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# WISCONSIN ACADEMY REVIEW

SPRING, 1954



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WISCONSIN ACADEMY OF SCIENCES, ARTS AND LETTERS

# WISCONSIN ACADEMY REVIEW

Vol. 1

Spring 1954

No. 2

## C O N T E N T S

COVER PAINTING .....	Aaron Bohrod
Lyman Draper and the Wisconsin Academy, W. B. HESSELTINE .....	1
Institute of Paper Chemistry, DON B. SCHLAFKE .....	3
Promise of Educational TV, H. B. McCARTY .....	4
Leopold Memorial Organized, JOSEPH J. HICKEY .....	6
New Patron Members .....	8
Proposed Wisconsin Research Inventory, M. G. TOEPEL .....	9
AAAS 1953 Academy Conference, ROBT. J. DICKE .....	10
Wisconsin Archeological Society, E. G. BRUDER .....	12
Introducing Three New College Presidents .....	15
February Council Meeting, ROBT. J. DICKE .....	17
Report from the Secretary, ROBT. J. DICKE .....	18
Junior Academy News, JOHN W. THOMSON .....	20
Spectroscopic Analysis, DUANE JAECKS .....	21
Jet Propulsion, WILHELM ZYCH .....	22
Historical Note .....	24
Questionnaire Replies and Cooperators, W.E. SCOTT ..	26
About the Cover Illustration .....	26
The Bookshelf .....	27
Directory of the Academy for 1953-54 .....	29
The Academy's Membership Distribution (with map) ..	48
President's Page, C. L. FLUKE .....	Back Cover
Other Notes	
Entomological Note, Miscellaneous News	

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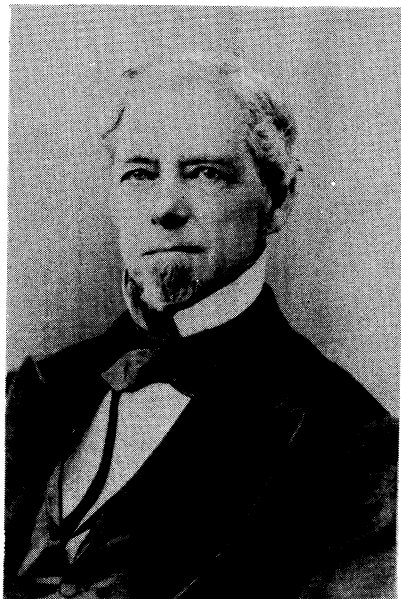
PLAN TO ATTEND THE 84TH ANNUAL MEETING AT  
LAWRENCE COLLEGE, APPLETON, APRIL 23-24

## LYMAN DRAPER AND THE WISCONSIN ACADEMY

By WILLIAM B. HESSELTINE  
Dept. of History, U W

It was especially appropriate that the Wisconsin Academy of Sciences, Arts, and Letters should have selected LYMAN COPELAND DRAPER, one of its incorporators, as a "Counselor" of its Department of Letters. For fifteen years, Lyman Draper, Corresponding Secretary of the State Historical Society of Wisconsin, had been attempting to stretch the boundaries of history to incorporate scientific scholarship in the Badger State. The historical society had, in fact, been commissioned by its charter to "exhibit faithfully...the present condition and resources of Wisconsin" and to "diffuse and publish information relating to the description and history of the state."

Under the mandate of these words, Draper included in successive volumes of the Collections of the Society anthropological articles on such subjects as "Indian Nomenclature and the Chippewas," "Indian Tribes of Wisconsin," "Ancient Mounds or Tumuli of Crawford County," sundry "descriptions" of Wisconsin localities and rivers which were more nearly geographical than historical, and numerous "reports" on the "Progress, Conditions and Prospects of Wisconsin." He published, too, J. M. BURLEY's "Meteorological and Navigation Notes," [vol. III (1858), pp. 457-458]. In the 1859 volume of the Collections he included an elaborate and exhaustive calculation of the "Latitude and Longitude of Milwaukee, Prairie du Chien, Racine and Madison" by J. D. GRAHAM which ran to eighty-four pages.



Lyman C. Draper in 1881

The inclusion of such scientific material in the Historical Society's Collections was due, in part, to the dearth of other mediums of publication for such investigations. The historical society had supplanted an earlier "Natural History Society" whose shadowy existence had never been given substance by the efforts of

an energetic--and salaried--"Corresponding Secretary." In part, too, the scientific interests of Secretary Draper sprang from the influence which INCREASE A. LAPHAM, Wisconsin's leading scientist, had upon the historical society. Lapham had been an early organizer of the historical society, and the first to suggest that it issue an annual volume of "Transactions."

But the historical society was clearly an inadequate medium for scientific publication, and Draper welcomed the establishment of the Wisconsin Academy of Sciences, Arts, and Letters as a sister-institution in the great task of advancing scholarship and learning in Wisconsin. "The friends of the State Historical Society," said Academy President JOHN W. HOYT to Governor WILLIAM R. TAYLOR in the Academy's second report, "should therefore regard the Academy as another, and deeply interested organization...." The books of the Academy were housed in the Society's library.

Still another reason made Draper welcome the Wisconsin Academy. His interests were in American history, and the historical society's commission was limited to the cultivation of Wisconsin history. Although he gathered a significant collection of European historical works for the Society's library--and the 2392 volumes of the Reports of the British Patent Office were monumental evidence of his concern with European science--Draper found no place in the Collections for the publication of scholarly contributions in European or in the broader fields of American history. Already Professor WILLIAM F. ALLEN in the University was turning his attention to British history and his studies could find no outlet in the Collections.

Within the next few years, while Draper served as "counselor" of the Department of Letters, his fellow counselor and historian, Allen, read before the Academy and published in its Transactions papers on the rural populations of England (I, 167-177; II, 220-233, 234-240; IV, 19-24) and of France (IV, 1-6). The Academy published, too, Professor J. D. BUTLER's essay on "The Naming of America" and "The First French Footprints beyond the Lakes" (II, 203-219, V, 85-145). It found place for more papers on the moundbuilders, on Indian languages, and even on "The Philosophy of History." It was evident, indeed, that the Society and the Academy had a community of interests.

Draper's interests in the Academy continued throughout the first two decades of its life. He encouraged memberships, advised Academy members seeking material in the rich storehouse of the historical society's library, and brought the experiences of his years as a

promoter of scholarship to the council of the Department of Letters. His own concepts of a history which included all aspects of sciences, arts, and letters was, in itself, a symbol of the basic purposes and the original functions of the Academy.

- - -  
This year, 1954, marks the centennial of Draper's appointment as head of the State Historical Society. In commemoration of this event the State Historical Society has published William B. Hesseltine's manuscript "Pioneer's Mission: The Story of Lyman Copeland Draper." See a review on this book elsewhere in this issue.

# # #

### THE INSTITUTE OF PAPER CHEMISTRY

By Don B. Schlafke

In 1929 a group of Wisconsin pulp and paper mill executives and the officials of Lawrence College founded the Institute of Paper Chemistry at Appleton, Wisconsin. Its purpose was "to train men in the basic sciences and technologies applicable to the pulp and paper industry to a point where they can, first, assume technical positions applying science to the industry, second, do research on the development of new principles, and, third, prepare for higher executive or coordination positions."

The first class of three students entered the Institute in 1930 and it has grown until today fifteen students enter each year. For this original student body in 1930, there was a staff of only four and a very small library. The staff today, however, numbers over 225 and the library contains over 15,000 bound volumes relating to the paper industry. The buildings also have changed proportionally; from rented quarters to six large buildings valued at more than \$2,000,000. There are also three dormitories and eight quonsets for students attending the Institute.

To be admitted to the Institute the applicants must pass a strict selective system and be graduates of an accredited college or university. The course of study is supplemented with summer work in the paper industry. Upon completion of two years of study a Master of Science degree is earned and a Doctor of Philosophy at the end of four years. The degrees are granted by Lawrence College with which the Institute is affiliated.

The Institute of Paper Chemistry, founded because of a need for a graduate school, research center and comprehensive library, is a unique institution you won't want to miss when you attend the Annual Meeting at Appleton.



## THE PROMISE OF EDUCATIONAL TV

By H. B. McCARTY, Director  
State Broadcasting Service



History, indeed, repeats itself--this time at an interval of 35 years.

On the University campus in Madison we find now--in the spring of 1954--the same kind of eager exploratory activity which marked a similar development in 1919. Then it was radio; now it's TV.

Radio, in the intervening 35 years, has justified the hope and faith of the Wisconsin pioneers in broadcasting. It has provided educational advantages available in no other way. It has been the means of supplementing and enriching instruction at all levels, from kindergarten through college. It has helped to "take the University to the people," and has extended the informational, educational services of numerous other institutions and agencies of the state.

And now comes television--with even greater promise as an electronic teaching tool. Possibly the "richest opportunity in history to make available to everyone all the cultural resources assembled throughout the centuries," said U. S. Supreme Court Chief Justice EARL WARREN in speaking of the promise and challenge of TV. It's the magnitude of that opportunity which gives significance to the experimentation of WHA-TV, scheduled to begin program service on May 3rd, 1954. WHA-TV, like its pioneer radio ancestor, WHA, will endeavor to broadcast programs of a kind not available in quantity elsewhere--general educational and informational programs on the adult level for individuals in their homes, broadcasts for children and teachers in schools, and a variety of special programs for special interest groups. The station will seek to provide answers to the many questions arising about the role of television in education and the responsibility of educators in the use of television.

The establishment of WHA-TV came as an outgrowth of considerable discussion of educational television in the 1954 legislature. The Wisconsin Citizens Committee for Educational Television had sponsored a bill which would finance the construction of the first two stations in a state-wide network. Legislators were not sure of public sentiment on the matter and called for further study of the question, as well as a public referendum in the 1954 fall election. WHA-TV is actually a part of the machinery for carrying on the fact-finding experiment authorized by the legislature.

The new station will operate on UHF Channel 21 using a 1-kilowatt transmitter and an antenna mounted on the WHA-FM tower in Madison. It will share the studio equipment and facilities of the University Television Laboratory on the campus. Broadcast operations, however, will be conducted under the auspices of the State Radio Council, which is also responsible for the radio broadcasting service of the state FM network. Because of limited financing and consequent limitations on transmitter power, tower height, and antenna efficiency, coverage is expected to be limited to a radius of about 15 miles from Madison. Construction of the transmitter station is being financed entirely out of a grant of \$100,000 from the Fund for Adult Education.

In the tentative broadcast schedule of WHA-TV, one period each week is allotted for the presentation of trial programs for classroom use. Experimental programs in science, art, and nature study are among the first offerings to be viewed and evaluated by schools in the Madison-Dane County area. The remainder of the broadcast schedule is devoted to evening hours and in-the-home viewing activities. Significant service can undoubtedly be provided to supplement the work of the classroom teacher, but a greater challenge is presented by the needs and wants of out-of-school "students." Educational broadcasts elsewhere throughout the country indicate a real hunger for programs of organized, systematic instruction, and one of the most promising developments is the establishment of an agency for the distribution of educational programs from various sources. WHA-TV is affiliated with this agency, the Educational Television and Radio Center, and will be a contributor as well as a recipient of outstanding educational programs.

Promising as television appears as an educational medium, its future development in Wisconsin is by no means assured. At the polls in November, 1954 voters will be called upon to express themselves on the referendum question: "Shall the state of Wisconsin provide a tax-supported state-wide noncommercial educational television network?" Will they see in television, as others do, "the richest opportunity in history" to extend and improve educational opportunities?





## LEOPOLD MEMORIAL ORGANIZED

By JOSEPH J. HICKEY

Dept. of Wildlife Management, UW

Early this March, the Aldo Leopold Memorial Trust was organized by the Kumlien Club of Madison "in memory of the great Wisconsin teacher, scientist, writer, and conservationist whose life was dedicated to the preservation of plant, wildlife, and other natural resources for the beneficial use and enjoyment of the whole people."

The Kumlien Club, an organization of persons seriously interested in the ornithology of Dane County, conveyed to the Trust a 40-acre tract of woodland in the Baraboo hills, which is to be retained as a natural area memorializing the great Wisconsin leader who died in 1948. The particular tract comprises some 20 acres on the south-facing slope which was selectively cut over some five years ago, and is now in remarkably good condition. The remaining 20 acres on a north-facing slope seem to have been lightly logged about the turn of the century. They still contain many butternuts and yellow birch in the virgin state as well as a rich flora of wild flowers, including trailing arbutus. Hemlock and white pine add to the impressiveness of the area. The

40 acres, thus set aside, are expected in time to revert to the quality and character of the scientific areas which are now being set aside by the Wisconsin Conservation Department in consultation with the State Board for the Preservation of Scientific Areas.



The terms of the trust recognize that natural areas are basic reference points in many fields of research and have further public functions as reminders of historical landscapes, as esthetic components of present natural resources as the habitat of plants, birds, animals, and

fish, and as a necessary facility for their study, observation, and enjoyment.

The Trust has thus been launched in an industrial society already badly in need of contact with such areas, and at a time when natural areas are widely threatened in Wisconsin and other states. Its immediate function is to maintain a professional stewardship of the Trust already given it and to stand ready to acquire others which may be given to it by the general public. The trustees may also accept gifts, devises, and bequests for the primary purpose of the Trust and to take such steps as are necessary to make their land available for further educational, research, and recreational use by the people of the state. It is expected that lands which technically do not meet the rigid specifications of the State Board for the Preservation of Scientific Areas may from time to time be turned over to the Trust until the forces of succession have made them more nearly equal to the standards now being required of natural areas being set aside by the state.

CHARLES BUNN (Law), JOSEPH J. HICKEY (Wildlife Management) and JOHN W. THOMSON (Botany) of the University of Wisconsin are the trustees who were recently appointed.

# # #

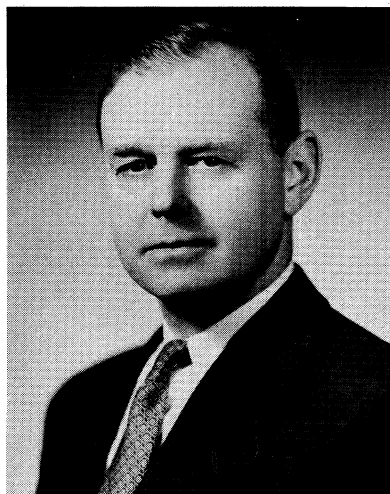
The ENTOMOLOGY DEPARTMENT of the University of Wisconsin with Prof. ELLSWORTH FISHER as Chairman of the Committee in charge of the program, reports a very successful conference in early January with representatives of industry. Some 160 attended the two-day meeting, discussing mutual problems in insect control.

DAVID G. HALL, chairman of the Centennial Supervisory Committee of the "100 Years of Professional Entomology" (Arlington, Va.) announces the celebration of their centenary. He says: "The State of New York, on May 24, 1854, appointed Dr. Asa Fitch to the first entomological position in a State government, and the U. S. Patent Office on June 14, 1854, appointed Townsend Glover to the first entomological position in the federal government. Entomologists in federal, state, industrial, and private organizations are combining their efforts in this centennial commemoration event as a means for awakening the public to the necessity of action against insect enemies. . . The profession of entomology, in commemorating this year, has assembled a 'Fact Book' of about 200 pages on the insect problem."

## NEW PATRON MEMBERS



RALPH N. BUCKSTAFF



CARL E. STEIGER

The Buckstaff Company is an outgrowth of the logging and lumber business started by the family in 1865. The officers are RALPH N. BUCKSTAFF, President, Barbara Buckstaff, Vice-President, John Buckstaff, Secretary & Treasurer, and Annie Laurie Buckstaff, Assistant Treasurer. The firm manufactures caskets, restaurant and commercial furniture, sheet plastic, and metal stampings, sold under a nationwide distribution. They also run a sawmill which is the only one still operating in Oshkosh. The present plant occupies seven and a half acres.

