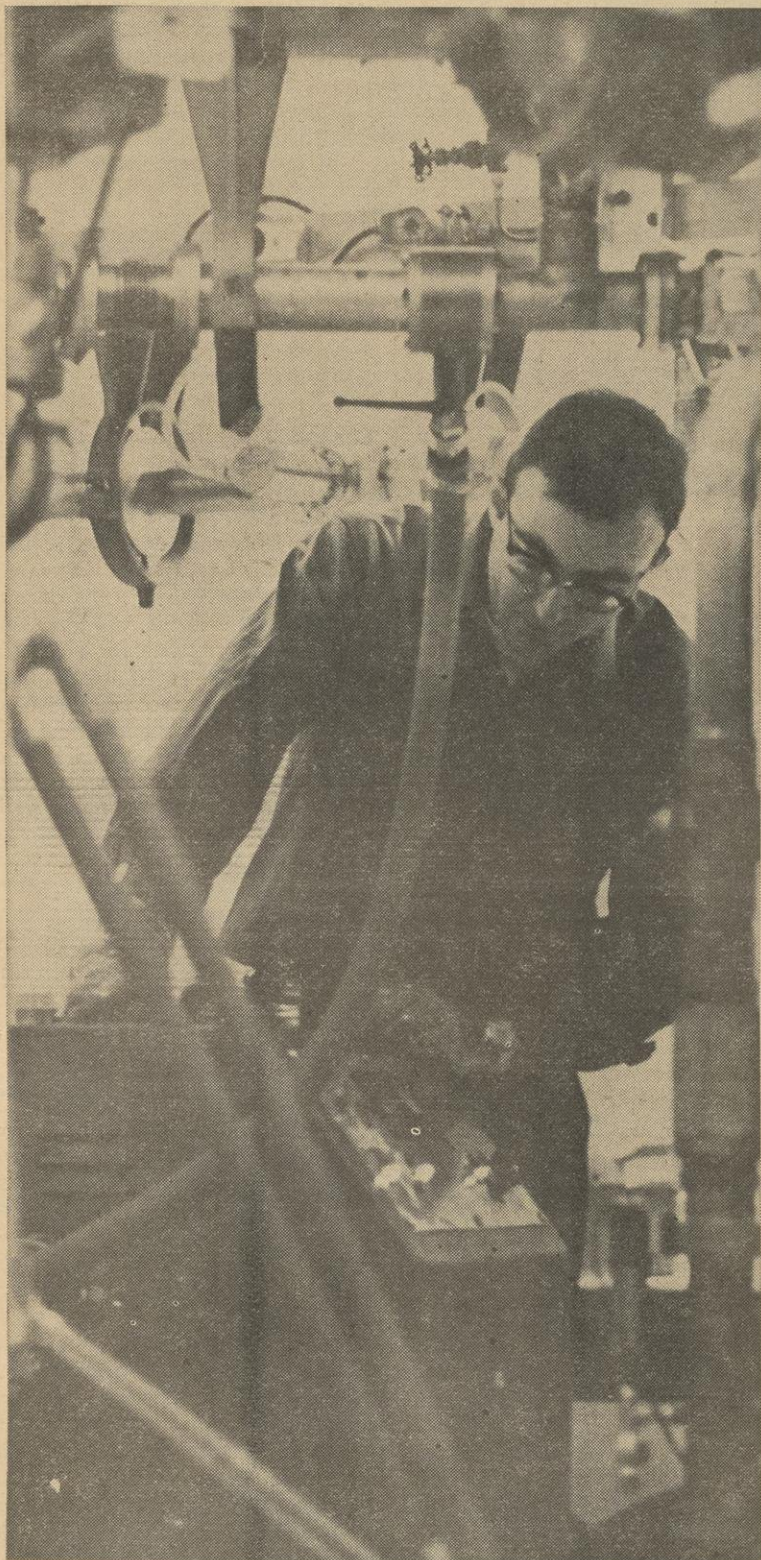
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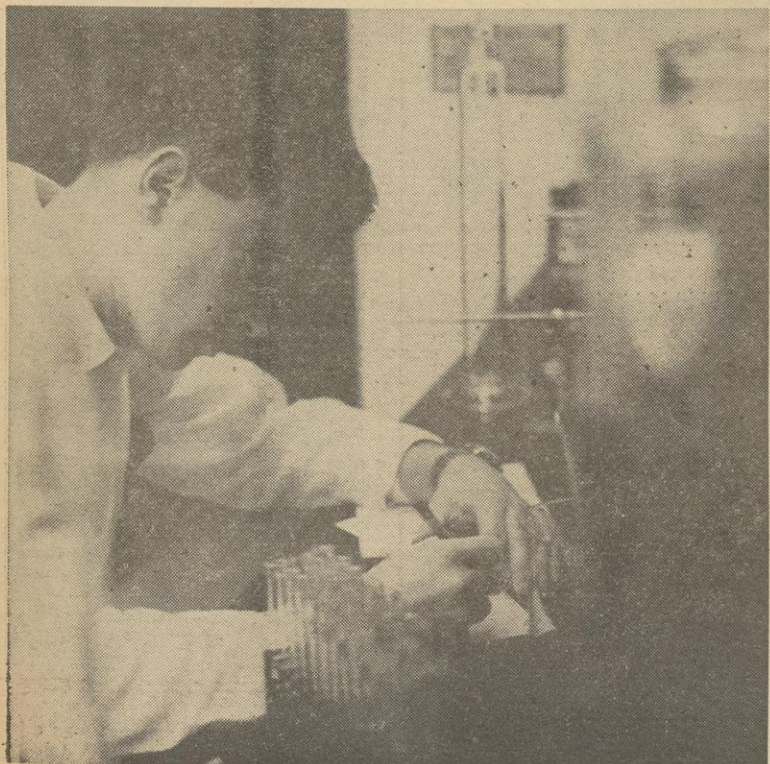
VOL. II, No. 3

January 27, 1965

Madison, Wis.



RESEARCH



Science in the Soviet Union

The age we live in is an exciting one for it is marked by an unrelenting drive toward discovery through research. Never before have we poured as much capital into the pursuit of innovation. A recent Time Magazine article noted that the Du Pont Corporation spends \$58 million annually on research. On the national scene the government is spending billions of dollars on the exploration of space. But the United States is not the only one concerned with space and research. The Soviet Union is also on the move in the fields of scientific investigation and probably no one is more aware of it than Americans.

At times we are almost obsessed with the desire to know whether we are ahead of the Russians in space ventures or whether our schools are inferior to theirs in the math-science fields. On the other hand the Russians are also concerned about unique problems which confront them as Marxists. Their economic system of interpreting the world has led them into difficulty in reconciling that ideology with certain scientific pursuits.

For instance, the new science of cybernetics which seeks to establish valid generalizations covering the operation of control systems both in living organisms and in machines met with violent opposition in the Soviet Union after World War II because it presented itself as a competitor of Marxism. It has only been since 1958 that cybernetics has been reconciled (in a way still unsatisfactory to many) with their ideological system. But the barricade which Marxist-Lennist theory has erected has not impeded progress severely for the Russians have always managed to establish satisfactory rationalizations. However, there are several areas of scientific study that great credit is due to the Russians.

In astronomy during the past fifteen years the Soviet Union has occupied herself primarily with building instruments and training people in their use. At this point they are in the starting blocks and ready to attack some of the major problems of our times. Presently they have plans for erecting giant radio and optical telescopes high in the Caucasus; this is the first time that this size instruments will be developed. Some of the work now being conducted in observational and theoretical astronomy includes a study which has called attention to stellar associations and to the problem of apparently dispersing stellar systems within the Galaxy. Another school of astronomy has opened up new fields in the study of details of velocity-fields and magnetic fields on the Sun, particularly in sunspot regions. In addition Soviet astronomers have produced notable textbooks and monographs on astronomy which are in use daily in English translations.

On another front, namely chemistry, information is difficult to obtain because of travel restrictions. However on the basis of voluminous Soviet chemical publications and limited chemical research institutes that Western scientists have seen, the conclusion is that Soviet chemistry is weak and has become weaker since World War II. It is not weak because it does not have brilliant chemists or because the youth is not interested but rather because 1) chemists in the Soviet Union are not permitted to have any large degree of contact and exchange with the West, 2) the number of chemical research laboratories is small compared to their needs, 3) the laboratories they do have are crowded and antiquated, 3) laboratory services and supply of chemical reagents are for the most part deficient.

In the vital realm of medicine, according to Robert Roaf, professor of orthopaedic surgery at the University of Liverpool, the Soviets have been placing a great emphasis on research and display an "exhilarating" enthusiasm toward their work. He asserts that some extremely interesting work is being done on the transplantation of cadaveric bone and cadaveric fascia, tendons, skin and nerves. He observed many cases of difficult tumours treated by widespread resection of bone and replacement by whole sections of preserved frozen cadaveric bone.

Another area of research is psychology but it should not surprise anyone that for Soviet psychologists Freud and Jung never existed. Freudian concepts have no place in their studies; psycho-analysis and its derivatives are disregarded in the treatment of mental illness. The greatest influence on Soviet psychology is still Pavlov with his work on conditioned reflexes. The major difference between the study of psychology in the West and that of the Soviets is that they primarily harbor a physiologically oriented psychology with practically no social orientation. The lack of emphasis on personnel psychology and statistics is another earmark of Soviet study. One of the areas which the Soviets are concerned with is educational psychology. Of particular note is Leontiev's published work on the idea of relatively equal skills based on different and often unequal abilities. He describes the learning process as the growth of the connection between two events in such a way that one comes to represent or signal or 'mean' the other. Leontiev does not agree with the idea of inherent and unalterable mental qualities which has troubled many Western psychologists. In another branch of psychology there is an intense interest in the nervous system. Teplov and his colleague Nebilitsyn have as their major aim the determination of the reactive qualities of people who may be supposed to differ in their types of nervous systems. For example, if a person were to have a "strong" nervous system then he wouldn't be as easily aroused as a person with a "weak" system. This could be valuable in determining different patterns of study for students with differing systems. According to Neal O'Connor, a worker for the Medical Research Council, "Soviet psychology is comparable to American psychology in its expertise and although somewhat smaller in volume is growing rapidly and already equals any other psychology in quality."

