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V. 62 # 14

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WISCONSIN *Alumnus*

June, 1961



Wisconsin Women's Day, see page 9.

In This Issue: Research at the University

Remember the Senior Solstice?

Solstice... a point in the year when the sun "stands still" and time seems suspended. Perhaps you remember the Senior Solstice of college days. A pausing place during your final year when you wondered whether you were moving in the right direction... whether your ambitions were clearly defined... whether you were fulfilling the needs within yourself.

Each of us should continue to observe a solstice. Moments reserved for reflection on personal planning and family security, for instance. At these moments, a Connecticut Mutual Life man can help crystallize your planning. His experience can help measure your family's needs and plan for the fulfillment of your own and your family's goals. From a wide variety of policies and payment methods he will recommend an insurance plan ideally interwoven with your particular hopes. Take a few minutes to meet a CML man; he's a helpful man to talk with.

Dividends paid to policyholders for 115 years*

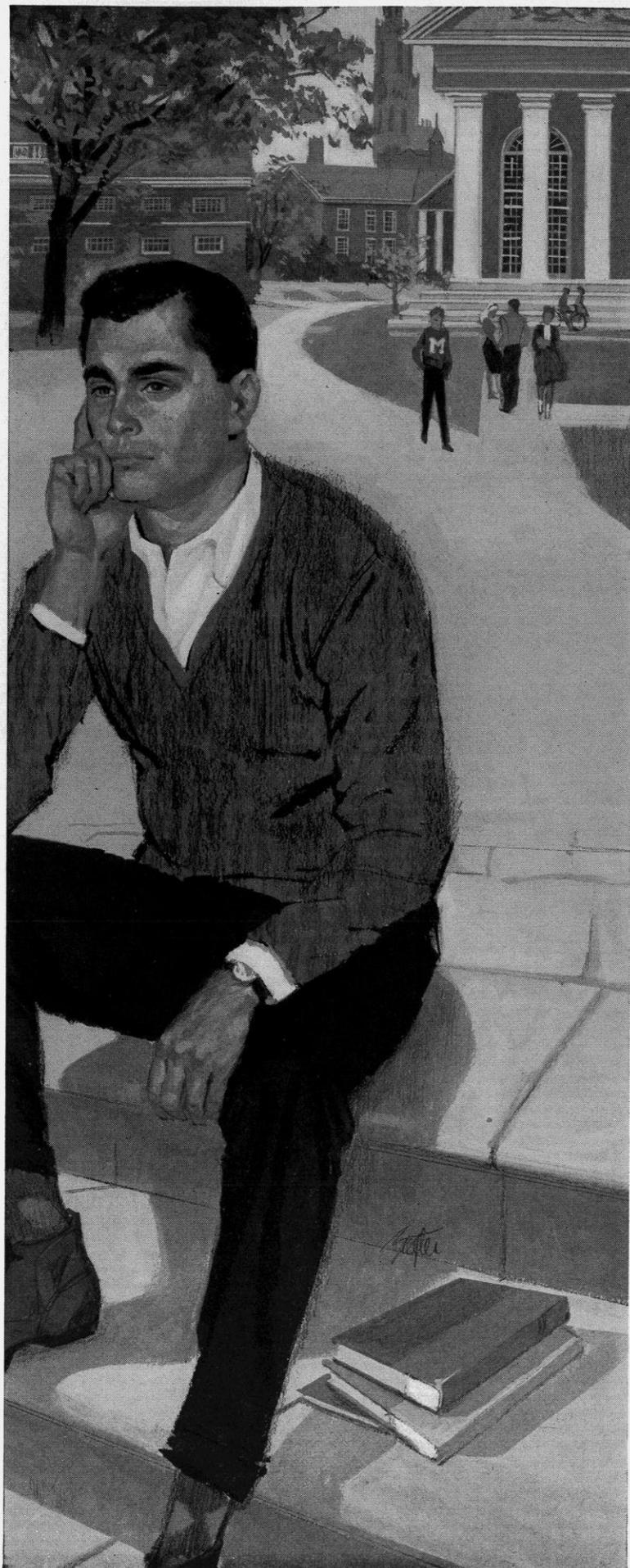
Owned by its policyholders, CML provides high quality life insurance at low cost and gives personal service through more than 300 offices in the United States.

**Dividend scale for 1961 increased 12½% over 1960.*

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INSURANCE COMPANY • HARTFORD

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William H. Pryor		Wauwatosa, Wis.
Robert E. Reichenstein	'53	Newark
Fred C. Williams		Milwaukee





Where Does Your Son or Daughter Stand ?

The Residence Halls Picture

WITH THE COMPLETION of three large units for single students in 1958 and 1959 and 650 apartments for married graduate students, University Residence Halls space was more than doubled. The pre-1958 residence halls community of 2,300 single students mushroomed to 4,300 by the fall of 1959, giving easy assurance of assignment to all applicants from Wisconsin and giving the same opportunity to many out-of-state students for the last three years.

As the fall of 1961 approaches, there is a significant change in this picture of abundant student housing space. As of April 30, applications for University Residence Halls from prospective new single residents stood at 4,769; this is 1,208 more than the number reached on the same date in 1960, the previous record year. Wisconsin statutes and Regent regulations require that preference in assignment of dormitory space be given to residents of the state if they apply before May 1, with 6% of the space reserved for non-resident and foreign students. The unprecedented number of applications has made the total housing picture difficult, and for many out-of-state students, critical.

All Wisconsin women who applied for the University Residence Halls before May 1 this year are assured of assignments for the 1961-62 academic year but it appears that very few out-of-state women applicants will be assigned. In the halls for men, all space has been assigned and there is a waiting list of 250 Wisconsin applicants who applied before May 1. Attrition due to various factors is expected to make it possible for all or most of these Wisconsin men to be accommodated, but it appears virtually impossible to accommo-

date any new non-resident men. In both the men's and women's halls, the 6% allotment permitted to out-of-state and foreign students has been filled by current residents of the halls who applied to return. Many current out-of-state residents who wished to return to the halls were not able to do so and are seeking other accommodations with the help of the University Housing Bureau.

Despite plans for substantial expansion of the University Halls and hoped for additions in the private housing field, burgeoning enrollments may keep the housing situation difficult for future years as well. Present plans call for University Residence Halls accommodations to again be more than doubled to a capacity of about 11,000 student spaces by 1970. Among the many formidable problems to be hurdled before this expansion can be realized are land acquisition, site development, and financing the estimated \$42 million cost. The University Halls are completely self-supporting and must finance this expansion from board and room revenues. Land south of University Avenue and east of Park Street for 4,000 of the new spaces is now being acquired and the completion of the first increment of 1,000 is planned for fall, 1963.

Applications for residence halls are accepted beginning October 1 prior to the academic year residence is desired, and assignments are made in order of application. Thus prospective students for the 1962-63 academic year should apply on October 1, 1961 or as soon as possible thereafter for best chance of assignment.

—Newell J. Smith

director, Residence Halls

UW Foundation

Issues a Challenge

IN RESPONSE to increased enrollments and costs at the University of Wisconsin, a group of conscientious alumni have challenged fellow alumni throughout the country to boost their financial support of their Alma Mater.

Howard I. Potter, Chicago, chairman of the 1961 Alumni Fund, heads the special Challenge Committee that will match the gifts of other alumni during the current year. Potter said, "Each man and woman on the committee has pledged between \$500 and \$1,000 to be used for the matching fund. They are prompted by the pressing needs of required University expansion and decided upon this course of action in order to stimulate other alumni to help."

The committee issued a two-fold challenge. In matching the alumni who did not contribute to the University last year, the committee agrees to contribute \$10 for every new gift of \$10 or more. During 1960 the Foundation accepted gifts from 5,525 alumni.

To encourage the donation of larger gifts, the committee agrees to contribute \$500 for every two per cent increase in the annual fund above \$250,000. That is approximately the amount given by alumni last year. Potter said, "We expect a great many former students who just never got around to sending annual gifts to their University are going to take advantage of this offer and force the committee to ante up heavily."

The Challenge Committee proposes to earmark its contribution to improve both academic excellence and campus beauty. They plan to give part of their gift to support the new Honors Program to encourage scholastic achievement at the University. The remainder will be used for improvement and beautification of Bascom Hill, Muir Knoll, and Bascom Woods. Other contributors may restrict their gifts for any purpose they wish or leave it to the Foundation to use the contributions where they are needed most.

Robert B. Rennebohm, executive director of the University of Wisconsin Foundation, said the challenge would be sent to 117,000 former students during June. "During the remainder of 1961," he added, "special effort will be made to bring this to the personal attention of all alumni. Knowing the loyal and aggressive spirit of Badger alumni through the years, I feel certain that Mr. Potter and his committee will witness a tremendous response to their challenge."

Those who have agreed to serve on the Challenge Committee are listed in the next column.

CHALLENGE COMMITTEE OF '61

1. Carl E. Steiger, Oshkosh
2. Earl E. Hunner, Palo Alto, Calif.
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4. Willis G. Sullivan, Milwaukee
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6. Malcolm K. Whyte, Milwaukee
7. Mrs. Henry P. Baldwin, Wisconsin Rapids
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11. Harold G. Laun, Chicago, Ill.
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20. Firman H. Hass, Detroit, Mich.
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24. Harvey Furgatch, San Diego, Calif.
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26. William J. Hagenah, Glencoe, Ill.
27. Charles L. Byron, Chicago, Ill.
28. Walter A. Frautschi, Madison
29. W. D. Hoard, Fort Atkinson
30. Robert T. Herdegen, Grosse Pointe Farms, Mich.
31. Raymond E. Rowland, St. Louis, Mo.
32. Dr. Noel H. Stearn, Portola Valley, Calif.
33. Leon F. Foley, Milwaukee
34. Mr. and Mrs. Max W. Zabel, Chicago, Ill.
35. Mrs. William H. Kieckhefer, Milwaukee
36. Erwin A. Meyers, Chicago, Ill.
37. Ralph E. Davis, Houston, Tex.
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39. Lester C. Rogers, Chicago, Ill.
40. L. J. Klug, Milwaukee
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Wisconsin Alumnus, June, 1961



Wisconsin Alumni Association

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See the "Atomic Energy in Action" Exhibit at the new Union Carbide Building in New York

Green thumb touch . . . for your garden

Have you always felt you need a special talent for growing beautiful flowers and appetizing fruits and vegetables? That may have been true in the past. But now you can easily have the green thumb touch . . . if you use EVEREADY lawn and garden products.

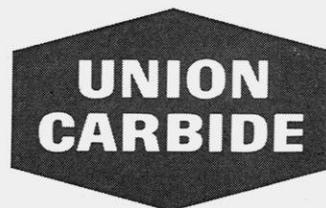
EVEREADY tomato-vegetable dust and rose-floral dust keep plants free from destructive insects and diseases. Special weed killers eliminate a tiresome chore and make it possible for you to cultivate a dream lawn. And an EVEREADY push-button spray destroys insects in the garden or the house.

To make outdoor work or play more comfortable, apply "6-12" Brand Insect Repellent to your exposed skin. It will keep mosquitoes and other biting insects away from you for hours.

These are examples of how chemicals contribute to your everyday life. In the fields of chemicals, carbons, gases, metals, plastics and nuclear energy, basic materials created by the people of Union Carbide are keeping pace with our ever-increasing living standard.

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**... a hand
in things to come**

Wisconsin Alumnus, June, 1961

keeping in touch with WISCONSIN

JOHN BERGE, Executive Director

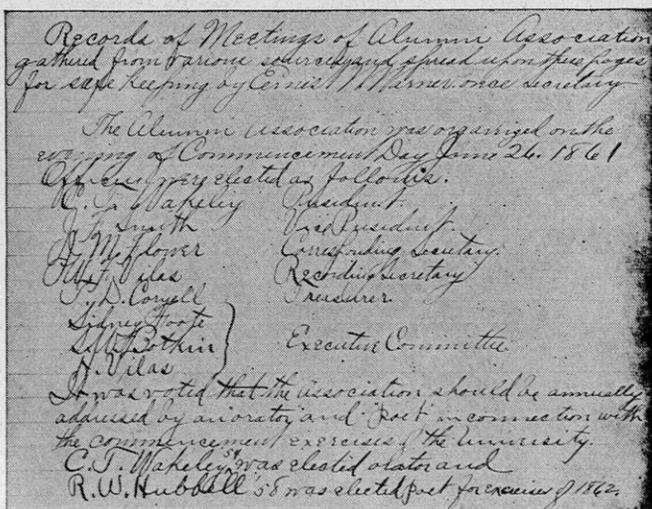
ON JUNE 26 the Wisconsin Alumni Association will be one hundred years old.

This important anniversary was commemorated at the Centennial Dinner in Great Hall in the Memorial Union on Saturday evening, June third. Four well known Badgers spoke at this Centennial Dinner:

1. President Conrad A. Elvehjem.
2. Mrs. Mary I. Bunting, President of Radcliffe College.
3. Louis P. Lochner, first executive secretary of the Wisconsin Alumni Association.
4. Carl E. Steiger, president, Board of Regents.

Unfortunately, information about the early history of the Wisconsin Alumni Association is very limited. Among the association's invaluable possessions is a massive leather-bound record book with 480 pages. This is the only record book of early Association activities, and unfortunately it includes very little information about WAA activities during the sixties and seventies.

The first page in this book records the "Minutes of Annual Meeting—June 18th, 1879." The next hundred pages include fairly complete minutes of meetings to 1911. Most of the remaining pages in this book are blank. A few pages list the members of various classes. These lists, however, are very brief, suggesting that this book was used to register the names of alumni coming back for class reunions.



On page 450 of this priceless volume is one of the rare records available on the organization of our Association. (See cut.) Other files show that the Association's founders out-

lined its primary objective in these words: To promote, by organized effort, the best interests of the University of Wisconsin. These founders placed considerable emphasis on "organized effort." They recognized the importance of teamwork in getting things done for our Alma Mater. This teamwork idea still is a dominant factor in all alumni activities. It is also the key to successful work in alumni club projects. Alumni club presidents who try to carry the ball alone rarely accomplish much.