CARL E. STEIGER is President and General Manager of the Delttox Rug Company, Oshkosh - manufacturers of rugs which are known the world over. Enough 9x12 Delttox rugs have been made to stretch halfway around the globe, or if stacked, to make a pile 12 miles high! The company was founded in 1902 by the late E. H. Steiger, father of Carl E. Steiger, and while originally the company produced grass rugs manufactured from wire grass, which grew profusely in Wisconsin and Minnesota, it now has expanded its operations to produce all-fiber and wool-and-fiber rugs. These products are sold and used the year round, and are no longer classed as "summer rugs." At the present time the company employs approximately 500 people, and produces a nationally advertised floor covering for all year use in the home.

## THE PROPOSED WISCONSIN RESEARCH INVENTORY

By M. G. TOEPEL, Chief  
Legislative Reference Library

Some of those who make it their business to study Wisconsin have long felt that there should be some reasonably systematic yet inexpensive way of enumerating periodically the many investigations of Wisconsin's social, economic and political--and for that matter, scientific--life which are being made. The matter was explored for more than a year before a specific plan of procedure was proposed at the Governor's monthly conference of administrators in January, 1954.

As is obvious, it was necessary that the task of gathering the data be assigned to some agency which has an existing interest in such information and the facilities for making a compilation. At least temporarily the task was assigned to the Legislative Reference Library which has offices in the State Capitol.

It was proposed that the several agencies of government submit six facts regarding each study which they felt should be included: its title, a brief statement of its content, its release date, its availability, the form in which prepared and the person or section responsible for the study.

The reference library will compile the data by subject, and reproduce the summary for distribution to those interested. This inventory will contain the data on each of the six facts so that those interested may know something of the subject matter and the process necessary to gain access to the report. It is proposed that a preliminary summary be issued in March, 1954 to demonstrate how the plan will work, and that a second edition be issued in July, 1954 followed by semiannual summaries thereafter. It is hoped that by providing reasonably wide distribution to the preliminary summary, future cooperation can be stimulated.

Although the first two issues will concentrate on the studies by state government agencies because they are easier to get, local governmental and private agencies and individuals are invited to participate.

The proposal was generally endorsed, but some people felt that the scope of the undertaking was so great that it would be unmanageable. They foresaw many insurmountable hurdles in the problem of determining what to include and feared that because most if not all research done in this state is intended to be of value to the state ultimately, the list would of neces-

sity include virtually every investigation made in the state. It was therefore proposed that the projects be limited to studies which have a relationship to Wisconsin state or local government. No one is prepared at this point to make any more rigid rule, but it is hoped that ultimately a fairly clear-cut definition of the material eligible for inclusion may be made.

This plan should prevent some duplication and overlapping of effort, highlight the agencies and persons most likely to have dealt with certain subjects, reveal some of the gaps in the areas which have been studied, and stimulate persons and agencies to conduct worthwhile projects with their agencies. Above all, however, it should provide a comprehensive, inexpensive inventory of the more elusive studies which will help expand the knowledge of our state and its subdivisions.

# # #

#### AAAS 1953 ACADEMY CONFERENCE

By ROBERT J. DICKE, Official Representative  
Wisconsin Academy of Sciences, Arts and Letters

The Wisconsin Academy, along with 40 other academies representing 39 states, the District of Columbia, Hawaii and British Columbia, is affiliated with the American Association for the Advancement of Science. An Academy Conference is sponsored and supported each year by the AAAS at their annual meeting. The official representative of each academy is usually a Fellow of the AAAS and is also one of its Council members. The Conference is composed of two representatives (one of which is the official Conference Representative) and officers of the affiliated academies. It provides a common meeting ground to discuss problems and become acquainted with the programs and to compare the accomplishments of organizations with a similar objective. In addition to sponsoring the Academy Conference, the AAAS refunds 50% of the annual dues of each AAAS member to the Academy of which he is also a member. This refund (amounting to \$77.50 for Wisconsin in 1953) is available as a research grant for all members of the Academy and may be used for research in any field of academic interest. (Incidentally, only one application has been received for the 1953 grant.)

The Conference this year was held in the Hotel Bradford, Boston, Massachusetts on December 28. Forty-six representatives from 30 Academies (including Hawaii) were present. The program consisted of panel discussions on common problems, a brief discussion by each representative of his Academy's major activities, and a final banquet for representatives and their guests.


According to the 1953 directory, 41 academies are associated with the AAAS Academy Conference. A total of 39 states are represented in this conference. The Colorado-Wyoming Academy of Science combines two states, while the Northwest Scientific Association apparently combines membership from Washington, Oregon, Idaho and Montana. Three states are represented by Academies organized within a municipal area such as the American Institute of the City of New York, the Academy of Science of St. Louis, and the New Orleans Academy of Science. This latter, incidentally, is celebrating its 100th anniversary. California has two Academies: the California Academy of Science and the Southern California Academy of Science. Washington D.C. is represented by the Washington Academy of Science. Included in the Conference are the Hawaiian Academy of Science and the British Columbia (Canada) Academy of Science.

All but three academies within the conference are concerned only with the sciences. The Wisconsin Academy and the Michigan Academy of Sciences, Arts and Letters and the Utah Academy of Sciences, Arts and Letters are the three organizations which have enlarged their scope of interest to include both the humanities and sciences. Twenty-one academies (including Wisconsin) sponsor a Junior Academy of Science, while 11 include a collegiate or student membership. All but four academies issue publications, most of them being an annual or biannual journal similar to our Transactions. Upon approval of the Wisconsin Academy Review, Wisconsin's publications will be superior to the majority of those published, and at least comparable with the best in technical and popular coverage of scientific and literary subjects.


Memberships vary from 2340 (Michigan) to 68 (New Mexico). Wisconsin with a membership of 438 is intermediate in this Conference. Academies with a thousand or more members are: Michigan (2340), California (1729), Ohio (1368), Iowa (1328), Illinois (1260), Indiana (1200), and Texas (1200). Other academies exceeding Wisconsin's membership are: Maryland (934), Washington D.C. (913), Virginia (850), Kansas (760), St. Louis (759), Tennessee (709), Pennsylvania (700), Minnesota (650), Oklahoma (507), Georgia (496), North Carolina (483), Hawaii (479), and Florida (451).



## THE WISCONSIN ARCHEOLOGICAL SOCIETY: HISTORICAL SKETCH



By DR. E. G. BRUDER  
President of the Society



The many unusual earthworks seen in Wisconsin from the arrival of the first French explorers in 1634 to the entrance of the U. S. Army Officers and Engineers in the early 1800's, resulted in a steady effort to establish their origin. The historic Indians could not offer a solution. The many trees and stumps on the mounds indicated a very remote origin. Many small scale attempts were made to survey and record them, but it remained for Dr. I. A. Lapham, a New York civil engineer, to render the most extensive recording. This took place in 1836 to 1855, when Wisconsin was a native wilderness. His work was published by the Smithsonian Institution, and resulted in an immediate impetus for research by folks interested in preserving these ancient heritages left by the prehistoric people.

During the period from 1899 to 1903, these early investigators united to create an archeological section of the Wisconsin Natural History Society. Its first President was E. E. TELLER, Secretary LEE WHITING, Treasurer GEORGE WEST, and Director-Editor CHARLES E. BROWN. This same group, with the help of W.H. ELLSWORTH, LOUIS NOTZ, and others, promoted the publication of the first number of the Wisconsin Archeologist in October, 1901. One of the first acts of the Society was to help preserve the Cutler Mounds in Waukesha.

The October 23, 1902 meeting, with H. A. CROSBY presiding as Director, decided that it would be the last meeting under the auspices of the Wisconsin Natural History Society. A meeting was held at the home of GEORGE WEST on February 28, 1903 relative to formation of the Wisconsin Archeological Society. Those present included CHARLES BROWN, WM. ELLSWORTH, E. E. TELLER, CHARLES KUBECK, R. PORTER, O. L. HOLLISTER, ART WENZ, PAUL JOERS, H. A. KIRCHNER, JOE RINGEISEN, Jr., and LEE WHITNEY. It was decided to organize the Wisconsin Archeological Society, with H. O. CROSBY as President, LEE WHITNEY Treasurer, and CHARLES E. BROWN Secretary-Editor. At the organization meeting on April 3, 1903, permission was requested of the Wisconsin Natural History Society to continue publication of the Wisconsin Archeologist.

These bulletins have provided 52 years of widespread knowledge to the people of Wisconsin of the archeological wealth within its borders, and remind them to mark and preserve these priceless prehistoric treasures. The powerful efforts of this early group of pioneer archeologists continuously encouraged the

surveying, mapping and recording of local antiquities. The Society, with the help of the Landmarkers Club of the Wisconsin Federation of Women's Clubs, saved from destruction some of the more extensive groups of mounds which included Aztalan.

We believe that fifty years of its existence makes it the oldest unaffiliated archeological society in the country. One of its initial acts was the pledging of a permanent course of Anthropology at the University of Wisconsin and to provide a central bureau of record, together with an Anthropological Library. On February 28, 1905 the Wisconsin Legislature passed the first appropriation in the sum of \$500 for the printing of the Transactions of the Society and the bill was signed by Gov. Robert M. LaFollette.

The Society, through its own funds and with the help of public subscriptions, purchased grounds containing many fine groups of prehistoric earthworks--among them are Aztalan and Man-Mound Park--and turned them over to the Wisconsin Park Commission. Wyalusing, Lizard Mound, and Devil's Lake State Park are outstanding among the many surveys of the Wisconsin Archeological Society members. Nearly every county in the state has some prehistoric monument, permanently preserved, because of the untiring efforts of its widespread membership.

Among other important projects is the Wisconsin Archeological Atlas, well started by CHARLES E. BROWN, but left unfinished by his untimely death. This work, and the uncompleted maps of DR. I. A. LAPHAM are carefully preserved in the vaults of the Wisconsin Historical Society at Madison. The Atlas offers a splendid source for future investigation. The vaults also contain the records of very many groups of earthworks, which long since have been destroyed, including the large groups which once existed in Milwaukee.

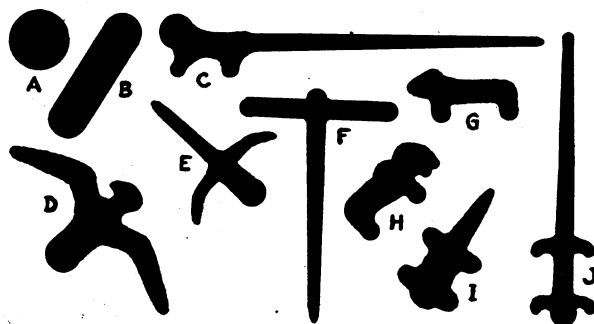
To further strengthen the forward movement, the Society gave public lectures on archeology, created traveling anthropological exhibits for schools, and organized a State Fair exhibit well represented from various parts of the state. The outstanding results brought unstinted praise from the nationally known archeologist, WARREN K. MOOREHEAD.

The work is far from being completed. The Wisconsin section of the Mississippi Highway Park System contains many unrecorded prehistoric works. Many state parks are not completely surveyed for these ancient works. Official state markers incorrectly representing certain effigies have been found. It would be wise to have these surveys completed, in readiness for a period of slackened business activity, to fit into a more



constructive "make-work" program. Wisconsin should benefit by the experience of other states in similar programs and preserve, wherever possible, those mounds which have thus far escaped destruction. Field surveys of prehistoric groups on private lands offer a very interesting diversion from routine duties. Many groups remain unrecorded and unknown to the owners of inherited property dating back to the original government purchase.

During 1952 two new chapters, those of Madison and Green Bay, have been organized. A direct result is a substantial increase in membership and in providing more central meeting places for members in the state. Only the Missouri Archeological Society can equal the low membership dues of \$2, which has been unchanged since 1907.



EFFIGY MOUND SHAPES

- A. CONICAL
- B. LINEAR
- C. PANTHER
- D. EAGLE
- E. WATER FOWL
- F. CROSS
- G. BEAR
- H. BUFFALO
- I. TURTLE
- J. LIZARD

**TREASURER**

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**SECRETARY**

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**EDITOR**

Robert Ritzenthaler, Milwaukee Public Museum, Milwaukee 3, Wis.

# Golden Anniversary

1903 - 1953

## INTRODUCING THREE NEW COLLEGE PRESIDENTS

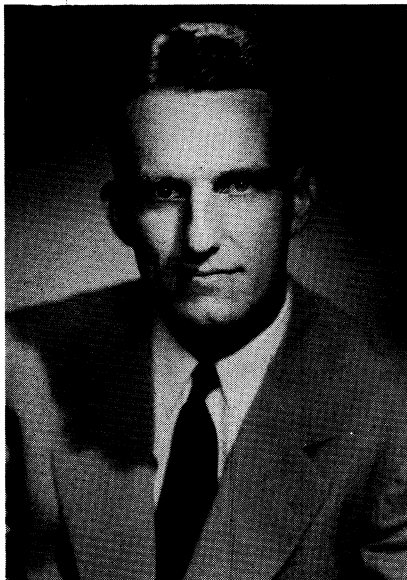
Wisconsin's Beloit, Lawrence and Milton Colleges have recently selected new presidents. All of them have started their careers here in proper manner by affiliating with the Wisconsin Academy of Sciences, Arts and Letters. Here is a brief introduction to them.

DOUGLAS MAITLAND KNIGHT, 32, was installed in February as the 11th president of Lawrence College--and the youngest in the college's 107 years. He was born in Cambridge, Mass. and educated at Yale University, where he received his Ph.D. in English literature in 1946 and became an assistant professor of English literature in 1947. The Yale Press published his thesis on "Alexander Pope and the Heroic Tradition" in 1951. He is a member of the National Council on Religion in Higher Education and on the editorial board of the Christian Scholar. His wife is a graduate of Smith College and the Yale School of Nursing. They have three sons.

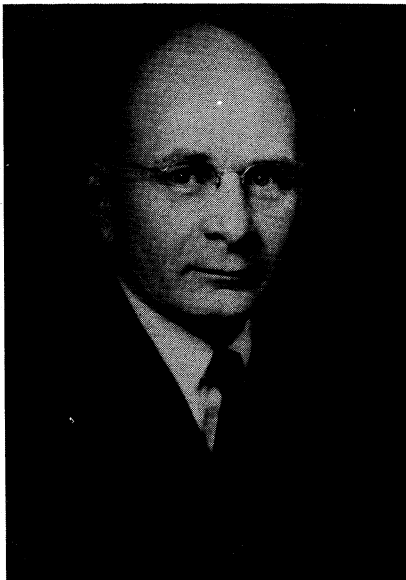


DOUGLAS M. KNIGHT

R. MILLER UPTON, 37, will take office as president of Beloit College in June of this year. At present he is Dean of the School of Business and Public Administration and Associate Professor of Finance at Washington University at St. Louis. He received his B.B.A. from Tulane (1938), M.B.A. from Harvard (1940) and Ph.D. from Northwestern (1948). He has published a number of articles on financial subjects and is co-author of a book "Introduction to Business Finance." He is a member of the American Economic Association, American Finance Association and American Statistical Association.



R. MILLER UPTON



PERCY L. DUNN

PERCY L. DUNN, 55, became the seventh president of Milton College on April 1. He comes to Wisconsin from New York City where he has been director of registrations in the National Council of the Boy Scouts of America. He was born in Unionville, N. Y. and received a B.S. from Cornell in 1919, where he later served as an instructor in extension teaching. He also was an instructor at the New York State College of Agriculture, but for 29 years he was a professional Scout Executive at Hornell and Manhattan, N. Y. and Portland, Maine. The Dunns have three sons and a daughter--all of whom are college graduates.

# # #

ACKNOWLEDGMENTS - Drawings and pictures used in this issue not credited elsewhere come from: State Historical Society, photo of Lyman C. Draper, p. 1; Missouri Conservationist, June, 1948, drawing of Aldo Leopold by Charles Schwartz, p. 6; St. Nicholas magazine, February 1879, sketch on p. 11 and May, 1875, sketch on p. 23; "Prehistoric Indians of Wisconsin", drawings of Indian mound shapes on p. 14; Center spread, facsimile of letter by J. W. Hoyt relative to organizing an Academy from archives of the State Historical Society.