So it is apparent that intensive research is on the move in the two great powers. Possibly the question of WHY all of this human energy and wealth is being poured into research at such a breakneck pace is beside the point. However, it is fascinating to reflect that our own present attainments may have never arrived in our age had it not been for the Soviet Union. Likewise, had it not been for an America which found itself in direct opposition to Marxist-Lennist philosophy the Soviets may have never made the advances which are described in this survey. It is the epitome of irony that both countries should owe such an incalculable debt to each other.

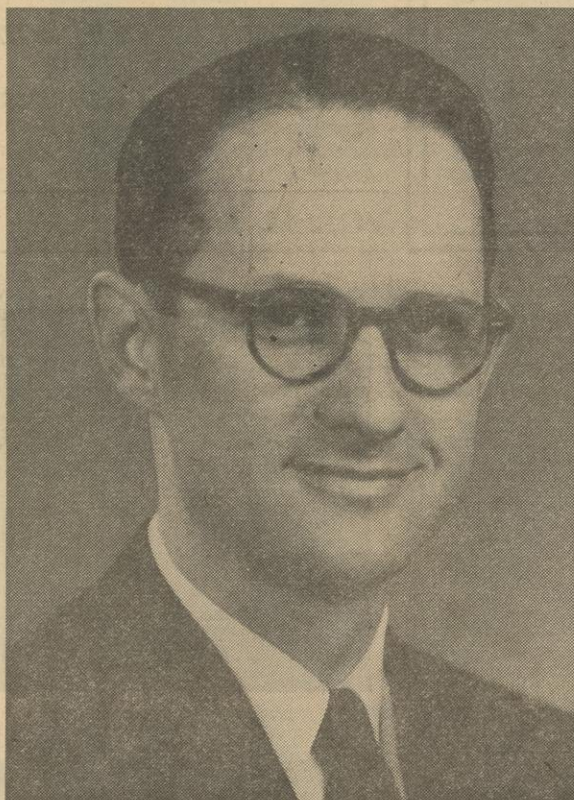
CHARLES M. MARTIN
MAGAZINE EDITOR

PEOPLE

AND

OPINION

By ALAN RUBIN



DEAN R. A. ALBERTY

★ ★ ★

EDITOR'S NOTE: The following is an excerpt from a statement given May 23, 1913 by Charles R. Van Hise, then President of the University. Van Hise was one of the first to stress the importance of research to the University and the state. It was during his Administration that the "Wisconsin Idea" was first introduced.

It is the duty of a University to teach the truth as it sees it, and it is not only its duty to teach that truth, but it is its duty to advance knowledge. These are commonplaces for all universities of all countries; however, all that is involved in them is sometimes not fully appreciated. They mean that we must recognize that knowledge is nowhere fixed, that all things are fluid. The ideas which we hold today will not be held tomorrow in precisely the same form.

The next generation will hold them in a very different form from that we now hold them in. This does not mean that the views which we now have may not be substantially sound, but it means that nowhere in the world have we attained perfection. No man knows everything about the simplest thing. The facts involved in the constitution of a grain of sand are far beyond our present knowledge—indeed are beyond the knowledge that any man shall ever have. All knowledge is incomplete. It is the duty of the University ever to move toward completion, with the certainty that it will never reach perfection anywhere, at any time, with regard to anything.

At the University of Wisconsin we believe that research and instruction are inseparable. The research that is going on at the University has an effect even on freshman instruction. Our knowledge of our universe is in constant change, and this change is the result of research. Since we have every reason to expect a continued rapid, or even accelerating, rate of change, it is important for students to learn something about research. Not only is research providing new insights into our universe and into ourselves, it is changing our world, creating new industries and new possibilities for good and evil.

There is so much going on in research at the University that no one person could expect to know about all of the different ideas and results. However, several rough yardsticks will provide an idea of the magnitude of the research effort. A large amount of research is carried out by graduate students in developing their doctorate or masters' theses. At the present time there are about 6500 graduate students on the Madison campus and last year 435 received the Doctor of Philosophy degree. A relatively new group of researchers of growing importance is made up of those with postdoctoral appointments; there are approximately 500 postdoctoral appointees on the campus at present.

Another way of expressing the magnitude of the research effort is in terms of its costs. During the last fiscal year about \$24,000,000 came to the University of Wisconsin in gifts, grants and contracts in support of research. This sum does not include the fraction of the salaries of professors that might be said to be attributable to research, nor does it include many of the indirect costs of research. One of the largest single grants was one for \$1,800,000 from the Wisconsin Alumni Research Foundation; this fund is allocated by a faculty committee (The Research Committee). This fund, and a smaller one provided to the Research Committee by the State of Wisconsin, is of great importance because the funds may be used in a flexible manner, often to help young staff members get started in research, and are not earmarked for specific projects. It is a tribute to the quality of the research carried out at the University of Wisconsin that there are so many grants from the federal government, private foundations and industry for the support of research.

DEAN ROBERT ALBERTY
Graduate School

These principles recognized without question as applied to mathematics and other sciences, we must also apply to sociology, to morals, to politics, to religion, to all of the relations which obtain between man and man. It is the inflexible application of truth to these subjects which arouses opposition. It should not be the purpose of a university carelessly to question or recklessly to disturb current traditions, customs, or morals; but like every other human institution or human ideal, they are the legitimate field of sober inquiry. Nowhere is there fixity or completeness in regard to human relations any more than with regard to physical or chemical relations.

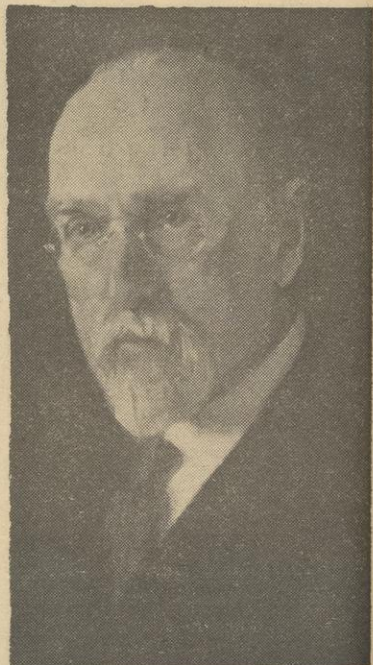
Following truth wherever it leads without regard to its

The Daily Cardinal MAGAZINE



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CARDINAL PHOTO BY DIC VICTOR AND JOHN LAMM



CHARLES R. VAN HISE

hearing upon persons or nations is the spirit which the university must not yield. It is this spirit which makes the university a center of conflict.

A Congressional Exploratory

By HARVEY SHAPIRO
Contributing Editor

If we know what went on in the past and what is going on now, we can understand the present age and make predictions about the future.

This equation is the rationale behind much of the research going on in the fields of political science and history at the University.

UNLIKE SOME fields, with vast projects being carried out by teams of scholars, political science and history remain essentially the field of the lone scholar, or perhaps a pair of scholars collaborating on a study, the result of which will be a book or an article.

Under these decentralized conditions, neither department has any master plan guiding research; rather staff members are hired according to their areas of interest and presumably will do research in these areas.

There are exceptions to the "lone wolf" method of research in political science, notably, the comprehensive study of Congress directed by Prof. Ralph K. Huitt.

FINANCED BY a \$230,000 grant from the Carnegie Corporation, this two year study is enlisting a number of prominent

scholars to comprehensively examine all phases of Capitol Hill and assess the merits of (but not recommend) proposed reforms for Congress.

More typical of political science research, however is that being done by Asst. Prof. Jack Dennis. Dennis is studying something called "political socialization" which, he explains, concerns "how people learn about politics and their roles in the political system."

Dennis gains much of his data through survey work and codifies it by computers. His use of computers is exemplary of a growing use of computers in the field of political science which like the other social sciences is in the midst of a "cybernetics revolution."

THE DEGREE of intrusion by machines on the scholar varies according to the area of his studies. Political science is a diverse field with its extremes fading into other disciplines and the methods of research varies according to particular requirements.

Political philosophers, for example, are hardly in a position to use computers, their work consisting mainly of reading books and then sitting and thinking before begin-

ning to write.

However, political scientists with a behaviorist bent (and their number seems increasing) find their research more suited to quantitative methods.

IF POLITICAL science is generally filled with lone wolf researchers, history is even more so. By its very nature, in fact, history must bear the stamp of a single scholar; there can be little pretense of objectivity, for the historians job is to take objective events and weave a narrative explaining and relating them.

The scope of a historical study can vary from such things as Prof. Merrill Jensen's multivolume study of the American Revolution down to a minute monograph on a minor event.

The historical researcher is popularly envisioned as a myopic scholar locked away with some dusty artifacts, yet there is more to the picture than that. Methods of historical research are limited by forms of information coming out of the event in question.

IN THE COURSE of research, historians have visited scenes of battles, ruins of cities, or private collections of the writings of a historical figure.

Occasionally certain studies in history lend themselves to the use of computers, especially in the field of economic history.

A new trend in historical research seems to be the field of comparative history, the study of the institutions of one country in comparison with those of other countries.

Other historians are increasingly taking contemporary social sciences and applying them to earlier historical situations. For example, efforts are being made to probe the psyche of statesmen at the Constitutional Convention.

In history, and political science, many value judgements are called for or are insertable.

While in history they are to a limited extent a necessity, in political science it is all too easy to let partisan views cause a study to yield more desirable than accurate conclusions.

Prof. Henry Hart, political science, maintains, however, that political scientists are able to "compartmentalize their views and keep them out of their work by being aware of them. In addition, Hart says, one's colleagues would be quick to criticize one's biases. For political scientists, the competition keeps them honest.

Let the Consumer Be Thankful For Our Agricultural Research

By JEFF SMOLLER
Night Editor

Interest in research on the College of Agriculture campus might not run very high among the aloof, sometimes agriculturally naive urban dwellers and their progeny attending the University. But, whether the student from the Loop or Times Square knows it or not, research developments in the College of Agriculture affect him more directly than those in perhaps any other school or department of the University.