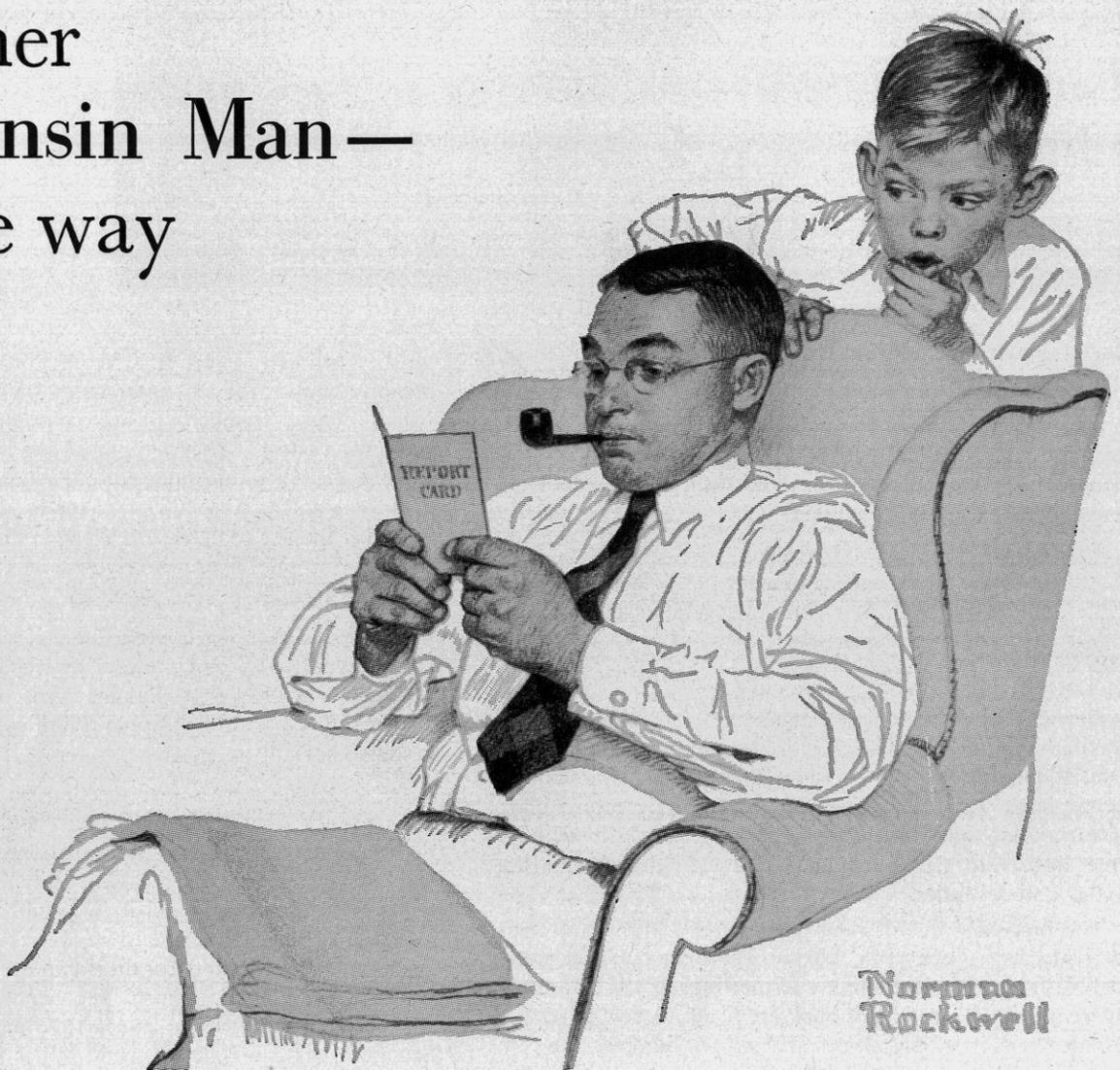
The Association's first president was Charles T. Wakeley. He received the second diploma awarded by the University of Wisconsin. The first diploma went to Levi Booth. His diploma now is on display in President Elvehjem's office in Bascom Hall.

At the Association's first meeting on June 26, 1861, it was agreed "That the Association should be annually addressed by an orator and a poet, in connection with the commencement exercises of the University." Charles Wakeley, '54, was the first orator and R. W. Hubbell, '58, was chosen as the first poet. This procedure was continued for twenty years. The list of orators for these two decades includes many distinguished alumni. John C. Spooner was chosen as orator at three commencements—1867, 1870 and 1888. The Vilas name appears five times: Levi M. Vilas in 1872 and 1886; Charles H. Vilas in 1873; William F. Vilas in 1885; and Edward P. Vilas, 1890. Another repeater was Samuel Fallows, 1869 and 1884.

The first alumni dinner was held at the Capitol House on June 25, 1862. Seventeen speakers were listed on the official program. Not all meetings were serious, as indicated by the following quotation from Thwaites' history of the University, published in 1900: "While the records are silent on this subject, the recollections of the alumni who attended the social gatherings of the Association in its early days are rife with thoughts of the flowing bowl, the witty speeches and rich stories. This was before the tempering influence of womankind was felt at these gatherings. Not infrequently did the alumni hie themselves to Picnic Point and there vie with each other in telling stories and drinking bad beer."

The July issue of the *Wisconsin Alumnus* will be our Centennial issue. For months, our editor, Arthur Hove, has been digging up facts that should make this a great issue. This issue also will include a complete story of commencement and reunion activities. To make sure that we have complete coverage on all these events, this July issue will come off the press later in the month than usual.—JOHN BERGE, Executive Director

Another Wisconsin Man— on the way



Remember when it was you standing there? How you squirmed when your father saw that one bad report card. You're glad now that he made you buckle down — grateful that you were able to go on to one of the country's finest universities.

Naturally, you want to be just as farsighted about your own son's future. So now that he's one year closer to college — wouldn't it be wise to call your Massachusetts

Mutual man and discuss the best insurance plan for his education?

And since this is the time for report cards and review, perhaps you should re-evaluate your own career. Are you as far along as a man of your ability should be? For example, are you earning as much as \$13,500 a year? That was the 1960 average income of 630 representatives who have been with the Massachusetts Mutual Life Insurance Company five years or longer.

They are men like you — men chosen for their fine education and background. All received thorough training and earned while they learned. Now they are established in a career that uniquely combines independence with stable income — plus the security of group insurance and retirement benefits.

If you would like to know more about this opportunity, write for a free copy of "A Selling Career".

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Part of Association's Centennial Year

Wisconsin Women's Day a Big Success

FOR ALL CONCERNED, the sunny dawn of May 3 was a happy portent to the celebration of the first Wisconsin Women's Day on the University campus. Indeed, the day was ideal in every respect for the 180-plus Wisconsin women who took part in the activities.

The Women's Day program began with registration and a coffee hour held in the beautiful Blue Room of the Wisconsin Center. The coffee hour, sponsored by the Madison Alumni Club, afforded a good opportunity for the incoming ladies to get acquainted.

Following this, the business of the day got underway as the women adjourned to the Wisconsin Center auditorium for the opening session on "The Future Course of the University" as seen through the eyes of members of the University of Wisconsin administration.

President Conrad A. Elvehjem led off the discussion with a talk on "The Tradition of Public Higher Education." In his address, Pres. Elvehjem spoke of the tradition of the land grant institutions and their philosophy of a quality public education for every citizen.

Then Dr. Ira L. Baldwin, professor of bacteriology and a member of the joint staff of the Coordinating Committee for Higher Education, discussed the "Dimensions of the Enrollment Challenge." Dr. Baldwin warned that in ten years the number of college age students will increase by 50% and public institutions must be prepared to take care of a doubling student population by 1970.

Next, LeRoy Luberg, Dean of Students, discussed the critical problems of "Student Admissions, Housing and Fees." After citing several facts which go to make the University's challenges in each of these specific areas especially



UW Pres. Conrad A. Elvehjem addresses the Wisconsin women as, from left, Mrs. Robert Johns, Mrs. Grace Chatterton, Prof. Fred H. Harrington, Dean of Students LeRoy Luberg, and Ira Baldwin look on. The scene is the opening session of the Wisconsin Women's Day program.

demanding, Dean Luberg said that the administration's position is that "We must not do any less (for the students) than we are doing now in spite of size."

The concluding speaker for the opening session, Fred H. Harrington, Vice President of Academic Affairs, spoke on "Quantity with Quality." Mentioning a few of the University's programs which are designed to encourage and develop students with special abilities, Dr. Harrington pointed out that, because of the tremendous strides forward in knowledge through basic research, the University's teaching methods have changed to the point that we are now teaching basic knowledge and theory instead of "how-to-do-it" courses. In this new dimension, the University of Wisconsin has

become a world university—the impact of its programs can be felt around the globe.

AFTER A BRISK and incisive question period, the women broke up to meet in specially selected seminars. There were three "Seminars for Wisconsin Women" to choose from:

"Education in Wisconsin Today" was chairmanned by Lindley J. Stiles, Dean of Education. Topics for discussion were: "The Wisconsin Improvement Program" by Clifford S. Liddle, professor of education; "The Gifted Wisconsin Child" by George W. Burchill, assistant professor of education; "New Teaching Techniques in Higher Education" by Walter A. Wittich, professor

From the Registration Desk — to the Informative Seminars and Exhibits, it was a Wonderful Day for Wisconsin Women



of education; "Is the University Student a Number or a Person?" by Chester H. Ruedisili, associate dean of Letters and Science.

The second seminar, "Creative Investments," featured Frank M. Graner, professor of commerce; Anne Adler, Mer-

rill, Lynch, Pierce, Fenner & Smith, Inc.; and Freida Mueller, partner, Robert W. Baird & Co., discussing how Wisconsin women can make their extra money go to work for them. Judging by the number of women who attended this seminar, this was an area that was

vital to the interests of a great deal of the ladies present.

The third seminar explored "The University's Influence in the Arts." In this meeting, Frederick M. Logan, professor of art and art education called on faculty members to describe the particular contribution that each of their departments was making to the situation of the arts at the University. Those who spoke were: Mary F. Fee, associate professor of physical education for women (dance); Gladys L. Borchers, professor of speech; Paul L. Wiley, professor of English; Robert G. Petzold, associate professor of music and music education; and Fannie T. Taylor, associate professor and director of the Memorial Union Theater.

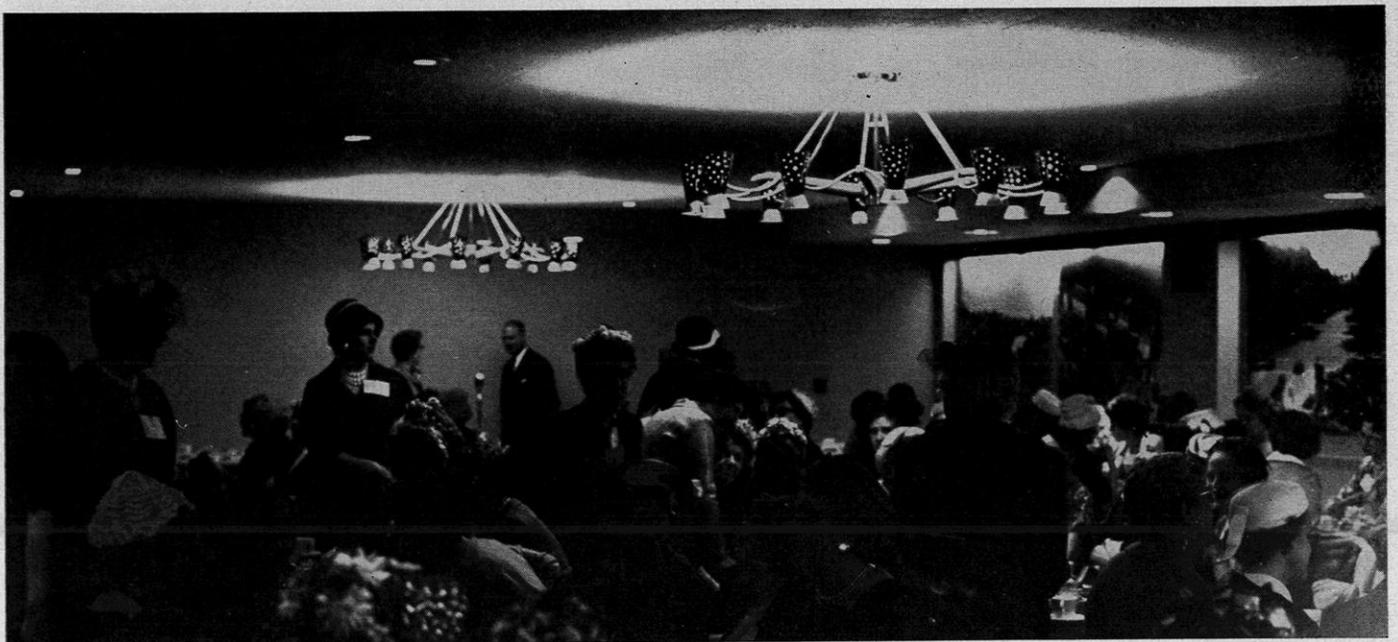
The unstinting cooperation of these faculty members was a great help in making the day a success.

The social highlight of the day followed the seminars as the women gathered for luncheon in the dining room of the Wisconsin Center. Presiding at





*Women from 36 Wisconsin and Illinois
Communities Enjoyed this Opportunity for
Socializing and Learning on the
University of Wisconsin Campus*



this affair was Don Anderson, president of the Wisconsin Alumni Association, and one of the few men at the gathering.

The featured speaker, Helen C. White, professor of English, made an eloquent assessment of the problems the University must solve if it is to remain great.

Noting that "we must have all over the state an alert and informed public opinion," Miss White went on to point out that "modern communications have made our whole world, however torn and divided, one physical and social neighborhood. Now the community we must think of goes far beyond the bounds of our state."

Realizing this challenge, the Univer-

conducted tours of the campus or a special demonstration of the automated teaching equipment in the Education Building (see the May *Alumnus*).

From all points of view, the first Wisconsin Women's Day was an unqualified success. Staged as a special feature of the Wisconsin Alumni Association's Centennial Year, the event promises to become an annual affair. The names of *all* the women who helped make the day a success are certainly too numerous to mention, but it does seem appropriate to signal out for special credit the two committees responsible for the overall planning and coordination:

General Committee: Mrs. Robert Johns, La Crosse (chairman); Mrs.



A look at the speakers' table. From left, the principals are: Mrs. Conrad A. Elvehjem; Prof. Helen C. White, main speaker at the luncheon; Don Anderson, president of the Wisconsin Alumni Association; UW Pres. Conrad A. Elvehjem; Anne Adler of Merrill, Lynch, Pierce, Fenner & Smith, Inc.; John Berge, executive director of the Wisconsin Alumni Association; Gail F. Guthrie, UW student; and Prof. Fred Logan.

sity must move ahead to meet its responsibilities. "The University will fail in its obligation," Miss White warned, "if it does not do all it can to train its students to take the larger view; but for that the University will need the support of a public that is genuinely interested in our doing that."

"This is a matter of concern if we listen to the present discussions of the University budget." It was at this juncture that Miss White concisely summed up the prospects for the University if it does not receive the moral and financial support of the people when she said, "In the life of institutions, it is very easy to slip into the second-rate without anybody's noticing."

TO CAP OFF the day, the women were given their choice of student-

Conrad Elvehjem, Dean of Women Martha Peterson, Mrs. Eldon Russell, and Mrs. John Walsh, Madison; Mrs. John Schindler, Monroe; and Mrs. Richard Tinkham, Wausau.

Program Committee: Mrs. Grace Chatterton, Madison (chairman); Mrs. David Beckwith, Milwaukee; Mrs. Richard Teschner, Thiensville; Mrs. Lindley V. Sprague, Madison; Miss Katherine McCaul, Tomah; and Mrs. Isabel Craig, Janesville.

The most important fact of the day was that when the Wisconsin women went back to their homes in such cities as Neenah, Monticello, Racine, Marshfield, and Excelsior, Minn., they were convinced that, as Wisconsin women, they play an ever increasing part in shaping the destinies of their University.

RESEARCH

life blood of the University

THERE is no questioning the fact that basic research is the life blood of a university. Without research, a university could not carry forward its academic programs; it could not improve its teaching. Without research, the whole structure of the university would collapse, for it is from the well equipped laboratories and the book-lined studies that scientists and scholars bring forth the discoveries and ideas which will change tomorrow.

The University of Wisconsin has long had a distinguished reputation for its excellence in research. Its scientists have made such discoveries as vitamin D, a test for butterfat, means of submarine detection, an anticoagulant for the treatment of heart disease, and methods of enzyme detection. Its scholars have been responsible for new ideas in the fields of education, history, social welfare, public service, labor relations, and literature.

And the scope of the research programs at the University continues to grow. On the following pages, we present the story of a few of the important research projects being carried out at Wisconsin which have made news during the past year. Although scientific research dominates this special section, we have tried to show how the humanities are playing a vital part in research activities with a report on the Institute for Research in the Humanities, and the story of a poet who was an on-campus guest of the UW Humanistic Foundation.

It must be remembered that this is only a cursory look at the innumerable research projects which are being carried on in every department of the University. There simply is not enough space to cover them all. But the important fact is that, behind the walls of the University, the lights are burning late at night as faculty and students continue to probe the secrets of man and the universe.

MURA physicists are becoming

Bubble Watchers

*University scientists
record the track
of an atomic
particle to uncover
new secrets*

A \$600,000 BUBBLE CHAMBER—one of the largest of such devices in the world—is being designed and built at Midwest Universities Research Association (MURA) in Madison.

A bubble chamber allows physicists to see atomic particles and "watch" their collisions. Invention of this device, now used extensively by atomic physicists, won the 1960 Nobel Prize for University of California physicist Dr. Donald A. Glaser.

Bubble chambers are essentially large metal cylinders filled with a superheated liquid—one just on the verge of boiling. A tiny charged atomic particle passing through the chamber is enough to start the liquid boiling and leaves a line of bubbles behind it.

