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The Daily Cardinal

Complete Campus Coverage



VOL. LXXI, No. 7

University of Wisconsin, Madison, Wisconsin, Tuesday, Sept. 20, 1960

5 CENTS A COPY

Too Little Room Problem in 'Rat'

Steps to overcome the problem of having to serve too many people in the remodeled Union Rathskeller during the early noon hour were discussed yesterday at a meeting of a special co-ordinating committee of five Union chairmen.

Although no final decisions were made, such special programs as movie shorts in the Play Circle or Great hall, and record concerts and bridge playing in other rooms were suggested.

Another related problem discussed was that of having too few students using the Rathskeller late in the day and on weekends. The committee will consider having jazz concerts, old-time movies, dancing, record concerts, poetry reading with jazz accompaniment, and other entertainment of the kind that has made coffee houses like the Figaro in New York and Union taprooms elsewhere popular as gathering places, according to the group.

He inaugurated the tests **THE RATHSKELLER** is presently serving from 75 to 100 per cent more students than last year, with the peak reached last Wednesday when 4,487 were served during the day, compared to 2,133 on that Wednesday last year. The higher number has been attributed to the increased university enrollment and the faster service of the new serving counters.

Robert Simenson, Union vice president and head of the special co-ordinating committee, told the group, "Generally we can take care of everybody all right except for the half hour starting at 11:55 a.m. when everybody gets out of classes at once."

Simenson added that it is expected that the congestion will ease when some of the undelivered service equipment arrives, when students become better acquainted with the new service arrangements, and when sufficient employees can be recruited. Currently the Rathskeller is short six to eight full time and student employees.

WHILE 35 chairs have been added in the area, filling all

available space, the Union expects a "tight situation" until its proposed expansion program of moving all games underground between the Union and gymnasium, and adding the billiard room to the Rathskeller can be accomplished.

The co-ordinating committee is composed of Robert Schmidt, music; Dianne Blanchard, house; Carol Hoppenfeld, forum; John Wing, tournaments; and Robert Bohm, film.

Edward Teller, H-Bomb Father, Speaks Tonight

Dr. Edward Teller, internationally-known scientist, will speak tonight at 8 o'clock in the Union theater on "Peace and Disarmament." He is the first in a year-long series of speakers on the contemporary scene which Union Forum committee is bring to the campus.

Teller, a professor at the University of California, is known as the "father of the H-bomb" because of his work in developing both the atomic and hydrogen bombs. He was assistant director of Los Alamos laboratories from 1949-1951.

Teller has been in the news recently for his controversial views on continued nuclear bomb testing and disarmament. He resigned his position at the Radiation laboratory in Livermore, Calif., to devote his time to teaching and scientific research.

Other speakers coming to the Union are Bergen Evans, speaking on "The Responsibilities of Being Intelligent"; Douglass Carter, commenting on the election; Henry Steele Commager, United States historian; Wernher von Braun, talking on "Why Must We Conquer Space?"; and Max Lerner, American civilization professor at Brandeis university.



RETURN FOR YEAR—"Quiz the Professor" returned to WHA-TV Monday at the new time of 9:30 p.m. Shown from left are graduate students Ralph Webb and Donn Parson, WHA News Director Roy Vogelmann (back to camera), speech graduate Jerry Polisky, and Prof. Philip D. Curtin of the history department. Curtin was quizzed during the program on the "Congo Crisis."

—photo by William Witt

Role of 'U' Foreign Student Discussed by Panel Sunday

By BONNIE ORTH

The role of the foreign student on the university campus was discussed Sunday night by a panel consisting of Dean of Students LeRoy Luberg, Wisconsin Student association President Ed Garvey, Union President Dan Webster, and Isaac Koefle, student from Ethiopia.

The panel members emphasized the fact that the foreign students come from rapidly changing countries. They also noted that these foreign students are the "cream of the crop" in their own countries, or they wouldn't be here. For this reason, their judgments shouldn't be underestimated.

THE PANEL discussed the possibility of having an International house, or some sort of meeting place for foreign students, which would bring them closer together and give them a means for organization. It was felt, however,

that this might tend to isolate these foreign students from the normal activity of campus life.

The possibility of integrating more foreign students into fraternities was brought up, and invited much discussion from the floor. The consensus was that, although by joining fraternities foreign students would become better acquainted with Americans and their way of life, most of them are graduate students, and would therefore be quite a bit older than their fraternity brothers. Most of them wouldn't conform to the "stereotype" of the group, someone commented.

Webster, however, encouraged fraternity life on the grounds that foreign student would cut the stereotype, and tend to add more variety, interest, and stimulation to the now somewhat stultified plane of life attained by many of these fraternal groups. He felt that this assimilation would be a boon to all involved.

ONE ASIAN student, though, objected to being pressured into complying with the incomprehensible and sometimes distasteful customs of dating which Americans have adopted. Another added that he would rather be judged on his own merits than on those of a particular group.

The color bloc would have no bearing on the selection of students pledged, but a possible drawback to the foreign students would be the monetary investment involved, it was said.

Foreign students seem to have stronger, more mature views concerning politics, as exemplified by the number of governments overthrown by student organizations. When foreign students inquired about their right to voice their political opinions, Luberg encouraged them to feel free in taking advantage of this right, but cautioned them that their statements might be misinterpreted at home.

WHEN questioned about the part WSA was playing in aiding the foreign students, Garvey explained that "WSA is encouraging, as best it can, the foreign student policy on campus. Last year WSA brought in speakers on the Algerian crisis, sponsored a clothing drive for refugees abroad, and promoted acquaintance with foreign countries and their students through the Mock United Nations convention."

Garvey also mentioned that Minnesota had a vigorous pro-

(continued on page 8)

Sigma Nu's To Continue As Fraternity

After considering ceasing operations as a functional fraternity, Sigma Nu decided last night to remain on campus and go ahead with activities for the coming year. The fraternity, which had been threatened by the 1960 clause, the loss of its house, and pending action on alleged initiation and financial infractions, will be without a house for at least a year, however.

According to vice-president Richard Johnson, Sigma Nu's financial difficulties have been resolved with the university. As for future plans, Johnson said that they are considering either remodeling their present house, which has been leased to boarders for the year, or selling it and building a new one. The Inter-Fraternity council (I-F) has yet to take action on the initiation difficulties.

The chapter will carry on all the normal social and rushing activities during the year, meeting in such places as the Union, Johnson commented. The chapter presently numbers "between 20 and 30 men." As to the group's future, Johnson said, "That will be up to I-F and the university. We will abide by their decision."

Kennedy Club Hears Lucey, Plans Action

By KAREN WEINER

Political action was the keynote at the opening meeting of Students for Kennedy club last night in the Union's Old Madison room. Guest speaker Patrick Lucey, chairman of the Wisconsin Democratic party, outlined the plans for the coming campaign.

Lucey first stressed the importance of registering eligible voters in the city and on the campus. He emphasized that many students have just become 21 years old and don't know how or where to register.

"Therefore," he urged, "we must get as many people out to register and vote as possible." He proposed house-to-house campaigns and telephone committees.

LUCEY ALSO remarked that during the registration campaign the group should refrain from "trying to convert" anyone. He said he felt that enough of the non-registered citizens would vote for the Democratic ticket on their own.

The second point Lucey brought up was the importance of campaign literature and bumper stickers. He set a goal of 20,000 bumper stickers for Madison automobiles.

A Madison attorney, Jack DeWitt, reiterated Lucey's words about the registration campaign. He also made a plea for volunteers to work at the Citizens for Kennedy headquarters. Warren Siwall, a worker in the Dollars for Democrats program, spoke briefly about his fund-raising campaign.

DON RILEY, chairman of the student organization, commented on the group's plans for the future, saying that he hoped to have Mayor Nestingen as a speaker at the next meeting. Other important speakers in Madison will be Jack Symington, Oct. 12-14, and Helen Douglas, Oct. 11. The registration drive will get underway at the three Madison hospitals Oct. 10.

At Fall Leadership Conference . . .

Mayor Nestingen Praises Dorm Training

By ELAINE NAKAMURA

Experience gained as dormitory and group leaders will prove invaluable after college, Mayor Ivan Nestingen of Madison told delegates at the 1960 Fall Dorm Leadership conference in Elm Drive Commons last Saturday.

In his keynote speech, the mayor pointed out to the delegates that training, such as they are receiving now, will help them in future public service. He added, however, that this benefit is not limited to public and political

careers. Rather, the training students receive as dorm leaders will give them the foundation for future success in any career.