THE COLLEGE of Agriculture, following the land grant format in education, serves the populace of Wisconsin and the nation with a program of interwoven activities in the three headed animal of resident instruction, research, and extension work.

Research, under the direction of R. J. Muckenhirn, is geared for an agriculture that is no longer the hit and miss practices of farmer Brown who throws his feed on the ground and plants by the moon. Nor, indeed, is all the research geared to the rural dweller exclusively. The population trend of the nation is away from the farm and thus research on the agriculture campus is adapting to the changing times.

Developments in the field of ag-

ricultural research have given our nation an abundance of food known to no other area in the world. And much of the research that has aided in the increase and perfection of production is either a direct or indirect result of work done by the College of Agriculture faculty and the research stations it operates.

THE BABCOCK dairy butterfat test, discovered by Prof. Stephen Babcock, was a research breakthrough in the marketing of milk and dairy products. Work on sterile milk concentrates at the University resulted in the product's development and increase on the market. And Vitamin D, as well as Warfarin rat poison, have come from the laboratories of the College of Agriculture.

But while farm researchers continue to work daily on everything from new strains of crops to swine herd improvement, there's a new road that the faculty is beginning to travel more frequently. It's the road that leads to town and the mass of urbanized populace.

"While we certainly don't want to slight the farm research that is being done by the college," said Douglas Sorenson, assistant experiment station editor of the college, "we must place our em-

phasis on the developments that will help the consumer as well as the producer."

SORENSEN cited the area of food research as one of the main fields of study on the agriculture campus.

The days of the canned peas and carrots may be numbered if an idea of food chemists Kenneth G. Weckel and Duane Wosje becomes common on the retail market. Freeze-drying of vegetables will result in higher quality products and an improved market for Wisconsin vegetables in dried soup mixes and other specialty products.

Freeze-drying, which is done under near vacuum conditions, offers the consumer a high quality product according to Weckel and Wosje. The vegetables stand up well during the process with hardly any color loss. Taste tests also found that the new process yielded a product superior to the ordinary processed vegetables.

BUT FOODS research for the benefit of the urban consumer doesn't end with the root vegetables. Wisconsin is the Dairyland of America and her processed cheese production ranks high on the national scale. With University help, cheese making will be shortened, thus resulting in a

lower costing product.

The introduction of hydrochloric acid into the cheese curd in place of waiting for bacteria to make their own acid has cut the length of cheese making in half. With present methods, for example, it takes about four and one half hours for Cheddar cheesemakers to form the curd, separate it from the whey, and prepare the curd for curing. The length previously depended on the speed of the bacteria.

A VACUUM treatment of the curd was also developed by University dairy and food scientists and the process was simplified. Combined with the perfected chemical process, the cheesemaking art should take even a shorter period of time.

Pressure by the consumer also has University agriculture researchers working on methods of improving the quality of retail pork. Meat scientists are testing and treating swine before slaughter and then evaluating the meat that is sometimes watery, soft, and stands up poorly.

Faculty in the department of meat and animal science have treated live pigs with tranquilizers and heat before slaughter to determine the cause of watery pork. Some swine are even exer-

cised before they make their trip on the rail.

POST slaughter treatment of meat is also an avenue of exploration for the researchers. They've tried to quick dry the meat with liquid nitrogen but this process, while reasonably successful, is expensive and would run into trouble being put into practice in industry.

It's the urban dweller who will most benefit from another project being undertaken by University entomologists. The large stately elm trees that line the city streets and fill the metropolitan parks are being attacked by the elm bark beetle which carries the Dutch elm disease. But while the beetle is sweeping the nation from east to west, University insect specialists are working on a control to stop the disease before it wipes the elms the way of the dodo.

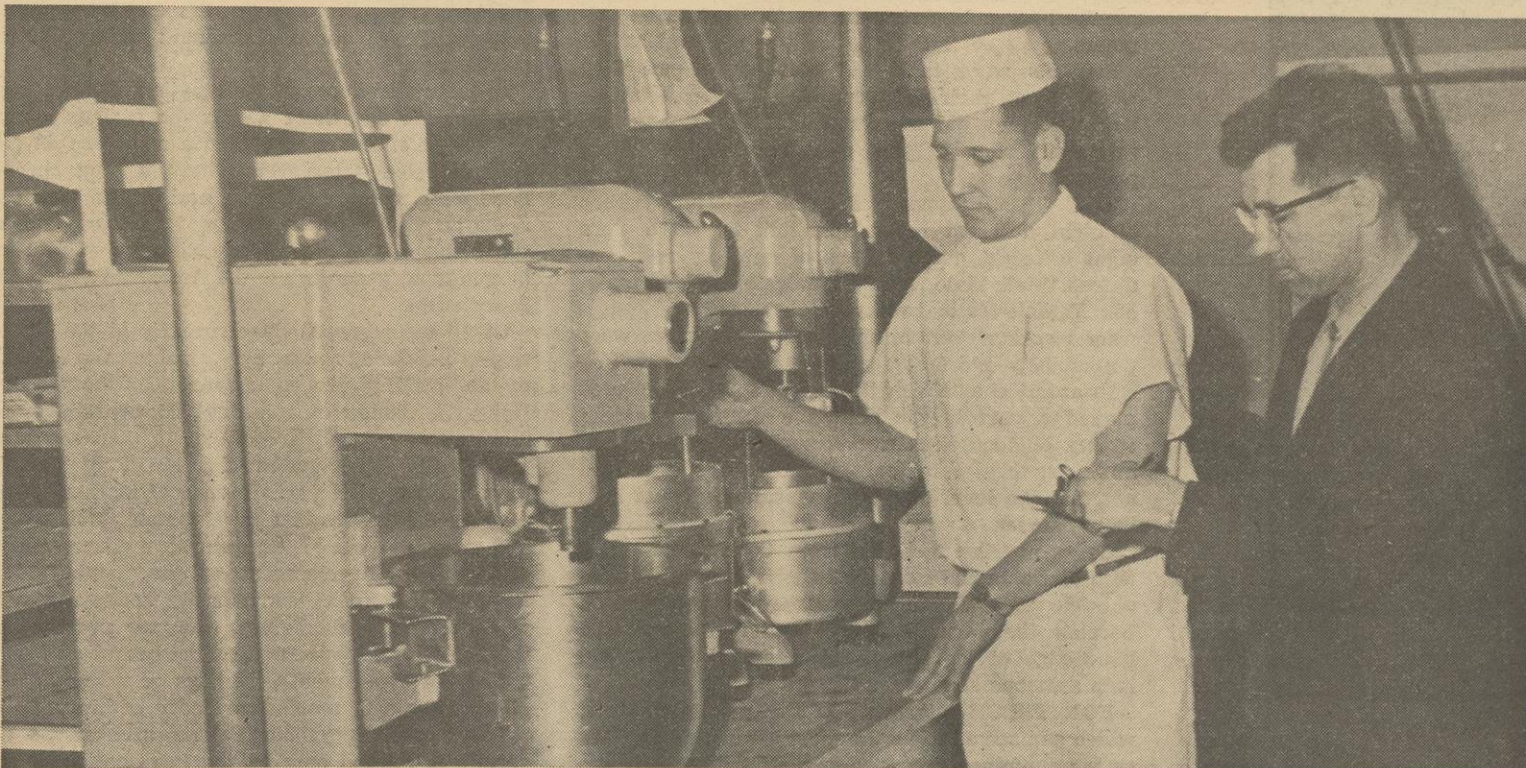
Researchers have injected chemicals into trees that will kill the elm bark beetle. Under the direction of Prof. Dale Norris, entomology, College of Agriculture scientists have been trying to iron out the problems connected with the chemical. The largest problem, says Norris, is that all the materials tested may be toxic to certain elm trees. Incorrect dosage may make a tree drop all its foliage, and even kill the tree within a few weeks after injection.

BUT WITH the chemicals killing the beetles within one day after injection, the researchers are hopeful that this valuable control will be made practical before the beetles win the war.

While the laboratories are using the midnight burners seven nights a week, rural sociologists are canvassing the countryside for answers to the mysteries of population trends that affect both rural and urban society.

Members of the rural sociology department, under the direction of Prof. D. G. Marshall, have been looking into the growth of the Wisconsin village in relation to the metropolitan urban area. Rural sociologists found that the village in Wisconsin is not dying, as many people believe, but are holding their own or gaining in size. Head of this study was Prof. Glenn Fuguitt.

In the College of Agriculture more is going on than meets the eye. Whether it be in poultry (the development of new feeds) or agricultural journalism (readership studies for farm journalists) research knows no limits, and the University's College of Agriculture is one of the leaders in the world of agriculture.



AG RESEARCH—Dairy and food industry researchers are testing the affect of non-fat dry milk in the use of breadmaking. James Seibel, research assistant, adds a measured amount of dry milk to the batter while assistant agriculture experiment station editor Douglas Sorenson from the ag journalism department takes notes on the process. An important aspect of University agricultural research is getting news of latest scientific developments to the farmer and agriculture industry. This is the job of the experiment station reporter.

The Research Vacuum i

By ROBERT J. LAMPMAN
Professor of Economics

President Johnson has placed the elimination of poverty on the national agenda. The Congress has asserted a role for the Federal government by passing the Economic Opportunity Act. This 1964 legislation, because it takes the government into new responsibilities, has historic importance not unlike that of the Social Security Act of 1935 and the Employment Act of 1946.

The first year's expenditures under the Act will be about three-quarters of a billion dollars; they will reach close to half a million individuals, mainly young people, and will affect many more indirectly through "community-action programs" initiated by state and local groups.

It is expected that the job-corps, work-study, work-training, community-action, and other programs of the Economic Opportunity Act will be expanded in the future. And it is also to be expected that the nation's interest in speeding up the rate at which poverty is being eliminated will lead to a continuing search for other ways to achieve the goal.

UNIVERSITY PEOPLE PURSUE NATIONAL GOAL
It is consistent with our national traditions that univer-

sity people—faculty and students—will be active participants in pursuit of this goal. This may mean that students join Volunteers in Service to America (VISTA) or that faculty members participate in training counselors for job-corps centers. Some students may do term papers or dissertations on specific aspects of the nation's poverty problem. And some faculty members may undertake reviews to assess what contributions their specific academic disciplines can make to deeper understanding of this social issue.