Physicists "watch" atomic particles in a bubble chamber just as we "watch" a high flying jet plane by following its white track.

The MURA bubble chamber is now in the design stage under direction of University of Wisconsin physicist Dr. W. D. Walker. Working with Dr. Walker are two physicists from Purdue University, Dr. George Tautfest and Dr. Harry Fechter, and another Wisconsin physicist, Dr. Robert March.

The chamber is a stainless steel cylinder 30 inches in diameter. It will be filled with liquid hydrogen which boils at about 400 degrees Fahrenheit below zero.

A 150-ton magnet surrounding the chamber will bend the paths of the charged particles moving through it, helping each type of particle to leave its own signature written in a line of bubbles.

The bubble chamber's cylinder is fitted with a piston which puts pressure on the liquid hydrogen. When the piston is released, lowering the pressure, the liquid becomes superheated. For

about one hundredth of a second, the liquid is sensitive to particles passing through it, then it begins to boil, and the piston is pushed down, stopping the boiling.

The cycle is repeated over and over again, and photographs are made of the paths left by the particles.

High energy atomic particles are continually present in the earth's atmosphere as a result of cosmic rays bombarding the earth from space. But physicists produce these particles in large quantities and under controlled conditions in particle accelerators, or atom smashers.

The MURA bubble chamber, after completion, will be moved to the Argonne National Laboratory near Chicago to be used with a particle accelerator under construction there.

Physicists now have discovered 30 atomic particles—relatives of electrons, protons, and neutrons. They understand "weak-interactions" of these particles to a certain extent, but know little about "strong interactions." The new bubble chamber probably will be used in research to learn more about the strong interactions of the 30-odd building blocks of matter.

The Atomic Energy Commission is financing construction of the new chamber for MURA.

MURA is a non-profit corporation organized to operate a research center in the Midwest. It is composed of 15 educational institutions: University of Chicago, University of Illinois, Indiana University, State University of Iowa, Iowa State University, University of Kansas, University of Michigan, Michigan State University, University of Minnesota, Northwestern University, University of Notre Dame, Ohio State University, Purdue University, Washington University of St. Louis, and the University of Wisconsin.



This model atom smasher is the first machine to test the colliding beam principle experimentally. Two beams of electrons will be accelerated in opposite directions around the orbit described by the ring of magnets shown above.

Smashing the Atom

PHYSICISTS at the Midwestern Universities Research Association on the University of Wisconsin campus are modifying the 38-million volt atom smasher of new design for tests this spring and summer. The machine, first operated last year, is the first particle accelerator to collide two beams of oppositely directed electrons. MURA scientists designed and constructed this atom smasher to test the principle of the fixed-field, alternating-gradient accelerator which, it is hoped, MURA will incorporate eventually into a huge multi-billion volt machine.

Keith Symon, a Wisconsin physicist, is technical director of the MURA group which has been working out the new design.

Basically, atom smashers have two tasks—to give nuclear particles high energy by accelerating them to high

speeds, and to aim the particles at targets of atoms or other nuclear particles. Physicists study the resulting collisions to learn more about the structure of matter. New accelerators such as the proposed MURA multi-billion volt machine represent attempts to bring more and more particles to higher and higher energies prior to collision.

Prof. Francis Cole, a visiting MURA scientist from the State University of Iowa, said modifications now under way on the 38-million volt machine include the addition of coils to correct the shape of the magnetic field. This field guides electrons along a prescribed path within the atom smasher. The present magnetic field differs by a few per cent from that desired theoretically.

MURA scientists also are constructing a device to measure the electron beam intensity. Such a device is unusual

—most atom smashers have mechanisms to detect the position, but not the intensity, of the electron beam.

Measurement of the beam's intensity is useful with the MURA machine because new focusing methods enable it to accelerate a thousand times as many particles as was possible with previous atom smashers.

This is accomplished by circulating batches of particles at different energy levels. The batches can be accelerated in steps, then left to coast while other batches are raised to the same energy.

The large quantity of highly-energized particles produced in FFAG machines will be useful for studies of extremely rare collisions. To be conclusive, such studies often demand a great number of observations, making them impractical now but possible with the proposed multi-billion volt accelerator.

SINCE DR. HAROLD SENN came to University of Wisconsin to build and operate the world's first big biotron, he and other planners have covered a lot of ground in a search for ideas.

One engineer went to Walt Disney's studios in Hollywood; others have been in an odd building at California Institute of Technology called the Phytotron; and the biotron planners have even been aboard an ocean-going ship.

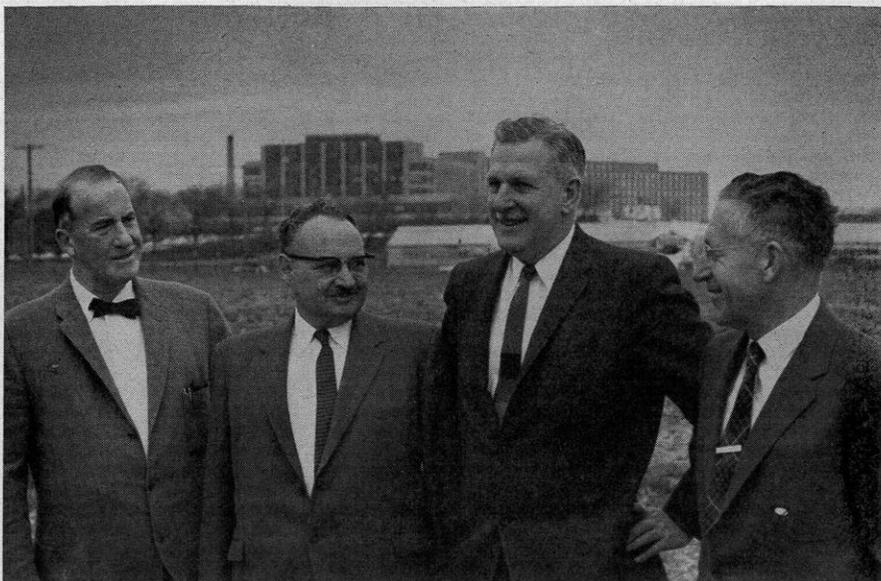
It's not quite as strange as it sounds. All these efforts, and many more, are part of the planning that is going into building the \$1,500,000 biotron, a UW laboratory with rooms in which the environments of many spots in the world can be copied. When the biotron goes into operation on the west campus, near the intramural fields, sometime in 1962, it will be used by Wisconsin, United States and foreign scientists for important research on plants and animals.

Before then, there are a million details to be thought of—mostly concerning the intricate systems of control that will be necessary to create and maintain Arctic cold, desert heat or tropical storms in this building in the heart of Wisconsin.

On one of the recent "idea missions," Robert Rodwell, a Milwaukee mechanical engineer, spent several hours in Walt Disney's Hollywood studios. He was studying procedures of humidity control, air filtration and temperature control. In Hollywood these are necessary for quality photography processes; in Wisconsin, perhaps they will provide useful clues for environment control.

Then Dr. Senn took Rodwell; A. T. Godschalk, consulting electrical engineer from Appleton; James Maloney, of the State Bureau of Engineering; and Milwaukee architect Edwin Wagner to the Earhart Plant Research Laboratory at California Institute of Technology. There, they have the world's first controlled-environment laboratory for plants only—the Phytotron—completed in 1949.

The planners studied actual operations problems there, but they won't copy the Cal Tech laboratory; there have been many advances in technology since 1949 that the Wisconsinites will want to include. "We're trying to take



Members of the Biotron Building Committee gather on the projected site of the unique building. The committee includes: Prof. Roland K. Meyer, zoology; Prof. Harold A. Senn, botany; Prof. Folke K. Skoog, botany; and Prof. Robert H. Burris, biochemistry. The United States Forest Products Laboratory can be seen in the background.

The New Biotron

Controlled Environment

advantage of the most modern technology we can," said Dr. Senn.

Recently there was the inspection of the ship—the Mormacpride, a cargo liner about to leave Milwaukee harbor for Argentina on her second voyage. It was a new method of air handling used in the ship that attracted Dr. Senn, a high pressure air system using four-to-five-inch steel tubing to save space and to move air at six times the usual speed.

"We may never use any of these systems," said Dr. Senn, "but, in the biotron, we intend to try to save space and also to prevent the spread of contamination in the air through the building. We have to think in terms of sanitation comparable to hospital sanitation for some of the experiments that may eventually be carried on here."

Research in the biotron will deal with many aspects of the growth, development and behavior of plants and animals as related to their physical environment.

Dr. Senn has been interested in controlled environment facilities for about

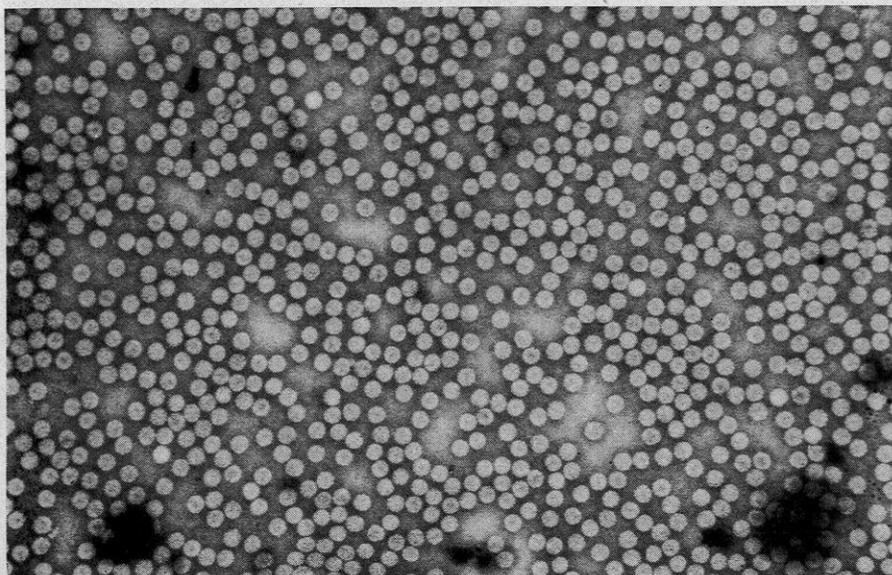
10 years. He came to Wisconsin from Ottawa, Canada, where he was with the Department of Agriculture as director of the Plant Research Institute. Before he was invited to become UW's director of the biotron, he had spoken with men in charge of controlled plant environment projects being developed in France, Australia and New Zealand. These will all be phytotrons—for plant study only. Wisconsin's biotron is for both plants and animals and parts of the laboratory will be designed to study animals as large as a horse.

"In some ways, the animal side of it will be much more pioneering," Dr. Senn said, "because many universities have some rooms with controlled environments for plants.

"The biotron," he said, "is not really a building. It's more like a machine, with a building as a shell around it. There will be a lot of automation and it will need only a small staff. The experiments that will be done there will cross many disciplines, for the project is not the idea of any one department."

PORTRAIT

of a Virus



The "umbrella-like" circles in this photograph are the smallest known viruses, recently purified, analyzed, weighed, and photographed at the University of Wisconsin.

THE SMALLEST VIRUS known to science has been purified, weighed, chemically analyzed, photographed and taken apart at the University of Wisconsin.

UW Prof. Paul J. Kaesberg and biochemistry graduate student Larry E. Bockstahler believe their work on this project could lead to new knowledge of viruses that cause hundreds of diseases. Some of these virus-caused diseases, Dr. Kaesberg said, are cancer, polio, rabies and hoof-and-mouth disease. Just as important, the simplicity of the virus and its relatively small amount of hereditary material could lead to new information about heredity.

"What we have now," said Dr. Kaesberg, "is a virus that can be grown easily and in large quantities; one that is safe to work with; one that seems typical, and much like polio or the small cancer-producing viruses. Maybe studies of how this virus infects, and

what effects it has on other cells, will carry over to considerations of other viruses."

The virus is Bromegrass Mosaic Virus, BMV for short, which causes mottling and streaking of the leaves of smooth Bromegrass, a common prairie grass. The virus can infect grain crops like wheat, rye and corn. This much had been known for some years, but the surprising smallness and simple structure of the virus was a lucky accident, helped along considerably by the researcher's scientific curiosity. Their research in UW's Department of Biochemistry was supported by Wisconsin Alumni Research Foundation (WARF) and the National Institutes of Health.

More than two years of work went into the final scientific "portrait" of the virus drawn by Dr. Kaesberg and Bockstahler. They found a virus with a molecular weight of $4\frac{1}{2}$ million, a little smaller than the next smallest

virus (molecular weight $5\frac{1}{2}$ million) and less than half the size of the quite small polio virus whose molecular weight is about 10 million.

By comparison, typical viruses that attack bacteria are much larger, more complicated, and have heads and tails. One typical bacterial virus called T-2 has a molecular weight of 240 million. This makes the whole BMV virus only about twice as thick as the tail of the T-2 virus and a little less in weight than T-2's tail alone.

Dr. Kaesberg estimated that about 3,000 BMV viruses side by side would make a pile as thick as the page you are now reading.

More important, perhaps, is that the BMV plant virus contains only about half the amount of hereditary material that the small polio virus does, and only about one-hundredth the amount found in a typical bacterial virus. The hereditary materials—either DNA or RNA—are the substances which carry the chemical information on how to reproduce.

Viruses are parasites. They cannot reproduce themselves, but must infect other organisms and force them to learn the job of virus-breeding. Viruses apparently achieve this sabotage by attaching themselves to their "host" cells and passing a chemical lesson on reproduction through their RNA or DNA. Viruses may be rod-shaped, cylinder-shaped or round, but generally they are little more than a certain amount of hereditary material enclosed in a protecting "overcoat" of protein.

Being spherical, BMV is similar in structure to the many larger viruses that cause hundreds of diseases. One of these is the polyoma virus—the best known of the viruses that cause cancer in experimental animals.

"In basic virus work the structure is one big answer we look for," said Dr. Kaesberg. "For most of these spherical viruses, we feel sure they're made of sub-units, but we know only roughly how many there are. For the animal viruses we know nothing on this. Ideally, we'd like to know the structure of the other spherical viruses and how they attach themselves to other cells and infect them. This all depends on their structure, and the BMV virus seems not unlike some of these other viruses in structure."

AN ADVENTUROUS PROJECT to launch satellite observatories capable of taking precise astronomical measurements from high altitudes in space is under way at the University.

Under a \$104,992 contract between the University and the National Aeronautics and Space Administration, the UW is one of five institutions participating in NASA's orbiting observatories program. The others are Harvard, Princeton, the Smithsonian Institution, and NASA's own Goddard Space Laboratories.

Prof. Arthur D. Code, chairman of the astronomy department, explains that for the immediate future, the work in this cooperative effort will be concentrated on launching three satellites to carry telescopes of various sizes and to be devoted to problems concerned with ultra-violet light. At altitudes in excess of 100 miles, the "flying" observatories will escape the problems presented by the earth's atmosphere. They should then be able to see the ultra-violet light that comes from the stars and to transmit their measurements to earth by electronic methods.

The first of the orbiting observatories

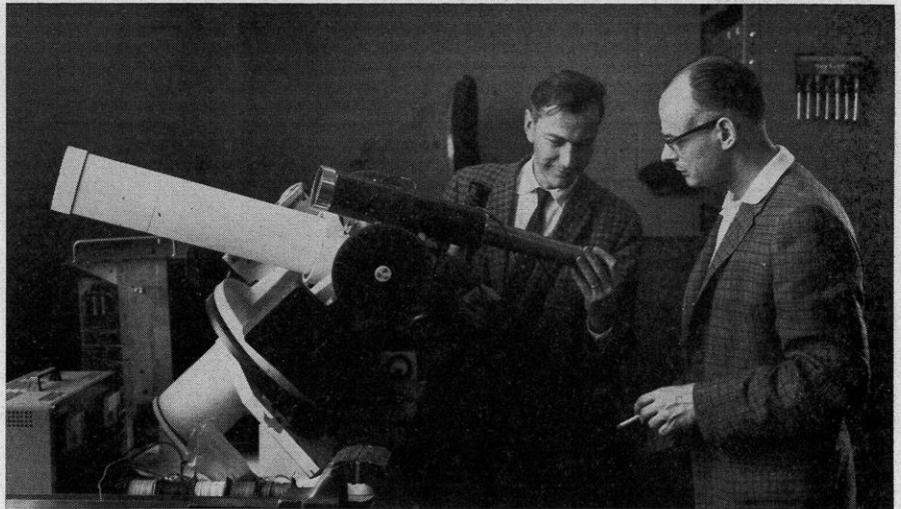
will carry a number of small telescopes for UW experiments on the brightness of stars in the ultra-violet. Wisconsin will share this satellite with the Smithsonian Institution which will be doing photography of the skies by television techniques in the ultra-violet. The second satellite will carry an ultra-violet spectrograph for the Goddard Space Labs; the third, a high dispersion ultra-violet spectrograph for Princeton.