## THE FEBRUARY COUNCIL MEETING

By ROBERT J. DICKE, Secy.-Treas.

A meeting of the Council was called by President Fluke on February 6, 1954 at the University of Wisconsin. Council members present were R. J. DICKE, C. L. FLUKE, O. L. KOWALKE, W.G. McKERN, H. MEYER, K. G. NELSON, L. E. NOLAND, H. A. SCHUETTE, and by invitation, W. E. SCOTT, Editor of the Wisconsin Academy Review, and J. W. THOMSON, Chairman of the Wisconsin Junior Academy.

The Secretary announced that donations were received in the amount of \$75.00 from RALPH N. BUCKSTAFF, President of the Buckstaff Company, and CARL E. STEIGER, President of the Deltax Rug Company, Oshkosh. It was further reported that the total cost for publishing and mailing the first issue of the Wisconsin Academy Review was \$246.37 for an issue of 600 copies.

Thirty-five applicants for Active membership and one for Life membership were reviewed and approved. The Secretary then reported that membership to date was 372 Active, 34 Life and 11 Corresponding for a total membership of 417. It was then moved and passed unanimously by the Council that RALPH BUCKSTAFF and CARL STEIGER be elected PATRON members. The Council authorized the Secretary to select applications of students for remission of dues during their first year of membership. These membership awards are to be financed from the previously reported donations of C. M. GOETHE and FRANCIS ZIRRER.

Following a report by WALTER SCOTT, Chairman of the Quarterly Committee, it was moved and passed unanimously that he be given an official vote of appreciation for his excellent work in editing the first issue of the Review. It was further moved that he be officially appointed Editor of the Review in addition to his duties as chairman of the temporary Quarterly Committee.

The Council then went on record as approving the quarterly publication of the Review pending approval by the membership at the annual meeting, and proposed the following amendment of the Constitution:

Article VIII - Publications of the Constitution be changed to read as follows: A regular publication of the Academy shall be known as its Transactions, and shall include suitable papers and other appropriate matter. This shall be printed by the state as provided in the statutes of Wisconsin. Any other publication may be in accordance with the By-Laws.

Certain changes in the By-Laws were also proposed:

1. Section 9 changed to read as follows: The Transactions shall contain in each volume: (a) a list of the officers of the Academy, and (b) such papers as are accepted under the provisions of Section 10 of these By-Laws and no others.
2. Section 11 changed to read as follows: The Constitution and By-Laws and the names and addresses of the members of the Academy shall be published every third year. The Constitution and By-Laws shall also be available from the secretary-treasurer at any time.
3. An additional By-Law as Section 14 to read as follows: The Council is authorized to publish a periodical to be known as the Wisconsin Academy Review which is to contain proceedings of the

Academy, periodic publication of the Constitution and By-Laws, lists of members, news regarding Academy activities, and other material of interest to the membership. The Editor of the Review shall be appointed by the Council with authorization to appoint such assistants as he may need.

# # #

REPORT FROM THE SECRETARY

By ROBERT J. DICKE, Secy.-Treas.

Since the Winter issue of the Review, 40 applications for Active membership were received. We take great pleasure in welcoming the following new members:

HARRY W. ANDERSON, Wisconsin State College, Superior  
STANLEY D. BECK, University of Wisconsin  
E. G. BRUDER, Milwaukee  
RICHARD BUTLER, Madison  
MERLE CURTI, University of Wisconsin  
CATHERINE G. DUNCAN, Forest Products Laboratory  
ROBERT E. DUNCAN, University of Wisconsin  
PERCY L. DUNN, Milton College  
WALTER H. EBLING, Madison  
WILLIAM S. GODFREY, Beloit College  
ROBERT W. GRADIN, Superior  
WALLACE B. GRANGE, Babcock  
HARRY G. GUILFORD, U. W. Extension, Green Bay  
MARTHA J. HALLER, University of Wisconsin  
IRVING H. ISENBERG, Appleton  
ROBERT H. JONES, University of Wisconsin  
F. GEORGE KILP, Port Edwards  
DOUGLAS M. KNIGHT, Lawrence College, Appleton  
CARLA KRUSE, Loganville  
HAROLD KRUSE, Loganville  
CHARLES N. LLOYD, Madison  
JOHN A. LONSDORF, Birnamwood  
MICHAEL G. LYSENKO, University of Wisconsin  
WILLIAM R. MARSHALL, University of Wisconsin  
R. A. McCANSE, University of Wisconsin  
EARL J. MONTIE, Fort Atkinson  
ALVIN M. PETERSON, Onalaska  
MARIE PRISLAND, Sheboygan  
EDWARD D. REYNOLDS, Hunter College, New York  
GERTRUDE M. SCOTT, Madison  
JOHN SCOTT, Prairie du Chien  
RAYMOND S. SIVESIND, Cambridge  
WALTER R. SYLVESTER, Wis. State College, Stevens Point  
C. W. THREINEN, Madison  
ARLIE C. TODD, University of Wisconsin  
R. MILLER UPTON, Beloit College  
EDNA D. WALKER, Madison  
JESSE T. WALKER, Baraboo  
KATHRYN WHITFORD, Milwaukee  
HAROLD C. WILSON, Ephraim

At the February 6 meeting of the Council, the following men were elected to Patron membership:

RALPH N. BUCKSTAFF, Oshkosh  
CARL E. STEIGER, Oshkosh

Only one student application for membership with remission of the first year's dues has been received. This applicant,

ROBERT H. JONES of the Department of Entomology, University of Wisconsin, has been elected to Active membership. Nine additional appointments may be made from the funds still available.

Two library memberships have been received as follows:  
MARSHFIELD FREE LIBRARY, Marshfield  
OSHKOSH PUBLIC LIBRARY, Oshkosh

Since September 1953, a total of 67 new memberships have been admitted into our Academy. This is a very encouraging report, since to the knowledge of the Secretary this is a record of admissions in recent years. It is also an indication of the excellent membership potential existing in our state. Certainly it should be an incentive for all of us to contact as many membership prospects as possible. We should be a match for the memberships of such neighboring state academies as Ohio, Iowa, Illinois and Indiana with a thousand or more, and may well exceed that of Michigan with 2340 active members!

DONATIONS - In addition to the two Patron donations reported in the Council Meeting action, a gift of \$7.00 was received from DUNCAN J. STEWART of the Barber-Colman Co., Rockford, Illinois and another \$2.00 from FRANCIS ZIRRER of Villa Park, Illinois. The Academy appreciates this practical support for its program.

LAST MINUTE ADDITIONS: To bring the total of new memberships to date (March 25) 71 applications have been received since September. Too late to be alphabetized on the preceding page are these:

HERBERT R. BIRD, University of Wisconsin  
WILLIAM BEST HESSELTINE, University of Wisconsin  
CLIFTON B. KROEBER, University of Wisconsin  
MARK A. STAHMANN, University of Wisconsin

# # #

84TH ANNUAL MEETING, APRIL 23 and 24, 1954

The 84th Annual Meeting of the Academy is scheduled for April 23 and 24, 1954 at LAWRENCE COLLEGE, Appleton, Wisconsin. Friday meetings of the Senior Academy will be held in Science Hall on the Lawrence College campus, and the Saturday meetings at the Institute of Paper Chemistry. A tour of the campus and the Institute is also planned in the general program. The Wisconsin Junior Academy of Science will meet concurrently with us as usual on Saturday, April 24. DON B. SCHLAFKE is serving as chairman of the Committee on Program and Arrangements.

PLAN TO ATTEND - MEET YOUR FRIENDS AND COLLEAGUES !

## JUNIOR ACADEMY NEWS

By JOHN W. THOMSON, Chairman  
Junior Academy Committee

At the statewide meeting with the Senior Academy at Lawrence College on Saturday, April 24, there will be presented a very fine series of papers selected by committees of judges at each of the four district meetings to represent their respective districts. Some of the participants may be winners in the Wisconsin Science Talent Search. Academy members are especially invited to come to this statewide meeting to meet with some of Wisconsin's finest young scientists. The opportunity is always mutually pleasing. Come to give these young people your encouragement as well as to see the fine work they do.

The annual meeting of the Junior Academy for students in the seventh, eighth, and ninth grades will be held at Lincoln High School, Wisconsin Rapids, on Saturday, May 8. The meeting will start at 9:00 a.m. and run through mid-afternoon. The visitors will also be the guests of the High School at a reception in the afternoon. Luncheon reservations at 85 cents should be made with the meeting chairman. It is a most interesting experience to visit a meeting of these young people of junior high school age and to visit the statewide meeting or a district meeting of the high school participants. What remarkable things these young people can do in science!

The chairman in charge of arrangements for the Junior High School meeting is ALFRED HORNIGOLD of Lincoln High School, Wisconsin Rapids, member of the State Academy. Other committee members are C. EMIL DUWE, Steuben Junior High School, Milwaukee and Mrs. J. KUMM and Mr. L. TROWBRIDGE of Lincoln High School, Wis. Rapids.

Committees

In listing new committee members in the last issue of the Academy Review, we should have mentioned that G. J. ROMOREN of Reedsburg High School has joined the Stevens Point district committee of the Junior Academy this year. We are delighted that Mr. Romoren is serving on this committee. Reedsburg, working hard in science as well as basketball, has a small but active and excellent representation at our meetings.

With the retirement of Prof. WILLIAM LINK of Northland College, a vacancy was left on the judging committee for the Wisconsin Science Talent Search. President GUS TURBEVILLE of Northland College has appointed Prof. JESSE M. CASKEY, Head of the Division of Natural Sciences, Northland College, to serve on the judging committee of the Senior Academy.

Honors to Wisconsin Young People

Seven Wisconsin boys and one Wisconsin girl were honored in the National Science Talent Search conducted by Science Clubs of America. These people were accorded honorable mention in this search for the science-talented youth of the nation. The award was earned by taking a very difficult examination and by completing a science project. The national judging committee selected these Wisconsin young people for approbation:

PAUL L. SCHUTT, Kenosha H.S., 7320 Third ave., Kenosha  
RICHARD L. HOGIUND, Central H.S., 345 S. 21st st., La Crosse  
RALPH H. HAGEN, Columbus H.S., 1502 S. Chestnut ave., Marshfield  
GERALD R. MILLER, Lutheran H.S., 2371 N. Hubbard st., Milwaukee

WILLIAM G. WAGNER, Messmer H.S. 715 E. Glendale ave., Shorewood, Milwaukee  
PAUL W. SUTTON, Reedsburg H.S., 120 West ave., Reedsburg  
NANCY ANN HORNIGOLD, Lincoln H.S., 510 Ninth st., Wis. Rapids  
DUANE H. JAECKS, Lincoln H.S., 171 Third st., Wis. Rapids

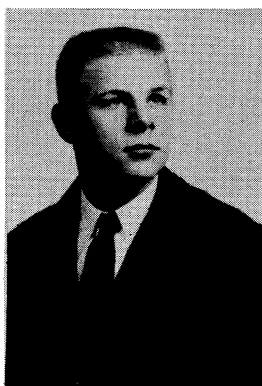
At the completion of the Search, the examination papers and essays on science projects are forwarded to the Wisconsin Science Talent Search for judging. DR. STEPHEN DARLING, Lawrence College, is chairman of our state science talent search. The winners of the state search are announced at the annual banquet of the Wisconsin Academy of Sciences, Arts and Letters. The President of the Academy writes letters of recommendation for possible scholarships to the colleges of their choice on behalf of the winners of the Wisconsin Search.

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### SPECTROSCOPIC ANALYSIS

By DUANE JAECKS  
Lincoln High School (Wisconsin Rapids)

The purpose of this project has been to learn more about light and its application and about spectroscopic analysis itself. My first two Junior Academy of Science projects have dealt with the application of light; now I am studying light itself along with its application.



My project consisted of building two types of spectroscopes and using them in the study of the visible spectrum.

The first spectroscope I made was for laboratory use. This is a three prism spectroscope. The three right angle prisms are war surplus, cut from an old tank prism.

A collimator, making the rays of light parallel before entering the prisms was constructed first. The tubing is  $1\frac{1}{8}$ " brass standard telescopic eyepiece tubing. The lens is a 1" diameter, 7" focal length achromatic. This is also a war surplus item. The variable slit jaws were made from scrap iron. The edges were beveled 45° with a file. They were then finished with fine carborundum on glass and polished with rouge. During the later stages of this process it was checked under a microscope continuously. A toothless and completely straight edge was produced.

The telescope of the spectroscope was made of the same type of tubing as the collimator. The same type of lens was also used. A homemade ramsden eyepiece was used giving the telescope a power of seven. The three prisms were mounted in a separate box and were held in by brass clips.

All three components, the collimator, "prism box," and the telescope were mounted independently. They were mounted so as to move in any direction. This greatly facilitated getting them in optical alignment.



I can truthfully say this spectroscope is equal in all respects to our spectroscope in the chemistry lab. The difference in price is \$145.

Work with my spectroscope was confined to the study of bright line and absorption spectra. I charted and took spectrograms of the different metals. Also I did considerable work with the absorption spectra of solutions. These were similar visually but when comparing their absorption spectra they were very different.

I also built an experimental grating spectroscope designed for astronomical use. The optical arrangement was the same as the prism spectroscope. The only difference was that I used a replica grating of 15,000 lines per inch instead of the prisms and was mounted as one complete unit. The slit of the collimator was mounted at the focal point of the 15" fl objective lens. This whole system was then mounted on an equatorial mounting made from pipe fittings.

##

### JET PROPULSION

By WILHELM ZYCH  
Pulaski High School (Milwaukee)

The following is a simplified explanation of the five basic reaction units of jet propulsion. They are the rocket, ramjet, pulsejet, turbojet and turboprop.

Of these, the original was the rocket, which represents simplicity itself. It contains its own oxidizer so it does not require any intake of mass or atmospheric oxygen. The first type of rocket was the Chinese gunpowder rocket. It was simply a combustion chamber filled with gunpowder and a nozzle made of clay with usually a stick added for stabilization. In this type of rocket there was a great deal of inefficiency resulting in the loss of 98% of the power of the gases. The two basic reasons why this type of rocket was given up for modern use are (1) the combustion chamber changes, and (2) the shortness of flight. It has been replaced by the modern liquid fuel rocket which commonly uses alcohol and liquid oxygen. For experimental purposes the use of liquid ozone and hydrogen have been used to attain greater altitudes. The basic advantages are that its gases possess high velocity and the ability to introduce new mass and fuel into the combustion chamber.



The next type is the ramjet. It shows the greatest possibility for high speeds at high altitudes. Speeds exceeding 1500 miles per hour have been attained with such missiles. It is simply a tube which has a fuel injection and igniting device or spark plug. Air is forced under pressure through the intake and is mixed with the fuel and ignited, thus causing a great increase in the velocity of the gases leaving through the exhaust.

The pulsejet is almost the same as the ramjet except that it requires valves in front of the combustion chamber because of its much slower speed.

The most common engine today is the turbojet. The important parts are the tube, compressor, turbine, and combustion chamber.

The air coming through the intake is increased in velocity by the compressor, forced into the combustion chamber, mixed with the fuel and ignited. It then forces its way over the turbine, which supplies power for the compressor, and out to produce forward motion. It is usually started by an electric motor in front of the compressor. A tail cone is added to direct the gases.

The last is the turboprop which will probably develop into a work horse for most heavy transport, because of the fact that it combines the propeller and jet. It is the same in most respects as the turbojet, except that the turbine not only works the compressor but the propeller as well. Of course, the r.p.m. produced is too high for the propeller so it is reduced by the use of gears.

I hope to enter this field, finding this kind of work much to my liking. For the past eight years I have built and experimented with model rockets and planes. During this time I have constructed over 300 such models, mostly planes.