Universities are uniquely concerned with ideas and with methods to test ideas. Surely, there is a need for this concern to be brought to bear on all types of issues. The university can play a role in a "war on poverty" just as it has in other wars. This concern with ideas will take us into a critical look at the problem of poverty and of ways to solve it.

Thanks to research that has been carried out in the past, we know a good deal about who the poor in contemporary America and how they differ from the non-poor. We also know that the absolute number and percentage of people below a fixed poverty-income line has been declining during the post-war years. It is plausible that this number will



PROF. ROBERT J. L.

By MARCELLO NATHAN
Cardinal Staff Writer

Man is constantly curious about himself and his environment. He seeks the whys of nature out in endless areas of investigation, and in searching for the answer to himself, to his own mind, he has developed Psychology.

Within the Psychology Department here at the University research continues into the many areas that subdivide the general name "Psychology." The specialized fields are many: clinical, social, physiological, and many more, all delving into the mind of man.

ALL OF PSYCHOLOGY'S subdivisions are however, united in one encompassing cause, "to endeavor to understand human behavior in all its fascites."

To pursue this end the psychologist must engage in research, and in their new home at Johnson and Charter Streets, a far cry from the days at 600 N. Park, the University's psychologists dive into research head first.

IN ORDER to give the reader a better idea of exactly how this research is gone about, let us take a long look at one of the dozens upon dozens of experiments that go on in an endless procession at the psychology department.

This experiment was designed and carried out by an undergraduate in conjunction with research done by Prof. Lenard Berkowitz's work on social responsibility, and it attempts to explore the altruistic nature of man.

The particular question posed was, "whether men or women tend to help others more." It was carried out using University students in beginning psychology courses as subjects.

THE SUBJECTS were run through the experiment four at a time; each one was put in a small sound-proof, air conditioned room and told that they had a relatively simple task to perform.

They were also told that they had a partner, and that if they did their task well their partner would receive extra experimental points. In case you are not familiar with experimental points, every student in a beginning psychology course needs some in order to pass the course, and the points are received for acting as subjects for various experiments.

Subjects were then told whether or not they would meet their partner after the experiment, however, they did not know how much they had to do in order to give their partner the added points.

THE GROUP types within the experiment were of eight different make ups, that is, there were eight different combinations of subjects and conditions. Male-Male, Male-Female, Female-Female, and Female-Male; twenty of each of these groups were run, however, in only half of the cases were the subjects told that they were later to meet.

In order to establish the extent to which chance played a part in the results a control group of twenty students was run through the experiment, however, they were told only to do the task, and not that the level of their performance could help their partner.

By comparing the data from the control group with that obtained from the experiment itself it was possible to estimate the validity of the results, because the variable factor in the data was the knowledge of the actual subjects that they could help someone else.

FOR THOSE interested in the results, that is, which sex seems to be the most altruistic, the data so far examined seems to suggest that only in the case where two females were partners was there any sizable variance in the results, and the variance seems to show that females tend not to help their own sex as much as they help males, or as much

as males help both sexes.

This is only one of countless experiments that go on everyday of every year in the Psychology Department.

Up on the sixth floor of the Psychology Building in the research area, and from a rough estimate given by one professor the building devotes almost 60% of its area to research facilities, is a large room full of subjects waiting patiently in their cages; these are the researchers friends, the white rat, and the white rabbit.

THEIR CONTRIBUTIONS to science have been many, and now they sit in row upon row of stainless steel cages waiting for a call from downstairs. Animals are as important to psychology research as people, for their relatively naive minds are more easily adapted to the psychologists needs than the complicated and exposed minds of human beings.

Although some people scoff at the use of lower animals for the investigation of the human mind it has been well established that many phenomena appearing in rats, or monkeys also appear in man.

One of the experiments now going on using rats is under the direction of Prof. Richard Keesey, and is studying the workings of the central nervous system as they relate to reward and motivation. To study this question graduate students working with Keesey use rats which receive electrical stimulation through electrodes planted in their brain.

THE RATE at which the rat learns, and reacts in conjunction with the amount of stimulation he receives and the exact area of the brain into which this stimulation introduced will, hopefully, supply data which will lead to a better understanding of the motivation and reward mechanism of both the rat and, more importantly, man.

The research facilities themselves, are extensive but extremely flexible. The Psychology Building opened this fall at an estimated cost of three million dollars, and is equipped with the latest in both teaching and research facilities.

The lecture halls are all equipped with television receivers, as part of a closed circuit system to give the student a camera eye view of experiments, that until now could not be effectively demonstrated in a class of two or three hundred. The system is not yet in operation, because they haven't got a camera yet; "but," say those who should know, "it won't belong now."

In the upper floors of the building, that is, floors two through six, there awaits the curious a large number of offices, and behind a door, one on each floor, labeled "Research Wing" a long corridor lined with rooms, both little and big, in which the research that helped make our Psychology Department one of the leading contributors of research information, according to the American Psychology Association.

Of all the research done recently at the University in psychology none has attracted the attention of the world in general as much as that of Prof. Harry F. Harlow on maternal deprivation among monkeys.

HARLOW investigated the effect of bringing up a monkey with various sorts of mothers on the monkey's psychological development. Using cloth, and wire, as well as natural mothers Harlow checked the development of the monkeys, and found, so I'm told, "some pretty kooky monkeys" when the natural mother was not present. But this is, we emphasize again, just one of an infinite variety of experiments. Famous or unknown, they all contribute to man's knowledge of himself.

The scope of psychological research at the University is limited only by the imagination of man and the restrictions of a budget. With its new research and teaching facilities now in operation the Psychology Department will delve ever deeper into the mind of man.

Psychologists Delve

Into Altruistic Nature

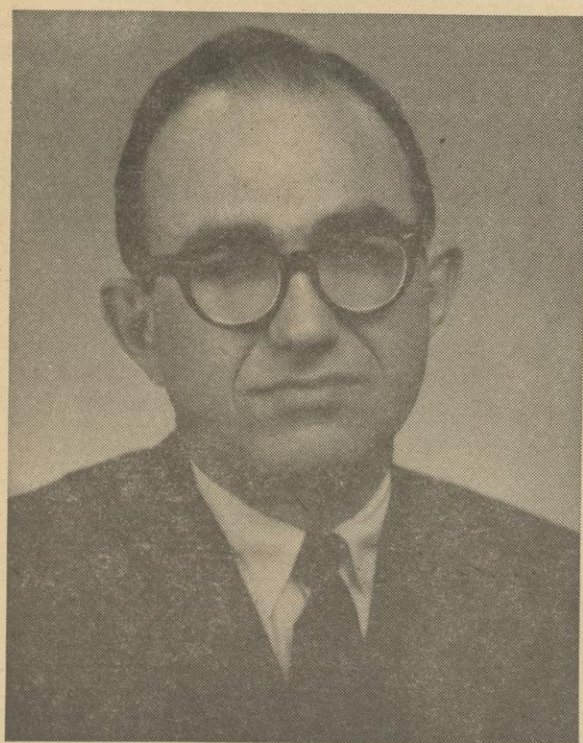
Of Man . . . And Woman

A New Three Million Dollar

Structure Has Everything

From Televised Experiments To

An Anacoide Chamber



PROF. BERNARD BERKOWITZ

in the War on Poverty



E. J. LAMPMAN

continue to decline barring a major reversal in the economy or in social policies.

REAL QUESTION IS RATE OF DECLINE

Hence, the real question is, how fast a decline can be or will be engineered in the next decade? From a knowledge of who the poor are we can deduce something about how they got that way.

For many people, their poverty may be said to arise out of chance events, like being born to poor parents (over a third of the 35 million poor are children) or premature death (a quarter of poor families are headed by women). The poverty of another group may be explained by social barriers of caste, class, or custom which restrict opportunities or information about opportunities (a fifth of the poor are non-white).

For others, poverty would appear to be casually related to limitations, either innate or acquired, of ability or motivation (two-thirds of poor family heads have eight grades or less of schooling.) There is evidence for believing that some events, barriers, and limitations that cause poverty can be favorably affected by policy.

School of Education

100 Projects in Progress

By NINA SHULMAN
Cardinal Staff Writer

In the 1950's the field of education research at the University began its phenomenal growth. It has since increased tremendously, making this one of the country's leading institutions in education experimentation.

Within the last decade, ten million dollars has been spent on research program experimentation. This year over four million dollars is available for the support of the multitude of projects now being carried on in the various departments. This money is derived largely from federal funds and private grants, plus a small amount of state funds.

AT PRESENT over one hundred projects or experimental programs are being conducted in the School of Education. The reorganization of the school, which took place this year, permits its subsidiary departments to work as interdisciplinary units.

One of the most notable of these is the Wisconsin Improvement Program, directed by John Guy Fowlkes, and now in its fifth year. Its purpose is to improve the quality of teachers and of teacher training practices. A major part of its work is the Teacher Internship Program, which has proven to be a very effective method of training. It is carried out in co-operation with state colleges in River Falls, Whitewater, Eau Claire, Beloit, and Menomonie.

UNDER the program, a prospective teacher works in a school district in Wisconsin as a member of a teaching team, and lives in the community. He receives \$1,200 for one semester. Participation in this program may substitute for certain courses that the intern would otherwise have to take. This year 300 students are taking part in the program. Most are graduate students, but there are some undergraduates.

Dean Bob Brown's Teacher Competence Study will be the first major research aimed at testing some of the recommendations of James B. Conant, leading education expert and former president of Harvard University. Researchers in this study will concentrate on the judges of teacher competence and on the factors which influence their valuations.

An instrument of international advancement in education is the Wisconsin in Northern Nigeria Teaching Program, co-ordinated on campus by Prof. M. Vere DeVault. The government of Northern Nigeria and the Ford Foundation support this program, which involves the greatest expense of all current projects.

IN JANUARY, some thirty-odd professional people and a sup-

porting staff will go to Nigeria to help develop teacher training programs there. Many members of this working staff are from Wisconsin public schools. Team teaching and the use of audio-visual equipment are among the new methods they will introduce.