It is planned to lift the observatories into orbit with Atlas rockets topped with Agena B Boosters. A number of these Agenas have already been success-

fully launched in other space experimentation, Code points out, "and there will be many more before ours go up."

Wisconsin hopes to get the first of the orbiting observatories into space by 1963. UW scientists hope, also, that once orbited, a satellite will continue to operate satisfactorily for at least a year.

UW astronomers will be responsible for the design of the telescope instrumentation "and for everything necessary to carry out the actual experiments." According to Dr. Code they will construct experimentally some parts in order to test out certain ideas.



Prof. Arthur D. Code and Prof. Theodore E. Houck looking over a piece of apparatus that will be used in conjunction with the satellite observatories program.

Star-Gazing Satellites

Though the first satellite will carry relatively small telescopes for Wisconsin investigations, UW astronomers expect to launch later in the program a single 'scope as much as 36-inches in diameter and "something in the order of a ton in weight.

"We know what we're asking for," Prof. Code stressed, "but we don't know how it will come out." Orbiting observatories, he added, will be the most complicated of any of the satellite vehicles now under consideration.

UW astronomers working on the satellite project include: Dr. Code (in a part-time capacity); Prof. Theodore Houck, as director of the work; Robert Bless and Dan Schroeder, project associates; and a number of graduate students.

a special group of humanists are—

SPRING BREEZES that gently sway the pines, move interesting patterns across Lake Mendota, and caress the new green grass on the slopes of Observatory Hill on the University of Wisconsin campus, have their special part to play in research as well.

The Old Observatory on the hill, now the Institute for Research in the Humanities, has stood for 81 years looking out on spring as it came to Wisconsin. It has seen college couples slowly walking at dusk, studying on the grass by day, and witnessed the changes in time from when it stood proudly as one of the finest astronomical observatories in the Midwest to the present when it stands . . . still proudly . . . as a haven for scholars of the humanities.

Inside this brownstone structure with its telescope gone from its dome, there is a quiet air of discovery as seven well-known humanists delve into their fields of research and study.

The large office-conference room of Institute director Prof. Marshall Clagett is an expanse of mahogany bookshelves filled with volumes on art, history, science, and mechanics from the Middle Ages to the Greek empires to the Renaissance to missiles and astronauts.

An expert on the history of science, Clagett has written many of the most complete works on the history of science and mechanics and those who made these histories. He has directed the Institute since its inception in 1959, and this year was named a Phi Beta Kappa visiting scholar to give lectures at other universities' Phi Beta Kappa chapters during the year.

Prof. Emmett L. Bennett, Jr., who came to the Institute last year as a visiting professor has been retained as a permanent half-time Institute professor and spends the remainder of his time teaching in the UW classics department. Bennett, editor of the unique periodical *Nestor*, devoted primarily to work in Mycenaean language and culture, is one of a handful of American scholars who have discovered the key to "linear B"

Scholars on Observatory Hill



The staff of the Institute for Research in the Humanities includes: Miss Germaine Bree; Friedrich Solmsen; Eugene Kaelin; Marshall Clagett (standing); Robert Reynolds; and Jan Vansina. Not present for the picture was Emmett L. Bennett, Jr.

the root of the Mycenaean language of the Mycene community in central Greece of pre-Christian days.

The third permanent member of the Institute is Prof. Germaine Bree, who joined the staff this year. Mlle. Bree, a prolific writer and student of contemporary French literature, is considered to be an authority on Albert Camus and Marcel Proust. She served in the French resistance during World War II as an ambulance driver because of her "deep feelings for my people and their plight." She has been a professor at Bryn Mawr College, and came to Wisconsin from New York University where she was chairman of the French department and served as chairman of the graduate program in romance languages of the NYU Washington Square College.

Other members of the Institute faculty are Prof. Eugene Kaelin, philosopher and UW faculty member serving this year as American Council of Learned Societies fellow; Prof. Robert Reynolds, historian and UW faculty member this year serving as inner-university rotating professor; Prof. Jan Vansina, anthropologist from Belgium and an expert on African oral history; and Prof. Friedrich Solmsen, classicist and visiting professor who returns to his post as chairman of classics at Cornell University at the end of this academic year.

The Institute is supported from four sources: the ACLS, the Herbert F. Johnson Foundation of Racine, the Anonymous Trust Fund of the University, and the Wisconsin Alumni Research Foundation.



Poet Meredith with UW students

*Humanistic Foundation
Brings Distinguished Writers
to the Campus*

*Exploring
Man's Soul*

POETS ARE NOT responsible for hurling complicated satellite packages into space—although they might celebrate such an event in their writings—nor do they undertake investigations which might give us information about the physical functions of the complicated processes of nature. But poets do serve a purpose. They are the adventurers who explore that territory which is beyond the scrutiny of any machine or scientific apparatus. Poets plumb the complicated labyrinth that is man's soul.

Just such a poet—William Meredith—was a guest on the University of Wisconsin campus for two weeks in April. Meredith was brought to the University as a writer-in-residence through a grant from the UW Humanistic Foundation. During his stay, the poet gave two public lectures (one a reading of his poems, the other a critical assessment of the poetic situation), visited with several English and creative writing classes, and spent a great deal of his time conversing with Wisconsin students, reading their poetry, and criticising their efforts. But these were only some of Meredith's official commitments—often he was prevailed upon by faculty and

students to engage in conversation and literary activities which were not on his official schedule. So in his two short weeks on the campus, Meredith conferred and visited informally with as many as were willing to see him.

The highlight of the two weeks was Meredith's lecture on the nature of poetry, entitled "The Ceremony of Numbers." As he conceives of it, Meredith feels that poetry is a part of human behavior (this is the ceremony) and is part of a deliberate esthetic involving numbers in the form it takes. But, whatever the case, "Poetry should touch the common reader, celebrate the universe, and give delight." In that light then, "the chief concern of the poet is that he must know the secret of the human heart or he must know the secrets of human speech."

Because he is continually experimenting with combinations of words, "the poet is the highest authority of language," and he is the one most likely to be conscious of contemporary changes of speech. Thus "the literary artist must know the language of his time." In emphasizing this last point, Meredith cited the example of T. S. Eliot—"His feeling for the past has cost him a feeling for the present."

Meredith believes that "the content of every poem is . . . social." And, poetry can only say to us: live according to what you have seen.

"The poem, in the final sense," Meredith said, "is a ceremony to honor something the poet himself believes in."

William Meredith is a member of a younger generation of poets who, removed from such journeyman practitioners of the poetic art as Eliot, Ezra Pound, Wallace Stevens, and W. H. Auden, are beginning to establish a reputation of their own as their list of published work grows. Meredith's contemporaries include such craftsmanlike poets as W. S. Merwin, Richard Wilbur, W. D. Snodgrass, James Merrill, and Donald Hall.

Meredith himself has published three volumes of poetry: *Love Letter from an Impossible Land* (1944); *Ships and other Figures* (1948); and his most recent, *The Open Sea and Other Poems* (1958). Born in New York City in 1919, Meredith graduated from Prince-



Marianne Moore

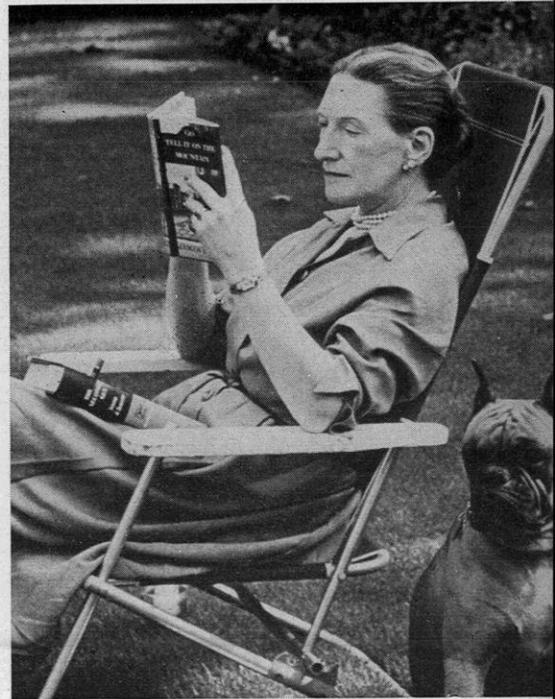
ton in 1940, worked for a while as a copy-boy and reporter for the *New York Times*, and then served as a navy pilot in the Second World War and, later, in Korea. He has been a Woodrow Wilson Fellow at Princeton, taught at the University of Hawaii, and is currently an assistant professor of English at Connecticut College.

The UW Humanistic Foundation has been responsible for bringing many outstanding literary figures to the Wisconsin campus for extended stays. In the last five years, such distinguished writers as Marianne Moore and Elizabeth Bowen have been on the campus to discuss the problems of literary creation with students and faculty alike.

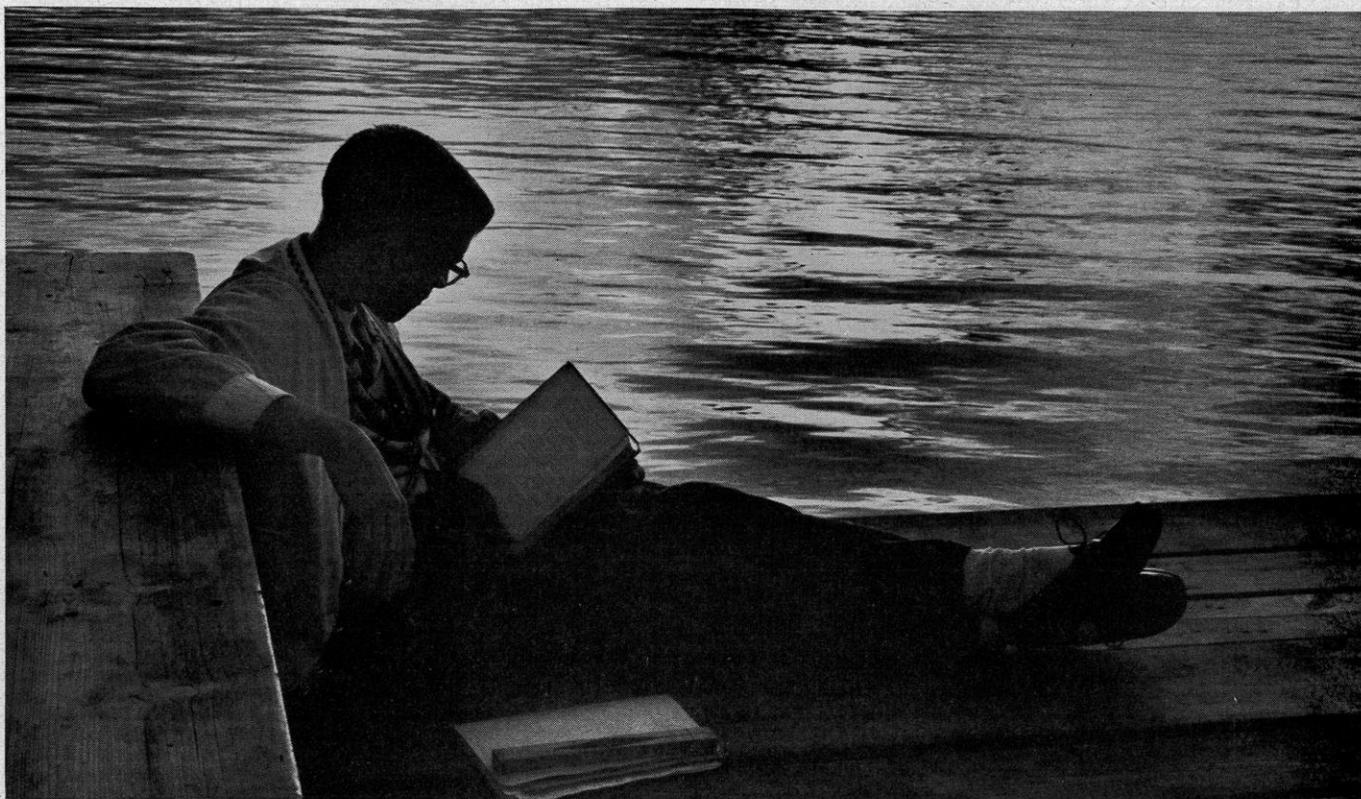
The Humanistic Foundation was established in 1955 through a gift of \$170,000 from the late Prof. Howard L. Smith who joined the University fac-

ulty in 1900 as a professor of law and served until his retirement in 1926. Prof. Smith's will said that the fund he left should "be expended in the promotion of liberal culture, or humanism in the University of Wisconsin, especially in the field of poetical and imaginative literature, art and philosophy." The will further stipulated that the fund could "be used for the creation of fellowships and their maintenance, or to attach to the University men distinguished in literature, art or philosophy, with or without teaching responsibility whose presence at and membership in the University may tend to create and maintain an atmosphere of culture."

The Smith Fund has been an invaluable source of support for programs in the humanities, and the University faculty is thankful for the opportunity to be able to hold programs which lend so much to the cultural atmosphere of the campus. Although little of a spectacular nature ever comes out of a writer's visit to the campus, the knowledge and experience of the human condition that he leaves behind may, in the ultimate sense, be considered as exciting and significant as the conquering of new worlds.



Elizabeth Bowen



Full Program of Studies Available

New Look in Summer Sessions

SUMMER SCHOOL is no longer just for kids. Right here on the Madison campus, for example, 70% of the 1960 summer population was made up of graduates and specials, part-time students from every business and profession. In addition, well over 18,000 adults attended the non-credit institutes, conferences, and clinics held from June to September.

And there is good reason for the Summer Sessions' popularity. UW Summer Sessions epitomize a distinguished University in action in an inspiring lakeshore setting. Sessions varying in length from two to ten weeks, over 700 courses and seminars in 78 major fields of study, some 60 institutes and conferences, great libraries and laboratories, superior student living and social centers—all combine to make a summer of study at Madison both fruitful and enjoyable.

Summer enrollments have climbed 40% in the past five years and are expected to go even higher in 1961. This year's increase will be due in part to a survey conducted by the University which resulted in significant, you-asked-for-it improvements.

In line with a request from the State Coordinating Committee on Higher Education to give "vigorous encouragement to students to take advantage of summer offerings"

and spread the use of campus facilities through the year, the UW asked over 1,000 students and staff members, "If you were the Summer Sessions Director, what would you do?"

Summer Session Changes

Acting on their recommendations, the University made ten important changes in the summer program:

1. Students may now register in advance, in person or by mail, including signing up for courses and paying fees. This gives instructors advance notice of teaching loads and eliminates registration-day lines.

2. In the Eight-Week Session, June 20–August 11, classes begin on Tuesday, with the deadline registration period on Monday and Tuesday, June 19 and 20, not Friday and Saturday. The new schedule eliminates a "lost weekend" for both students and staff.

3. Only "assignment committee courses" require departmental stamps on student study lists, saving a good deal of registration time.

4. A simplified fee schedule is based on the number of credits carried rather than the length of the session.

5. A new Four-Week Session, July 3–28, begins late and ends early so that teachers and other professional people can better fit it into their schedules.

6. The timetable has been modified to include more classes in the cool of the morning, allow more afternoon time for library and laboratory, and avoid conflicts in room and class assignments.