The mayor told the group that experience of being dormitory leaders and participating in the extensive program of the dorms was probably one of the most important parts of their college educations.

AFTER THE general session, the delegates separated into their respective study groups. The groups which were led by members of the university faculty gave the students a chance to hear opinions on what the duties of dorm leaders should be and what could be done to improve this leadership. The groups also gave the students an opportunity to exchange views with each other and to discuss mutual problems.

Martha Peterson, dean of women, conducted the group on "Let's Evaluate Student Activities"; Prof. James W. Cleary of the speech department, "Parliamentary Procedure"; Elmer Meyer, Jr., student activities director, "The Dorms in Campus Activities"; Paul Ginsberg, student activities adviser for Residence

Halls, "University Discipline"; and Prof. Norman C. Allhiser, director of the Management Institute, "Let's Get Organized."

ASSISTING Meyer in "The Dorms in Campus Activities" group were Ed Garvey, Wisconsin Student association President; Bob Simenson, Union vice president; and Barbara Duwe, representing the University Religious council.

Approximately 110 dormitory leaders attended the annual conference. General chairman of the conference was Arlin Bangs. She was assisted by Jean Hartmann and Elaine Nakamura.

Weather

Partly cloudy and warmer today and Wednesday. High today 70, low tonight in lower 50's.



GOP To March, Meet Cabot Lodge

Henry Cabot Lodge, Republican vice-presidential candidate, will speak to students Wednesday outside the state Capitol at about 12:15 p.m. The talk will follow a parade-rally sponsored by the university Young GOP and the university Youth for Nixon-Lodge.

Tentative plans call for students assembling on the Union steps at 11:50 p.m. and then marching on the sidewalks to the Square. Any interested student may participate.

"... that Continual and Fearless Sifting and Winnowing by which alone the truth may be found ..."

The Daily Cardinal Comment

A PAGE OF OPINION

Student Reaction ...

A Good Thing

Our editorials last week brought several comments from student readers. A few came in the form of letters to the editor, which we printed for the rest of the university to read. Other comments came during conversations with this writer.

Even a news story—that about the protest of book prices at the University Co-op (which, incidentally, was prompted by a letter to the editor)—brought reactions from our readers.

We are certainly glad to hear and see these indications that students are not only reading what we print—but that they are also thinking about and forming opinions about the content of our editorials and news stories.

WE CERTAINLY don't expect our readers to agree with everything we say or the way we say it. We feel that we can be of more service to the university community, in fact, if we do stir up people enough to have them speak out to us and to others on campus.

Our editorial about the sorority rush contact rule brought the most apparent reaction. And, as we had expected, the reactions were not always the same. One sorority president said she actually enjoyed it, while other members of sororities were quite bitter about the article. One fraternity member agreed with the editorial, while another felt that it violated the responsibility of a student newspaper.

One graduate student said that we should have made it clear that the Panhellenic association has no business telling us what we should or should not print, and in retaliation we should start running "Beauties of the Day," purposely naming any sorority affiliation each one might have.

THE REACTION itself made us feel that we were at least somewhat successful in striving for one of our most important purposes as the student newspaper of the University of Wisconsin—bringing out issues which will start our readers thinking, and then providing them with a means of conveying their opinions to the rest of the campus.

"Sifting and Winnowing" is a shopworn phrase, perhaps but we sincerely hope that the idea behind the phrase will never be forgotten by the thousands of students who attend this university to develop their mental resources.

Controversy—in the form of intelligent differences of opinion—is certainly a good thing, and the staff of the **Daily Cardinal** is not about to try to diminish it.—B.T.

On the Soapbox ... Answer to Dr. Teller

(EDITOR'S NOTE: Dr. Edward Teller, professor at the University of California and well-known as the "father of the H-bomb," will speak at 8 o'clock tonight in the Union theater. The following article was written in an attempt to disprove Teller's beliefs about testing nuclear weapons and their necessity to our defense program.)

Of all American scientists, Dr. Edward Teller is the most astute and most persistent advocate of the continued testing of nuclear arms and their necessity for American defense. Dr. Teller has been responsible for using the prestige of science to uphold the following three arguments, all of which, as shall be shown, are completely fallacious.

(1) Radioactive fallout leaves no substantial long run effects that should justify the halting of nuclear testing.

TELLER'S argument is that if a few hundred thousand people die as a consequence of genetic damage caused by fallout, by averaging this out over the entire human race, man's life has been shortened only a few hours, or as much as the risk of being a few pounds overweight. This is completely fallacious because the mutated genes do not average out, but are concentrated in the few hundred thousand victims and their offspring. Linus Pauling, the leading Nobel prize scientist to contradict Teller's assertions, estimates 10,000 deaths from leukemia and bone cancer and possibly 90,000 from other disease caused by each superbomb tested. Pauling also asserts that 15,000 children will be born with serious mental or physical defects from the results of one year's bomb tests alone.

(2) A "clean" nuclear bomb can be developed that would virtually eliminate dangerous radioactive fallout.

TELLER offered no evidence of any substance to support this claim, and the idea was considered pretentious and ludicrous by leading scientists throughout the world. It was soon dropped by Teller and the Atomic Energy commission as an argument to support the U.S. position.

(3) Small underground nuclear explosions (the only substantial question on nuclear disarmament not agreed to in the East-West negotiations at Geneva) can be hidden from seismographic or other detection by being exploded in a big hole in the earth.

THIS argument was used at Geneva by the U.S. in order to show there could be no reliable system of detection and inspection at present. Let us examine the content and effect of Dr. Teller's latest and most intricate proposal, the so-called "big hole" theory. But first, what had been agreed to at Geneva before the introduction of the "big hole" theory?

Khrushchev and his negotiators at Geneva had agreed to (1) veto free on-site inspection by mixed national and foreign teams on a quota system (the size of quota to be negotiated); (2) the signing of 17 treaty articles including an agreement on a system to control and detect explosion at high altitudes and outer space; (3) methods to detect land, water, and underground tests, the last based on U.S. underground explosions of October, 1958, called Hardtack. The data from Hardtack was not as accurate as expected, and the scientists continued to work on improvements.

But rather than contribute to more accurate detection of this last major point of controversy, Dr. Teller had enlisted the aid of the Rand corporation to work out the details of the "big hole" idea. The information was declassified in October, 1959, and released to the press on Dec. 21, just at the point when the Geneva scientists were rushing to work

out improvements on the detection of such underground explosions, in order to meet the U.S. set deadline for a moratorium on nuclear testing (Dec. 31).

TELLER'S brainstorm came like a bombshell to the Geneva scientists, and succeeded in disrupting East-West negotiations. But as we shall show, Teller has invented a sophisticated absurdity. The "big hole" theory states that huge explosions could be concealed by being detonated in a proportionately huge hole underground which would contain the blast. It is a theoretically possible way of muffling nuclear explosions from seismographic detection, and the U.S. delegate used Dr. Teller's brainstorm as the argument "to make the international test-detection program virtually useless." (New York Times.)

But the absurdity of Teller's theory under any kind of inspection system, even the modest one Khrushchev has already agreed upon, lies in the size of the hole to be dug and the extent of the operation necessary to dig it. According to the statistics of the Rand corporation, the **Scientific American**, Prof. Jay Orear of Cornell, and other scientists who have examined the "big hole" theory in detail, the hole for a small bomb (100 kilotons, which is one eighteenth the size of the Hardtack bombs) must be 800 foot in diameter, or the length of nearly three football fields, or the size of 12 Rockefeller center skyscrapers, 70 stories high. This is equivalent to the mining of 20 million tons (4 million truck loads) of salt out of a salt dome, or 25 million tons (5 million truck loads) of hardrock, such as hard coal. This would take from two to five years of excavation at a minimum of \$40 million, involving some 21,000 workers.