The Research and Guidance Laboratory for Superior Students, directed by Professor John Rothney, provides a research and service program designed to assist anyone interested in the discovery and guidance of high school students who exhibit superior performance in any area. About seventy-five high schools from all over the state have participated in the program, as well as some 2,000 students from 8 through 12 who have been sent to the laboratory.

IMPROVEMENT of the efficiency of learning by children in schools is the main objective of the Research and Development Center for Learning and Re-education, directed by Dean Lindley Stiles and Prof. Herbert Klausmeier. One of several national centers supported by the U. S. Office of Education, it serves also to re-educate adults and the culturally deprived.

In investigating how learning takes place, the Center employs systematic basic and applied research, utilizing the resources of the University, the elementary and secondary schools, and other educational agencies. It brings together subject matter, people and education professors so that they may do research on the learning of school subjects.

The Center's staff includes thirty-six research and development associates, project assistants, research assistants and visiting

scholars, twenty part-time professors from various departments of the University, and a secretarial staff.

THE CENTER for Behavioral Disabilities, directed by Prof. Rick Heber, was established this year. Its major purposes are to provide professional preparation and in-service training opportunities for people who want to specialize in mental retardation problems, to serve as a forum for the exchange of ideas on special problems of retardation, and to bridge the gap between research and the practical application of research. This regional Center, which draws researchers and consultants from many areas is supported by the Vocational Rehabilitation Administration.

Other experiments now being conducted include Research in Basic Skills, Laboratory Schools, Vocational Rehabilitation, a study of scientific literacy in the aerospace age (under the Department of Curriculum and Instruction), compilation of an encyclopedia of sports medicine, (Department of Men's Physical Education), the application of programmed learning to Braille instruction, learning in mentally retarded children (both of these are in the Department of Counseling and Behavioral Studies), and occupational careers of non-college bound youth (under the Department of Educational Psychology).

Although there has been an enormous increase in education research in recent years, the field is still young and an even Judging from its present high status and activity-rate, it appears likely that the University will remain in the forefront of this vital area of experimentation.

MORE RESEARCH NEEDED

However, there are numerous questions on which much more thoughtful consideration and research are needed. In some cases, the research that will be most fruitful is of that of the participant-observer; in other cases, the detached scholar can provide the more valuable insights.

At this point there is still a search for consensus on refining the definition of poverty, the distance we are from the goal, and ways to measure progress toward the goal. More fundamentally, there is controversy over the causes of poverty and remedies for it in today's affluent society.

• Why does there have to be any poverty in the richest nation in the world?

• Will the problem require a generation or more for ultimate solution?

• Does poverty break down into a variety of more or less un-related problems, each having its own discrete causes and remedies?

• Will general, nationwide programs be more or less effective than particularized, local efforts?

• Would paying a minimum income to all persons in poverty be more or less efficacious than putting equivalent funds into educational and training programs?

• How relevant to the reduction of poverty is a large-scale effort at urban renewal?

• Do our present methods of administering relief and assistance benefits solve or compound the problems of poverty?

• What contribution to the goal would be made by provision of better health care?

• How can groups of poor people be mobilized to assist in a campaign against the causes of their own poverty?

Research is needed on all these questions of refinement of the goal and on causes and cures. It is the case with elimination of poverty, as it is with every broad social goal, that no single academic discipline has an exclusive interest.

PROBLEM ATTRACTS LITTLE ATTENTION

But it is also the case that the problem of poverty has attracted little attention from any discipline. It has been everybody's business but nobody's business, so to speak. Hence, there is a great research vacuum to be filled by economists, sociologists, social workers, educators, legal scholars, those in medicine, home economics, political science, urban planning, and still other fields.

Scholarly inquiry can point to successful and unsuccessful efforts in the prevention, rehabilitation, and alleviation of poverty. It can identify unmet needs and mark social policies which stand in the way of poverty-elimination.

Such research can help private individuals and voluntary groups as well as governmental agencies to select the roles they will play in the national effort to reduce poverty.

Not least important is the impact research into poverty problems and the accompanying changes in the content of courses will have on undergraduates, challenging them to devote part of their energies as professionals and as citizens to service in a successful war on poverty.

The author is professor of economics at the University. He has undertaken several studies on the distribution of wealth and income and has taught courses which relate to poverty problems. During 1962-1964, while a staff member and consultant to the President's Council of Economic Advisers, he participated in intra-governmental studies which formed the background for the Administration's anti-poverty emphasis.



FOREIGN EDUCATORS—Pierre Legai, left, serves as an interpreter from the State Department for a party of seven Congolese principles who visited the University and toured schools in this country.

WELL ARMED FOR CANCER WARFARE

By STU CHAPMAN
Contributing Editor

Pioneered by white frocked and scholarly teams of research technicians, man's tireless battle against Cancer is advancing at the University's McArdle Laboratory.

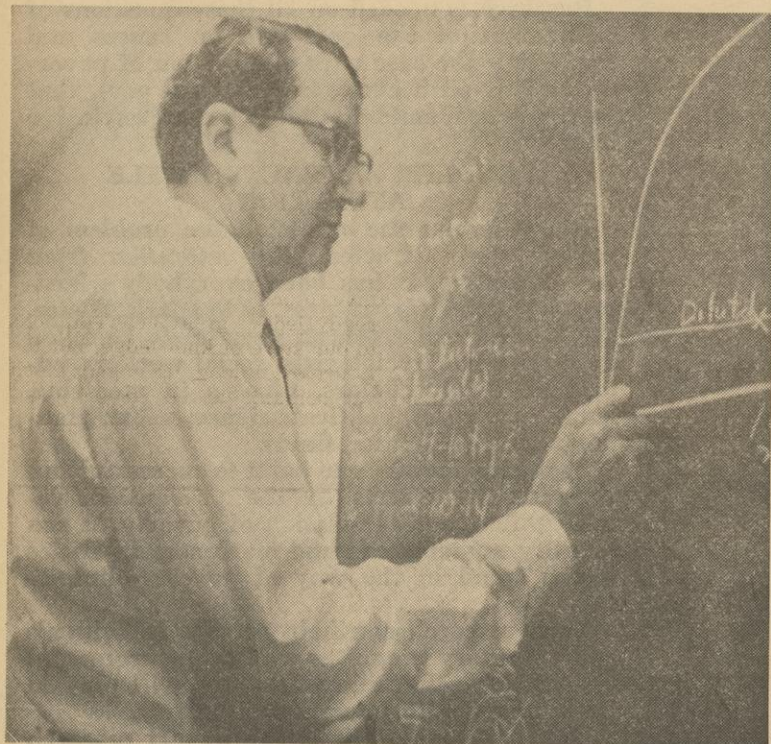
The frontier is progressing on a microscopic battlefield, but the financial support for the war is massive and usually comes from the Federal government which pours millions of dollars into similar research programs around the country.

WHEN MCARDLE opened last year it was hailed as one of the most well equipped and staffed Cancer research facilities in the world. It is the hub and focal point of University medical research which draws hundreds of people to Madison.

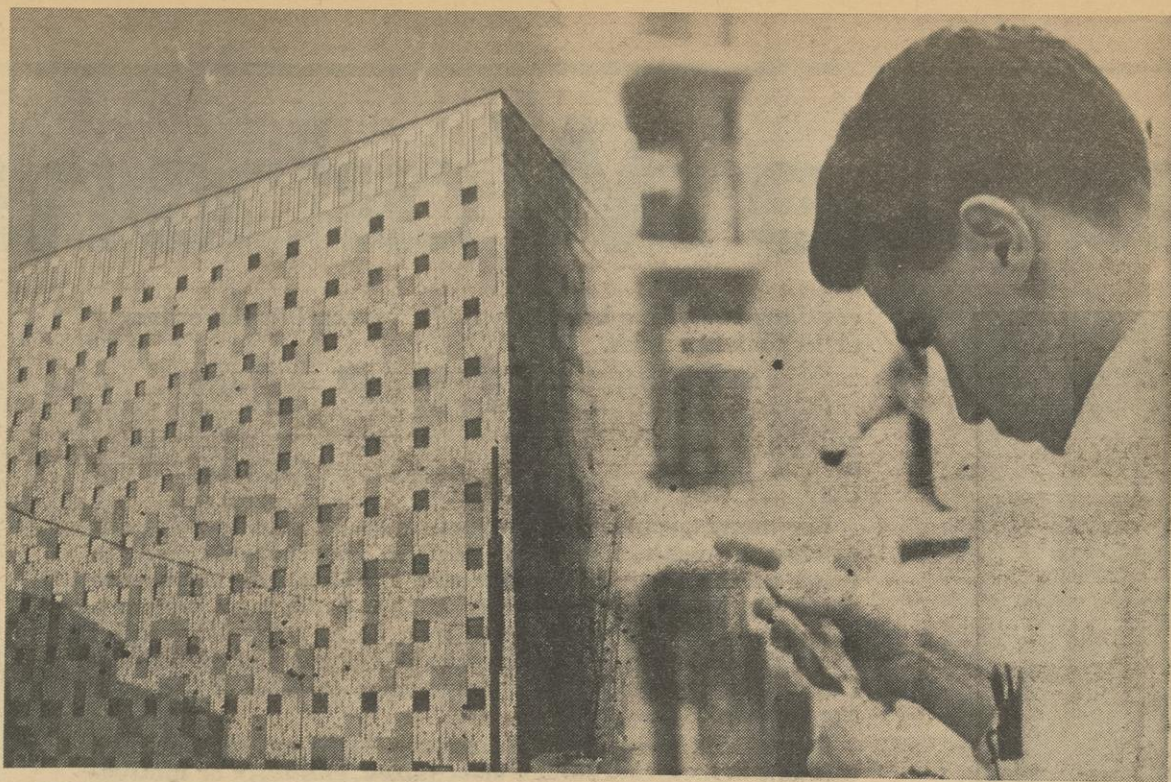
Whereas Cancer research dominates University medical research as the huge McArdle building does the campus skyline, there are scores of projects flourishing in the 20 departments of the Medical school.