7. There is more lakeshore housing this year than ever before.

8. A special bulletin describing outstanding cultural offerings on campus and in the community is available for the first time.

9. New courses and conferences in special areas make the 1961 curriculum unusually diversified.

10. Youth Education Sessions, a new program for high school students, incorporates workshops in art, journalism, and speech as well as the traditional music clinics.

Alumni Seminar Programs

But these innovations are only part of the story. Another reason for the steady growth in summer enrollments is the great interest in noncredit offerings for adults. The Wisconsin Alumni Seminar, three years old this month, is an outstanding example of this type of program.

Designed to serve mature men and women who want to return to the campus for a period of intellectual stimulation and enrichment, the Seminar is open to alumni of any college or university and their husbands and wives. This year, for the first time, participants may register for brief one- or two-week sessions or for the entire six-week program.

The Alumni Seminar offers the maximum in summer study enjoyment. Meetings are held in the morning and late afternoon in the new Wisconsin Center building; early afternoons and evenings are free for recreation, study, or visits to nearby scenic and cultural attractions. Meals are served in the

Wisconsin Center, and housing is provided at modern Lowell Hall, just one-half block away.

Three main areas will be studied during the 1961 Seminar:

1. "The Bases of Our Western Culture as Symbolized by Three Cities—Athens, Rome, and Jerusalem" . . . June 25–July 15. One week will be devoted to the civilization and influence of each city. Enrollees may participate in any one-week program or in all three.

2. "The Nature of the Non-Western World" . . . July 16–29. A two-week study of the philosophy, religion, language, and literature of, and present-day changes in China, Japan, and India.

3. "People, Problems, and the Public Interest" . . . July 30–August 5. This program will focus on a number of contemporary domestic political issues, and attempt to develop a broader and deeper understanding of them.

Each program will be under the personal direction of a distinguished UW faculty member. 1961 Alumni Seminar leaders are Dr. Hazel S. Alberson, associate professor of comparative literature, who is well known for her WHA program, "Books That Have Made Civilization;" Dr. Edward C. Fei, professor of economics, who has a remarkable background of education in China, Lebanon, Pakistan, and Turkey; and Dr. John W. Ryan, assistant professor of political science, UW Bureau of Government, whose activities have ranged from the government of Thailand to the training of public officials in Wisconsin. Guest lecturers will be called in to give emphasis to specific areas of study.

For further information on the 1961 Summer Sessions, address Dean L. H. Adolfson, Summer Sessions, Extension Building, University of Wisconsin, Madison. Applications and details on the 1961 Wisconsin Alumni Seminar are available from the program coordinator, Professor Robert H. Schacht, The Wisconsin Center, 702 Langdon Street, Madison.

Leisure-Time Learning

IF STUDENTS THINKING about coming to school at Wisconsin this summer wondered, "What do I do with my leisure time?" a new brochure in this season's Summer Sessions mailing obligingly provided a suggestion.

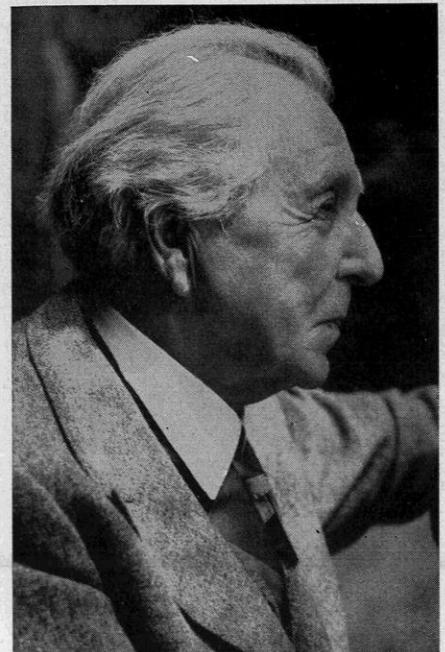
Its title? "Leisure-time Learning."

This isn't to imply that the lake and the Union Terrace are going to be declared off limits this summer or that acquiring credits has become incompatible with acquiring some degree of Wisconsin suntan.

It's just that Wisconsin's summer program hasn't been left to the landscape.

It might be argued that classrooms, library, and laboratories for necessity plus lake and landscape for natural luxuries are enough for a UW summer session. Perhaps in this setting it's not necessary to offer students rewarding

Frank Lloyd Wright (right) will be the subject of a special exhibition and institute this summer.



and interesting things to do during out-of-classroom hours or to provide facilities for students' use in leisure time.

Not so, has been the University's reaction.

Wisconsin's emphasis on providing for students' leisure recently showed up in Colorado Springs at an international conference on "Higher Education and the National Purpose" where Prof. Porter Butts, director of the Wisconsin Union, was keynote speaker.

Pointing out that never since history began have so many men had so many hours of leisure time for achievement as now, in America, Butts emphasized that "the leisure time we have gained truly could mean, social and cultural historians agree, a better civilization—if we could come by quality in the use of it."

It is in quest of quality in use of leisure that the regular sessions' cultural, recreational, and social program moves and the summer program keeps pace.

Areas for learning at leisure range from the performing arts through the graphic and plastic arts to an extensive outing program. In putting these possibilities into type, the new brochure even discloses some of the finer points of perch fishing on Lake Mendota.

Summer students can see four Wisconsin Players productions in the Union theater and also have the opportunity to try out for parts and to work backstage. The Union's experimental theater, The Play Circle, houses studio plays and play readings and "distinguished foreign films, films you missed, and films you want to see again" each weekend.

The Summer Sessions music program ranges from chamber music recitals in Music Hall by the Pro Arte Quartet, university artists-in-residence, to band concerts on the Union terrace. It also features more than half-a-dozen recitals by groups of outstanding high school musicians who come to the campus from all over the country to attend the Extension Division Summer Music Clinic. Faculty recitals presented as part of the Music Clinic curriculum offer still another possibility.

At any season of the year the graphic and plastic arts are emphasized at Wisconsin, and the emphasis continues through summer, with exhibitions on view at the Union, Memorial Library, and Art and Art Education galleries as



The Modern Jazz Quartet will appear during the Summer Prom weekend.

well as at the Wisconsin Center and the State Historical Society.

"The Aesthetics of Frank Lloyd Wright: Wisconsin Architect" highlights the summer exhibitions at the Union, appearing in conjunction with an institute on the late architect set for July 24-26. The University Department of Art and Art Education presents the institute in cooperation with the Taliesin Fellowship. The program includes films, panels, symposia, and tours of Wright's world-famous home, Taliesin East, at Spring Green, and of Wright-designed homes in the Madison area.

IN ANOTHER FIELD—the art of living outdoors and liking it—the sign of the horseshoe dominates. The horseshoe with the "W" superimposed on it means Wisconsin Hoofers, the Union's outing club, where many students each summer learn how to sail, climb a mountain, or pitch a tent. Hoofers' six clubs operate on the theory that everybody likes to do what he does well, so help for beginners is the order of the day.

The Union's International Club and Graduate Club have programs with the art of getting to know and understand others in mind. Friendship Hours give foreign students a chance to know Americans and vice versa, and grad club get-togethers every weekend give graduates the chance to know people outside their own departments.

Learning goes on behind the scenes of the purely social, too, as students work to plan, promote, and produce events like the gala lakeshore Union Open House which opens the summer

Social season and Summer Prom which closes it.

The social area has a first to its credit this summer—a Prom-Party Weekend July 28 and 29. The idea behind it is that many Wisconsin students not enrolled in the Summer Sessions might want to come back to campus for a weekend this summer.

THE RESULT was that the Modern Jazz Quartet was booked for a pair of concerts in the Union theater on the night before Prom, with the combination of show and dance adding up to a July "homecoming" weekend. The Union Music and Social committees which sponsor the weekend even offered a "Buy now, play later" package in May where students could get special rates by purchasing tickets early for "MJQ and Prom, too."

Students also present film and forum programs in summer, and both Union committees and the Wisconsin Student Association Summer Board interview for committee members. The *Daily Cardinal*, campus newspaper, looks for staff members to help meet a three-day publishing schedule, and the Union theater recruits ushers for theater attractions.

Religious center programs also continue at full stride in summer, with activities ranging from religious services, study and discussion groups to suppers, picnics, and ball games.

The result is that leisure-time learning happens on a variety of levels: in the theaters, in the galleries, on the lakefront, and in committee meetings. And, like everything else at Wisconsin in summer, it's indoor, it's outdoor, it's lakeshore.

Wisconsin Alumni Are on the Air for 102 Hours a Week

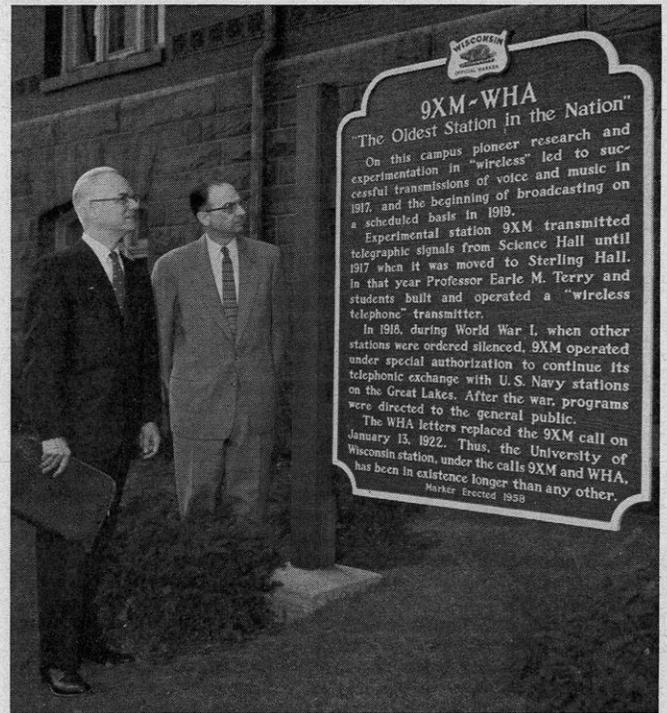
by Doris Ardel

WHEN 102 HOURS out of a 168-hour week are devoted to broadcasting, it takes a well-organized, integrated group of people interested in presenting the best of Wisconsin to Wisconsin, as well as the world. To steer that broadcasting course for the Wisconsin State Broadcasting Service is a group of University of Wisconsin graduates who daily pour their collective talents back into Wisconsin. The results—a state-wide network whose operation and programming is known throughout the world.

The eight FM stations and two AM stations reach into every corner of Wisconsin and the bordering states with programs designed to satisfy every age group. Wisconsin School of the Air, Wisconsin College of the Air, farm features, Homemakers, drama, literature, news and current events, forums and discussions, sports, music, and miscellaneous features are programmed in such a way as to reach the widest audience at the best possible time.

At the helm of this network is H. B. McCarty, U. W. graduate and director of the Wisconsin State Broadcasting Stations. From one station—WHA—Director McCarty, (in 1931 program director for University station WHA)—with the assistance of Harold Engel, associate director of the state stations (also joining WHA in 1931) has built the Wisconsin State Broadcasting Service into the biggest network of its kind in the world. Billed as “the oldest station in the nation”, because of its continuous telephonic broadcasting activities since 1917, educators from all parts of the world visit Radio Hall on the University of Wisconsin campus to learn, observe, and take educational broadcasting knowledge back with them to their respective countries.

An outstanding part of the Wisconsin State Broadcasting Service programming is the Wisconsin School of the Air. Under the direction of associate director Arlene McKellar, on May 5, 1961, the Wisconsin School of the Air completed its 30th year of broadcasting to children in elementary classrooms of the state. In-school listening reports indicate 723,155 course enrollments for the thirteen courses offered by the School of the Air. This represents listening by 289,262 individual children. Miss McKellar is not only responsible for the radio School of the Air, but the television School of the Air as well. Ruth Plakias, another Wisconsin



Viewing with pride the historical marker which proclaims WHA as the “oldest station in the nation” are H. B. McCarty, director of the Wisconsin State Broadcasting Service, and Harold A. Engel, assistant director.



Music sets the mood for the many fine Wisconsin School of the Air productions. Checking over a proposed musical background are: Karl F. Schmidt, WHA production manager; Donald J. Voegeli, musical director; and Claire Prothero Kentzler, production assistant.

graduate, writes the scripts for several School of the Air broadcasts, which comprise 2.5% of a composite week on state stations broadcasting schedule. Besides devoting her time to radio scripts, Mrs. Plakias also contributes her talents to the writing of television scripts for School of the Air programs.

While the Wisconsin School of the Air is an operation in itself, there is 97.2% of broadcast time left for the state network. 102 hours per week means a staff of announcers, continuity writers, production people, music programming, recording, engineering, and public relations personnel, all working together to present the finest and widest variety in radio broadcasting. And University of Wisconsin graduates,



Top: Cliff Eblen, program supervisor of the state stations, is shown with Mrs. Barbara Carlson, continuity assistant; Mrs. Ruth Lynott Plakias, script writer; and Arlene McKellar, of the Wisconsin School of the Air program.

Center: Dividing their time between radio and television are: Roy Vogelmann, news director; Ken Ohst, chief announcer; and Ray Stanley, project director of the television laboratory.

Bottom: John H. Stiehl, chief engineer, is pictured here with Noel J. Thompson, maintenance engineer; and Ernest L. Engberg, chief studio operator. These men are responsible for a battery of tape machines and for maintaining eight FM and two AM stations on a 102-hour broadcasting schedule.

who came from all parts of the country, have stayed to contribute their share to this medium.

Coordinating the various features which must go into the makeup of a composite week on the state stations, is Cliff Eblen, program supervisor. Mr. Eblen seeks out the best radio talent on the University campus for broadcasting, besides screening tape recordings from broadcasting services all over the world.

Ken Ohst, chief announcer for the state stations, is responsible for state station announcing "talent" as well as the University television station—WHA-TV. Twice a year, Mr. Ohst holds auditions for student announcers. From as many as 100 young aspirants, Mr. Ohst may select only one or two to undergo a training session for state station broadcasting. These announcers, picked for good voice quality, have such various academic backgrounds as mathematics, economics, business administration as well as speech majors. An interest in the medium, and a willingness to work and learn, plus a definite voice quality, often earn these "volunteers" a position on the student announcing staff.

Under the guidance of Karl Schmidt, state stations' production manager, the production department is mainly responsible for all locally-produced Wisconsin School of the Air programs. Mrs. Claire Kentzler, of the production staff, often has the assistance of a student volunteer in producing the 11 locally-originated programs, which are part of the series of 13 programs offered by the Wisconsin School of the Air. For national distribution WHA produced sixty programs for elementary and junior high schools under grants-in-aid since 1955. These grants-in-aid received from the National Educational Television and Radio Center totalled \$13,700 in 1960. And the Center also allocated \$5,330 for a grant-in-aid to produce an adult series—"To Every Man His Due." This is the tenth series of programs to be produced under similar arrangements, with production grants now reaching a total of \$50,640.00.

Music director Donald Voegeli, not only improvises music as background for many of the Wisconsin School of the Air productions, but writes original themes for the programs as well. His magic keyboard touch is heard frequently during music interludes throughout the broadcast day. The Sunday morning stereophonic concert carried on WHA and WHA-FM is produced by Mr. Voegeli.

Besides providing about 30% of the broadcast day on tape recordings, WHA maintains a well-equipped recording laboratory which offers its services to other University and State agencies. Under the direction of Ernest Engberg, state stations chief studio operator, during a year's time approximately 500 recordings are made. Some 13,000 tapes are made for distribution during a year to commercial stations from such state agencies as the Department of Agriculture, Conservation Department, U. W. Extension Division, 4-H Clubs, and the State Medical Society. And miscellaneous recordings are made throughout the year of conferences, workshops, concerts, and other events as a service to the people of Wisconsin.