MOREOVER, large mining operations are among the easiest industrial operations to detect. Then how could such a hole, involving the silent conspiracy of thousands of miners, possibly be kept from inspection teams? Impossible. But even worse, the nature and timing of Teller's latest theory, perhaps deliberately, came at the threshold of an impending agreement. Yet this should be no surprise for Teller among other things is a consultant for the General Dynamics corporation, makers of the Atlas ICBM, nuclear submarines, and other products related to armaments. His fee for such consultation is \$1,000 per day!! Also Teller's role in the Oppenheimer hearing and his general behavior within the circle of government scientists has been particularly unscrupulous. He is regarded "not only as having betrayed one of his professional colleagues, but as a living example and the embodiment of a traitor to the ideals of science. . . . His interviews and public lectures, even his purely scientific papers, which are considered by his colleagues to be for the most part insufficiently thought out and consequently imprecise, seem often to be contrived with the view to obtaining as many newspaper headlines in as thick type as possible." (Robt. Junck, **Brighter Than A Thousand Suns**, a personal history of the atomic scientists, Harcourt, Brace & Co., N. Y., 1958).

(Other information from the following: Linus Pauling, **No More War**, Dodd, Mead, N.Y., 1958; John M. Fowler, **Fallout: A Study of Superbombs, Strontium 90, and Survival**, Basic Books, N.Y., 1960; J. D. Bernal, **World Without War**, and Carl Marzani and Victor Perlo, **Dollars and Sense of Disarmament**, Marzani and Munsell, N.Y., 1959 and 1960).

Matthew Chapperon, Secy.
Wisconsin Socialist Club

Rock Wool's Gloucester



"Gloucester, I think the seriousness of these occasions deserves a little more respect!"

In the Mailbox ... Coop?

To the Editor:

In reference to the controversy over the University Co-op, I would like to know if it is a co-op. If it is not a co-op, then they should be made to change their name. On the other hand, they can keep the original name but be made to take the hyphen out of the word co-op so the sign reads University Coop.

Robert F. Kelly

(Our staff is now working on a story explaining the organization of the Co-op. It will appear later this week.—ED.)

No Girls

To the Editor:

When I first entered this university two weeks ago I had in my wallet, like most other men, pictures of beautiful girls. Now all that is left is a card catalog.

The Daily Cardinal

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For every step taken you must have a card. If I, or any of my fellow students, were to lose their card catalogs, they might just as well give up life, for they could no longer eat, sleep, cash checks,

enter in the Union activities, buy books, or enter class rooms. Can't something be done to get the cards out of the wallet and the girls back in?

D. J. Domrath

In the Dummy

By Dick Drake

One of the more interesting and certainly more difficult aspects of the game of bridge is that of defensive play. This week's hand exemplifies several points essential to good defense.

♠ 8 5 4
♥ 7 6
♦ Q J 6 4
♣ A K 10 5

♠ Q 9 7 3
♥ A 5 4 2
♦ 9 7 3
♣ 8 2

♠ A 2
♥ Q J 10 9
♦ 10 5 2
♣ 9 7 6 3

♠ K J 10 6
♥ K 8 3
♦ A K 8
♣ Q J 4

S W N E
1 N.T. Pass 3 N.T. Pass
Pass Pass
Opening lead, ♠ - 3

AT THE conclusion of this hand, played in the "Rat" last Friday afternoon, the west player glared at his partner and asked, "Idiot, why didn't you shift to a heart?" In defense the girl said, "Am I supposed to know that this will beat the hand?"

The answer is an emphatic "Yes!" When the dummy is exposed both defense and declarer should pause and plan their strategy for defeating or fulfilling the contract. Defensively this is a difficult and highly imaginative problem.

The secret to good defensive strategy is to plan for the declarer the best line of play for the contract, then take steps to defeat this method. Always remember when defending, try to make declarer lose control.

EAST should read the three of spades as "fourth best," and by using the rule of eleven should know that there is no future in continuing that suit. The rule of eleven is a device used to locate honors and count distribution in the suit led. This is done by subtracting the number on the card (in this case three) from eleven. The total is the number of cards higher than the three which are not in your partner's hand, (in this case, eight).

By counting the cards in the dummy and your own hand that are higher than the three, subtracting from your first total, (eight) your result is the number of cards in declarer's hand above a three. East now knows declarer has four spades, and should realize they are high one, since her partner could not lead from an honor sequence.

THE NEXT problem confronting East is which suit to shift to. A glance at the dummy will tell her that hearts is the only suit

with any promise. Even if the dummy were not so strong in the minors, she could infer the heart shift from the bidding. Since South opened one no trump, it is likely he does not have a five card heart suit, and the dummy has only two, therefore partner has at least three, possibly four, and this would be a good avenue of attack. This line will defeat the contract one trick.

What would you bid?

You hold the North hand in today's deal, and your partner opens 1 No Trump. You have ten points in high cards, and since partner has at least sixteen, the hand should produce game. The prospect of a major suit fit is slim, and game in the minors requires a stronger hand. Bid 3 No Trump.

Nonviolence Series Starts Tomorrow

Jackson D. Tiffany, instructor in the Bureau of Audio-Visual Instruction, will lecture on "What Nonviolence is and Is Not" at the opening session of the annual course in nonviolence, 7:30 p.m. tomorrow at the Lutheran Student Center, 228 Langdon St.

The course is being presented for the fourth year under the auspices of the Madison Peace Center and the Student Peace Center, and has been offered at a different student religious center each year.

Mr. Tiffany has studied the subject of nonviolence for many years and is planning a script for a movie on the subject. After his lecture, Mr. Tiffany will lead the discussion in a question and answer period.

MRS. GOODNIGHT DIES

Mrs. Scott H. Goodnight, 83, wife of the retired longtime dean of men here died last week at Winter Park, Fla. Emeritus Dean Goodnight served as dean of men for 29 years prior to his retirement in 1945.

SOUTHWORTH TO GIVE REPORT

Prof. Warren H. Southworth, education, will present a paper on "The Contribution of Health Education to Growth and Development of Boys and Girls" at the annual meeting of the Michigan Association of Osteopathic Physicians and Surgeons Oct. 3 in Grand Rapids.

Curator To Give Art History Talks

The first of two public lectures by one of the world's outstanding art historians, Sir John Summerson, curator of Sir John Stone's museum, London, will be presented here Sept. 28.

The lecture on Sir Christopher Wren, most famous of all English architects, will be given at 8 p.m. at the Wisconsin Center auditorium. It is open to the public without charge, presented by the Department of Art History and the committee on all-university lectures.

Sir John will be visiting the campus for a two-week period and will conduct a seminar in art history, according to Prof. James S. Watrous, chairman of the art history department.

The second lecture will be on Sir John Van Brugh, British restoration dramatist and architect who was a contemporary of Wren. This lecture will be presented Oct. 5 at 8 p.m. in the Wisconsin Center auditorium.

Sir John is a distinguished scholar, author, artist, teacher, and architect who in 1958-59 held the Slade professorship of fine art at Oxford University.

The Summerson visit inaugurates an extended program in art

Y-GOPS TO HEAR TEWES

Former Congressman Donald Tewes will speak on "student Participation in Politics" at a meeting of the Young Republicans tonight at 7 in the Union. Refreshments will be served.

Tuesday, Sept. 20, 1960

THE DAILY CARDINAL-3

history made possible by a recent \$10,000 grant from the Marc J. Rojzman Foundation, Milwaukee.

kee. Rojzman, has made two other major art gifts to the university.



THE RED HOT JAZZ of Bob Scobey and his Great New Band is the fare nightly, except Sunday, in the Badger Room of the Towne Club, 306 W. Mifflin. Now open to anyone over eighteen. The Club serves beer at popular prices. No admission charge to University of Wisconsin students with fee cards. Thursday, September 22.



THE NEW ALGEBRA

Take this course on television for credit

Your school is now offering full academic credit for participation in Modern Algebra, a television course offered weekday mornings* on Continental Classroom. To obtain credit, undergraduates are required to view the program three days a week; teachers desiring graduate credit—five days a week. Prerequisites: high school algebra and geometry. Contact the Registrar on your campus for enrollment details. The teachers are Dr. John L. Kelley of the University of California at Berkeley, and Dr. Julius H. Hlavaty of DeWitt Clinton High School of New York City. The textbook, written especially for this course, is Dr. Kelley's "Modern Algebra," published by D. Van Nostrand, Inc. You may also enroll in Continental Classroom's Modern Chemistry—Monday through Friday*. Produced by the National Broadcasting Company in association with the Conference Board of the Mathematical Sciences and Learning Resources Institute.

STARTS MONDAY, SEPTEMBER 26, ON NBC

*Check your local listings for time and channel number.

IT HAPPENS
THIS WEEKEND
AT YOUR
WISCONSIN
UNION

Be on hand
when it does!