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The "Test Tube Times," publication of the Junior Academy, was issued on March 22 by Madison's West High Science Club. This marks the 10th anniversary edition of the Times and the usual 350 distribution was expanded to about 5,000 copies so that copies could be supplied to all students at West, each science club member in the state, and to the 48 state headquarters of the Junior Academy. RICHARD MAHONEY and GRATIA STAVRUM were co-editors of this issue, which contains about 30 separate articles on subjects ranging from the fundamental nature of light to stories on atoms, protozoa, hematology, and astronomy. Advertising and extra "donations" of club members supplied the extra funds needed for the expanded distribution.

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THE NEW-COMER  
(A recent arrival at the Central Park Zoological Gardens.)  
Drawn from life by F. S. CHURCH

(Private letter, printed for convenience. Prompt answer  
important.)

## State Agricultural Rooms,

Madison, January 18, 1870.

DEAR SIR:

Deeming it the duty and interest of every State to establish at least one institution founded in the interest of original research and scientific investigation, as means essential to its material and social progress and to the advancement of human knowledge; and believing that the time has now come, when an institution with such objects in view may be successfully established in Wisconsin, the undersigned, with the hearty approval and concurrence of numerous prominent citizens of the State, has undertaken to initiate a movement in that direction by inviting your attention and that of others to the subject, by suggesting the outline of a plan for the organization and endowment of the institution, and by naming a suitable time and place for the holding of a convention, to be called for the purpose of taking such formal action as the public interests and the cause of science and learning shall seem to require.

In pursuance of this demand of the interests represented, I address you this letter, and submit the accompanying suggestions as to form of organization and the steps proper to be taken in order to insure the success of the enterprise.

It will be observed that the plan presented for your consideration and criticism is sufficiently comprehensive to enlist the sympathies and co-operation of all who are zealous for the advancement of science, art, and literature, in any one, or in all of their several departments; that it proposes, in addition to the general objects embraced, to supply an important desideratum of the State by inaugurating a thorough and economical scientific survey of Wisconsin, embracing, not only its geology, but also its meteorology,

botany, zoology, agriculture, and archæology; that it contemplates the voluntary incorporation or association of the State Agricultural and State Historical Societies, as the Departments of Arts and of Letters, respectively, with such cordial relations of reciprocity with the State University as shall secure to the Academy important privileges in the various scientific establishments of that institution; and that the efficiency and permanency of the Academy are to be assured by an adequate pecuniary support, derived from endowments granted by wealthy and liberal citizens, and from reasonable standing appropriations made by the State.

After a preliminary canvass of some portions of the State, I am satisfied that nothing is requisite but resolution and active energy, on the part of those who may be reasonably expected to aid in the work, to insure a strong and efficient organization, with a concentration of the money, working force and collections requisite to a highly creditable opening of the Academy and a subsequent career of great prosperity and usefulness.

If you cordially approve of the objects above enumerated, or only of the main idea presented, have the goodness to signify such approval by letter, at the earliest moment practicable, to authorize the use of your name in connection with a call for a convention to be held in the State Capitol, early in the month of February, for the purposes aforesaid, and to use your best endeavors to awaken an interest in the enterprise.

With great respect, I am, my dear sir,

Very truly your obedient servant,

J. W. HOYT.

To

Dr. A. A. Graham

Wetmore.

## QUESTIONNAIRE REPLIES AND COOPERATORS

By WALTER E. SCOTT, Chairman  
Academy Quarterly Committee



Of about 275 questionnaire returns to date, 175 members have indicated that they favor the quarterly bulletin experiment. Most of the remainder did not reply to the question and only a few were opposed to the idea. The first issue of the Wisconsin Academy Review carried listings on 1953 articles, books, positions and honors of members returning the first 179 questionnaires. Space requirements did not permit continuation of that feature this issue, but it will be carried in forthcoming bulletins if this publication is continued.

Most encouraging was the offer of 13 more members to act as reporters thereby making a total of 55 potential assistants on this project! It is planned that detailed arrangements for reporting will be made with this group if the Academy membership decides to continue this project, at the annual meeting. With information coming in from so many sources and on so many subjects, an interesting and valuable bulletin should be assured. Potential reporters not listed in the last issue are:

STANLEY D. BECK (Madison), Physiology  
EDWIN L. COOPER (Madison), Fishery Research  
EDWARD C. FULLER (Beloit), Science Education in Colleges  
GEORGE E. HAFSTAD (Middleton), Plant Pathology  
SCOTT L. KITTSLY (Milwaukee), Physical Chemistry and Marquette  
Univ. News  
R. A. McCANSE (Madison), UW Ext. News and Wis. Rural Writers  
WM. H. McSHAN (Madison), Endocrinology of reproduction in mammals  
JOHN P. O'BRIEN (C.S.V.) (Milwaukee), Radiobiology  
FREDERICK L. THOMAS (Madison), Philosophy of Natural Science  
NICK JOHN TOPETZES (Milwaukee), Education  
CHARLES M. VAUGHN (Vermillion, S.D.), Parasitology  
G. K. VOIGT (Madison), Soils  
LUTHER ZELLMER (Platteville), Conservation and Geography of  
SW Wisconsin

# # #

## ABOUT THE COVER ILLUSTRATION

AARON BOHRD, Artist in Residence at the University of Wisconsin, painted the cover illustration called, "A Lincoln Portrait," in an old art form known as "trompe l'oeil" which literally means "deceiving or fooling the eye." The red feather on the original possessed by Professor and Mrs. Harry Steenbock is so real that the observer is inclined to pick it off of the picture. This photographic detail which gives the illusion of reality requires considerable time and patience of the artist--as well as ability. It is hoped that future issues of the Wisconsin Academy Review can feature the work of other Wisconsin artists.

# # #



PIONEER'S MISSION - THE STORY OF LYMAN COPELAND DRAPER, by WILLIAM B. HESSELTINE, was published this February by the State Historical Society, 816 State street, Madison. It contains 384 pages and 9 illustrations, and can be purchased from them for \$4.50. The following quotation is taken from the advertisement announcing this book.

"LYMAN COPELAND DRAPER was one of the first collectors of Americana. His Draper Manuscripts was the first great collection to be made of non-official, personal documents in American history. . . . 478 bound volumes of notes and documents on pioneer heroes: George Rogers Clark, Daniel Boone, Simon Kenton, Samuel Brady, Thomas Sumter, 'gamecock of the Revolution,' and scores of others."

"Historians have used these manuscripts time and again to write the epic story of the American West and to assess the contributions of the frontier to the American heritage."

"The story of Draper's life and his search for these manuscripts makes fascinating reading for lovers of American history. His interest in the past was awakened early. As a young lad in Lockport, New York, he listened to tales of Revolutionary valor told around the family fireside. At the age of 16 he was importing the aged James Madison for an autobiographical sketch. By 1840 his historical interests had crystallized and he had set a pattern for investigation from which he never departed."

"In building his collection, he traveled sixty thousand miles . . . many of them on foot . . . interviewing hundreds of veterans of the border wars and luring personal papers and extant lore from their descendants. He too was a pioneer, and he pursued his task with patriotic, almost religious fervor."

"In 1852 he moved to the infant state of Wisconsin, where he spent the next four decades in building up its State Historical Society. He found when he came a library of fifty books shelved in a bookcase in the governor's office; he left to his successor a library of 110,000 titles . . . one of the great historical collections of the world, occupying almost an entire wing of the State Capitol in Madison."

"This great library and the climate of scholarship that Draper inspired, constituted one of the foundation stones of that wedding of soil and seminar which gave birth to the 'Wisconsin Idea,' Wisconsin's progressivism and the Frederick Jackson Turner thesis on the frontier."

"Dr. Hesseltine has succeeded in transforming the name of Lyman Copeland Draper by which a fabulous collection has long been known, into a living person consumed with an invincible faith in his mission to posterity.

"COMMENTS FROM REVIEWERS. . . John Hicks, University of California: 'Pioneer's Mission is an excellent piece of research . . . a very superior job of writing . . . a "must" for all who teach and write American history.'

John Krout, Columbia University: 'Dr. Hesseltine has done a remarkable job in bringing Lyman Draper to life. I never knew his whole history and I have been fascinated by it.'

"ABOUT THE AUTHOR. . . William B. Hesseltine is one of the leading authorities on the Civil War period of American history. Born in Virginia, he attended Washington and Lee, Virginia and Ohio State Universities, receiving his doctorate from the latter institution in 1928. Since then he has taught at a number of colleges and universities. He is now on the staff of The University of Wisconsin and this year is on leave as a visiting professor at Rice University.

"Dr. Hesseltine has written a number of books including Ulysses S. Grant, Politician; Lincoln And The War Governors; Confederate Leaders In The New South; and The South In American History."

RECENT STUDIES IN AVIAN BIOLOGY is a book of the University of Illinois Press published cooperatively with the American Ornithologist's Union, which is accepting pre-publication orders at \$6.00 a copy. The manuscript, which summarizes recent studies in ornithology, was developed over the past several years by the A.O.U. Research Committee. It will be well illustrated and contain an extensive bibliography for each chapter.

ALEXANDER WETMORE, honorary member of the Wisconsin Academy, has contributed the chapter on Paleontology. Another Academy member, JOSEPH J. HICKEY, Chairman of the UW Department of Wildlife Management, has done the chapter entitled, "Some American Population Research on Gallinaceous Birds" and another UW professor, JOHN T. EMLÉN, Jr. (Department of Zoology), contributed the chapter on "The Study of Behavior in Birds."

This cloth-bound book of about 500 pages will cover all major aspects of modern ornithology such as breeding, banding, migration, anatomy, physiology, classification, diseases and systematics. Pre-publication orders should be addressed to CHARLES G. SIBLEY, Treasurer, A.O.U., Fernow Hall, Cornell University, Ithaca, N.Y.

The MILWAUKEE PUBLIC MUSEUM has recently published three booklets of which Academy member ROBERT E. RITZENTHALER was either author or editor. He was author of "Native Money of Palau" (Publications in Anthropology No. 1) and "Chippewa Preoccupation with Health" (M.P.M. Bulletin Vol. 19 No. 4). He assembled and edited the "Handbook of West African Art" (Popular Science Handbook Series No. 5) by WILLIAM R. BASCOM and PAUL GEBAUER.

The first issue of CREATIVE WISCONSIN, a quarterly publication of the Wisconsin Rural Writers' Association, was issued in January. Members (\$2.00) automatically receive this periodical which is available at \$1.25 annually to non-members through Treasurer JOHN LONSDORF, R.F.D. 3, Birnamwood.

DIRECTORY of the WISCONSIN ACADEMY OF SCIENCES, ARTS AND LETTERS\*KeyType of Membership

A - Active  
 C - Corresponding  
 H - Honorary  
 J - Junior  
 L - Life

Lib - Library

P - Patron

Special Subject of Study

P - Professional

H - Hobby

Date - Year of 1st affiliation

- ABERG, WM. J. P. (A-1945), 3401 Lake Mendota dr., Madison 5  
 ABRAMS, ALLEN (A-1943), 815 Tenth st., Wausau. A.B. Washington and Jefferson Coll., B.S. MIT; Honorary M.S. and Sc.D. Washington and Jefferson. Vice-P. in charge Research and Chemical Div. Marathon Corp., Rothschild. Trout fishing and bird hunting (H)  
 ALBRIGHT, M. ARLINE (A-1951), 110 W. Lloyd, Milwaukee.  
 Ph.D. Marquette. Professor of Education, Marquette. Mental Health, Guidance, and Speech (P), Music (H)  
 ALCORN, PAUL (A-1937), Wilbur Cross Library, Univ. of Conn., Storrs  
 ALLEN, CHARLES E. (L-1902), 2014 Chamberlain ave., Madison 5  
 ALLEN, THOMAS C. (A-1946), 4025 Hiawatha dr., Madison. B.S., M.S. Oregon State Coll., Ph.D. Wisconsin. Chm. Dept. Entomology, UW Insecticides and Chemical Control of Insects, Insect Transmission of Plant Diseases (P)  
 ALMON, LOIS (A-1950), Dept. of Bacteriology, N. D. Agric. College, Fargo, N. D.  
 ANDERSON, DON (L-1942), 801 Magdeline drive, Madison 4  
 ANDERSON, HARRY W. (A-1954), 2122 Hughitt ave., Superior. B.Ed. Superior State Coll., M.Ph. Wisconsin, Grad. work N.Y.U., U. Minn. Asst. Dir. Teacher Training Placement, Wis. State Coll., Superior  
 BAERREIS, DAVID A. (A-1954), Sterling Hall, Univ. Wis., Madison 6 B.A., M.A. Oklahoma, Ph.D. Columbia. Asso. Prof. Anthropology, Univ. of Wisconsin. Anthropology (P)  
 BAIER, JOSEPH G., Jr. (A-1945), 600 W. Kilbourn ave., Univ. Wis. at Milwaukee. B.Sc., M.Sc. Rutgers, Ph.D. Wisconsin. Prof. of Zoology, Chm. of Dept. Serology (P)  
 BALDWIN, IRA (A-1932), 211 Lathrop st., Madison. B.S., D.Sc. Purdue, Ph.D. Wisconsin. Vice-Pres. Academic Affairs, U.W. Bacteriology (P)  
 BARBER, WILLIAM HARLEY (L-1912), 621 Ransom st., Ripon. B.S., A.M. Wisconsin. Emeritus Prof. Physics, Ripon Coll.; Sec'y Wis. St. Bd. Examiners in Basic Sciences. Physics, Mathematics (P)  
 BARKER, A. L. (A-1934), Ripon College, Ripon  
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 BERTRAND, KENNETH J. (A-1937), Dept. of Geography, The Catholic Univ. of America, Washington 17, D.C. B.S., Ph.D., Wisconsin. Asso. Prof. Geography. Regional Geography of Anglo-America, Geomorphology, and Antarctica (P)  
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\* - See Appendix at end for additions of new members or details on others received too late for principal list. Also see future issues of REVIEW for periodic continuation of Directory.