Engineering-wise, eight FM stations and two AM stations, all dependent upon the "mother" station—WHA—keep a staff of technicians under the direction of John H. Stiehl, state stations' chief engineer, busy well beyond the 102-hour

broadcast week. While Mr. Stiehl keeps the various network stations on the air, Noel Thompson, WHA maintenance engineer, keeps Radio Hall equipment in top working condition. Again student helpers, under the guidance of Mr. Thompson, and with engineering background and know-how, contribute their share in offering the best radio possible by improving equipment and offering their ideas for better operation of equipment at Radio Hall.

News and current events comprise 7.8% of a composite broadcast week on the state stations. Offering the finest in news commentaries via Roy Vogelmann, state stations news director, morning news programs are often taped off the air by teachers for playback to their students. Mr. Vogelmann

also contributes his time to news programs for both radio and television, and for adult-television viewing in the evenings via WHA-TV, University Station. His news broadcasts are not limited to the familiar, incoming teletype copy, rather his programs include editorials from leading newspapers and magazines, scanned daily, and selected for their quality in reporting the news of the world.

102 hours a week of radio broadcasting—specializing in presenting the best of Wisconsin to Wisconsin. The Wisconsin State Broadcasting Service abounds with University of Wisconsin graduates pouring their talents back into Wisconsin—and the results—a network whose influence is felt around the world.

MARK A. INGRAHAM, one of the University of Wisconsin's most able administrators, has decided to step down from his position as dean of the College of Letters and Science and "to return to other duties chiefly in the Department of Mathematics."

In a letter to University Pres. Conrad A. Elvehjem, Dean Ingraham voiced two principal reasons for relinquishing his post. "First," he said, "I find it difficult to keep abreast of my work and at periods of greatest pressure fail to do so." Under these conditions, and with an imminent need to increase the staff of the dean's office, Ingraham feels that any reorganization should be the responsibility of his successor.

Secondly, Dean Ingraham has some distinct reservations about the balance of contemporary society and its effect on our universities. In his letter to Pres. Elvehjem, he made several statements which point up personal concern for the preservation of a society founded on the



fundamental base offered by a liberal education.

Mark Ingraham was born in Brooklyn, N. Y., in 1896. He did his undergraduate work in economics at Cornell University and then came to the Midwest and the University of Wisconsin where he received his M.A. degree in mathematics in 1922. In 1924, he received a Ph.D. in mathematics from the University of Chicago.

Ingraham began his academic career when he was named an instructor of

mathematics at Wisconsin in 1919. In 1921-22, he was a UW fellow in mathematics and, from 1922 to 1924, he was a mathematics fellow at Chicago. This was followed by an assistant professorship of mathematics at Wisconsin, 1924-26, and at Brown University, 1926-27. In 1927, he returned to the University of Wisconsin to stay as a full professor.

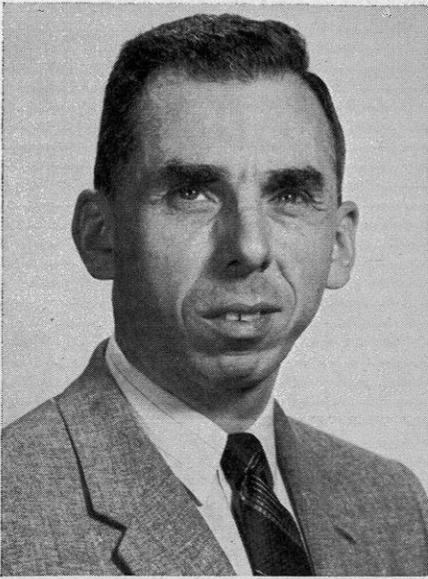
In 1942, Ingraham was elevated to the post of dean of the College of Letters and Science. He is the third man in the history of the University to hold that distinguished post. His predecessors include such famous Wisconsin names as E. A. Birge, who held the post from 1891 to 1918 when he became president of the University, and George C. Sellery, who was dean from 1918 to 1942.

Aside from his regular duties at the University, Dean Ingraham has been active in professional associations. He was president of the American Association of University Professors in 1938-39, and associate secretary of the American Mathematical Society from 1927 to 1942. He is a fellow of the American Association for the Advancement of Science, and a member of the Institute of Mathematics, the American Mathematics Society, the Mathematics Association of America, Phi Beta Kappa, and Sigma Xi. In 1952, he was elected to the board of trustees of the College Retirement Equities Fund at the incorporation meeting of the organization in New York City.

In accepting his resignation at their April meeting, the Regents unanimously voted "to express their deep appreciation to Dean Ingraham for his many significant contributions to the University," during his 19 years as head of the University's largest college.

Will Return to Teaching

Mark Ingraham Retires as L & S Dean



IN THIS AGE of mutual distrust and recurrent world tension, governments rush to protect themselves from the horrible potentialities of an Armageddon. To guard against complete destruction by a surprise, all-out missile attack, the United States and its allies are developing several early warning devices which

utilizing infrared. The operational analysis and system design was proposed to the Air Force in June of 1956. This system was subsequently included in the Air Force satellite program, and many of the original concepts developed by Knopow at that time are familiar and valuable infrared techniques today.

In 1958, Joe Knopow was appointed department manager for the infrared missions assigned to Lockheed. His original concept was developed into a weapons system of broad scope. Because of the rapid system development and the significance of MIDAS in the National Defense effort, he was appointed MIDAS Division manager in 1960. Under this arrangement, he has the administrative and technical responsibility for this multi-million dollar program.

Mounted atop an Agena B, MIDAS is an advanced version of the Discoverer/Agena satellite. It measures over 25 feet long and five feet in diameter, and is boosted to near orbit altitude by the Air Force Atlas ICBM. The MIDAS program calls for the orbiting of satel-

ous departments. Following this, he became a design engineer for the Thodarsen Electric Manufacturing Company in Chicago.

From 1940 to 1945, Knopow was chief instructor with the Air Force Technical Training Command where he supervised the instruction of Air Force personnel in the theory, design, maintenance and operation of radio and radar equipment. The experience he gained with the Air Force qualified him for his next position, that of production engineer responsible for naval airborne radar sets and radar controlled guided missiles with the Western Electric Company in Chicago.

During the next two years (1945-47), he was a design engineer once again. Knopow worked with the Belmont Radio Company in Chicago, designing intermediate frequency and video amplifiers for commercial television receivers as well as microwave test equipment. Then he went to the Bureau of Aeronautics in Washington as a project engineer, supervising, testing, and evaluating prototype and experimental anti-submarine warfare and radiological defense equipment.

With the outbreak of the Korean War, Knopow once again teamed up with the Air Force. From 1951 to 1955, he was responsible for all technical and operational aspects of Air Defense guided missiles.

In 1955, Knopow became associated with the Lockheed Aircraft Corporation, Missiles and Space Division. Since that time, he has made many significant contributions to satellite research and development. In his first year with Lockheed, Knopow designed a reconnaissance system employing an advanced state of the art, techniques, and theory to fulfill a vital military requirement. Later he directed an investigation to establish the feasibility of a particular satellite payload application. Then he was sub-system manager for the Sentry Weapons System Project and was responsible for the technical direction of the development of a particular payload for the Sentry System.

Until we can learn to live in a peaceful world governed by the rule of law, developments such as Joseph Knopow's MIDAS are becoming increasingly important to our prospects of meeting the challenges of the future.

Father of the

MIDAS

will insure the possibility of mounting a devastating retaliatory force in the case of a surprise attack. One of these defense systems now under development is MIDAS (Missile Defense Alarm System). The man responsible for the technical direction and for the over-all guidance and coordination for the development of MIDAS is Joseph J. Knopow, a 1936 graduate of the University of Wisconsin.

As one of the first members of the Missile Division of Lockheed Aircraft Corporation, Joe Knopow suggested the design of a surveillance satellite system

lites equipped with infrared sensors to detect the heat of a ballistic missile rocket shortly after leaving the launching pad to provide early warning against attack.

Joe Knopow's development was no momentary revelation; it was the end product of a remarkable record of experience in the field of electronics. Shortly after he received his Master's Degree in electrical engineering from the University of Wisconsin in 1937, Knopow joined the Radio Corporation of America where he worked for two years as an engineer doing work in vari-

THE INSISTENT din of building—the sound of jackhammers, cranes, earthmovers, and cement mixers—has transformed the Wisconsin campus this spring as the University moves ahead to meet the demands of increasing enrollment and the expansion of knowledge. Wherever one looks, excavating and the subsequent construction is changing the profile of the campus from week to week.

The University's expansion is graphically evident in the construction of three new buildings which should be completed within the next year and a half. The first to be completed will be the \$2.8 million unit of the Chemistry Building, located on Johnson Street between Mills and Charter. Next in line for completion is the new Extension Building, a \$1.8 million structure located on Lake Street between University Avenue and State Street. And finally, encroaching on the fringe of Bascom Woods is the \$2.5 million Social Studies building which will be situated directly behind and will serve as a complement to the Carillon Tower.

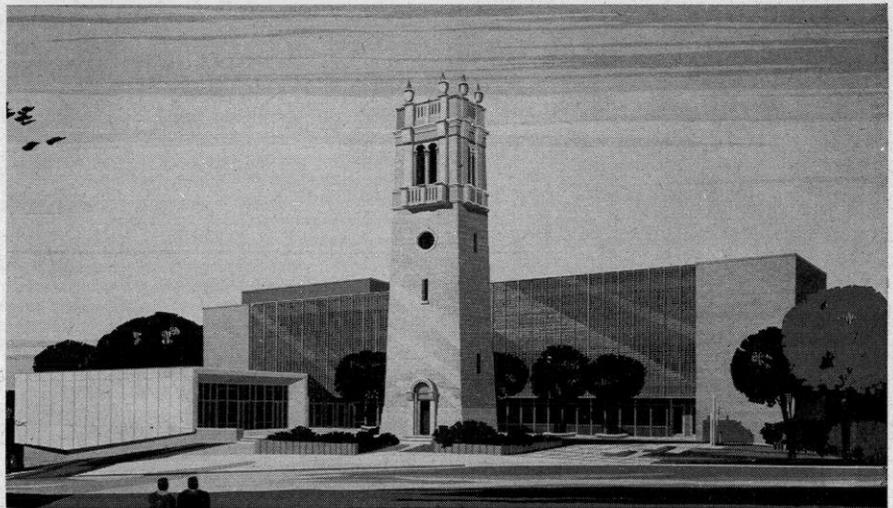
Soon a \$2 1/4 million mathematics building will rise in the vacant area between Bascom and Sterling Halls.

But the Madison campus is not the only sight where the University is building. In Milwaukee, a new, \$2.7 million Science Building is being completed and readied for fall use, and the construction of a \$1.8 million Fine Arts Building is well along the way. Also, new extension center buildings are in the offing for Green Bay, Kenosha, and Manitowoc. These buildings are built and owned by the individual counties but are equipped by the University.

In any case, the immediate needs of higher education in Wisconsin and in the nation, for that matter, assure us of the fact that continued building and change will characterize the development of the University for many years to come.



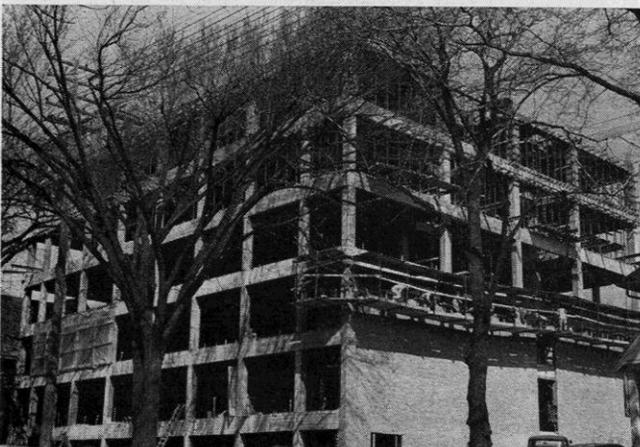
Part of Bascom Woods has been sacrificed . . .



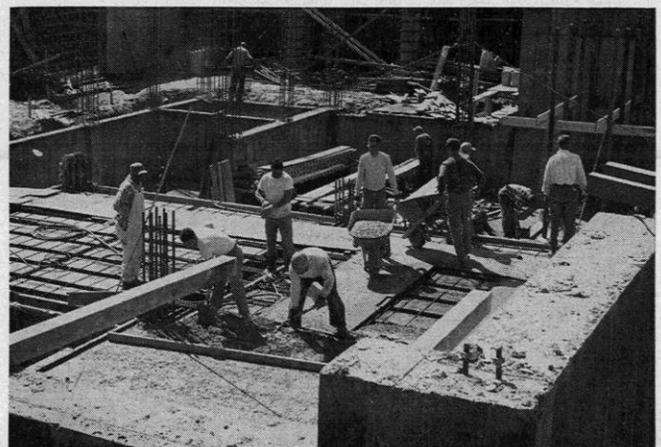
. . . to provide badly needed classroom and office space in the new Social Studies building.

New Buildings Change Campus Profile

Progress on the Chemistry Building is obvious.

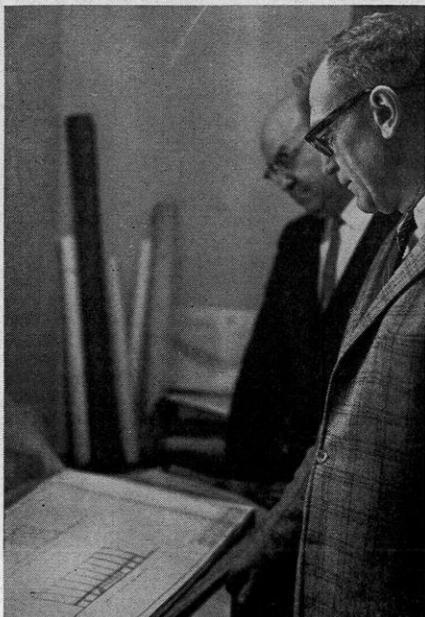


Construction has begun on the Extension Building.



Gym-Swimming Pool Plans

Approved by Building Commission



Athletic Director Ivan B. Williamson and John C. Hickman, swimming coach, check over plans for the new swimming pool-gymnasium unit.

LAST MONTH the State Building Commission gave its approval to plans for a \$1.6 million "substitute" swimming pool-gymnasium to be built on the University of Wisconsin campus.

A motion by Sen. Alfred Laun (R-Kiel) received unanimous approval, thus giving the go-ahead to the project which will be financed entirely from university athletic receipts.

Kurt Wendt, dean of the College of Engineering, said that the new plans are a "good substitute" for the original \$2.6 million project which exceeded the amount that athletic receipts could finance.

As a result of the May action, the University was authorized to complete blueprint plans, take bids, borrow the necessary construction money, and finally to build the project. Plans call for the letting of bids and a start of construction by mid-autumn, and for completion of the building in 1962.

Dean Wendt is chairman of the Campus Planning Committee which will proceed with the project, subject to approval by the Board of Regents. He said that the new building will provide "training and exercise (facilities) for the general student body" and will be used for intercollegiate athletic purposes only two or three hours daily. Wendt also noted that it is generally conceded that Wisconsin has "the worst swimming facilities" in the Big 10 Conference and in the entire nation for a school its size.

The building will include a 75' x 60' swimming pool and a diving pool. There will be seating facilities for 500 spectators, a reduction from the original

plans for 2,000 seats. The seating area can be expanded later to 2,000. The gymnasium area will measure 40 by 120 feet and will include physical education classrooms, offices and locker room facilities.

Dean Wendt indicated that the cost of the project has been reduced by about \$1-million by reducing the amount of gymnasium space and changing from a reinforced concrete structure to steel frame construction.

Athletic Director Ivan Williamson says that the new gym has "the best location for the greatest number of students", that is, next to the University baseball field and outdoor track on Observatory Drive near the dormitory complex.

Contrary to some beliefs, the new building will not affect the presence of an old Wisconsin landmark. Dean Wendt has indicated that the "Old Red Gym" which now provides the only swimming facilities for men students, will have to continue in use until other gymnasium facilities are constructed as part of an overall physical education construction program.

The new pool-gym building represents about one-fourth of that program. Before the old red armory can be razed, the pool-gym building will have to be expanded and another large men's gymnasium will have to be constructed. In addition to the men's facilities, a long-range plan has been developed for a women's gymnasium.