GRAND OPENING
of the
NEWEST BOWLING LANES IN TOWN
WITH AUTOMATIC PINSPOTTERS
SATURDAY NOON
AT THE WISCONSIN UNION

Sailing, Sailing . . .



REMEMBER WHEN?—It was only a few weeks ago that students were enjoying themselves sailing on Lake Mendota as this pretty coed is doing. This action shot was taken near the University Boat House which can be seen just to the right of the sailboat. Also, on the shore is the big red brick armory. The weather these days are not so conducive to this type of water activity, is it? —staff photo by Bob Schmidt

Frosh Forum Tackles Human Communication

The fall semester theme of Freshman Forum, a one-credit discussion-lecture course, "The Humanist's Manifesto," will be developed in lecture and discussion by sixteen university professors.

The theme is divided into three units: "The Nature of Human Communication," "Mass Communications and Modern Society," and "A Better Society through Better Communication."

Freshmen Forum is broadcast live from the classroom over WHA and WHA-FM, the university stations, at 11 a.m. Tuesdays and Thursdays.

The moderator of the forum is James W. Cleary, Assistant Professor of Speech. Fall semester professors and their lectures are:

William A. Williams, "History as a Way of Learning," September 27; John F. Kietnitz, "The Idea of Life in the Visual Arts," October 4; Robert W. Monschein, "How Does Music Communicate?" October 11;

Gian N. G. Orsini, "Language and Culture: The Function of Translation," October 18; Haskell Fain, "The Norms of Rational Discourse," October 25;

Frederick W. Haberman, "The Significance of Political Oratory

Tokyo Historian To Speak Here

Prof. Kenichi Nakaya of the history department at the University of Tokyo will discuss "Recent Trends in Mass Communications in Japan" in a public lecture at the university on Thursday at 3:30 p.m. in 135 Journalism.

Nakaya is professor of American history and prominent in television and radio broadcasting in Tokyo. His newspaper experience includes a stint as correspondent in the Philippines.

The department of history and School of Journalism are sponsoring his appearance.

CLARKE TO SPEAK

Prof. Jack A. Clarke, chief social studies librarian at the university, will present "Reference Materials and Methods in the Social Studies" in a lecture about facilities and procedures in room 436 of the Memorial Library at 4:30 p.m. Friday, Sept. 23. His talk will be presented by the university Graduate school and the Library committee.

Today," November 1; David Fellman, "Censorship and Subversion," November 8; John J. Enck, "Society, the Writer, and Rhetoric in 1960," November 22;

Carl R. Woodring, "Is Poetry Obsolete?" November 29; Leon D. Epstein, "Political Communi-

cation," December 6; Robert C. Pooley, "Can We Talk To Each Other?" December 13;

Robert B. Doremus, "Humanism in Science," January 3; and Fred H. Harrington, "What a Great University Communicates," January 10.

Camera Company Grants Fellowship

The Eastman Kodak Company has awarded a fellowship for Ph.D. degree study in chemical engineering to the university.

The fellowship, which is for the 1961-62 academic year, will be given to a student chosen by the university, with preference given to persons in their last year of doctoral degree study.

Selection will be based upon financial need and ability. The recipient of the award will receive \$2,500, or \$3,000 if married and with children. Also provided are tuition and fees, funds to enable the student to attend one professional meeting in the field of chemical engineering, and an additional \$1,000 to the university.

PAPER PRESENTED

Prof. Andrew H. Clark, geography, presented a paper, "Geographic Change: A theme for Economic History Association's annual meeting."

Kastenmeier Talk Set for Tomorrow

Congressman Robert W. Kastenmeier will speak in Birge hall auditorium tomorrow at 8 p.m. on "The Moral Responsibility of the Scientist."

Kastenmeier has been concerned about recent efforts to make acceptable and respectable those techniques of warfare called chemical, biological, and radiological.

In December he introduced a concurrent resolution into the Congress which "reaffirms our policy of non-use of biological and chemical weapons unless first used by the enemy."

The lecture is sponsored by the Phi Sigma society, whose main purpose is to promote research interest in the biological sciences.

YOUTH FOR NIXON

The Youth for Nixon will meet today at 4:30 in the Union. The group will make plans for the rally to be held tomorrow in honor of Republican vice-presidential candidate Henry Cabot Lodge.

Sigma Delta Tau

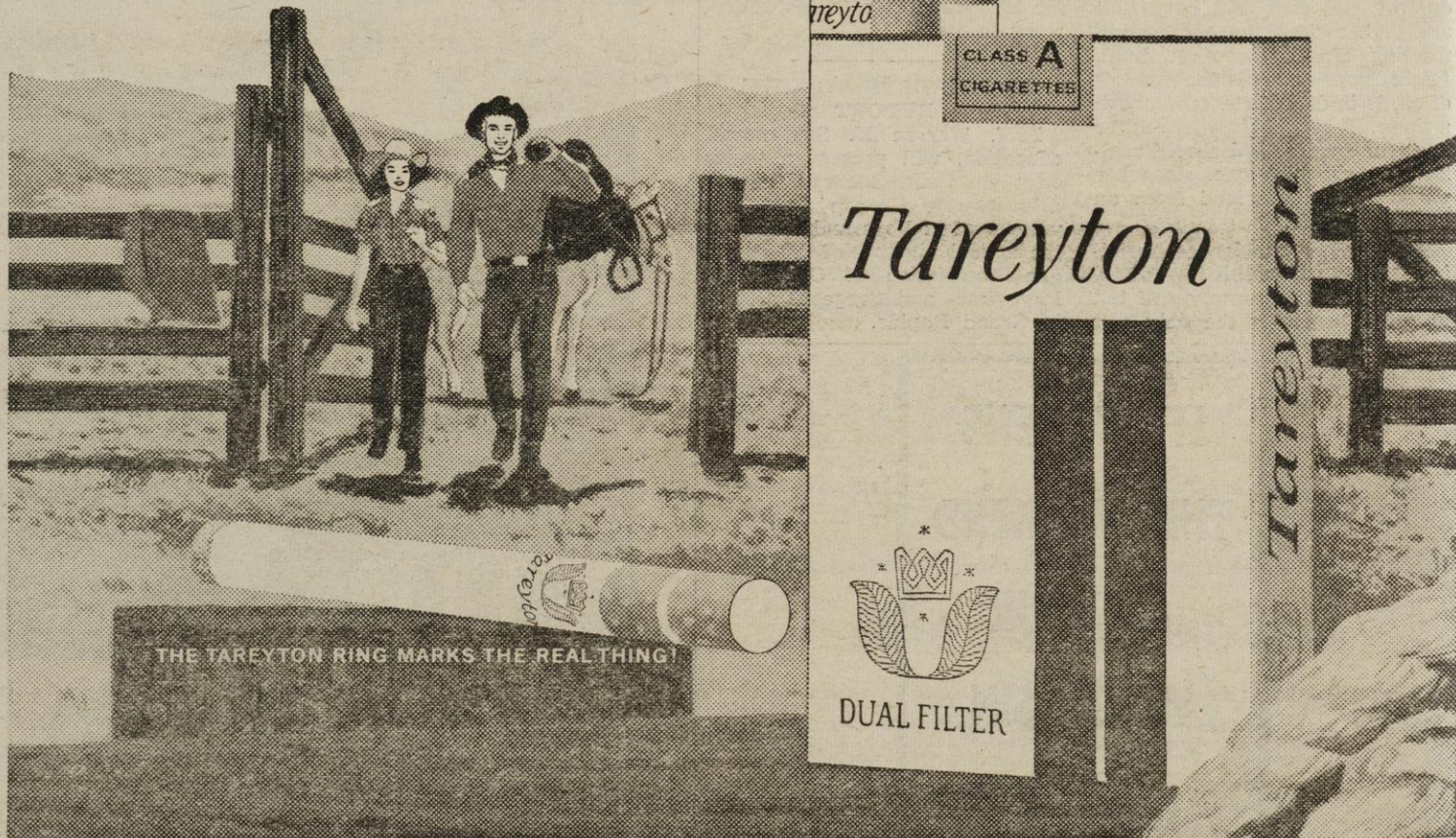
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SHOELESS—Glancing over a roomful of shoes are Pam Knox and Janet Schmitz. The occasion was the Sock Hop Friday night at the Union which drew a crowd of about 500 people.

—staff photo by Bob Schmidt

Production of 'Our Town' Includes Over 40 Students

Over 40 UW students will appear in Thornton Wilder's "Our Town," first Wisconsin Players production of the Fall season, Oct. 18 to 22. Announcement of the large cast was made by director Jonathan Curvin.