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- BOLENDER, EDWARD L. (A-1932), 92 Maple ave., Superior. B.S. Miami U., M.S. Wisconsin. Chm. Dept. Biology, Wis. State College, Superior
- BOUTWELL, PAUL W. (A-1921), 1875 Riverside drive, Beloit. B.S. Beloit Coll., M.A., Ph.D. Wisconsin. Prof. Emeritus of Chemistry, Beloit College. Biochemistry, Nutrition, Organic Chemistry (P)
- BRADLEY, HAROLD C. (L-1908), 2639 Durant ave., Berkeley 4, Calif. B.A. California, Ph.D. Yale. Prof. Emeritus Physiol. Chem., UW Autolysis (P), Conservation (H)
- BRANDENBURG, F. S. (L-1948), 711 Farwell drive, Madison 4
- BRAUNS, FRITZ E. (A-1943), 306 S. River st., Appleton
- BRETTINGEN, DAVID LOWELL (J-1953), 45 S. Meadow Lane, Madison 5 Student Univ. Wisconsin; Student Computer, UW Numerical Anal. Lab., Dept. Math. Mathematics - computing Fourier synthesis of crystal structure (P), Astronautics (H)
- BRINK, R. ALEXANDER (A-1922), Dept. of Genetics, Univ. of Wis., Madison 6. B.S.A. Ontario Agric. Coll., M.S. Illinois, D.Sc. Harvard. Prof. of Genetics, UW. Maize genetics, alfalfa breeding
- BROWN, ROBERT M. (A-1949), 557 Woodward ave., Beloit
- BROWNE, FREDERICK L. (A-1921), 3546 Lake Mendota dr., Madison 5 B.Chem. Cornell, M.S., Ph.D. Wisconsin. Chemist, Forest Products Laboratory, Madison. Colloid Chemistry, Technology of paints, finishes, and preservative for wood, Wood technology (P)
- BROWNING, HAROLD W. (A-1920), R. I. State College, Kingston, R.I.
- BRUDER, EDGAR G. (A-1954), 1134 W. Burleigh st., Milwaukee 6
- BRYAN, GEORGE S. (A-1915), 2122 Chadbourne ave., Madison 5
- BUBERT, WALTER (A-1943), 1516 N. 37th st., Milwaukee
- BUCKSTAFF, ANNIE LAURIE (Mrs. Ralph) (A-1952), 1039 N. Main st., Oshkosh. Astronomy (H)
- BUCKSTAFF, RALPH N. (P-1922), 1039 N. Main st., Oshkosh. Manufacture (P), Pres. of one company; treas. of another at Oshkosh. Astronomy, Meteorology, Entomology (H)
- BURGESS, JACKSON (L-1945), 180 N. Wabash ave., Chicago, Illinois
- BUSS, IRVEN O. (A-1942), Zoology Dept., The State College of Washington, Pullman, Wash. B.S. Stout Institute, Ph.D. Wisconsin. Prof. of Wildlife Management, State Coll. of Washington. Population studies of ring-necked pheasant, life history studies of blue grouse, waterfowl population studies (P)
- BUSSE, L. W. (A-1946), 356 Chemistry Bldg., Univ. Wis., Madison 6
- BUTLER, RICHARD (A-1954), 2630 Park Place, Madison 5
- CAMERON, DONALD H. (A-1933), 708 Orchard st., Racine. B.A., M.A. Oberlin Coll., Ph.D. Univ. Cincinnati. Civilian employee of U.S. Army, Signal Corps Supply Agency. Chemical studies relative to leather and tanning processes; glass electrodes and related pH meters; instruments - chemical-electro-mechanical equipment, all (P)
- CARROLL COLLEGE LIBRARY (Lib-1945), Waukesha
- CATENHUSEN, JOHN (A-1943), Rt. 5, 800 Tompkins dr., Madison 4
- CHOPP, JOSEPH J. (A-1952), 270 N. Prince st., Whitewater. River Falls State Coll.; U. Marquette; B.A., M.A. Wisconsin; Rocky Mt. Biological Camp. Teacher Biological Science, Whitewater State Coll., Professional Magician. Biology, Botany, Conservation, Magic, all (P)
- CHURCHILL, WARREN S. (A-1945), Box 122 Minocqua. B.S., M.A. George Washington Univ. Fishery Biologist, Wis. Conservation Dept., Woodruff. Biology of fishes, esp. vital statistics of fish populations (P)

- CLARK, HARRY H. (A-1930), 324 Bascom Hall, Univ. of Wis., Madison 6  
 CLARK, PAUL F. (C-1921), 308 N. Prospect ave., Madison 5  
 CLARKE, HERBERT M. (A-1948), 803 State st., Madison 5. A.B. Franklin Coll., Indiana, M.S., Ph.D. Wisconsin. Asst. Prof. of Botany, UW. Botany - Pteridophytes and Gymnosperms (P). Photography (H)  
 COLEMAN, THOMAS E. (A-1942), 735 Farwell dr., Madison  
 CONANT, GEORGE H. (A-1933), Ripon. Ph.D. Wisconsin. Owner Triarch Products, Ripon (Microscope slides for biologists) Plant Pathology and General Botany (P)  
 COOPER, BERENICE (A-1937), 1123 N. 17th st., Superior. A.B. Beloit Coll., A.M. Wisconsin. English department, State Coll., Superior. The Abbe Prevost, Modern Fiction (P); Living comfortably in the woods (H)  
 COOPER, DELMER C. (A-1929), 2749 Kendall ave., Madison 5. B.A. Morningside Coll., hon. D.Sc. 1948, M.S. Purdue, Ph.D. Wisconsin Prof. of Genetics, UW. Cytogenetics of solanums, nature of resistance to scab in potatoes, tuberization in the potato (P)  
 COOPER, EDWIN L. (A-1954), 469 Orchard dr., Madison 5. B.S., M.S., Ph.D. Michigan. Chief Fishery Biologist, Wis. Conservation Dept., Madison. Ecology of stream trout (P)  
 COTTAM, GRANT (A-1953), 4224 Doncaster dr., Madison. B.A. Utah, Ph.D. Wisconsin. Asst. Prof. of Botany, UW. Phytosociology, Ecological methods (P)  
 COX, ELEANOR H. (A-1942), The Stout Institute, Menomonie. B.A., M.A. Wisconsin. Asso. Prof. Chemistry, Stout Institute. Inorganic, Organic and Biochemistry (P)  
 CULL, IRENE M. (A-1947), 200 Dixon ave., Peoria 5, Illinois B.S. Marquette, Ph.M. Wisconsin. Botanical technician, Northern Regional Research Lab. Biological Aid, Peoria. Botany (P) (H) including technique and taxonomy; Conservation Education, Photography (H)  
 CURRY, LA VERNE L. (A-1953), 619 South College, Mt. Pleasant, Mich. A.B. and Life Cert., Mich. State Normal Coll., Ypsilanti; M.A. Michigan; Ph.D. Mich. State Coll., East Lansing. Asso. Prof. Biology, Central Mich. Coll. of Education, Mt. Pleasant. Aquatic Biology (P) - Midges (Diptera-Tendipedidae) taxonomy of, ecology, and life history. Fisheries Biology (P)  
 CURTI, MERLE (A-1954), 113 Ely Place, Madison. A.B., A.M., Ph.D. Harvard, L.H.D. Northwestern. Prof. of History, UW. American frontier and democracy, the Intellectual in American Culture, Changing Ideas about Human Nature (P)  
 CURTIS, JOHN T. (A-1933), Botany Dept., Univ. Wis., Madison 6 Ph.D. Wisconsin. Professor of Botany, UW. Plant Ecology (P)  
 DAHM, ROBERT E. (A-1951), 4037 E. Bottsford ave., Cudahy. B.S., M.S. Wisconsin. Entomologist. Wasps (H)  
 DANIELS, FARRINGTON (A-1921), 417 Biochemistry Bldg., Univ. Wis., Madison 6  
 DARLING, STEPHEN FOSTER (A-1953), 617 E. Alice st., Appleton B.S., M.S. Minnesota, A.M., Ph.D. Harvard. Robert McMillan Prof. of Chemistry, Lawrence College. Organic Chemistry (P)  
 DAVEY, CHARLES B. (A-1953), 1702 Madison st., Madison. B.S. N.Y. State Coll. of Forestry, M.S. Wisconsin. Research asst. Soils Dept., UW. Forest soils, Nursery management (P)  
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 DENNISTON, ROLLIN HENRY (L-1905), 411 Holt ave., Winter Park, Fla. Ph.G., B.A., Ph.D., Wisconsin. Retired Prof. of Botany, UW. Botany (P), Ornithology (H)

- DEUTSCH, HAROLD F. (A-1942), Dept. Physiological Chem., Univ. Wis. Madison 6. Ph.D. Wisconsin. Asso. Prof. of Physiol. Chem. UW Proteins of Natural Systems, Tumor-Protein Relations, Catalase, all (P)
- DEVER, DONALD A. (A-1953), Dept. of Entomology, Univ. of Wis., Madison 6. B.S.A. Ontario Agric. Coll., M.Sc., Ph.D. Wisconsin. Entomologist, Asst. Prof. UW. Ecology and control of fruit insects, transmission of stone fruit diseases (P)
- DEVITT, ANDREW B. (A-1948), 1007 S. 34th st., Milwaukee 12
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- B.S., Ph.D. Wisconsin. Prof. of Entomology, UW. Entomology (P), Forestry, Photography, Wisconsin Academy, all (H)
- DICKINSON, WILLIAM E. (A-1949), 730 E. Euclid ave., Milwaukee. B.S. Wisconsin, M.S. Marquette U. Curator of Fishes, Reptiles and Invertebrates, Milwaukee Public Museum. Distribution and taxonomy of Wisconsin Reptiles, Fishes (P)
- DOANE, GILBERT H. (A-1937), 1111 Grant st., Madison 5. B.A. Colgate U. Librarian. Director of Libraries, UW, Madison 6
- History, Ornithology, Genealogy, all (H)
- DODGE, B. O. (L-1912), 39 Claremont ave., New York 27, N.Y.
- DOGGER, JAMES R. (A-1950), Box 5215 State College Sta., Raleigh, N. Carolina. B.S., M.S., Ph.D. Wisconsin. Asst. Research Prof. of Entomology, N. Carolina State Coll. Forage Insects (P) Coleoptera-Elateridae, Taxonomy of adults & larvae (P) & (H), Immature insects (P) & (H)
- DOHERTY, MARY A. (A-1946), 5922 Tenth ave., Kenosha
- DOMOGALLA, BERNHARD P. (A-1924), 4711 N. 125th st., Butler
- DOOLITTLE, SEARS P. (A-1933), 1519 - 44th st. NW, Washington 7, DC
- B.S., M.S. Michigan State Coll., Ph.D. Wisconsin. Plant pathological research, Agric. Research Service, Vegetable Crops Section, USDA, Plant Industry Sta., Beltsville, Md. Principal Pathologist. Diseases of vegetable crops, particularly tomatoes, cucumbers, and peppers--chiefly virus diseases (P)
- DRECHSLER, CHARLES (A-1919), Div. Veg. Crops and Diseases, Plant Industry Station, Beltsville, Md.
- DRESCHER, MILTON A. (A-1947), 2811 No. 73rd st., Milwaukee 10
- B.A. Wisconsin; B.S.L.S. Illinois, A.M.L.S. Michigan. Chief, Science and Industry Dept. Milwaukee Public Library, Milwaukee 3
- Library Science, Chemistry (P), German Literature
- DUNCAN, CATHERINE G. (Mrs. Robert E.) (A-1954), Forest Products Laboratory, Madison. A.B. De Pauw U., M.A., Ph.D. Wisconsin. Pathologist. Forest Disease Research, Forest Products Lab. Botany, Bacteriology (P)
- DUNCAN, ROBERT E. (A-1954), Dept. of Botany, Birge Hall, Univ. Wis., Madison 6. A.B. Miami U., M.A., Ph.D. Wisconsin. Lecturer and Project Associate in Botany, UW. Botany (Cytology) (P), Orchid Cytology (H)
- DURAND, LOYAL, Jr. (A-1955), Dept. Geology & Geography, Univ. of Tennessee, Knoxville 16, Tenn., B.A., M.A., Ph.D. Wisconsin Prof. of Geography, U. Tenn. Geography (P)
- EASTWOOD, JOHN P. (A-1951), 700 Kellogg ave., Ames, Iowa
- EBLING, WALTER H. (A-1954), 726 Seneca Place, Madison. B.S.A., M.S., Ph.D. Wisconsin, Agricultural Statistician, Wis. & USDA, State Capitol, and Asst. Prof. Agric. Economics, Coll. Agr., UW
- Agricultural data systems and methods, agricultural data functions at state and local levels, the place of data in agricultural economics, all (P)
- EELLS, JOHN S., Jr. (A-1949), 757 Milwaukee Road, Beloit, B.A. Yale, L.L.B. Stanford, M.A., Ph.D. California. Chm. Dept. of English, Beloit College. English literature of 19th century (P)
- EGGLETON, F. D. (A-1936), Dept. of Zoology, U. of Mich., Ann Arbor, Mich.

- EKERN, H. L. (L-1946), Shorewood Hills, Madison 5
- EKERN, PAUL C. (A-1950), Soils Dept. Univ. of Wis., Madison 6  
B.A. Westminster Coll., Fulton, Mo., Ph.D. Wisconsin. Asst.  
Prof. Soils and Meteorology, UW. Soil erosion, emphasis on  
drop impact as causative; Agricultural meteorology; Synoptic  
presentation of weather data (P)
- ELLARSON, ROBERT S. (A-1947), Rt. #4, Madison 5. B.S., M.S.  
Wisconsin. Instructor, Dept. of Wildlife Management, UW. Wild-  
life Mgmt., Plant Ecology (P), Field ornithology (P) & (H)
- ELVEHJEM, CONRAD A. (A-1944), Biochemistry Bldg., Univ. of Wis.,  
Madison 6. B.S., M.S., Ph.D. Wisconsin. Prof. of Biochemistry  
and Dean of the Graduate School, UW. Biochemistry-nutrition-  
vitamins and amino acids (P)
- EMIELITY, JOSPEH G. (A-1947), 2911 No. 10th st., Milwaukee 6.  
Ph.B. Wisconsin. Asst. in Geology Dept., Milwaukee Public  
Museum. Geology (P)
- ENCK, JOHN J. (A-1953), 322 Bascom Hall, Univ. of Wis., Madison 6
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Botany, zoology or biology (P), art and music (H)
- ERRINGTON, PAUL L. (A-1932), Insectary, Iowa State College, Ames,  
Iowa. B.S. South Dakota State Coll., Ph.D. Wisconsin. Prof. of  
Zoology, Iowa State College. Population phenomena of verte-  
brates; Psychological and physiological manifestations of the  
"10-year Game Cycle;" and The Muskrat in North America, all (P)
- ESSER, ROBERT E. (A-1947), 235 Stuart Road, Racine. B.S., M.S.,  
Ph.D. Marquette U. Asst. Prof. of Botany & Zoology, UW Ext.  
Div., Racine. Biological technique, Cytology (P), Entomology  
(P) and (H)
- EVANS, CLARENCE T. (A-1921), 2005 No. 72nd st., Wauwatosa 13.  
E.E. in M.E. Ohio. Cons. Engineer, Cutler Hammer Inc.
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Dr. Bus. Adm. Northland Coll., L.L.D. Wisconsin. Chm. Board, Marathon  
Corporation, Rothschild - Pulp, paper and paper packaging.  
Study relating to pulp and paper manufacture; forestry (P),  
History (H)
- FASSETT, N. C. (A-1926), 261 Birge Hall, Univ. of Wis., Madison 6
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Drake U., Ph.D. Wisconsin. Biology teacher, Graceland College.  
Animal disease research, audio-visual and photographic (P),  
Educational philosophy (H)
- FINCH, VERNOR C. (A-1921), 301 Science Hall, U. of Wis., Madison 6
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Botany, UW. Plant morphology and plant anatomy (seed plants)
- FLUKE, C. L. (A-1919), 3003 Harvard Drive, Madison 5. B.S. Colo.  
A. & M., M.S., Ph.D. Wisconsin. Prof. of Entomology, UW. Fruit  
insects (P), Syrphidae of the Americas (H)
- FLUKE, SARAH MYRTLE (Mrs.) (A-1952), 3003 Harvard Dr., Madison 5
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Ouachita Coll., Arkansas; A.M. Columbia; Ph.D. Teachers Coll.,  
Columbia U. Dean and Prof. of Education, School of Education, UW  
Director, Summer Session, UW. Mathematics, Educational Adminis-  
tration, Public School Finance, all (P)
- FOX, PHILIP G. (A-1942), 403 Sterling Hall, Univ. of Wis., Madison 6
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- FRASER, LEMUEL A. (A-1951), 154 Birge Hall, Univ. of Wis., Madison 6