Only the present pool-gym building will be financed independently by athletic receipts. The additional buildings will require the support of state funds.

Retire In Madison *at Moderate Cost* in VILAS TOWERS



A Spot You've Always Dreamed About

Wisconsin Avenue At Langdon Street Overlooking Lake Mendota

Act at once. Over 90% of our two bedroom apartments have already been reserved. Applicants 62 years of age are eligible. Fill in the coupon.

Soon to be built, VILAS TOWERS, in downtown Madison, where you take a lifetime lease for as low as \$9,900; where the monthly charge for single apartments (maintenance, utilities, exquisite dining, health care and medical insurance, social, recreational and educational facilities) will be less than \$5 a day. Enjoy complete independence, luxurious retirement in beautiful Madison.

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Please send me your Free Brochure on Vilas Towers, covering facilities and costs.

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CITY _____ STATE _____



Call AL 5-5105

Association Rewards

Outstanding Students



These outstanding Wisconsin students were given awards by the Wisconsin Alumni Association. Bottom row, from left: Joanne Wagner; Gail Guthrie; Nancy Natwick; and Ann Curry. Top row: Ray Hamel; James Nafziger; James Loken; Marvin Bauer; and Daniel Webster.

SCHOLARSHIPS AND AWARDS totalling \$775 were awarded to nine outstanding University of Wisconsin students by the Wisconsin Alumni Association. The students were recognized for their records in scholarship, extra-curricular activities, and degree of self-support. A special Alumni Association committee, headed by Prof. William B. Sarles, chairman of the University of Wisconsin bacteriology department, selected the winners from among 19 junior and senior candidates.

Nancy Natwick, Wisconsin Rapids, was named outstanding junior woman by the committee and received a \$100 scholarship. She has been active in Associated Women Student activities and received sophomore high honors last year. Runner-up winners and recipients of \$70 scholarships were: Ann B. Curry, Delavan, general co-chairman of the New Student Program; and Joanne Wagner, Madison, general chairman of the Honors Day program.

The outstanding junior man award, a \$100 scholarship, went to James A. Nafziger, Madison, who is secretary-treasurer of MACE, junior men's honorary society. Three honorable mention awards of \$75 each went to: Marvin A. Bauer, Chicago, president of the Class of 1962; Ray O. Hamel, Madison, president of the Wisconsin Student Association; and James B. Loken, Park Ridge, Ill., president of Theta Delta Chi fraternity.

Two outstanding seniors each received life memberships in the Wisconsin Alumni Association valued at \$100. They were Gail F. Guthrie, Lac du Flambeau, president of Kappa Kappa Gamma sorority, and Daniel E. Webster, Milwaukee, president of the Wisconsin Union.

In addition to Prof. Sarles, the members of the awards committee included: Mrs. John J. Walsh; Mrs. James S. Watrous; Neil J. Burmeister and Ralph Timmons, all of Madison.

**One million people
alive today
have been cured
of cancer!
Read why!**

**Many cancers can be cured
—if detected in time! Your
best insurance against cancer
is an annual health checkup
—and knowing the 7 danger
signals of cancer!**

WHAT DOES a doctor mean when he says his cancer patient has been cured? He means the patient is alive and well, without evidence of the disease, five years after diagnosis and treatment.

There are over a million Americans who have been cured of cancer—because they *acted in time!* Because of early treatment. Because they had annual health checkups. Because they knew the 7 danger signals of cancer.

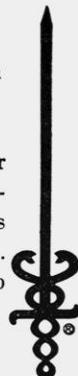
These are listed below. Study them. Remember them. You might save your life that way!

The 7 danger signals of cancer

1. Unusual bleeding or discharge.
2. A lump or thickening in the breast or elsewhere.
3. A sore that does not heal.
4. Change in bowel or bladder habits.
5. Hoarseness or cough.
6. Indigestion or difficulty in swallowing.
7. Change in wart or mole.

If your signal lasts longer than two weeks, see your doctor. Only he can tell if it is cancer. Guard your family. Fight cancer with a checkup —and a check to the:

**AMERICAN
CANCER SOCIETY**



alumni news

Before 1900

Theodore W. BRAZEAU '97, who served in the state Senate in 1907 and 1909, recently addressed the Senate. He sponsored the first unemployment compensation bill in the United States.

Brig. Gen. Roy F. FARRAND '00 is retiring as president of St. John's Military Academy in Delafield, Wis. He has been associated with the academy for 69 years and has served as president for nearly 38 years.

1901-1910

Mrs. Freas M. Long (Agnes KNUDSON '07) was honored at the convention of the Wisconsin division of the American Association of University Women held recently in Madison. The Madison branch presented a gift of \$500 in her name to the Mary Andersen Memorial Endowment Fund in recognition of Mrs. Long's continuing interest and loyalty to AAUW through the years.

Herman BLUM '08, chairman of the board of Craftex Mills, Inc. of Pennsylvania, and founder and director of The Blumhaven Library and Gallery, announces the publication of his new illustrated book, "The Loom Has a Brain," which elaborates on the history of the textile industry.

1911-1920

St. Joseph's College has named Karl F. KIELSMEIR '12, president of Crystal Dairy Products, Inc., to its board of lay trustees.

Franklin S. HALLADAY '13 has retired as chief engineer and manager of industrial development for Green Bay & Western Railroad, after completing 47 years of service.

Russell F. LEWIS '15 has been reappointed assistant superintendent of public instruction for the State of Wisconsin.

Milton B. FINDORFF '16 has been elected chairman of the board and chief executive officer of J. H. Findorff and Son, Inc., construction contracting firm in Madison.

Frank THAYER '16, professor of Journalism at the University of Wisconsin, is retiring after 25 years at the University.

Mr. and Mrs. Paul T. NORTON, Jr. '17 have sold their home in St. Petersburg, Fla. and will be traveling abroad for the next year. Mr. Norton has been retired from his professional career as engineer for seven years but has been conducting studies in the field of depreciation on an informal basis.

Harold F. CONNORS '17 has resigned as superintendent of the Hurley school district after serving as superintendent for six years.

1921-1930

Villiers MELOCHE '21, professor of chemistry at the University of Wisconsin, has been elected president of the Wisconsin chapter of Phi Kappa Phi, national scholastic honor society.

James E. OSTRUM '23 was presented with the Gold Key Award at the 1961 convention of the Columbia Scholastic Press Association held recently in New York City. Mr. Ostrum is adviser of publications at Roosevelt High School and director of public relations in the Wyandotte Public School system, Wyandotte, Mich.

Porter BUTTS '24, director of the Memorial Union at the University of Wisconsin, was honored recently by the American Association of College Unions for 25 years of service to the association as editor of its publications.

William L. DOUDNA '26 is resigning as arts and entertainment editor of the *Wisconsin State Journal* to become editor and publisher of the *Sunnyslope Journal* and the *Arizona Reporter*, two weekly newspapers published in Phoenix, Ariz.

Clarence E. BRAY '26, head of the Valders (Manitowoc County) Community Schools for 37 years, has announced his resignation due to poor health.

Angus B. ROTHWELL '28 has been elected Wisconsin's state superintendent of public instruction.

Ingolf RASMUS '29 has been elected secretary of the Wisconsin Alumni Club of Chippewa Falls.

Dr. Grover A. J. NOETZEL '29 is resigning as Dean of the School of Business Administration at the University of Miami. He will return to the University of Miami in the fall as professor of Economics.

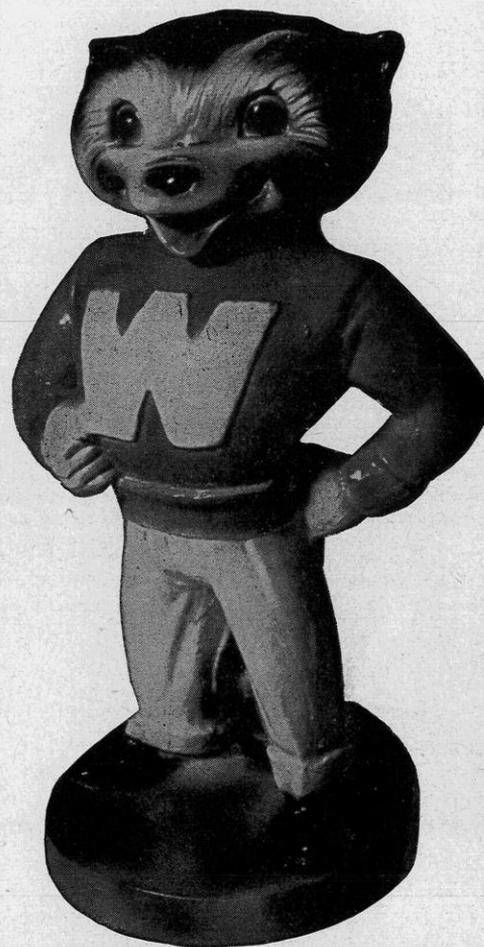
Donald B. HARTER '29 has been appointed director of development at Simmons College, Boston, Mass.

Allen J. STRANG '29 has been elected vice-president of the Wisconsin chapter of the American Institute of Architects.

Donald C. LYNN '30 has been named president of the Wisconsin Mutual Insurance Co., Madison.

Herbert J. SCHWAHN '30 is one of six Wisconsin alumni listed in the 1961 Roster of the Million Dollar Round Table of the National Association of Life Underwriters. The other five alumni listed in this roster include Walter S. DRYBURGH, Jr. '39, Harold A. LIBAN '42, John R. STILB '44, Robert S. HINDS '56, and Allen R. KOR-

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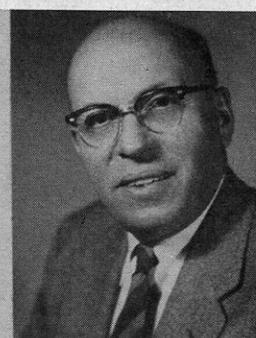
Muegge



Young



Chyle



Ennor

Top Engineers Honored

FIVE MEN widely known in engineering and industry, four of them graduates of the University of Wisconsin and three of them leaders in Wisconsin industry, were cited for outstanding accomplishments in their fields at the 13th annual Wisconsin Engineers' Day celebration, May 5. The five engineering-industry leaders were recommended for distinguished service citations by the UW College of Engineering faculty and Pres. Conrad A. Elvehjem, and the recommendations were approved by the University's Board of Regents.

Citations were awarded to:

John J. Chyle, director of welding research, A. O. Smith Corp., Milwaukee;

William T. Ennor, assistant director of research, Aluminum Company of America (ALCOA), Kensington, Pa.;

Oswald J. Muegge, state sanitary engineer of the Wisconsin State Board of Health, Madison;

Merrill A. Scheil, director of metallurgical research, A. O. Smith Corp., Milwaukee; and

Frederick M. Young, founder of the Young Radiator Co., Racine.

The citations were presented at the 13th annual Engineers' Day dinner held in Great Hall of Wisconsin's Memorial Union. More than 400 engineers and industrialists from throughout the state and nation attended the event.

Four of the men honored this year are UW engineering graduates—Chyle in 1924, Ennor and Muegge in 1923, and Scheil in 1927. One of them, Ennor, served as an instructor at the University. Three of them—Young, Chyle, and Scheil—are top executives in Wisconsin industries. All are active in professional societies in their fields and in civic and business life of their communities.

BEL '57. Every member of the 1961 Round Table must have sold at least a million dollars of life insurance in 1960 or must have attained Life membership by having sold a million yearly for three years in succession.

1931-1940

Lawrence T. BURDICK '32, Arlington, Va., has been named director of information for the President's Committee on Employment of the Physically Handicapped.

Clarence B. WEGNER '33 has been appointed General Legal Counsel of the Los Angeles Army Ordnance District.

Arnie F. BETTS '35 has been appointed manager of publicity and public relations for Allied Van Lines, Inc., Broadview, Ill.

Boyd ANDERSON '36 has been assigned to the research group which is studying the air terminal under construction for Dulles International Airport.

Emmett L. TABAT '36 has been named vice-president of marketing for the Power Tool division of the Rockwell Manufacturing Co.

Harris A. LA CHAPELLE '35 has been appointed chief engineer and manager of industrial development of Green Bay & Western Railroad.

Robert W. MAERCKLEIN '37 is now

president of Maercklein Advertising, Milwaukee.

Mrs. Edward L. SPEER (Mary ROWLANDS '39) has been named secretary of the Wisconsin Alumni Club of Racine.

Gerald O. T. ERDAHL '40, director of the College Union and coordinator of social-cultural affairs at North Carolina State College in Raleigh, is the 1960-61 president of the International Association of College Unions. He is also serving as a vice-president of the Association of College and University Concert Managers.

Sanford FARNESS '40 has been appointed director of the Southeastern Wisconsin Regional Planning Commission of American Motors Corporation.

Richard F. REDFIELD '40 has been named branch manager for the Remington Rand Univac Division of Sperry Rand Corp., Milwaukee.

1941-1945

Robert P. YEOMANS '41 has been elected vice-president of The Trane Co., and will supervise the company's European activities.

Dr. Joseph R. PROWLER '42 has been named a Diplomat of the American Board of Oral Surgery. Dr. Prowler has practices in Racine and Kenosha.

Charles J. MULLENS '42 has been named

a co-partner of the Walker C. Rhodes Insurance Agency, Madison.

Nathan S. HEFFERNAN '42, deputy attorney general, will serve as chairman of the 1961 Democratic State Convention which will be held at Eau Claire in October.

Sam F. GRECO '42 has been appointed domestic sales manager of Harley-Davidson Motor Co., Milwaukee.

Mrs. Henry COOK (Dorothy ALLEN '43) is the new secretary of the Wisconsin Alumni Club of Shawano.

William D. KREBS '47 has been appointed Special County Judge for St. Lawrence County by New York's Governor Nelson Rockefeller.

Warren MARLOW '43 has resigned all his interest in Delzer-Marlow Lithograph Co. and will devote his efforts to new personal business plans.

Dr. Howard V. MALMSTADT '43, associate professor of chemistry at the University of Illinois, has been appointed to the advisory board of *Analytical Chemistry*, a monthly publication of the American Chemical Society.

Neilus R. LARSON '43 has been named general manager of Tri-State Breeders Cooperative, Westby, Wis., the nation's largest farmer-owned, direct-member artificial breeding association.

Dr. William H. PELL '43 has rejoined the National Bureau of Standards, U. S. Department of Commerce, in the post of chief, Mathematical Physics Section of the Applied Mathematics Division. Dr. Pell spent the 1959-60 academic year at the University of Kentucky as professor of applied mechanics.

Stanley E. ROHOWETZ '44 has resigned as vice-president of Trionics Corp., a research and development laboratory with offices in Madison.

Mr. and Mrs. Jack M. MEAD '45 (Betty A. DICKERT '44) announce the birth of twin sons, Jack Francis and Jay Charles. Mr. Mead is a former captain of the University of Wisconsin football team and is presently assistant football coach and instructor at Whitewater High School.

1946-1950

Dr. William G. HENDRICKSON '46, former director of the licensing division of the Wisconsin Alumni Research Foundation, has been appointed vice-president of the Ayerst Laboratories, division of American Home Products Corp., New York City.

Dr. Everett G. HAFT, Jr. '47, former professor at the University of Wisconsin and Louisiana State University, has been named a professor in the Kansas State University department of applied mechanics.

Dr. and Mrs. Irwin F. HOEFT '48 (Mae GRINROD '43) announce the adoption of two Korean girls, Wendy, 8 years of age and Mary Lee, age 4. The Hoefts also have a son, Tom, age 12.

Paul T. MURPHY '48 has been elected president of the Wisconsin Alumni Club of Chippewa Falls.

Dr. and Mrs. Harold F. IBACH '48 (Martha MENDENHALL '50) announce the birth of a son, Michael John.

Warren J. SAWALL '48 has been appointed an administrative assistant to Governor Gaylord NELSON '42.