Playing the lead role of the stage manager, who describes and comments upon the action of the play, is Daniel Travanti. Ever since an auspicious start with Players, when as a Freshman he played Morgan Evans in "The Corn is Green," Travanti has figured prominently in the group. Other credits were the title role in "William Tell" and "Sgt. Javorsky in 'The Great Sebastions.'" He is a third-year Speech student.

THE ROMANTIC leads of Emily Webb and George Gibbs will be played by two newcomers to the Union main-stage: Lyn Edginton, and Leonard Aronson. Parents of the pair are: as Mr. & Mrs. Webb, David Walkup, and

Carla Morton; as Dr. & Mrs. Gibbs, Clyde Bassett and Judith Pulin.

In supporting roles are: Bonnie McNeil, Gibbs Murray, Sanford Syse, Margaret Leitner, Steve Hinytzke, Edward Pierce, Richard Robinson, Andrew Herriott, Thomas Haas, Rochelle Schaffer, Claire Holland, Donald Maack.

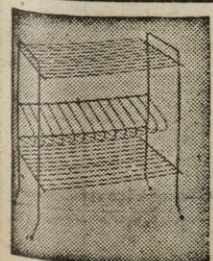
Others appearing in the cast include: Lois Engelman, Sandra Silberman, Robert Hale, Kermit Heckert, Sara Covalt, Mary Metz, Audrey Draheim, Rhoda Jane Swanson, Christine Valesh, Denise Dietz, Ann Raddant, Benita Hulber, Carolyn Cotter, Karen Bennett, Jill Weber, Nancy Bredendick, Ellyn Jones, and Roger Minkoff.

A LIMITED number of season coupons are still available for "Our Town" and the other plays on Wisconsin Players 1960-61 bill. These may be obtained from street-booth salesmen or at the Memorial Union box-office.



FOLK ART SOCIETY—Music resounded at Friday's gathering of the Folk Art Society.

—photo by Bob Schmidt



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MIRIAM MAKEBA

Miriam Makeba sings the lusty and spirited African ballads about lion hunting and love and the songs of her own Xosa tribe. The campus will hear her with the Jack Check Jazz Quartet at the second annual Jazz Festival, October 1 in the Union Theater.

Her native tongue is Xosa, full of strange sounds like clicks and "tsks," but she is also fluent in other African dialects, and sings in Zulu, Sotho, and Shangaan. She also includes a few Hebrew songs in her repertoire. To accompany her songs Harry Belafonte helped her get together a three piece combo consisting of Perry Lopez, Tommy Lopez, and John Pate.

Society and Features

Club 770 Opens Saturday Evening

Saturday night marks this year's opening of 770 Club, a Union social program now in its 28th year. When it began November 26, 1932, it was the first college night club in the country.

That atmosphere will still be present in Tripp Commons Saturday from 9-12 p.m. Tickets at \$2.00 per couple are available in the Union box office.

Back in 1932 when it began, girls were not allowed in the Rathskeller and the cost of three meals a day at the Union amounted to only 53c. On opening night the bands of Jack Hogan and Norm Phelps played the latest hit tunes while 300 students danced.

The night club atmosphere, which still includes dancing, en-

tertainment, refreshments and even waiter service, appealed to the college crowd. When banks were closed and money scarce during the height of the depression in 1933, 770 Club kept its doors open. To meet the emergency the admission price was cut to 50c. As the economy of the country became more stable, 770 Club grew until it established itself as a regular part of campus life.

YWCA MEETS

A program followed by refreshments are on the agenda for the first University YWCA meeting to be held this Wednesday, September 21, at 7:15 p.m. in the John Muir Room of the "Y". A skit, based on the theme "Getting to Know Us," will be presented to show different aspects and projects of the group. The "Y" is located at 306 N. Brooks.

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Young Gets Flash Answer After 2 Years' Calculation

ED. NOTE—This is the second in a series of three articles on the U. S. Army Mathematics Research center at the university.

One night Dr. Laurence Young went to a concert to get away from his work. He was a mathematician and had worked two years without success on the same problem.

While the orchestra played, his mind wandered. In a flash, he saw the problem's solution; before a minute had passed, he had written it down on the back of a postcard.

Young is one of 30 mathematicians at the U. S. Army Mathematics Research center on the university campus. While mathe-

matical proofs sometimes range in the tens of pages and take many hours to write, his long struggle answered in a flash is unique neither to him, nor to his colleagues.

"MOST OF THE time," Young said, "I'm absolutely blind. Every so often I get a flash—I get a new slant on something."

"A mathematician's mind doesn't work straightforwardly one way or the other," Dr. Hans Bueckner, one of Young's colleagues at the center, said. Young does his work in many places, at many times; his desk is important mainly for reviewing his line

of argument.

"One's got to be prepared to work many months. It is hard work, racking one's brain in this way," he said. "One nice piece of work in five years feels good."

ABOUT ONE mathematical solution, a colleague of Young's said, "It looks easy and it is easy, but it isn't easy to make it easy."

If this is what working at mathematics is like, why do mathematicians enjoy it? The mathematicians themselves find this question a hard one to answer.

"One gets some sort of satisfaction," Young said.

The challenge—like the challenge of a mountain climber—provides some of the attraction to another research center mathematician, who also said, "Mathematics give me a sense of fulfillment. There is beauty in mathematics in getting a satisfying theory. But geometry charms me."

Young added, "It's something of an art rather than a science."

WHAT IS artistic about mathematics? "The study of mathematics is making clear, simple, and elegant what was chaotic. It is seeking order in disorder," a research center mathematician said. Mathematicians are, like painters, very particular about things. They find beauty in concise solutions which imply many things, or as they might term it, powerful theorems and theories.

But artists deal mostly with nature; mathematicians deal with abstractions. One of the research center mathematicians put it this way—great writers find what is common to men in nature, for example through a poem about trees; great mathematicians find what is common to men among abstract mathematical ideas.

What can a mathematician hope for in his professional life? Mathematicians seek theories, but few are lucky enough to construct a theory. Most must be satisfied with the solutions to individual questions, and with the beauty and the sense of fulfillment which they receive from the work itself.



World News... AT A GLANCE

KHRUSHCHEV MEETS WITH SATELLITE LEADERS

New York City—Soviet Premier Khrushchev held a series of meetings with Red satellite leaders last night as jeering pickets paraded outside the Soviet embassy. At one point a refugee demonstration of about 500 persons threatened to get out of hand, but police moved in and dispersed the group. One picket was taken away in an ambulance after being overpowered by police. Khrushchev arrived in the U. S. yesterday morning to a chilly and damp reception. Not a single city, state, or federal official was on hand when Khrushchev's liner docked. At a dingy, rain-soaked pier, Khrushchev made a short speech for disarmament . . . including a jibe at Pres. Eisenhower.

NIXON ATTACKS DEMOCRATIC CONGRESSIONAL LEADERS

Scranton, Penn.—Vice President Nixon has leveled the sharpest attack of the campaign on the Democratic congressional leadership. In a speech in Scranton, Penn., Nixon charged the Democrats with deliberately provoking a presidential veto of the depressed areas bill. He said they were more interested in seeking a "political issue."

U. S. TESTS TWO ROCKETS

Cape Canaveral, Fla.—The U.S. has made the first two of a series of space-age tests which may coincide with Soviet Premier Khrushchev's appearance at the U.N. A "sounding" rocket was sent 1,200 miles above the Pacific from California in one test. In the other, an Atlas missile was launched on a trip which took it 9,000 miles over the Atlantic.

INVESTIGATION OF N.S.A. DEFECTORS ENDS

Washington—The Congressional investigation into the defection of two U.S. code clerks to Russia has ended. House investigators leveled a blast at those responsible for hiring the defectors three years ago. Subcommittee chairman Paul Kilday charged that the National Security Agency had information which "showed them to be unstable" before they were hired.

FLORENCE SUBSIDES; ANOTHER STORM BREWS

Miami—Tropical storm Florence has died down in the vicinity of the southern Bahamas. Winds which blew at 50 miles an hour Sunday have dropped to barely 30 miles an hour. Meanwhile, reports have come in of another disturbance which has begun developing in the Gulf of Mexico.