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 Mass. Inst. Technology; Consultant. Nutrition of yeast and  
 other microorganisms, Cereal and baking technology, Laboratory  
 management (P); History, horticulture (H)  
 FULLER, ALBERT M. (A-1942), 5035 N. 42nd st., Milwaukee 9. B.A.  
 Wisconsin, M.S. Marquette U. Curator of Botany, Public  
 Museum, Milwaukee. Orchids of Wisconsin; Blackberries of Wis-  
 consin; preservation of habitats of native plants and animals  
 FULLER, EDWARD C. (A-1954), Beloit College, Beloit, Wis. B.S.  
 Montana State Coll., Bozeman, Ph.D. Columbia. Prof. of Chem-  
 istry and Chm. of Dept., Beloit College. Physical and inor-  
 ganic chemistry, The teaching of natural science to non-  
 scientists (P); Relations between natural sciences, social  
 sciences, and the humanities (H)  
 GATES, CHARLES B. (A-1942), 2501 E. Stratford Ct., Milwaukee 11  
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 Radcliffe, Ph.D. Wisconsin. Forest Products Technologist;  
 Lecturer, UW. Plant anatomy & physiology and Forest products,  
 (P); Dog breeding (H) (Basenjis - "Bark-less")  
 GILBERT, E. M. (L-1907), Birge Hall, Univ. of Wis., Madison 6.  
 Ph.D. Wisconsin. Retired Emeritus Prof. Botany and Plant  
 Pathology. Fungi.  
 GILBERT, W. PAUL (A-1951), 1038 E. Eldorado st., Appleton. B.A.  
 Oberlin Coll., Ph.D. Cornell U. Prof. of Physics, Lawrence  
 Coll. Teaching of Physics (P); History of Science, amateur,  
 Photography (H)  
 GILLAN, A. JOSEPH (A-1947), 4638A W. Medford, Milwaukee  
 GLOYER, W. O. (L-1908), 106 Lyceum st., Geneva, N. Y. B.A., M.A.  
 Wisconsin. Assoc. Prof. Plant Pathology (Emeritus, Cornell)  
 Plant diseases and control; Segregation and genetics of func-  
 tional characters (P)  
 GODER, HAROLD A. (A-1952), 405 Blaine Blvd., Racine  
 GOETHE, C. M. (A-1953), 720 Anglo Bank Bldg., Sacramento 14, Cal.  
 Banker and owner of string of ranches. Deeply interested pri-  
 marily in biology because of human genetics and eugenics  
 GRABER, LAURENCE F. (A-1929), Moore Hall, Univ. of Wis., Madison 6  
 B.S., M.S. Wisconsin, Ph.D. Chicago. Prof. of Agronomy, UW.  
 Food reserves (P), winter injury of herbaceous plants  
 GRACE, HARRIETT M. (A-1944), 613 Howard Place, Madison 3  
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 Washington, Ph.D. Wisconsin. Curator of Cryptogamic Herbarium,  
 Dept. of Botany, UW. Taxonomy of parasitic fungi (P), Restora-  
 tion of prairie in Univ. of Wis. Arboretum (H)  
 GREENE, HOWARD T. (A-1944), Brook Hill Farm, Genesee Depot  
 GROMME, OWEN J. (A-1951), 2842 N. 92nd st., Milwaukee. Curator,  
 Mammals and birds, Milwaukee Public Museum  
 GUILFORD, HARRY G. (A-1954), Green Bay Extension Center, Green Bay  
 Ph.B., Ph. M., Ph. D. Wisconsin. Asst. Prof. Botany & Zoology,  
 UW Ext. Div., Green Bay Center. Zoology, Parasitology (P)  
 GUNLOGSON, G. B. (L-1946), 1815 College, Racine  
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 Research. Entomology, parasitology (P), Nature study (H)  
 HACKETT, JAMES E. (A-1951), 121 Natural Resources Bldg., Univ. of  
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- HAFSTAD, GEORGE E. (A-1954), 2418 Hubbard ave., Middleton. B.S., M.S. Minnesota. Plant Pathologist, Wis. State Dept. Agric. Plant pathology, Botany (P), Geography, Conservation (H)
- HAGQUIST, CARL W. (A-1952), Triarch Products, Ripon. Ph.B., Ph.D. Brown U. Zoologist, Triarch Products. Animal microtechnique, Histology, Embryology, all (P)
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- HAMERSTROM, FREDERICK N., Jr. (A-1954), Plainfield. A.B. Harvard, M.S. Iowa State Coll., Ph.D. Wisconsin. Wildlife biologist, Leader, Grouse Management Research Project, Wis. Conservation Dept. Ecology, especially of grouse, Populations, Behavior (P)
- HANAWALT, ELLA M. (A-1932), Milwaukee-Downer College, Milwaukee
- HANLEY, JEROME IRVING (J-1952), 2320 E. Bradford ave., Apt. #2, Ripon. Student, Ripon College. Chemistry, Physics, Math.
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- HARPER, JOSEPHINE L. (A-1951), 4222 Beverly Road, Madison 5. B.A. Rockford Coll., M.A., Ph.D. Illinois, certificate in archival preservation, American U. Historian-archivist; manuscript librarian, State Historical Society of Wisconsin. American history, preservation of manuscripts and archives (P), photography (H)
- HASLER, ARTHUR D. (A-1940), Dept. of Zoology, Birge Hall, Univ. of Wis., Madison 6. A.B. Brigham Young U., Ph.D. Wisconsin. Teaching and research at UW, Professor and Chm. Dept. Zoology. Hydrobiology and Zoology (P), Music (H)
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- HEUN, MARIE E. (Mrs. A.L.) (A-1952), 1611 No. 33rd st., Milwaukee 8 Horticulture (H)
- HICKEY, JOSEPH J. (A-1948), 424 University Farm Place, Madison 5 B.S. New York U. M.S. Wisconsin, Ph.D. Michigan. Biologist, Dept. of Wildlife Management, UW, Assoc. Prof. Game ecology (population dynamics), Ornithology, Game Management, all (P)
- HIESTAND, WILLIAM A. (Andrew) (C-1926), 711 Hillcrest Rd., West Lafayette, Indiana. A.B., A.M., Ph.D. Wisconsin. Professor of Physiology, Purdue Univ. Comparative physiology (P & H). Anoxic survival, Respiration of the newborn, Decompression physiology
- HIGUCHI, TAKERU (A-1949), 452 Chemistry Bldg., Univ. Wis., Madison 6
- HILE, RALPH (A-1932), 1307 W. Madison st., Ann Arbor, Michigan. A.B. Indiana Central Coll., Ph.D. Indiana. Fishery Research Biologist, U.S. Fish & Wildlife Service, Ann Arbor. Great Lakes Fisheries (P)

- HOLDEN, MARJORIE C. (A-1953), Triarch Products Co., Ripon. B.A. Oberlin Coll., M.A. Montana. Staff member, Triarch Products. Floral morphology (P), Algae (morphology of) (H)
- HOLE, FRANCIS D. (A-1952), 2201 Center ave., Madison 4. B.A. Earlham Coll., Richmond, Ind., M.A. Haverford Coll., Penna., Ph.D. Wisconsin. Soil surveyor; Assoc. Prof. of Soils, UW Soils Dept. Soil Genesis, Classification, Mapping (P), Science of Non-Violence, a method for resolving conflict (H)
- HONEY, EDWIN E(arl) (C-1943), 145 Waupelani Drive, State College, Penna. B.S. Cornell U., M.S. Illinois, Ph.D. Wisconsin. Assoc. Plant Pathologist, Penn.State Coll., Assoc. Prof. Ext. Plant Pathology. Diseases of Plants; Mycology and Pathology of members of the fungus genus *Monilinia* (P)
- HOTCHKISS, WILLIAM O. (L-1911), 2 Tudor Lane, Scarsdale, N. Y. B.S., C.E., Ph.D., L.L.D. Wisconsin, L.L.D. Middlebury College, Sci.D. Columbia. Geological Consultant. Geology (P)
- HOUGHEN, OLAF ANDREAS (A-1945), 2247 Rowley ave., Madison. B.S. Washington, Ch.E., Ph.D. Wisconsin. Prof. of Chemical Engineering, UW. Applied thermodynamics, applied kinetics, diffusional operations in Chemical Engineering (P)
- HRUBESKY, CLARENCE E. (A-1943), Route 2, Box 353, Madison. B.S., M.S. Wisconsin. Chemist, Forest Products Laboratory. Packaging materials (P)
- HUFFER, RALPH C. (A-1949), 729 Hobart Place, Beloit. B.A. Albion Coll., M.A. Illinois, Ph.D. Chicago. Prof. of Mathematics and Astronomy; Head of Dept., Beloit College. Visual Binaries, Solution of numerical algebraic equations (P), Symphonic music (H)
- HUGHES, MERRITT Y. (A-1940), 150 N. Prospect ave., Madison 5 B.A. Boston U., M.A., D. Litt. Univ. of Edinburgh (Scotland), Ph.D. Harvard. Professor of English, UW. Renaissance literature.
- IHDE, AARON J. (A-1945), 4113 Euclid ave., Madison 5. B.S., M.S., Ph.D. Wisconsin. Assoc. Prof. of Chemistry and Integrated Liberal Studies, UW. History of Chemistry, Science Education, Food Chemistry, all (P)
- IHDE, OLIVE T. (Mrs.) (A-1953), 4113 Euclid ave., Madison 5. B.A. Lawrence Coll. Languages, Social science (H)
- INGRAHAM, MARK H. (A-1929), Univ. of Wisconsin, Madison 6. A.B. Cornell U., A.M. Wisconsin, Ph.D. Chicago, L.L.D. Lawrence Coll., Sc.D. Wesleyan U. Prof. of Mathematics and Dean of Letters and Science, UW. Mathematics (P)
- IRRMANN, ROBERT H. (A-1949), 722 Emerson st., Beloit. A.B. summa cum laude, Beloit Coll., M.A. Harvard, Ph.D. Indiana. Assoc. Prof. of History, Beloit College. English naval adm. and the career of Admiral Edward Russell, late 17th-early 18th centuries (P); early history Beloit College, especially life and letters of Joseph Emerson, mid-19th century (H)
- JACKSON, HARTLEY H. T. (L-1910), Fish & Wildlife Service, U.S. National Museum, Washington 25, D.C. B.S. Milton Coll., M.A. Wisconsin, Ph.D. Geo. Washington U. Retired; formerly Chief of Section of Biological Surveys, U.S. F & W Service. Mammals of Wisconsin (P & H), Mammalogy (P & H), Conservation of natural resources (H)
- JACKSON, MARION L. (A-1947), Room 104B, Dept. of Soils, Univ. of Wis., Madison 6. B.S., M.S. Nebraska, Ph.D. Wisconsin. Prof. of Soils, UW. Mineral colloid composition of soils, Ionic equilibria in soils, Runoff analysis and lake and stream pollution studies, all (P)
- JACOBSON, J. R. (A-1946), Univ. of Wis. Arboretum (corner Manitou Way & Seminole Hwy), Madison 5

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- JENKINS, JOHN W. (A-1954), 2805 Sylan ave., Madison 5. B.Sc. (Education) Wisconsin. Chief Curator of Museum, State Historical Society of Wisconsin, Madison 6. Museology, History of Wis. Art (P), Folk lore (P & H)
- JESERICH, MARGUERITE W. (A-1947), Midland College, Fremont, Nebr.
- JOHNSON, RAYMOND E. (A-1942), 3103 N. Asbury st., St. Paul 13, Minn. A.B. Doane Coll., Crete, Nebr., M.A. Nebraska, Ph.D. Michigan. Asst. Federal Aid Supv., U.S. Fish & Wildlife Serv. Minneapolis Regional Office. Limnology, Ichthyology, Fisheries research and management, all (P)
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- JONES, ROBERT H. (A-1954), 104 King Hall, Univ. of Wis., Madison 6
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- KEITT, G. W. (A-1917), Horticultural Bldg., Univ. of Wis., Madison 6. B.S., Sc.D. Clemson Coll., M.S., Ph.D. Wisconsin. Professor of Plant Pathology, UW. Epidemiology and control of plant diseases, the nature of parasitism and disease resistance, genetics of plant pathogenic fungi, all (P)
- KESSELMAN, WM. (A-1945), 3059 N. Downer ave., Milwaukee. B.A. Wisconsin, M.A. Northwestern. Pharmacist; President of Prescription Chemists, Inc. (P) Photography (H)
- KILP, F. G. (A-1954), 1151 Wisconsin River ave., Port Edwards Grad. UW Forest Ranger School. Manager Woodlands, Nekoosa-Edwards Paper Co., Port Edwards. Forestry, game management (P), Photography (H)
- KING, DONALD B. (A-1949), 1651 Atson Lane, Cincinnati 5, Ohio
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- KITTSLEY, HELEN J. (A-1948), 810 E. Mason st., Milwaukee 2 B.S., M.S. Western Reserve U. Instructor in Zoology, Univ. Wis. in Milwaukee
- KITTSLEY, SCOTT L. (A-1950), 810 E. Mason st., Milwaukee 2 B.S. Wisconsin, M.S., Ph.D. Western Reserve U. Asst. Prof. of Chemistry, Marquette Univ. Physical Chemistry (P), Chess (H)
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- KOWALKE, OTTO L. (A-1919), 2012 Jefferson st., Madison 5. B.S. Wisconsin. Emeritus Prof. of Chemical Engineering, UW. Growing crystals of Calcite (P)
- KRUSCHKE, EMIL P. (A-1939), 3366 N. 48th st., Milwaukee 16. B.S., M.S. Wisconsin. Assoc. Curator of Botany, Public Museum, Milwaukee. Systematic study of the Hawthorns of Wis., 35 mm. color photographs of native Wis. wild flowers and garden flowers (P), Conservation of natural resources in Wis. (H)
- KRUSE, CARLA (Mrs. Harold) (A-1954), Loganville
- KRUSE, HAROLD (A-1954), Loganville



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Schools. Education, English (P), History (H)
- LARSEN, EDWIN MERRITT (A-1947), 227 Standish Ct., Madison 5  
B.S. Wisconsin, Ph.D. Ohio. Assoc. Prof. of Chemistry, UW  
Chemistry of the transition elements (P)
- LAWTON, GERALD W. (A-1952), 3818 Euclid ave., Madison. B.S., M.S.  
Marquette, Ph.D. Wisconsin. Asst. Prof. UW. Sanitary Chem-  
istry, Sanitary Engineering (P), Woodworking (H)
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- LENROOT, KATHERINE (H), Children's Bureau, Washington, D. C.
- LEVI, HERBERT W. (A-1947), Univ. of Wis. Extension Center, Wausau  
B.S. Connecticut, MS, Ph.D. Wisconsin. Asst. Prof. of Botany  
and Zoology. Invertebrate Animals (esp. Spiders) (P)
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Student, Rose Polytechnic Institute. Electrical Engineering
- LEWIS, RONALD E. (A-1954), 403 Sixth st., Racine. I.T.T. 3 years  
Currently enrolled; coop. student Mech. Engrg., J.I. Case Co.  
Soil conservation and water control as related to tillage prac-  
tices in connection with study
- LIMBACH, JOHN P. (A-1948), Route 2, Ripon
- LINDSAY, RUTH H. (A-1929), Route 5, Oconomowoc. B.A. Wellesley  
Coll., M.A., Ph.D. Wisconsin. Cytology and Genetics
- LINK, KARL PAUL (A-1944), 201 Biochemistry Bldg., Univ. of Wis.,  
Madison 6
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B.A. Manitoba, Ph.D. Iowa State Coll. Asst. Prof. of Medical  
Microbiology and of Zoology. Parasitic protozoa (P), Parasites
- MacARTHUR, KENNETH (A-1938), Milwaukee Public Museum, Milwaukee 3
- MACKENTHUN, KENNETH M. (A-1947), 3717 Ross st., Madison. A.B.  
College of Emporia, Kansas, M.A. Illinois. Public Health  
Biologist, Wis. Com. on Water Pollution. Invertebrate zoology,  
Fisheries biology, Ecology, all (P)
- MADER, DONALD L. (A-1954), 830 W. Johnson st., Madison. B.S.  
N.Y. State Coll. of Forestry. Grad. student, Soils Dept. UW.  
Forestry, Forest soils (P)
- MARCH, HERMAN W. (A-1921), 3902 Euclid ave., Madison 5. A.B., A.M.  
Michigan, Ph.D. Munich. Prof. Emeritus of Mathematics, UW.  
Theory of Elasticity, Electromagnetic fields, Hydrodynamics (P)
- MARQUETTE, WILLIAM GEORGE (L-1906), 119 Broadway, Pleasantville,  
New York. Ph.G. Northwestern, B.S., Ph.D. Wisconsin. Biologist  
Cellular physiology, Microscopy (P)
- MARSHALL, ANNE (A-1948), 902 - 7th st., Menomonie
- MARSHALL, RUTH (L-1894), Wisconsin Dells, B.S., M.S. Wisconsin,  
Ph.D. Nebraska, hon. D.Sc. Rockford Coll. Retired, Prof. of  
Zoology Emeritus, Rockford Coll. Hydracarina (water mites) (P)
- MARSHALL, WM. R. (A-1954), 3102 Engineering, Univ. of Wis., Madison
- MARSHFIELD FREE LIBRARY (Lib-54), Marshfield
- MARTIN, ELLA MAY (A-1948), 528½ Irene st., Platteville. B.A.  
Lawrence Coll., M.A., Ph.D. Wisconsin. Teacher, Wis. State  
Coll., Platteville. Botany, Plant Pathology, Bacteriology (P),  
Photography (H)
- MARTS, RALPH O. (A-1946), 420 W. Gorham st., Madison 3. B.S.  
Ottawa U., Kansas; M.S. Iowa. Technologist, U.S. Forest Prod-  
ucts Lab. Wood structure and growth relations (P)
- MASON, ARNOLD C. (A-1939), 8036 Watkins Dr., St. Louis 5, Mo.  
B.S. Yale. Geologist, U.S. Geol. Survey. Engineering geology,  
Ground-water geology, Geomorphology, all (P)