The University is renowned for the work it's now doing in cardiovascular, neuro-physiology, enzymatic, and medical genetic research.

YET THE KUDOS conferred upon the University as some scientist forges a medical breakthrough could not have gotten past the planning



CAPTAIN—At home with his work Van R. Potter, oncology, displays some of the work which he conducts in his work on enzymatic control mechanisms at the McArdle Laboratory. Potter is one of the "captains" of the nearly 100 research technicians working at McArdle.



WELL EQUIPPED—When the new \$11.5 million cancer research center, known as the McArdle Laboratory, opened last year it was hailed as one of the best equipped and staffed cancer research centers in the world.

stage if not for a host of Federal agencies. They are granting increasing proportions of University research money.

Ten years ago these Federal agencies supplied 4.8 per cent of the money used in medical research projects on the Madison campus. Today they supply 51.8 per cent.

The increase in grants has swamped the Medical school business office which has had to revamp its filing system and institute machine-run classification and recordings of grants.

Most of the money comes from the National Institutes of Health (NIH), but among the major contributions are the department of Health Education and Welfare (HEW), the Atomic Energy Commission (AEC), the National Science Foundation (NSF), the Army, Navy and Air Force, the Vocational Rehabilitation Administration (VRA) and the Federal Aviation Agency (FAA).

BUT BEFORE the first test tube can be filled, an application must funnel through a bureaucracy which often receives many similar requests.

A project can run a maximum of seven years, at which time the applicant can re-apply for a continuing grant. In addition, a doctor may apply for a supplemental grant which provides more funds for the project he has started.

The grant not only provides money for the research project itself. It pays for a variety of expenses, including salary, consultant services, equipment, supplies, travel, domestic and foreign, hospitalization—for treatment of patients used, outpatient costs, alterations and renovations of buildings, and publications costs.

THE BURDEN of financial support has clearly shifted from the state to the Federal government during the last ten years. The state now provides 36.7 per cent of medical research money, whereas in 1951-52 it shouldered 75.8 per cent.

The increasing number of Federal grants has enabled the University's Cancer research department, directed by Dr. Harold P. Rusch, to grow by leaps and bounds. Nearly 100 research technicians

are working in the McArdle Laboratory and one of the "captains" of McArdle is Dr. Van R. Potter, who specializes in enzymatic control mechanisms.

Potter occupies a cubby hole like office on McArdle's second floor. Spiraling like a paper accordion near his desk is a DNA molecular molecule which he has devised.

DNA, or deoxyribonucleic acid is regarded as the fundamental substance of an organism and is contained in human chromosomes.

"When a DNA strand is altered," Dr. Potter said, "The control of the growth of cells could also be altered. This feedback of cells is one the biggest problems in Cancer and we are trying to find out if Cancer is at the gene level."

"We have isolated Cancer cells which were caused by the virus but which no longer contained the virus. They had some DNA in them, however, and the viral information apparently was stored," he added.

"THE DNA molecule is a complex substance. It consists of chain-like structures of five carbon sugars and phosphate with certain nitrogen-containing ring structures attached to the sugar molecule. These carbon-nitrogen rings, called bases, contain the information for the growth of cells," he said.

Dr. Potter roughly chalked a representation of a DNA molecule, using the letters AGCT to stand for the bases—the controllers of cell growth. He said that when the sequence of the bases is distributed, the growth may become uncontrolled, and a Cancer, of which there are many variations, results.

"There are two DNA strands in one chromosome," he continued. "They're complimentary and have to fit each other. You can see why much of genetic research is connected with the work we are doing here."

"THE DNA strands also influence the proteins which give the body its basic structure. Each protein has its own action which controls certain processes," he clarified.

"As far as a cure for Cancer is concerned, there have been several chemo-therapeutic methods that have been effective. In this case, a chemical is used to knock out the proteins that are misbehaving. There is already a long list of chemo-therapeutic aids for Cancer."

"But if the DNA is found altered, then this lends support to the idea that even greater effort should be made to prevent the "messing up" of the DNA structure," he said.

THESE EFFORTS could mean educating the public on the dangers of cigarette smoking, which he said some people believe increases the risk of altering DNA.

Yet finding an altered DNA strand is "like looking for a needle in a haystack" said Dr. Potter. This is because each cell contains 450,000 DNA molecules.

Yet Dr. Potter said he was encouraged by the strides McArdle has been making in the past few weeks, and emphasized that Medical school departments are increasingly "pooling" their efforts in the battle to find a cure.

But as in all fields of research, the McArdle technicians are continually experimenting, probing, searching for the answer which will finally solve the Cancer riddle.

WARF: Who or What Is It?

By GENE WELLS
News Editor

The first major discovery arising from University research lead not only to an improvement in human health, but also to an entirely new method of financing research at the University.

The discovery, made by Prof. Harry Steenbock, was a method of irradiating food to provide vitamin D and prevent rickets. Rickets, a disease of infancy and early childhood, which impairs the normal development of growing bones, is caused by a vitamin deficiency.

WHEN Steenbock applied for a patent for the discovery in 1925 controversy arose concerning whether University professors should accept royalties from patents. Steenbock feared that if professors were allowed to accept royalties, they would tend to neglect fundamental research which could not provide immediate financial rewards.

Four alternatives were open to Steenbock: he could publish the results of his research and receive book royalties; he could sell the patent to a commercial concern; he could turn the patent over to the University; or

he could work for the creation of a foundation to handle patents and turn over the proceeds to the University.

Steenbock chose the fourth alternative. He envisioned the proposed foundation as a non-profit trust to be run by friends of the University who were not involved with the academic work of the school.

THE PROPOSED foundation, Steenbock said, would make the discoveries resulting from University research available to the world, would finance future research by charging fees for commercial use of discoveries, and would free University scientists from business dealings connected with their discoveries.

The proposal resulted in the establishment of the Wisconsin Alumni Research Foundation, which was chartered on Nov. 14, 1925.

The foundation operates as follows: The cost of the patent application for a new invention or discovery is paid by the foundation. This cost is repaid to the foundation from the fees paid for commercial use of the discovery. Fifteen per cent of the remaining proceeds are given to the innovator of the discovery or invention, and the other 85 per cent is invested.

THE PROFITS made from patents and investments is given to the University in the form of annual grants to finance future research. By 1961, the annual grant had reached \$1,300,000.

The major portion of the foundation's income now comes from investments.

The only limitation set up by the foundation on the use of funds for research was that the research had to be in the natural sciences. However, the program was expanded in 1957 to include research in the humanities and social sciences.

MANY important discoveries have since been handled by the foundation. Among them are the discoveries of Dicumarol and the cause and cure of Pellagra.

Dicumarol was discovered by Dr. Karl Paul Link, and is now used universally in the treatment of coronary heart attacks.

The discovery that Pellagra, a disease caused by a faulty diet, is caused by deficiency of the vitamin niacin was made by Conrad A. Elvehjem, who served as president of the University from 1958 until his death in the summer of 1962.

Space Age Challenges University Scientists

By ALAN RUBIN
News Editor

Of all the many advances of the present research-explosion, none have caught the public imagination more than the achievements in space. It was the launching, in 1957, of Sputnik that made America's science conscious to a degree never before experienced.

Since that time space probes and satellites have remained the most spectacular evidence of the great scientific strides being undertaken.

UNIVERSITY Scientists have joined with those elsewhere in the effort to find out more about the newest frontier. Several of the major satellites and probes have utilized personnel and instrumentation from the University. At least three major contemporary space projects are being made operational by University researchers.

One major focus of space research on campus is in the Astronomy Laboratory. Under the direction of Dr. Theodore Houck the astronomers are studying the ultra-violet radiation is very "hot" stars.

By studying the ultra-violet light of these stars, which are the fastest evolving stars, the scientists hope to find out much about their chemical composition and their life history.

PREVIOUSLY LITTLE has been known about this area of research so, as Dr. Donald Taylor, Astronomer, said, "We are not really sure what we're going to see, so we don't know what to look for."

However, he continued, a test probe with an Aerobee rocket revealed a strange dip in the spectrum of light from these stars. This may indicate a chemical anomaly that has not been noticed on earth.

Taylor cautions that it is still too early to make any predictions, but hopes that the research now being planned will add significantly to our knowledge.

STUDY OF THESE fast-evolving stars may give insight into the history of our own solar system and into the origins of life. Taylor asserts that particles of energy that originated in a "hot star" may make up the cells of everyone of us.

Two projects are being developed to study this ultra-violet radiation. The first consists of a series of flights to the edge of space by the X-15. This aircraft travels at high speeds and to great altitudes (up to about 250,000 feet) to conduct research above the hindrance of the earth's lower atmosphere.

The University's project consists of a series of at least four flights by the X-15, the first of which is scheduled for January 12. On these flights, each lasting about ten minutes, pictures will be taken of small sections of the northern Milky Way which contains a high concentration of hot stars.

THESE "PICTURES" will show the ultra-violet spectrum of the star. Scientists, analysing these spectra will be able to discover the chemical composition of the stars.