Nancy HANSCHMAN '48, CBS television news correspondent, was one of the main speakers at the Intercollegiate Associated Women Students convention held recently in Madison. Also participating in the program in a panel discussion were Helen WHITE '24, a member of and former chairman of the University of Wisconsin's English department, and Catherine CLEARY '43, vice-president of the First Wisconsin Trust Co. in Milwaukee and a director of the Wisconsin Alumni Association.

Mrs. Frederick J. Pohle (Elizabeth BLANKINSHIP '49) and James S. EARLEY '34, professor of Economics at the University of Wisconsin, were married recently in Madison. The former Mrs. Pohle is technical editor of *Cancer Research* and assistant editor of the *Journal of Medical Education*.

Carroll LOHR '49 has resigned as football and basketball coach at Kiel High School to join the Madison school system as a physical education teacher.

Raymond M. QUANT '50, history teacher and chairman of the social studies department at West High School, Madison, has



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received a grant from the National Science Foundation for a six-week summer institute at the University of California.

Army Capt. Robert F. WANEK '50 has been assigned to the U. S. Army Garrison at Fort Leavenworth, Kans.

Mr. and Mrs. Donald GAY '53 (Gene BLISS '50) are the parents of a son, Richard David.

Robert B. FICK '50 has been appointed district manager of the Stevens Point division of the Wisconsin Public Service Corp.

Earl E. KRAFT '50, treasurer of Earle Ludgin & Co., Chicago, has been named chairman of the advertising and publishing section of the American Cancer Society, Illinois Division.

1951

Ronald D. KEBERLE has been named the judge of the newly created Branch Two of the Marathon County Court.

Robert WILSON, former University of Wisconsin baseball and football star and American League baseball player, was the guest speaker at the annual Athletic Banquet held recently in Belleville, Wis. He is now a vice-president of the Madison Bank and Trust Co.

1952

Mr. and Mrs. H. Keith Johnson (Jennie STUMPF), Lake Forest, Ill., announce the birth of a son, Randall Ohman.

Keith SOLHEIM has joined the Sheboygan Social Security office as claims representative.

Harold W. FAGER is the new president of the Wisconsin Alumni Club of Kewaunee County.

1953

Lowell J. TOOLEY, former village engineer and manager of Shorewood Hills in Madison, was recently appointed village manager of Scarsdale, N. Y.

Anthony MARCIN, manager of the information division of the *Chicago Tribune*, was the instructor at a 12-week course in publicity and public relations held recently at Columbia College, Chicago.

Dr. and Mrs. Adly A. MEGUID, Khartoum, Sudan, are the parents of a daughter, Jillanne.

Dr. Milton B. BYRD, associate dean of Southern Illinois University's Southwestern Illinois campus, has been awarded a post-doctoral fellowship in college administration at the Center for the Study of Higher Education at the University of Michigan.

Alexander STENHOUSE is presently a Field Director for the Board of National Missions in the Division of Building Aid Department.

Roger GOTTSCHALK has been elected president of the Wisconsin Alumni Club of Shawano.

Wisconsin Alumnus, June, 1961

1954

Mrs. Charles McLean (Elizabeth JACKSON) is the traffic engineer in charge of the planning section of the bureau of street traffic in Chicago, Ill.

Mr. and Mrs. Allen E. RABE announce the birth of a daughter, Martha Jane.

Mrs. Trond SANDVIK (Karin FRANK), periodicals and documents librarian of the University of Wisconsin law library, has been awarded a scholarship to attend either the American Association of Law Libraries institute at Harvard University, or the association's annual meeting in Boston, both being held in June.

Edward G. FELDMANN is presently the editor of the *Journal of Pharmaceutical Sciences*, a magazine published by the American Pharmaceutical Association.

Erwin HIEBERT is the author of *The Impact of Atomic Energy*, a book published recently which describes the promise of atomic energy, as well as a warning against military use.

1955

Dr. and Mrs. Arlan L. ROSENBLOOM, Kuala Lipis, Malaya, are the parents of a son, Eric David.

Willard T. WALKER is the new president of the Wisconsin Alumni Club of Racine.

Herbert H. ROZOFF has formed a national public relations firm with headquarters at 11 S. LaSalle St., Chicago. The firm also has offices in New York and Los Angeles.

David M. KOVENOCK, a doctoral candidate at the University of North Carolina, has won a fellowship from the Brookings Institution. He will do research on power and process in congressional policy making.

40th Anniversary



Pictured above is part of the crowd that gathered in April to mark the 40th Anniversary of musical societies, Sigma Alpha Iota and Phi Mu Alpha-Sinfonia on the University of Wisconsin campus. The weekend celebration included a round of concerts and activities involving students, faculty and townspeople. The social high point of the weekend was this banquet held in the Crystal Ballroom of the Loraine Hotel.

Wisconsin Alumnus, June, 1961

1956

James L. CLAPP has been awarded \$1,000 by the American Congress on Surveying and Mapping for advanced study in surveying and mapping.

Robert W. CARPENTER has been appointed assistant television sales manager for station WOOD, Grand Rapids, Mich.

Robert R. CAREY recently joined the staff of the Linde Co., a division of Union Carbide Corp., and is presently working as a member of the Cryogenic Equipment Group of the Engineering Laboratory.

Dr. Alex CIEGLER, microbiologist at the U. S. Department of Agriculture's Northern utilization laboratory, Peoria, Ill., presented a paper on an improved microbial process to make beta-carotene, a source of vitamin A, at the annual meeting of the American Society of Microbiology held recently in Chicago.

1957

George SCHALLER, who just returned from a two-year study of gorillas in Africa, was the speaker at a recent meeting of the Madison branch of the Animal Care Panel.

Mr. and Mrs. Richard HORNIGOLD (Patricia FRITSCH) recently moved to Wilmington, Del., where he has accepted the position of assistant secretary with the American Life Insurance Co. and also of American International Life Agencies with primary responsibilities for group pensions. American International Life Agencies has the first worldwide group life insurance facility in the history of life insurance which will enable international firms operating in several countries and currencies to provide substantially similar benefits to all their employees throughout the world.

Atty. Paul G. ZURKOWSKI, legal assist-



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George Grabin, Pres.
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ant to Robert Kastenmeier for the past 18 months, has opened a law office in Madison.

1958

Richard YONKER, English and mathematics teacher at Mazomanie High School for the past three years, has received a scholarship from Harvard University.

Claudia SCHROEDER is one of the dancers currently appearing in Lerner and Loewe's big new Broadway hit, *Camelot*.

1959

David GENZMER has been hired as basketball coach for Kimberly High School.

1960

Donald WAHLIN has purchased the M-P-M Corporation in Stoughton, Wis., a firm which makes custom truck refrigeration bodies.

Thomas F. Canny Class of '60

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Gale FRACKELTON was the subject of a recent article appearing in the *Milwaukee Journal* which told of her interesting job as a guide in the United Nations building.

Donald E. HEINZ has been appointed assistant to the president of Joseph F. Cavanaugh, Ltd., a Milwaukee advertising and marketing agency.

Lt. Karl P. KILLINGSTAD has completed basic signal officer training at Ft. Monmouth, N. J., Airborne and Ranger training at Ft. Benning, Ga., and is now stationed in Munich, Germany.

newly married

1953

Aimee M. ISGRIG and Myles F. Horton, Monteagle, Tenn.

1956

Marilyn Mindrup and John B. HOERRES, Staunton, Ill.

Elizabeth W. Heindl and David F. HORN, Richmond, Va.

1957

Barbara M. BREUCH and Richard H. Weaver, Madison.

Ruth M. Gruenwald and Donovan A. BRO, Milwaukee.

1958

Susan L. ADAMS and George W. Kell, Sausalito, Calif.

Julia R. FENDER and Burdick O. MYRE '53, Madison.

Doris Sapeer and Samuel I. ORENSTEIN, Chicago, Ill.

Mary J. Rathe and Ronald A. SCHMAE-DICK, Seattle, Wash.

1959

Annette J. BETHKE and Rodney W. KREUNEN, Madison.

Ramona M. Wilsie and Dr. Alan A. EHRHARDT, Waupun.

Patricia Ross and Charles R. GESSERT, Hudson.

Beverly A. LARKIN and Gerald E. Urner, Bakersfield, Calif.

Ann H. ROSE and Harry D. Sauthoff, Tomah.

Vivian Miller and Lawrence D. SCHENKAT, Madison.

Judith A. UHLMAYER and Paul E. Steinmetz, Madison.

1960

A. Jeanette BABCOCK and Richard W. FREIGANG '61, Milton.

Judith A. Fassbender and Larry R. DECKER, West Bend.

Gail F. SMITH and James H. Friedl, Madison.

with alumni clubs

The Wisconsin Alumnae Club of Chicago will have a picnic at the home of Mrs. George Connolly, 1749 W. 97th Street from 3:30 to 5:30 on June 11. All alumnae are cordially invited to attend. Those interested should contact Miss Marion Hanna, Harris Trust and Savings Bank (State 2-8200).

neerology

H. Josephine GRIFFIN '98, Portland, Ore.
Mrs. William Hard '98, (Anne SCRIBNER), New Canaan, Conn.

Bernard G. HEYN '99, Menton, France.
Frank HOFFMAN '00, Oshkosh, Wis.
Walter J. RUSH '00, Neillsville, Wis.
Mrs. Frederick G. Corbus '01, (Florence J. KETCHUM), Philadelphia, Pa.

Henry A. DETLING '01, Altadena, Calif.
Oscar G. CHRISTIANSON '04, Madison, Wis.

Walter L. PATTERSON '06, Gainesville, Fla.

Elizabeth McGREGOR '07, Platteville, Wis.

Mrs. H. L. Upham '07, (Stella M. PENGRA), Page, Ariz.

Mrs. Miles J. RILLING '08, (Minnie A. WALTER), Sepulveda, Calif.

Ernest F. BEAN '09, Madison, Wis.

J. LeRoy JOHNSON '11, Stockton, Calif.
Henry O. LEE '11, Chicago, Ill.

Willard W. HODGE '12, Pittsburgh, Pa.
Robson BAINBRIDGE '13, Dodgeville, Wis.

Eugene A. BARTH '13, Milwaukee, Wis.

Mrs. Bernt Hoffmann '13, (Lydia E. LOOS), Oslo, Norway.

John C. PRITZLAFF '13, Falmouth, Jamaica.

Mrs. Harold Carpenter '14, (Mildred C. CASWELL), Ft. Atkinson, Wis.

Thomas J. AYLWARD '18, Milwaukee, Wis.

Leroy J. BURLINGAME '18, Milwaukee, Wis.

Paul S. WIDMANN '18, Jefferson, Wis.
Alfreda A. SCHMIDT '19, Wauwatosa, Wis.

Harold BRAUN '20, Milwaukee, Wis.
John R. RAMSEY '20, Pecos, Texas.

Artie H. TEBO '20, Madison, Wis.
John A. HAMERSKI '21, Stevens Point, Wis.

Clarence I. LOKEN '21, Viroqua, Wis.
Ralph G. HINNERS '22, Winnetka, Ill.

Irving J. RAU '22, Winston-Salem, N. C.
George J. PRIBYL '23, Madison, Wis.

Elda E. ANDERSON '24, Oak Ridge, Tenn.

Gerald M. KOEPCKE '24, Minneapolis, Minn.

Herbert H. NAUJOKS '24, Wilmette, Ill.
George H. DUNGAN '25, Urbana, Ill.

Robert R. FISHER '25, Milwaukee, Wis.
Edwin M. ROWLANDS '25, Houston, Texas.

Agnar T. SMEDAL '26, Madison, Wis.

Harold N. STOFFEL '25, Minnesota City, Minn.

Annetta M. SPRUNG '26, San Francisco, Calif.

Henry M. SUTTLE '27, Milwaukee, Wis.
Frank S. WORTHINGTON '27, Wyandotte, Mich.

Ned E. DUMDEY '28, Milwaukee, Wis.
Myron E. WELCH '30, Phoenix, Ariz.

Paul L. COOPER '31, Rice Lake, Wis.
Mrs. Arno R. Myers '31, (Verna RAV-ENSCROFT), Winnetka, Ill.

Charles A. HOWARD '34, Janesville, Wis.

Mrs. Leslie J. Valleskey '34, (Grace M. KOUTNIK), Manitowoc, Wis.

Mrs. Arthur C. Sanborn '35, (Barbara ELY), Waukesha, Wis.

Anthony J. DONGARRA '38, Chicago, Ill.

Marvin E. SOLBERG '38, Elroy, Wis.
Paul G. FLUCK '41, Rochester, Minn.

Mrs. Glenn Faust '42, (Inger E. GESME), Milwaukee, Wis.

Merrick L. NELSON '46, Appleton, Wis.
Ronald W. MAY '49, Alexandria, Va.

Mrs. William F. Perske '50, (Barbara L. KOZELKA), Green Bay, Wis.

Carl H. NEITZKE '54, Naperville, Ill.

Mrs. Victor L. Stein '56, (Jaclyn P. GOLDBERG), Milwaukee, Wis.

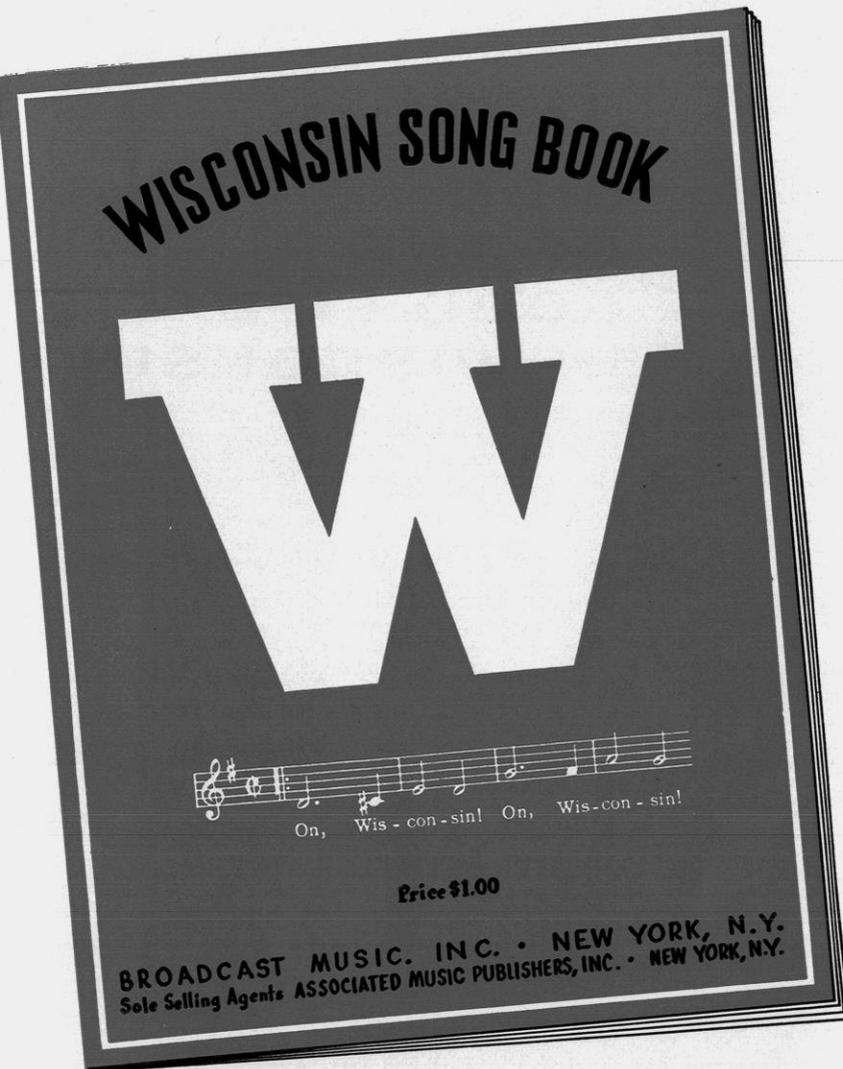
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- Varsity
- On Wisconsin Round
- If You Want to Be a Badger
- Farewell to Thee Wisconsin
- The Badger Team
- Wisconsin's Pride
- My Heart Is in Madison
- We'll Cheer for Old Wisconsin
- Cheer, Boys, Cheer

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