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- MCCANSE, RALPH ALAN (A-1954), 3309 Black Hawk Drive, Madison A.B., M.A. Assoc. Prof. of English, Extension Div., UW Esthetics and Literary Criticism, Theory and Methods of Poetry (P), Life and Works of Rose Cecil O'Neill (H)
- MCCOY, ELIZABETH F. (A-1929), 21 Agric. Hall, Univ. of Wis., Madison
- MCDONOUGH, E. S. (A-1937), Biology Dept., Marquette University, Milwaukee 3. Ph.D. Iowa State Coll. Professor, Biology Dept. Marquette Univ. Mycology, Genetics, Phytopathology, all (P)
- McELVAIN, S. M. (A-1929), 308 Chemistry Bldg., Univ. of Wis., Madison
- McGRANAHAN, MRS. FLOYD (A-1949), Beloit College, Beloit. B.A. Muskingum Coll., M.A. Columbia. Assoc. Prof. of English and Dean of Women, Beloit College. English Novel of 19th century
- McKERN, WILL C. (A-1939) 2755 N. Avondale Blvd., Milwaukee B.A. California. Director, Milwaukee Public Museum. Anthropology (Ethnology & Archeology), Museology, all (P)
- McNUTT, S. H. (A-1947), 108 Vet. Science Bldg., Univ. of Wis., Madison 6
- MOSHAN, WM. H. (A-1954), Birge Hall, Univ. of Wis., Madison 6 B.S. Arkansas State Teachers Coll., M.A., Ph.D. Missouri Research and teaching, Dept. Zoology, UW; Prof. Zoochemistry Pituitary Gonadotrophic Hormones, Enzyme-Hormone Relationships, General Endocrinology, all (P); History including history of science (H)
- MEAD, WARREN J. (L-1911), 88 Rutledge Rd., Belmont 78, Mass. B.Sc., M.A., Ph.D. Wisconsin. Consulting Geologist. Geology, Engineering, (P)
- MEDLER, JOHN T. (A-1952), 104 King Hall, Univ. of Wis., Madison 6
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- MEYER, HENRY (A-1948), 307 Spaulding ave., Ripon. A.B. Calvin Coll., M.S., Ph.D. Michigan. Chm. Dept. of Biology and Prof. of Biology, Ripon College. Vertebrate morphology and Embryology, Ornithology, all (P)
- MIDDLETON, WILLIAM SHAINLINE (A-1936), 2114 Adams st., Madison 5 M.D. Pennsylvania, hon. Sc.D. Pennsylvania, Cambridge. Physician, UW, Prof. of Medicine; Dean, Medical School. Internal medicine, Clinical research, History of medicine, all (P)
- MILES, PHILIP E. (A-1942), 1900 Arlington Place, Madison 5
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- MOSSMAN, HARLAND W. (A-1924), 2902 Columbia Rd., Madison 5 B.S. Allegheny, M.S., Ph.D. Wisconsin. Prof. of Anatomy, Medical School, UW. Fetal membranes and reproductive tract of mammals; Embryology and comparative anatomy; Human anatomy (P)
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- NELSON, KATHERINE GREACEN (Mrs. F.H.) (A-1943), 1515 N. Franklin Pl. Milwaukee 2. A.B. Vassar Coll., Ph.D. Rutgers. Prof. of Geology and Geography, Milwaukee-Downer College. Paleontology (P & H), Wisconsin geology (P), Oil geology (P & H)
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- NEUMYER, W. J. (A-1949), 2524 N. First st., Milwaukee 12
- NEVINS, BEATRICE IRENE (A-1929), Valdosta State College, Valdosta, Georgia. Ph.B., Ph.M., Ph.D. Wisconsin. Prof. of Biology, Valdosta State College. Botany, Zoology (P)
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- NICHOLS, M. STARR (A-1935), Wis. State Laboratory of Hygiene, Madison. B.S., M.S., Ph.D. Wisconsin. Asst. Director Wis. State Lab. of Hygiene; Prof. Sanitary Chem. UW. Public Health Laboratory work, especially water and water sanitation; Drinking water fluoridation (P)
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- OBERDORFER, CLAUDE E. (A-1952), 6101 W. Silverspring Drive, Milwaukee. B.S. Michigan, M.D. Marquette. Student. Relationship of Poliomyelitis and increased metabolism, Factors controlling molting process in the sceloporus undulatus (P)
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- PAUL, BENSON H. (A-1945), 1118 University Bay drive, Madison 5 B.S., M.F. Cornell. At Forest Products Laboratory, Madison 5 Growth in relation to wood properties, Environmental influences upon structure and strength of wood (P)
- PEPPLER, HENRY J. (A-1948), 5157 N. Shoreland ave., Milwaukee B.S., M.S., Ph.D. Wisconsin. Director Biochemistry Laboratory, Red Star Yeast & Products Co., Milwaukee. Microbiology, Biochemistry, Dairy industry, all (P)
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- POTZGER, JOHN E. (A-1941), Butler University, Indianapolis 7, Ind. A.B., M.A. Butler, Ph.D. Indiana. Head, Dept. of Botany, Butler Univ. Pollen analysis, history of forests during post-glacial times, Forest sociology, all (P)
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- PRISLAND, MARIE C. (Mrs.) (A-1954), 1034 Dillingham ave., Sheboygan Founder, Slovenian Women's Union of America
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- RITTER, GEO. J. (A-1937), 310 Vista Road, Madison. B.S., M.S., Ph.D. Chemist. Chemistry of wood, microscopy, chemical dissection of fibers, polarized light as affected by wood fibers; Bacteriology, all (P)
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- SALAMUN, PETER J. (A-1948), 4732 N. Elkhart ave., Milwaukee 11. B.S. Wis. State Coll., Milwaukee, M.S., Ph.D. Wisconsin. Teacher of Biology, Wis. State College, Milwaukee. Botany (general), taxonomy, ecology, historical plant geography (P), Meteorology (H) & (P), Physiography and Geology (H).
- SARLES, WILLIAM B. (A-1933), Dept. of Bacteriology, Univ. of Wis., Madison 6. B.S., M.S., Ph.D. Wisconsin. Prof. of Bacteriology at UW. Ecology of microorganisms, Microorganisms in the intestinal tract, Limnology, all (P)
- SAUER, JONATHAN D. (A-1952), 10A University Houses, Madison 5. Ph.D. Washington Univ., St. Louis. Asst. Prof. of Botany, UW. Evolution of crop plants and weeds (P)
- SAUNDERS, JOHN W., JR. (A-1950), Dept. of Biology, Marquette Univ., Milwaukee 3. B.S., M.S. Oklahoma, Ph.D. Johns Hopkins. Asst. Prof. of Zoology, Marquette U. Embryonic tissue interactions, Factors controlling melanin synthesis in living skin (P)
- SCHLAEGER, ALBERT J. (A-1947), 7725 N. Ashland ave., Chicago 26, Ill.
- SCHLAFKE, DON B. (A-1951), 1708 West Packard st., Appleton. Student at Lawrence Coll. Testing of paper and products in industry (H & P), Amateur Radio (H)
- SCHMIDT, ERWIN R. (A-1929), Wisconsin General Hospital, Univ. of Wis., Madison 6
- SCHNEBERGER, EDW. (A-1942), 1668 Baker ave., Madison 5. B.S., M.S. Kansas State Coll., Ph.D. Wisconsin. Supt. Fish Management, Wis. Conservation Dept. Ecology of Fishes, Fish Management Techniques (P)
- SCHORGER, A. W. (L-1916), 168 N. Prospect ave., Madison 5. Ph.B. Wooster Coll., M.A. Ohio, Ph.D. Wisconsin. Prof. Wildlife Management, UW. Ornithology, Mammalogy (P)
- SCHORGER, MARGARET D. (Mrs.) (A-1952), 168 N. Prospect ave., Madison
- SCHROEDER, MYRON A. (A-1951), 5834 W. Melvina, Milwaukee 16. Student, Marquette Univ. Economics (H)
- SCHUBRING, EDWARD J. B. (A-1920), 410 N. Pinckney st., Madison 3. B.L., L.L.B. Wisconsin. Lawyer; Senior partner of Schubring, Ryan, Petersen & Sutherland, Madison
- SCHUBRING, SELMA L. (Mrs. E.J.B.) (A-1920), 410 N. Pinckney st., Madison 3. B.A., M.A., Ph.D. Wisconsin
- SCHUETTE, HENRY A. (A-1917), 719 Farwell dr., Madison 4. B.S., M.S., Ph.D. Wisconsin. Prof. of Chemistry, UW. Food chemistry with emphasis on the fatty oils and waxes, quantitative organic analysis (P), Philately (H)
- SCHUETTE, JEAN F. (Mrs.) (A-1953), 719 Farwell dr., Madison 4

- SCHWARTZ, SIDNEY L. (A-1943), 1016 Van Buren st., Madison
- SCHWENDLER, CARL (J-1953), 626 W. Atlantic st., Appleton. Student
- SCOTT, GERTRUDE M. (Mrs. W.E.) (A-1954), 1721 Hickory drive, Madison 5. Horticulture (H), Bird watching (H)
- SCOTT, JOHN M. (A-1954), Campion High School, Prairie du Chien
- SCOTT, WALTER EDWIN (A-1941), 1721 Hickory dr., Madison 5. B.A. Kalamazoo Coll., Michigan, Grad. work in Biological Philosophy. Adm. Asst., Wis. Conservation Dept., Inf. & Edu. Div. Conservation (P), Wildlife and conservation history, Ornithology (H)
- SEDMAN, YALE (A-1953), 104 King Hall, Univ. of Wis., Madison 6
- SEGUIN, HAZEL A. (A-1942), 1205 - 16th st., Superior. B.A. Wisconsin, M.A. Columbia. Prof. at Wis. State Coll., Superior. Botany, Zoology, Elementary Science, all (P)
- SEIFERT, LESTER W. J. (A-1947), 311 Ext. Bldg., Univ. of Wis., Madison 6. A.B. Northwestern Coll., A.M. Wisconsin, Ph.D. Brown Asso. Prof. of German, UW. The German Spoken in Wisconsin, Methodology of Language Instruction (P)
- SETO, FRANK (A-1953), 414 S. Seventh ave., Wausau. B.A. Berea Coll., M.S., Ph.D. Wisconsin. Instructor in Botany and Zoology at Ext. Div., UW. Developmental Genetics, Popularizing Biology and Visual Aids in teaching biology (P)
- SEYMOUR, FRANK C. (A-1949), Center street, Dighton, Mass. A.B. Harvard, B.D. Union Theological Seminary, M.S. Massachusetts Minister, Winslow Congregational Church, Taunton, Mass. Trees of Wisconsin and Flora of Lincoln Co., Wis. (H)
- SHACKELFORD, R. MAX (A-1942), 111 Genetics Bldg., Univ. of Wis., Madison 6
- SHARP, TERRY EARL (J-1953), 211 S. 23rd st., La Crosse. Student in Chemistry, Carnegie Inst. of Tech. Chemistry (P & H)
- SHENEFELT, ROY D. (A-1947), Dept. of Entomology, Univ. of Wis., Madison 6. Ph.D. State Coll. of Washington, Pullman. Assoc. Prof., UW. Forest entomology (P), Taxonomy of Brachonidae (H)
- SIEKER, WILLIAM E. (A-1953), 119 Monona ave., Madison 3. Ph.B., B.L. Wisconsin. Attorney at Law (P), Lepidoptera, especially Sphingidae of the world, and Iris culture (H)
- SISTER MARY ANTHONY KELLER (A-1939), 27 Convent ave., Yonkers 3, N.Y. M.S. Marquette. Teaching science at Sacred Heart High School. Nature Study (H)
- SISTER MARY LAURETTA (A-1946), Columbus High School, Marshfield B.S. De Paul, M.S. Marquette. Chemistry and Physics Teacher, Head of Science Dept., Columbus H.S. Vital interest in Junior Academy of Science (P), Photography (H)
- SISTER M. MIRA STUDER (A-1939), Alverno College, 1413 S. Layton Blvd., Milwaukee 15
- SIVESIND, RAYMOND S. (A-1954), Box 602 Cambridge. B.A. Luther Coll., Decorah, Iowa; M.A. Wisconsin. Supv. Historic Sites & Markers, State Historical Soc. of Wis. Wisconsin local history and Preservation and restoration techniques (P), Photography
- SLIDELL, KEMPER (A-1945), Rt. 3, Box 513, Orlando, Fla.
- SMITH, LLOYD L., Jr. (A-1940), 300 Coffey Hall, Univ. Farm, St. Paul, 1, Minn.
- SMITH, W. N. (A-1942), 28 S. Court st., Platteville
- SNELL, WALTER H. (A-1919), Brown University, Providence 12, R.I. A.B., A.M. Brown, Ph.D. Wisconsin. Stephen T. Olney Prof. of Natural History; Chm. Dept. of Botany, Brown U. Forest pathology, mycology (Boletaceae and Hydnaceae) (P), Dictionary of mycological terms (H)
- SORENSEN, DOUGLAS D. (A-1954), Box 266, Mazomanie
- SORENSEN, JUANITA S. (Mrs.) (A-1951), Mazomanie. B.S., M.S. Wisconsin. Science teacher, Arena H.S. Stratiomyidae (H)
- SPERRY, THEODORE M. (C-1937), Kansas State Teachers College, Pittsburg, Kan. B.S. Butler U. (Indianapolis), M.S., Ph.D. Illinois. Assoc. Prof. of Biology, K.S.T.C. Plant ecology (prairie) (P), Ornithology and Plant taxonomy (Congo flora) (H)