DOG'S DAY IN ATLANTA

Atlanta—It was a dog's day for the canine cops in Atlanta, Ga. A burglary suspect found in a closed restaurant said a police dog came up and licked him affectionately while he was hiding. Another police dog lunged at him while he was being questioned . . . but missed and bit one of the police officers on the scene.

The Week's Doings At The University

Conferences at Wisconsin Center

- Sept. 19-20—Life Insurance seminar (Commerce)
- 19-20—U.W. Ford foundation (Econ.)
- 21-23—Inst. on Staff Development (M.I.)
- 21-23—Farm Bureau Staff seminar (M.I.)
- 21-22—NCA conference (Education)
- 21-23—School Administrators and Supervisors (Education)
- 22-23—Photographic Instrumentation (Engineering)
- 23-24—Joint Standing Comm. Grad Educ. (Education)
- 24 —Community Development inst. (Ext.)
- 25-26—Committee on Institutional Co-operation

Tuesday, September 20, 1960

- 4:30 p.m.—U. W. Youth for Nixon-Lodge—Union Top Flight
- 4:30-5 p.m.—The New Idea, Cultural Magazine—Union Loft
- 4:45 p.m.—Edward Teller Press Conf. (by invitation only)—Union Round Table
- 7 p.m.—Wis. Hoofers Outing Club—Union Hoofers
- 7 p.m.—W.S.A. Student Senate—Union Old Madison
- 7 p.m.—International Club—Union Reception
- 7 p.m.—Student Senate—Union Old Madison room
- 7 p.m.—Wisconsin Film society—B-10 Commerce
- 7:15 pm.—Young Republicans—Union Great Hall
- 7:15 p.m.—Campus Chest—Union Play Circle
- 7:30 p.m.—Students in Emergency Housing—Union Loft
- 7:30 p.m.—Young Republicans, Speaker, Don Tewes—Union
- 7:30 p.m.—Schedulers meeting—Lecture by John Reynoldson of the Madison Board of Education "Would You Qualify as a Good Teacher," room 200, Education building
- 8 p.m.—Lecture: "Peace and Disarmament" by Dr. Edward Teller—Union Theater
- 8 p.m.—Law School Smoker—Union Tripp Commons
- 8:30 p.m.—Hoofers Archery Club—Union Hoofers
- 8 p.m.—Lecture "Peace and Disarmament" by Dr. Edward Teller, U. Calif.—Union theater
- 8 p.m.—Law school mixer—Union Tripp Commons

Wednesday, September 21

- 3:30, 7, 9 p.m.—Studio Film "Mr. Belvedere Goes to College"—Union Play Circle
- 4:30 p.m.—Convocation, Dr. C. H. Cotterman (Medical Genetics),—SMI aud.
- 7:15 p.m.—Univ. YWCA Program Night—YMCA
- 7:30 p.m.—Nu Sigma Nu meeting—Union
- 7:30 p.m.—American Society Civil Engineers meeting—Union
- 7:30 p.m.—Young Democrats meeting, guest speaker, James Boyle—Union
- 8 p.m.—WSA Leadership Training program—Union Tripp Commons

Thursday, September 22

- Foreign Language Attainment exam
- 7 p.m.—Phi Alpha Delta—Union
- 7 p.m.—Beta Alpha Psi—Union

Friday, September 23

- Last Day to Add Subjects
- 12m—Movie Time "The Goddess,"—Union Play Circle—(also Sat. and Sun.)
- 3 p.m.—Mental Retardation meeting (Education)—Wis. Center
- 4:30 p.m.—Reference Materials and Methods in the Social Studies—room 436, Mem. lib.
- 7 p.m.—Chinese Students meeting—Union Tripp Commons
- 8 p.m.—Harvest Hop—Outside Home Ec building
- 9 p.m.—International Dancetime—Union Old Madison
- 9 p.m.—Danskeller—Union Rathskeller (also Sat.)

Saturday, September 24

- Football—Wis. vs. Stanford at Palo Alto, Calif.
- 9 p.m.—Grad club reception and dance—Union Great hall
- 9 p.m.—Club 770—Union Tripp Commons

Sunday, September 25

- DAYLIGHT SAVINGS TIME ENDS
- 2 p.m.—Grad club bridge—Union Loft
- 2:30 p.m.—All Dorm picnic—Intramural fields
- 3 p.m.—Pentagon picnic—Camp Wakanda
- 4:30 p.m.—Grad club coffee—Union Reception
- 8 p.m.—International club Friendship hour—Union Reception
- 8 p.m.—Organ Recital, John Harvey—Music hall

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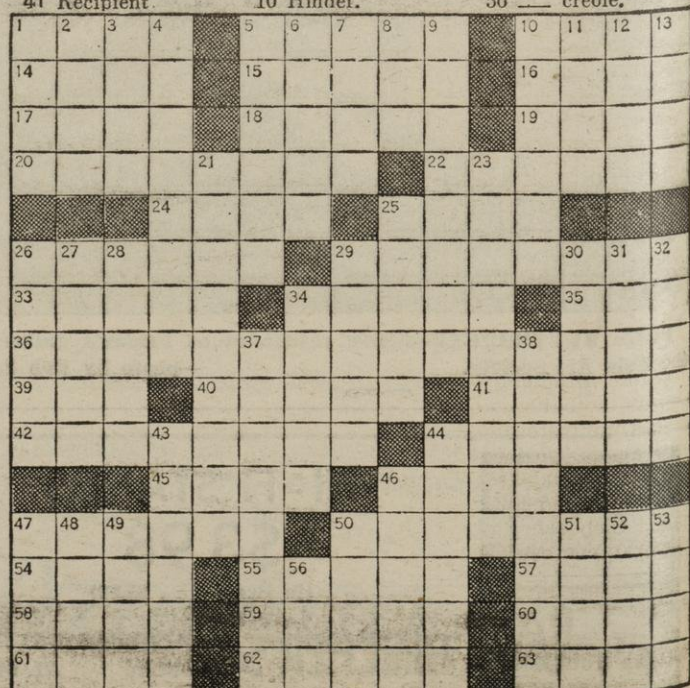
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| 1 Golf stroke. | 44 Princeton's president. | 12 Aleutian island. |
| 5 Statistical diagram. | 45 Hill dwellers. | 13 Certain votes. |
| 10 Englishman's surprised expression; 2 words. | 46 Elevator car. | 21 Feature of most parades; 2 words. |
| 14 Eskimo hut. | 47 Heroine of "Private Lives." | 23 Members of the pack; 2 words. |
| 15 Hoosier poet. | 50 Sliding descent of a snow slope. | 25 — a hatter; 2 words. |
| 16 Distribute (with "out"). | 51 South —. | 26 Resort dwelling. |
| 17 Not once; Poet. | 55 Physician of 2d century A. D. | 27 Stevenson. |
| 18 Upright; 2 words. | 57 Asteroid No. 7. | 28 Zoo dwellers. |
| 19 — cake. | 58 Kind of china. | 29 Office machine. |
| 20 Money-raising devices at charity bazaars. | 59 Popeye's girl friend. | 30 Geneva's river. |
| 22 Monkey. | 60 Term akin to prexy. | 31 He rode Traveller. |
| 24 Frau's name. | 61 M. P.'s concern. | 32 North Sea port. |
| 25 Indicative or subjunctive. | 62 Called. | 34 Extra reward. |
| 26 Maria —, opera star. | 63 Simple. | 37 Seven-sided figure. |
| 29 Photography pioneer. | DOWN | 38 Sticking together. |
| 33 Latin farewell. | 1 Crosby. | 43 Almost exact contemporary of Bach. |
| 34 Site of the Black Forest. | 2 Mellowing agent. | 44 Acquired. |
| 35 Skirt part. | 3 Insect. | 46 Familiar Ohio abbreviation. |
| 36 Vacillates; 4 words. | 4 Flounce. | 47 Eban of Israel. |
| 39 Adjective ending. | 5 Mournful sounds. | 48 Feline sound. |
| 40 Czech hero. | 6 — -rosy. | 49 — Domini. |
| 41 Recipient. | 7 Beverages. | 50 Light; Slang. |
| | 8 Enclosure. | 51 Vicinity. |
| | 9 Lightest of all known substances. | 52 Withers. |
| | 10 Hinder. | 53 Descry. |
| | | 56 — creole. |





In This Corner

By JERRY SHEA

A Long, Hard Season

We were among the approximately two hundred people who watched Wisconsin's "secret" scrimmage last Saturday at Breese Terrace. Apparently Coach Milt Bruhn figures he has nothing to hide as just about everybody in the neighborhood was on hand to see the Badgers go through their last full scale scrimmage.