Taylor described three factors which made it important to have these pictures taken as high as possible:

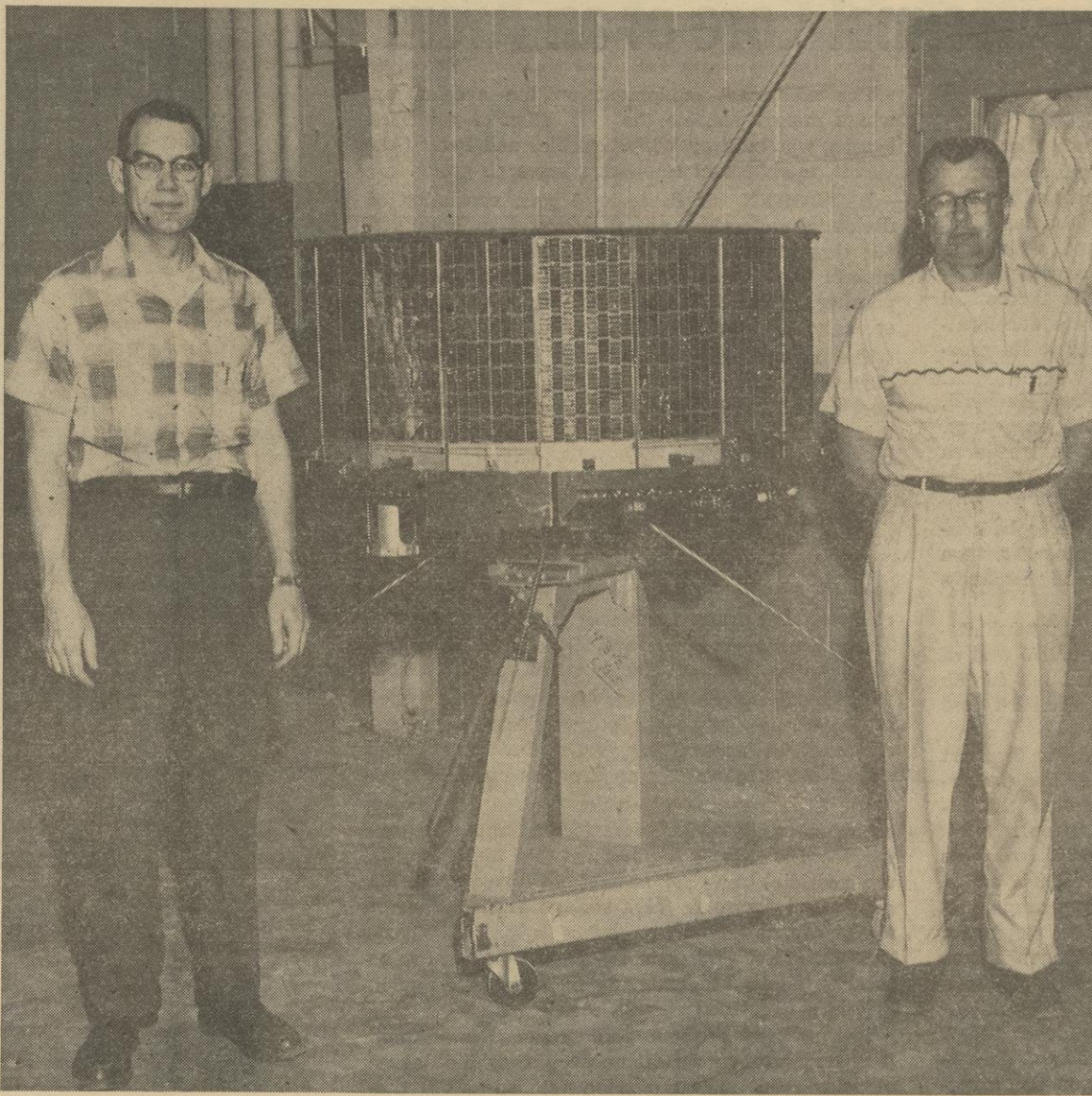
- the atmosphere absorbs many of the light waves that form the ultra-violet portion of the spectrum making it impossible to study them from earth;

- the atmosphere is very turbulent and makes it difficult to get a clear picture;

- even at night the atmosphere contains too much excess light which interferes with the photography.

"**THE HIGHER** you get," he elaborated, "the more you can see." We hope to go higher than the planned 250,000 foot ceiling on later flights, but as of now they don't know the limits of the X-15."

Four Nikon cameras located behind the cockpit will take the



SATELLITES—Having helped develop some of the instrumental portions of this weather satellite, Prof. Robert Parent, electrical engineering, (left) and his assistant, Harry Miller, stand by for action.

pictures. The negatives will be sent immediately to the University where they will be developed and analyzed.

A second-laboratory project centers around the Orbiting Astronomical Observatory (OAO). This satellite, being built by Cook Electronics of Chicago, is being shared by the Smithsonian Institution and the University.

PRESENT PLANS call for a launching from Cape Kennedy early in 1966 on an Atlas Agena D rocket. Dr. John McNall, Astronomy and numerical analysis, described this satellite as "a step further" than the X-15 experiment.

Much larger areas of the sky, including more stars, will be under observation for longer times, since this system will be subject to ground control it will be far more versatile than earlier experiments. Six telescopes, including four eight-inch stellar photometers and two spectrometers, will be used to study the stars. Information will be stored in on-board computers and transmitted, on command to earth.

These projects and others supported by the laboratory are financed from contracts with the National Aeronautics and Space Administration (NASA). Elton Waak, administrator of the laboratory, mention two types of financing.

THE FIRST IS a yearly research grant from NASA for general studies in the ultra-violet. This finances the X-15 work. A second, and much larger, contract is for the instrumenting and equipping of the OAO. Waak estimates that three million dollars has been received thus far for this work.

Future plans include manned observatories when, according to Taylor "there are enough to go around." A manned observatory would have many advantages over the present systems, because only a man can replace a worn-out transmitter and keep the system in working order.

SPACE ASTRONOMY is not the only area of research that interests University scientists. Much of the work on weather satellites was done by University personnel Prof. Verner Suomi, meteorology, and Prof. Robert Parent, electrical

engineering, helped develop some of the instrumental portions of the Tiros III, IV, and VII weather satellites; and are now working on its successor—the Tiros Operational Satellite (TOS).

Their experiments are designed to measure the thermal-radiation balance of the earth. To do this they must measure the incoming solar radiation, the solar radiation reflected from the earth as a warm body.

Parent pointed out that all the radiation from the earth originated in the Sun, but that some of it is trapped and only escapes gradually. He said that the earth's radiation is measured by long-wave (infra-red) radiation, while the solar radiation is short-wave. This enables the instruments in the satellites to differentiate between the two.

CLOUDS INTERFERE with the radiation from the earth, thus the wave-length pattern recorded by the satellite clearly shows the cloudy areas, which indicate bad weather. Computers turn this information into highly accurate and large scale weather maps.

Two types of radiometers, which measure the solar and reflected radiation, are the University contributions to the satellites instrumentation. They are mounted on the outside of the satellite.

They feed their information into computers inside the satellite which report the accumulated information to the control center approximately once every 100 minute orbit. This information is then sent to the University for analysis.

TELEVISION CAMERAS and a scanning radiometer are also on the satellite, but these are only useful during the daytime. The University's systems however operate all hours. The accumulated information from all these systems, in addition to information gathered by more conventional methods, will lead to more accurate weather forecasting.

The satellites will also allow long-range studies of worldwide weather patterns that could answer many problems that have been besetting meteorologists.

Dry spells and heavy rain periods may be studied so that ways of minimizing their effects can

be found.

THE PRESENT system is not being used for actual weather forecasting because the satellites

cover only a limited portion of the Earth's surface—the weather-making Poles are not studied. In addition, the long-period between the actual photography and the final analysis precludes any practical use of the information gathered.

TOS has been designed, when completed to put the knowledge gained in the experimental Tiros into use in forecasting the weather. This system will follow a polar orbit and will therefore be able to give a weather picture of the entire earth.

Information gathered and analysis will be much faster in the new project, so that the satellite-made weather maps will be available to meteorologists within hours of the original photography.

ANOTHER DEFECT of the original Tiros has been corrected on this new model. The original was so constructed that the cameras were unable to focus on the Earth for a portion of the orbit. However the new system is of a cartwheel design that will keep the cameras always directed on the Earth.

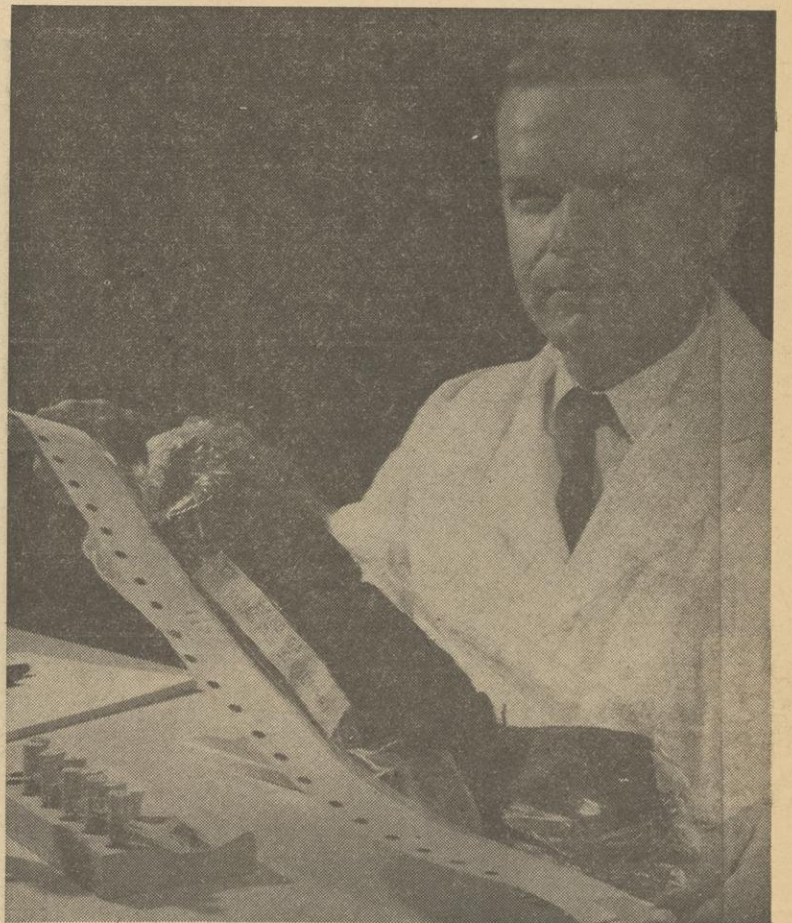
An earlier experiment on Explorer VII was the prototype for these projects. Future plans are uncertain, but a "storm-control" satellite is being discussed. This would be a satellite that remained stationary in space as the Earth moved under it.

Parent said that this idea "has many interesting possibilities, but presents plans are too uncertain to discuss them."

HE FEELS THAT the initiative for these projects comes equally from the government and the University scientists.

This combination of the best brains of our government and our institutions of learning has already led to great new additions to our store of knowledge, but the future is a long time and much yet remains to be known about that endless realm called space.