Unfortunately Wisconsin has nothing to hide. There were a few bright spots such as a lot of team spirit, the passing of Ron Miller and a sprinkling of other good sophomore players. But otherwise it looks like a long hard season for the Badgers who could make history (of sorts) by being the first Big Ten team to fall from first to last in one season.

On the credit side of the ledger, the Badgers have several newcomers who could play for anybody. Two of them, Ron Carlson and Pat Richter have apparently grabbed the starting end positions, shunting Co-captain Hank Derleth back to the second team. Derleth is a rugged defender and was Wisconsin's top pass receiver last season, but his pass-catching potential is no where near Richter's or Carlson's.

The other big sophomore hope, Ron Miller, looks at times like a Jim Haluska who can run. Some of his other attributes, like ball-handling and pass defense need work, but as long as Miller can pass, Jim Bakken will be relegated to kick-offs and punting.

Some of the other new backs are supposed to be fast, and they do have some speed, but only by Wisconsin standards. Unless Bruhn is hiding a halfback somewhere, there is no Jeter or Burton on this team. The Badgers' best back is still Tom Weisner who will probably have to carry most of the ball-carrying load this fall. The situation is probably summed up by Bruhn's comment during the first half when he looked out at the field and seeing only three men in the backfield announced, "I need a halfback." This can probably go down as somewhat of an understatement.

The biggest weakness in Wisconsin's array is still the chronic porous pass defense. The Badger backs were being fooled by their own pass patterns, run by the fourth string with a fifth string quarterback tossing the passes. This doesn't look too promising when the specter of Dick Norman or Dick Thornton looms on the horizon. The lights will probably be burning late in the stadium offices this week as the Wisconsin brain trust attempts to work out a scheme for stopping the aerial minded Mr. Norman.

Wisconsin still has the big mean linemen that have become a Bruhn trademark. But defense is no longer enough in big time football as the Badgers demonstrated last fall when they had one of the best defensive forward walls in captivity.

Even though the Badgers seem to have more hustle and drive than last year's complacent seniors, they still have to overcome the intangible of inexperience. The Big Ten is not a sophomore league and Wisconsin will probably have five or six yearlings in the starting lineup.

This is definitely a rebuilding year for Wisconsin, but the nucleus of any champion seems to be here. Meanwhile its probably a good thing that the Badgers are playing Marquette this fall. Otherwise they might end up with a record like Hamilton Burger's.

The Packers' Year?

Green Bay, with six straight exhibition wins, copped the NFL pre-season championship, but if history repeats itself, the Packers may be in for a tough year. The last time the Bays won the "meaningless" crown they ended up with a dismal 3-9 record.

But after the way the Packers handled Washington 41-7 it's hard to be pessimistic about their chances. The Redskins are admittedly the worst team in the weaker Eastern Division, but the Packers made them look like they belonged in the AFL.

We haven't ordered our tickets for the title game yet, but this may be the year that long-suffering Green Bay fans have been waiting for. Its about time that someone displaced those Baltimore Colts.

Today Is Start Of I-M Football

Intramural action will begin today with football games scheduled for both the fraternity and dormitory leagues. In dormitory action Bashford meets Gregory, Botkin plays High, and La Follette goes against Siebecker.

Several contests are also scheduled for the fraternity league, with Alpha Tau Omega against Chi Phi, Sigma Alpha Epsilon against Delta Theta Sigma, Kappa Sigma against Alpha Delta Phi, Psi Upsilon against Delta Tau Delta, Theta Chi against Sigma Phi, Phi Delta Theta against Delta Upsilon, Phi Sigma Kappa against Lambda Chi Alpha, and Chi Psi against Alpha Gamma Rho.

eduled for the fraternity league, with Alpha Tau Omega against Chi Phi, Sigma Alpha Epsilon against Delta Theta Sigma, Kappa Sigma against Alpha Delta Phi, Psi Upsilon against Delta Tau Delta, Theta Chi against Sigma Phi, Phi Delta Theta against Delta Upsilon, Phi Sigma Kappa against Lambda Chi Alpha, and Chi Psi against Alpha Gamma Rho.

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Badgers Gird for Opener

Defense will receive the most attention this week as Wisconsin's Badgers prepare for their season opener with Stanford next Saturday. The Indians bowed to Washington State in their opener last week when state came up with two touchdowns in the fourth quarter for a 15-14 win.

Although he threw only 17 passes last week, Stanford's Dick Norman is expected to have his passing arm unlimbered by the time the Badgers meet him. Wisconsin had their hands full with the slick throwing Norman at Madison last season, and the Badger's sophomore dominated squad will put in plenty of time figuring out a way to cut down on his effectiveness this year.

It's possible that the Indians, who led Washington State throughout the game last week, were saving their passing game

especially for the Badgers, since they were moving the ball very well on the ground anyway.

Bearing last minute changes, Wisconsin's starting team will line up with sophomores Ron Carlson and Pat Richter at the ends, senior Terry Huxhold and either junior Brian Moore or senior Ron Perkins at the tackles, sophomore Dale Mathews and senior Jerry Kulcinski at the guards, junior John Gotta at center, sophomore Ron Miller at quarterback, junior Erv Kunesch and sophomore Merritt Norvell at the halfbacks, and senior and co-captain Tom Wiesner at fullback.

Perkins, a starting guard last year, may be shifted to tackle for the opening game if Moore, who has a sprained ankle, is unable to start Saturday.

Others who will probably see

action include co-captain and end Hank Derleth, guard Eliot Elfner, center Dick Baer, quarterbacks John Fabry and Jim Bakken, and halfback Elmars Ezerins.

In addition, several other members of the 38 man traveling squad have a good chance to play as the Badger coaching staff attempts to get the team ready for the coming Big Ten season.

Wisconsin's offense will revolve around the power running of rugged Tom Wiesner at full, with help expected from Norvell at halfback. Norvell is one of the fastest halfbacks the Badgers have had in recent years, and his speed could improve the outside running game.

Miller will probably do most of the throwing for the Badgers, with Carlson, Richter, and Derleth his most likely receivers.

Stanford is expected to be ready to give the Badgers another rough time, and the Indians will be smarting from their opening loss to Washington State. Stanford's early start will also give them an advantage over Wisconsin as they will have some idea of their capabilities under game conditions.

WEEKLY LECTURES

Distinguished visiting faculty members have been scheduled in the university Medical center for a convocation at 4 p.m. every Wednesday in the Service Memorial Institutes auditorium. Sixteen of the lectures in the series will be on the "Epidemiology of Non-Infectious Diseases," sponsored by the Department of Preventive Medicine.

STUDENT SENATE

Student Senate's first meeting of the year will be held tonight at 7:00 in the Union. Civil rights legislation will be the chief topic on the agenda.

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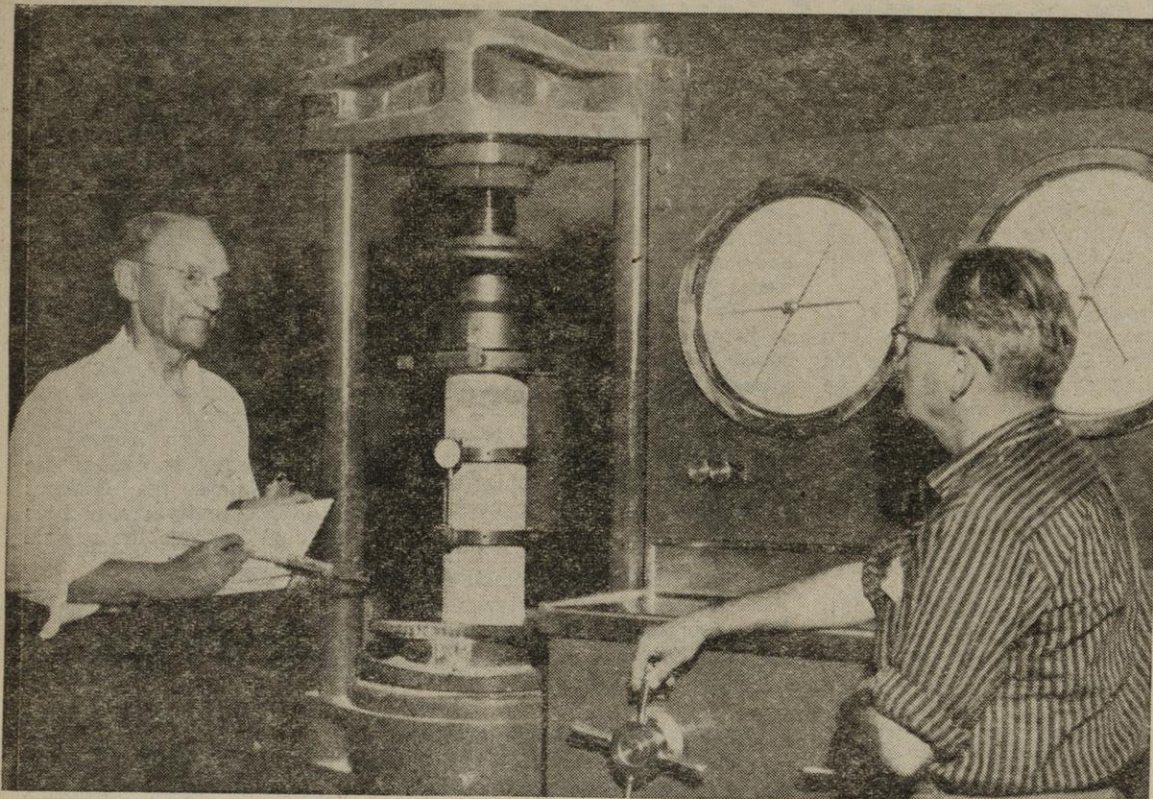
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Concrete's Strength Tested in Project . . .



RESEARCH—The man who inaugurated 100-year curing and aging strength tests on concretes and mortars at the university 50 years ago is now conducting the half-century tests on the specimens. He is Emeritus Dean Morton O. Withey of the College of Engineering, shown at left above with L. M. Basford, laboratory technician, testing the compressive strength of a 50-year-old concrete specimen in the Engineering Mechanics Laboratory. Basford has helped Withey with the concrete testing program over the past 40 years.

Century-Long Experiment . . .

Concrete Stronger With Age

The College of Engineering's 100-year tests on the strength of concrete pass their half-century mark this week.

Emeritus Dean Morton O. Withey, the man who initiated this testing program is on hand to assist in the golden anniversary tests. He inaugurated the tests of concretes and mortars in 1910, five years after he came to the university as an instructor in mechanics and in the Materials Testing laboratory.

Reaching the automatic retirement age of 70 in 1953, Dean Withey brought to a close nearly half a century of service in engineering education and research—almost, but not quite. He was immediately drafted to coordinate the university's engineering project in India which has been carried on for seven years for the U.S. government.

At their 50-year mark the tests have proved that some concrete and mortar mixes, unlike many other materials things, increase considerably in strength with age.

The tests at the half-century mark show that concrete, stored outside where it is subjected to all kinds of Wisconsin weather, becomes more than three times stronger than it was during the first days of its hardening way back before World War I.

The tests, among the first to be initiated in the U.S., are credited with giving engineers early reliable information on the aging strengths of concretes and mortars. They are still watched with great interest by construction engineers of all kinds—road, bridge, and building.

For the curing and aging strength tests, Withey explains that the concrete mixes were made into cylinders six inches in diameter and 18 and later 12 inches high for compression tests. The mortars were made into two inch cubes for compression tests

and briquets for tensile or "pulling" tests. Three series of tests were begun, one in each of the years 1910, 1923, and 1937. The 1910 series is now being tested after curing 50 years.

Different mixes were used such as a "neat" mix, 1:1 and 1:3, and 1:2:4 and 1:3:6 mixes. Translated, the "neat" mix consists of pure cement and water; the 1:1 mortar mix of 1 part cement to 1 part sand; the 1:3 mix containing proportions in that order; the 1:2:4 concrete mix consists of 1 part cement to parts sand and 4 parts crushed stone, with the 1:3:6 mix containing proportions in that order.

The specimens have been curing and aging under these conditions: outdoors, in a cellar, and indoors in water.

Under the tests, the compressive strengths of concrete increased when cured unprotected outdoors in the Wisconsin climate; while cured indoors at low humidities the strengths increased less rapidly and irregularly.

Although the outdoor exposure was not the most severe, the data from the tests so far completed, show that the concretes and mortars of usual proportions had very good weathering qualities.

Temperature measurements indicate that during the 50-year exposure, specimens of the 1910 series suffered 1,250 cycles of freezing and thawing. Under these conditions the compressive strengths of the 1:2:4 specimens increased from 1,800 pounds per square inch pressure at one month to 5,600 pounds per square inch pressure at 50 years and the compressive strength of the 1:3:6 mix increased from 900 to 3,700 pounds per square inch.

The tests also revealed that the tensile or "pulling" strength of mortar suffers more from outside exposure than does the compressive or "squeezing" strength; and that the contractions and losses

in weight of the specimens aged and cured indoors were about double those losses for specimens of the same age cured outdoors.

Withey's tests are now widely credited with giving the engineering profession reliable information about concrete and mortar strengths years after placement. This information is of great importance in estimating maintenance, depreciation, and replacement costs over the years in all kinds of concrete and mortar construction work.

Withey was awarded the Wason Medal in 1932 for his significant contributions in this field. Withey is the author of a number of bulletins, papers, and reports on his long-time studies on concrete and mortar.

RESERVE UNIT

All Army, Navy, Marine Corps and Coast Guard Reserve Officers interested in the activities of the Reserve Research and Development Unit on the campus are urged to contact either Professor T. J. Brevik or Professor H. E. Calbert for information concerning this unit. This is an ideal way to maintain an active status in the reserves and at the same time further your scientific training.

Catch Fish in Deep, Cold Water For Best Flavor, Scientists Say

The water from which fish are taken apparently influences the flavor of the fish, according to University of Wisconsin research reported in Denver, Colo., recently at the American Fisheries Society meetings. Dorothy H. Strong, J. H. Torrie, and Ruth Baldwin reported on research they conducted during the past two years. They had a panel of taste testers repeatedly compare the aroma and flavor of fish caught in several different locations and at different seasons.

One source of fish was upstream from several factories; another source was downstream from the factories including paper mills which were emptying industrial effluent into the stream. Fish from deep, cold lakes and shallow, muddy lakes were also used in the tests. Walleyed pike, northern pike, and carp were caught in each location.

For taste testing, the fish were ground up and baked. The taste panel received each sample with no knowledge of where it was caught.

Statistical analysis showed the tasters frequently gave poorer flavor and aroma scores to fish taken below the entry of effluent from the industrial plants. The tasters often described the poorer flavor as "bitter" or "woody."

Tests by the Wisconsin state committee on water pollution showed that the flowage below the effluent source contained much more sulfate than other sources did.

The researchers emphasized that the research does not prove that effluent from the paper mills or other factories actually caused the poor flavor in the fish. One difference between the waters where the fish were caught was the presence or absence of effluent from the paper mills. Other differences may have existed, and they could have affected the flavor and aroma of the fish, they stated. Future studies would have to be made to prove or disprove a direct cause-and-effect relationship.

Weight, length, or sex of the fish didn't seem to influence the taste or aroma in these tests.

Carp had a poorer flavor than the other species, regardless of where it was caught. Fish from the shallow, muddy lake were rated about the same as fish from the deep, cold lake.

Panel . . .

(continued from page 1)

gram to help find lodging for foreign students and to introduce them to the American, and campus ways of life. The big brother-sister was suggested for this, and it was agreed that Americans who had been abroad would probably be the most sympathetic and eager to help, but anyone interested will be more than welcome.

Luberg explained that there are approximately 900 foreign students attending our university, practically a college in itself. "In order to completely utilize and bring forth the talents we have here—not only for university residents, Greeks, and independents, but everyone—it would be necessary to have more organization on behalf of the foreign students," he suggested.

LUBERG also commented on the successful program of students touring the state and residing in homes for short periods of time. He pointed out, however, that this was being done by the Friends of International Students, a voluntary group of adults and faculty members. More should be done by the students themselves, he said.

PHYSICIST ATTENDS CONFERENCE

Dr. William W. Beeman, physics professor, was one of 38 educators from the United States and Canada to attend a General Electric conference on "The Science Underlying The Behavior of Materials" held Sept. 7-9 in Schenectady, N. Y.

GERMAN CLUB

The German Club will hold its first meeting of the year on Thursday at 8 p.m. in Union Rosewood.

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