New Geology Tool: Fossil Pollens



WAY BACK WHEN—An estimated 50 million pollen grains locked in these Rocky Mountain peat chunks which Prof. Louis Maher is examining, are helping the University palynologist to ferret out secrets of the earth's geological past. The chunks are part of a peatbog coring representing 5,000 years of sediments. Palynology, Maher explains, is the study of recent and fossil pollens, the dust-like substances essential to the reproduction of the flowers and lower plants. By a strange quirk of nature, the walls of the microscopic pollen grains can remain intact within sediments for as much as 400 million years, their own type markings still identifiable. Thus the tiny fossils are clues to the natural worlds that once existed.

Physicists Utilize Multi-Ton Accelerator To Explore Infinitesimal Core of an Atom

By KEN RUBENSTEIN
Cardinal Staff Writer

While it might seem at first glance that pure theoretical research is merely science for science's sake, it should be pointed out that most of applied science owes its progress to the theoretician.

Einstein, Plauk, Schroedinger, and their contemporaries didn't concern themselves with finding applications for their theories. Yet the theoretical foundations laid by these scientists have accelerated the growth of the physical sciences to its present explosive condition.

TO THEM, AND indeed men like Prof. Haeberli, physics, we owe our space travel and computers. Much of the expansion of the medical research owes to the firm theoretical foundation which we inherit from these men.

In short, if scientific advancement is to be considered an important part of social progress, then the theoretician must be counted among society's most valuable members.

Exploring the nucleus of the atom—that infinitesimal, elusive core of the elements—is the aim of the theoretical research being carried out in the University Physics Department by Haeberli and his students.

The University group has produced for the first time beams of highly polarized protons and deuterons (the nuclei of hydrogen and deuterium, the latter containing one proton and one neutron).

ATOMIC NUCLEI, such as those of hydrogen and deuterium possess a property which is called spin. That is, they exhibit angular momentum and may be thought of, grossly, as tiny balls spinning on their central axes. Normally hydrogen atoms would have randomly oriented spins—half clockwise and half counter-clockwise.

Haeberli and his co-workers have developed a process for producing beams of protons and deuterons in which most of the nuclei spin in one direction, i.e. polarized beams.

Physicists have sought to study these for several years in order to extend the knowledge of nuclear properties and the spin dependence of interactions between nuclei.

IN PRODUCING these beams, the University physicists make use of a tandem-style Van de Graaf accelerator. The device, which may be used as an "atom smasher," is capable of accelerating protons to energies of 14 million electron-volts (mev).

The Van de Graaf was presented to the University in 1959 by the Atomic Energy Commission in recognition of previous work by University Profs. R.G. Herb, H.H. Barshcall, W. Haeberli, and H.T. Richards. The \$1,050,000 accelerator occupies specially built underground quarters between Sterling and Birge Halls.

The additional equipment on the accelerator, which makes possible the generation of polarized beams, was built by Willy Gruebler and Peter Schwandt, members of Haeberli's research group.

HYDROGEN (or deuterium) gas, consisting of diatomic molecules, are dissociated to hydrogen (or deuterium) atoms in a discharge tube. The atomic beam is polarized (spins are aligned) by passing it through a one meter long magnet with a strongly inhomogeneous magnetic field.

The now-polarized atoms are bombarded with electrons and become protons. The protons are then accelerated to 50,000 volts and passed through a thin carbon foil. They emerge as a beam of negative ions.

The negative ion beam is then injected into the particle accelerator, the center of which is set at voltages between plus 1 and plus 7 million volts.

THE ATTRACTION between the negative beam and the positive center terminal causes the particles to accelerate until they reach the center. There the negative ions are stripped of both their electrons by passing through a thin foil of carbon.

The resulting positive ions (protons or deuterons) are then repelled by the positive charge and accelerated further until they emerge at the opposite end of the accelerator with energies up to 14 mev.

The advantages of using the tandem accelerator as compared to a cyclotron, for example, are that the beam is sharply defined and that the energy of the particles may be varied easily over a wide range by varying the high voltage at the center of the accelerator.

ALTHOUGH IT has in the past been possible to polarize nuclei by scattering from suitable nuclei, this is a very inefficient process.

The intensity of the beams produced is low and it is very hard to determine accurately the degree of polarization. The method developed at the University circumvents this problem.

Among the problems to be investigated using polarized protons and deuterons is one concerning the way in which forces between nuclei act. One aspect of the problem is: do these internuclear forces act along the line joining the centers of two nuclei (vector forces) or are they a composite of forces acting in many directions (tensor forces)?

THE EVENTUAL aim is to find a "force law," a generalized mathematical picture of internuclear forces, which will account for all experimental results. At present there is no single force law, but there are many empirical laws which are valid only for a limited class of experiments.

The experimental method to be used involves passing the polarized beam through a static group of nuclei, e.g. hydrogen nuclei.

Some of the high-energy particles of the beam are



TUBE—Shown ushering in the 23-ton steel tube which is the vacuum tank of the atom smasher, is Willy Haeberli (left) and Hugh T. Richards of the Physics Dept. The machine arrived at the University in 1959.

scattered when they pass near static nuclei. Part of the reason for this scattering involves Coulombic or electrostatic forces, i.e. when a positive particle approaches another positive particle it is repelled.

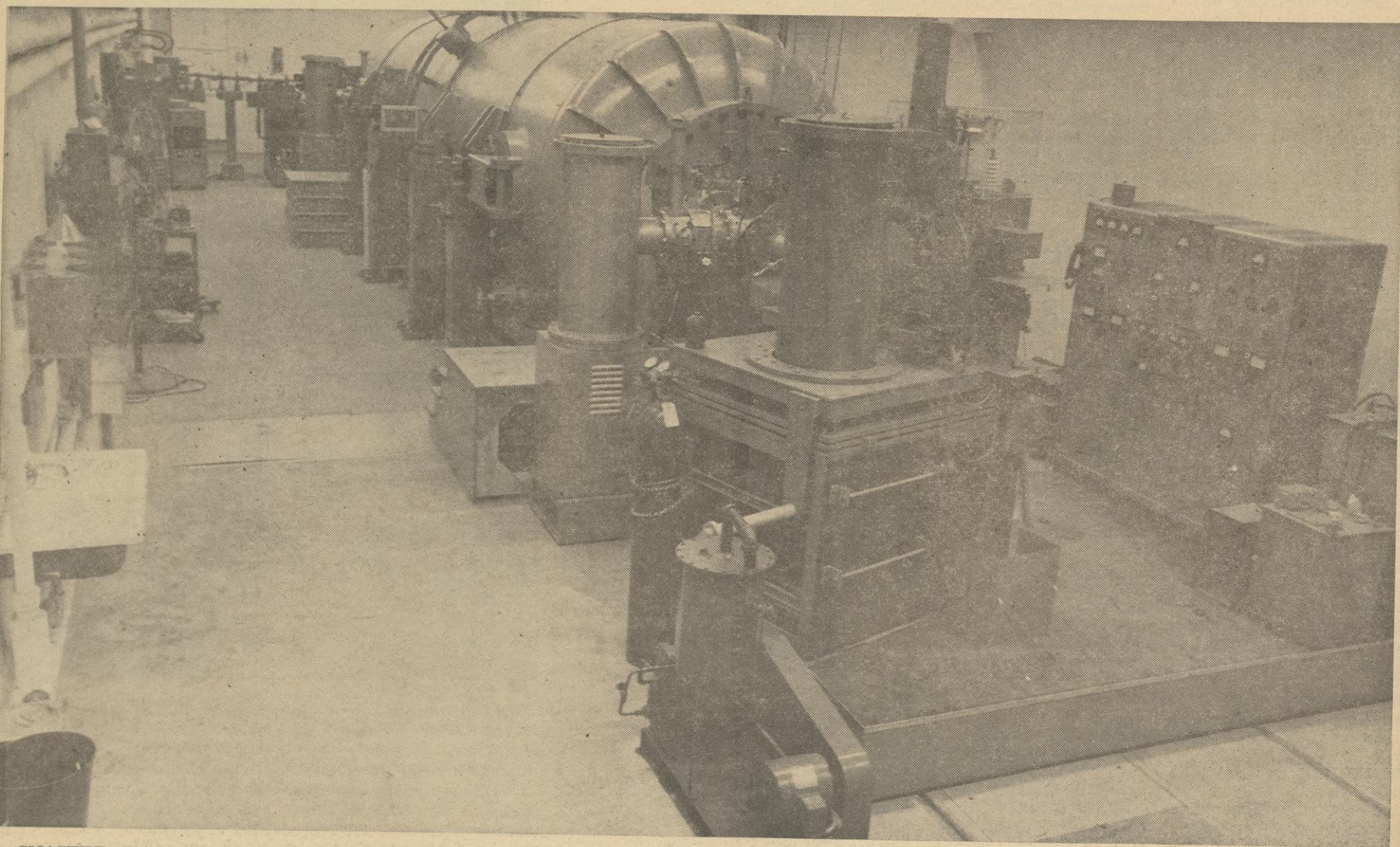
HOWEVER, experiments have shown that with high energy particles a second type of force accounts for scattering along with the Coulombic force. A contribution to the description of this force is the subject of the Haeberli group's research.

An analogy may serve to describe how the method works. One may picture a moving billiard ball approaching a static one. If the collision is head-on, the moving ball will stop dead. This is true whether or not the balls are perfectly smooth.

If information regarding texture of the balls is wanted, one may place a spin on the moving ball. From the behavior of the balls after impact one may draw the required information.

ANALOGOUS EXPERIMENTS may be done with spinning atomic nuclei. Using such variables as the angle of scattering of the polarized protons and the energy of the incoming beam.

Haeberli hopes to elucidate the nature of these inter-nuclear forces and consequently something about the nature of the nucleus itself.



SMASHER—This \$1,050,000 atom smasher awarded to the University Physics Department by the Atomic Energy Commission is now located in underground quarters between Sterling and Birge Halls. The ten million electron volt (MEV) machine, known as the Van de Graaff, was allocated to the University in recognition of previous work by nuclear experimenters which include Willy Haeberli, Physics. The new machine made possible experiments with polarized particles, that is, particles whose spin are aligned in the same direction.