- SPOHN, WM. H. (A-1943), 221 Lakewood Blvd., Madison
- SQUIER, THEO. L. (A-1932), 2619 E. Wood Place, Milwaukee
- STAUFFER, JOHN F. (A-1940), 4113 Hiawatha dr., Madison 5. B.Sc., M.Sc., Miss. State Coll., Ph.D. Wisconsin. Botanist (Plant physiologist), Professor & Chm. Botany Dept., UW. Photosynthesis, biological effects of radiation (P)
- STEENBOCK, HARRY (A-1921), Biochemistry Bldg., Univ. of Wis., Madison 6. Ph.D., Sc.D. Wisconsin, Sc.D. Lawrence College Professor of Biochemistry, UW. Nutrition, Vitamins (P)
- STEIGER, CARL E. (P-1954), 25 Wisconsin ave., Oshkosh. UW Ex.'23 President, Deltax Rug Co., Oshkosh
- STELL, WM. N. (A-1919), 1926 N. 53rd st., Milwaukee 8
- STEINER, GOTTHOLD (A-1923), 4117 - 29th st., Mt. Ranier, Md.
- STEPHENSON, R. G. (A-1946), 205 S. Washington ave., Cedarburg
- STEWART, DUNCAN J. (A-1948), 3528 Hickory lane, Rockford, Ill. B.A., B.S. Wisconsin. President, Barber-Colman Co., Rockford
- STOCK, KURT (A-1922), Edgewood Orchard, Fish Creek
- STODDARD, HERBERT L., Sr. (A-1942), Route 5, Thomasville, Ga. Free lance Ornithologist, Wildlife Mgt., Forester, Farmer General ornithology, life history of Bobwhite Quail and other Upland Game Birds (P)
- STOREY, OLIVER W. (A-1942), 924 Golf lane, Wheaton, Ill. B.S., Chem. Eng. Wisconsin. Consulting Engineer, 180 N.Wabash ave., Chicago 1. (Retiring early in 1954) Patent Law (P)
- STOUT, ARLO B. (I-1907), New York Botanical Gardens, New York, N.Y.
- STOVALL, W. D. (A-1942), State Laboratory of Hygiene, Madison 6 B.S. Miss. Coll., M.D. Tulane U. Director, State Laboratory of Hygiene. Pathology (P)
- STREHLow, ELMER W. (A-1946), 520 E. Montana st., Milwaukee 7
- STRUVE, OTTO (C-1927), Dept. of Astronomy, Univ. of California, Berkeley 4, Calif. Ph.D. Chicago. Prof. of Astrophysics; Director of Linschner Observatory, Univ. of Calif. Astrophysics P
- SUPERNAW, J. S. (A-1944), 110 E. Main st., Madison. B.S., A.B. Olivet Coll., M.S., M.D. Wisconsin, F.A.C.S. Physician. Astronomy, Archaeology, Mineralogy (H)
- SUZUKI, HOWARD K. (A-1947), 37-H McAllister Pl., New Orleans 18, La. B.S., M.S. Marquette U. Asst. in Anatomy, Tulane Univ. Reticulo-endothelial system of rats (P), Lower vertebrate systematics (H), Nature photography (H)
- SWENDSEN, LUCILE EVANS (Mrs.) (A-1932), 2129 E. Kenwood Blvd., Milwaukee 11. B.A. Milwaukee-Downer Coll., M.S. Chicago Botany instructor at Wis. State Coll., Milwaukee. Ferns, Ecology (P), Insects (H)
- TALBOT, H. W. (A-1940), 54 W. Guster st., Oshkosh
- TEISBERG, HALVOR O. (A-1937), 1011 Edgewood ave., Madison. A.B. Retired Librarian. American Bibliography and especially American Book Auction Catalogues, etc. (H)
- THOMAS, FREDERICK L. (A-1954), 4504 Mineral Point Road, Madison Antioch Coll.; B.Ch.E. Ohio, M.S. Wisconsin. Director Thomas Chemical Co., Madison. Natural science and its unity, theory and model for living plant cell, Philosophy-teleology, all (H)
- THOMPSON, MRS. NOEL F. (A-1954), 1717 Chadbourne ave., Madison 5 B.A. Wisconsin. Engineering Aide, Forest Products Laboratory, Timber Mechanics Div. (P)
- THOMSON, JOHN W. (A-1937), 209 Birge Hall, Univ. of Wis., Madison 6 A.B. Columbia, M.A., Ph.D. Wisconsin. Assoc. Prof. of Botany UW Lichens of North America (P)
- THREINEN, C. W. (A-1954), Southern Area Fisheries Hdqts., Route 3 Madison
- THRONE, ALVIN L. (A-1930), 3916 N. Maryland ave., Milwaukee 11
- THWAITES, FREDRIK T. (A-1916), 41 N. Roby Road, Madison 5. B.A., M.A. Wisconsin. Asst. Prof. of Geology, UW; Geologist, Wis. Geological Survey. Well records in Wisconsin, Pleistocene of Wisconsin, Research in Geomorphology, all (P), Photography (H)

- TOMLINSON, CHARLES WELDON (L-1921), 510 Little Bldg., Ardmore, Okla. B.A., M.A. Wisconsin. Ph.D. Chicago. Petroleum geologist. Structural geology and stratigraphy (P)
- TOPEZES, NICK JOHN (A-1950), 2525 N. 65th st., Milwaukee. A.B., M.S., Ph.D. Wisconsin. Asst. Prof. Dept. of Education Marquette Univ. Educ. Psychology, Mental testing, Guidance (P)
- TRASK, P. D. (A-1946), 240 Southampton ave., Berkeley, 7, Calif.
- TRUOG, EMIL (A-1921), 204 Soils Bldg., Univ. of Wis., Madison 6
- TWENHOFEL, H. W. (C-1919), Rt. 3, Box 469C, Orlando, Fla.
- TYLER, STANLEY A. (A-1937), 726 Huron Hill, Madison. B.A., M.A., Ph.D. Wisconsin. Professor UW Geology Dept. Iron ore, pre-Cambrian Geology, Metamorphic geology, all (P)
- UEHLING, GENE (J-1953), 2550 S. 15th st., La Crosse. Student, H.S. Radio and television; sound crew and stage work (H)
- UNGER, JAMES W. (A-1954), Wisconsin State College, Oshkosh. B.S. Wis. State Coll., Stevens Point, M.S., Ph.D. Wisconsin. Head, Dept. of Biology, Wis. State College, Oshkosh. Plant anatomy, genetics (P), Horticulture (H)
- UPTON, R. MILLER (A-1954), Beloit College, Beloit. B.B.A. Tulane, M.B.A. Harvard, Ph.D. Northwestern. President, Beloit College.
- VAN BIESBROECK, GEO. (A-1927), Williams Bay. Eng. Dr. Univ. of Ghent, Belgium. Emeritus Prof. of Astronomy, Yerkes Observatory Double stars, Comets, Astrometric problems, all (P)
- VANDERWALL, E. J. (A-1942), 2324 Eton Ridge, Madison
- VAN ENGEL, WILLARD A. (A-1946), Gloucester Point, Va.
- VAUGHN, C. M. (A-1948), Dept. of Zoology, Univ. of South Dakota, Vermillion, S. Dak.
- VOIGT, G. K. (A-1949), Soils Dept., College of Agric., Univ. of Wis., Madison 6. B.S., M.S., Ph.D. Wisconsin. Instructor in Soils, UW Soils (P) specifically; Biology (P) & (H) generally
- WADMOND, SAMUEL C. (L-1903), 3859 Columbus ave., Minneapolis, Minn. Knitting company Executive Emeritus. Taxonomic botany (H)
- WAGNER, GEORGE (L-1904), 7215 Shore Road, Brooklyn 9, N.Y. Ph.C. Michigan, B.A. Kansas, M.A. Michigan. Retired Emeritus Prof. of Zoology, UW. Zoology (P)
- WALES, JULIA G. (C-1932), St. Andrews E., County of Argenteuil, Province of Quebec, Canada
- WALKER, EDNA D. (Mrs. John C.), 809 Oneida Place, Madison
- WALKER, JOHN CHARLES (A-1917), Horticulture Bldg., Univ. of Wis., Madison 6. B.S., M.S., Ph.D. Wisconsin. Prof. of Plant Pathology UW. Nature of Parasitism and Disease Resistance in Plants (P)
- WALKER, RUTH I. (A-1927), Univ. Wis. Extension Div., Milwaukee 3 B.A. Michigan, M.S., Ph.D. Wisconsin. Prof. of Botany and Chm. Botany Dept., Univ. Wis. Extension, Milwaukee. Cytology (P) Morphology (P)
- WARNER, ELTON D. (A-1949), 1008 N. 38th st., Milwaukee 8
- WASHBURN ROBERT G. (A-1932), 4300 N. Maryland, Milwaukee. B.S. Wisconsin, M.D. Johns Hopkins. Physician, Dermatology. Conchology (H), Color Photography Wisconsin wild flowers (H)
- WEIGEL, MARK (J-1953), 506 Magee st., Marshfield
- WELLS, SIDNEY D. (A-1942), Box 1, Combined Locks
- WELTY, (Joel) CARL (A-1935), R.R. 1, Beloit. A.B. Earlham, A.M. Haverford, Ph.D. Chicago. Chm. Dept. of Biology and Prof. of Zoology, Beloit College. Ornithology (P & H), Animal Behavior P
- WESTENBERGER, REV. E. J. (A-1934), 131 S. Madison st., Green Bay
- WETMORE, ALEXANDER (H), Smithsonian Inst., Washington, D. C.
- WHITE, HELEN C. (A-1932), 321 Bascom Hall, Univ. of Wis., Madison 6
- WHITEHEAD, MARVIN D. (A-1950), Dept. of Plant Physiology & Plant Path., Texas A & M College, College Station, Tex. B.S., M.S. Okla. A & M, Ph.D. Wisconsin. Asso. Prof. Plant Pathology, Texas A & M Corn & other field crops pathology, seed pathology, mycology (P)



- WHITFORD, PHILIP B. (A-1949), 4657 N. 117th st., Milwaukee 16  
B.Educ., N.Ill. State Teachers Coll., M.S. Illinois, Ph.D. Wisconsin.  
Asst. Prof. Botany, UW Milwaukee Extension. Native vegetation (taxonomy & ecology of) of Wisconsin (P)
- WHITFORD, MRS. PHILIP (A-1954), 4657 N. 117th st., Milwaukee 16  
B.E., N.Ill. State Teachers Coll., M.A. Illinois. Housewife.  
F.B. Sanborn, The transcendentalists
- WHITLEY, ALVIN (A-1953), 322 Bascom Hall, Univ. of Wis., Madison 6
- WIEGAND, PHILLIP H. (A-1954), 1276 N. 63rd Court, Wauwatosa 13  
B.S. Purdue. Chemical Engineer, Pittsburgh Plate Glass Co.  
Chemistry, Chemical Engineering (P), Archeology, mineralogy, geology (H)
- WILDE, S. A. (A-1944), Soils Dept., Univ. of Wis., Madison 6  
F.E., Sc.D. Univ. of Prague. Prof. of Soils, UW. Forest Soils, Plant Nutrition (P)
- WILDS, ALFRED L. (A-1948), 469 Chem. Bldg., Univ. of Wis., Madison 6
- WILLIAMS, HAROLD FISH (A-1946), P.O. Box 1190, Madison 1. Draftsman, State Dept. of Agriculture
- WILSON, HARLEY FROST (C-1916), 4619 Oakwood ave., La Canada, Calif.  
B.S. Colorado State Coll., M.S. Oregon State Coll. Director of Research, Pickett & Eckel, slide rule manufacturers, Alhambra.  
Special slide rule designs (P)
- WILSON, HAROLD C. (A-1954), Ephraim
- WINANS, J. GIBSON (A-1946), Sterling Hall, Univ. of Wis., Madison 6  
B.A. Colorado Coll., M.A. Dartmouth, Ph.D. Wisconsin. Physicist, Assoc. Prof. UW Spectra and structure of heavy diatomic molecules, gaseous electronics, quaternions, all (P)
- WING, MONTA E. (A-1936), 3972 Southclaire Rd., Baltimore 13, Md.  
A.B., A.M. Kansas, Ph.D. Chicago (cum laude) Geology. Minerals Advisor, Point IV Program, Chile, Santiago (on staff, U.S. Geol. Survey). Foundry sands, Petroleum (P)
- WINSLOW, CARLILE P. (A-1942), 300D Wardman Park Hotel, Connecticut & Woodley Rd., Washington 8, D.C.
- WISE, LOUIS ELSBERG (A-1942), 108 N. Green Bay st., Appleton.  
A.B. Columbia Coll., Ph.D. Columbia U. Research Assoc. The Institute of Paper Chemistry. Chemistry (of wood) (P), Poetry (H)
- WISNIEWSKI, THEODORE F. (A-1948), 5702 Hammersley Rd., Madison 5  
B.S. Ch.E. Wisconsin. Director, Div. of Water Pollution Control Chemical Engineering, Industrial Waste Disposal, Stream Pollution Control, all (P)
- WITTRY, WARREN L. (A-1954), 816 State st., Madison 6. M.A. Wisconsin. Anthropology, Curator for State Historical Soc. of Wis. Wisconsin archaeology and ethnology (P)
- WOLFE, HAROLD R. (A-1932), Birge Hall, Univ. of Wis., Madison 6  
B.S. Univ. of Miami (Fla.), M.S. Rutgers, Ph.D. Wisconsin. Prof. of Zoology, UW Zoology, Serology (P)
- WOODMAN, PATRICIA BRAUN (Mrs.) (A-1953), 1422 Mound st., Madison 5  
B.S. Wisconsin. Medical technologist, Quisling Clinic.  
Medical technology, parasitology (P), entomology (H)
- WOODMAN, WILLIAM JOE (A-1952), Entomology Dept., Univ. of Wis., Madison 5  
B.S., M.S., Ph.D. Wisconsin. Research Asst. Insects affecting man and animals, Industrial pests (P)
- WRIGHT, FRANK LLOYD (H), Spring Green
- WRIGHT, STILLMAN (A-1927), Fish & Wildlife Service, Dept. of Interior, Washington, D.C. B.S. Beloit, Ph.D. Wisconsin. Acting Chief, Off. of Foreign Activities, F & W. Serv. Adm. duties in connection with the U. S. foreign aid program fishery projects
- WURSTER, DALE E. (A-1951), 354 Chem. Bldg., Univ. of Wis., Madison 6
- YOUNG, F. CHANDLER (A-1952), 103 South Hall, Univ. of Wis., Madison 6  
Ph.D. Wisconsin. Asst. Dean, College Letters & Science UW Student personnel work, guidance and counseling (P)
- ZELLMER, LUTHER (A-1941), Wis. State College, Platteville. B.Ed. Wis. State Coll. Oshkosh, M.Ph. Wisconsin. College teacher, Wis. State Coll., Platteville. Geography, Conservation, Teaching (P)

- ZIMMERMAN, F. R. (A-1935), 4110 Birch ave., Madison 5. B.S., M.S. Wisconsin. Area Biologist (Game), Wis. Conservation Dept.  
Habitat improvement for wildlife (P), Photography, Philately (H)  
ZIRNER, FRANCIS (A-1942), 410 S. Cornell, Villa Park, Illinois  
ZYCH, WILHELM LEON (J-1953), 3216 S. 38th st., Milwaukee 15.  
Student, Pulaski HS. Astrophysics, chemistry, mathematics (H)

#### APPENDIX

Applications from prospective new members are coming in regularly. Those which have been received (to March 25) too late to be included in the general Directory are listed below.

- BIRD, HERBERT R. (A-1954), 103 Poultry Bldg., Univ. of Wis., Madison  
DUNN, PERCY L. (A-1954), Milton College, Milton. B.S. Cornell  
President, Milton College  
GODFREY, WILLIAM S. (A-1954), Beloit College, Beloit. A.B., A.M.,  
Ph.D. Harvard. Asst. Prof. of Anthropology. Archeology of  
Middle America (P)  
HALLER, MARTHA J. (A-1954), 314 Bascom Hall, Univ. of Wis., Madison  
HESSELTINE, WILLIAM BEST (A-1954), 190 Bascom Hall, Dept. of  
History, UW, Madison 6  
ISENBERG, IRVING H. (A-1954), Institute of Paper Chemistry,  
Appleton  
KNIGHT, DOUGLAS M. (A-1954), Lawrence College, Appleton. Ph.D.  
Yale. President, Lawrence College  
KROEBER, CLIFTON B. (A-1954), 191 Bascom Hall, Univ. of Wis., Madison  
LONSDORF, JOHN A. (A-1954), Birnamwood  
PETERSON, ALVIN M. (A-1954), Box 373, Onalaska  
STAHMANN, MARK A. (A-1954), 153 Biochem Bldg., Univ. of Wis.,  
Madison 6  
SYLVESTER, WALTER R. (A-1948), Wis. State College, Stevens Point  
TODD, ARLIE C. (A-1954), Dept. of Veterinary Science, Univ. of  
Wis., Madison 6  
WALKER, JESSE T. (A-1954), 219 Seventh st., Baraboo

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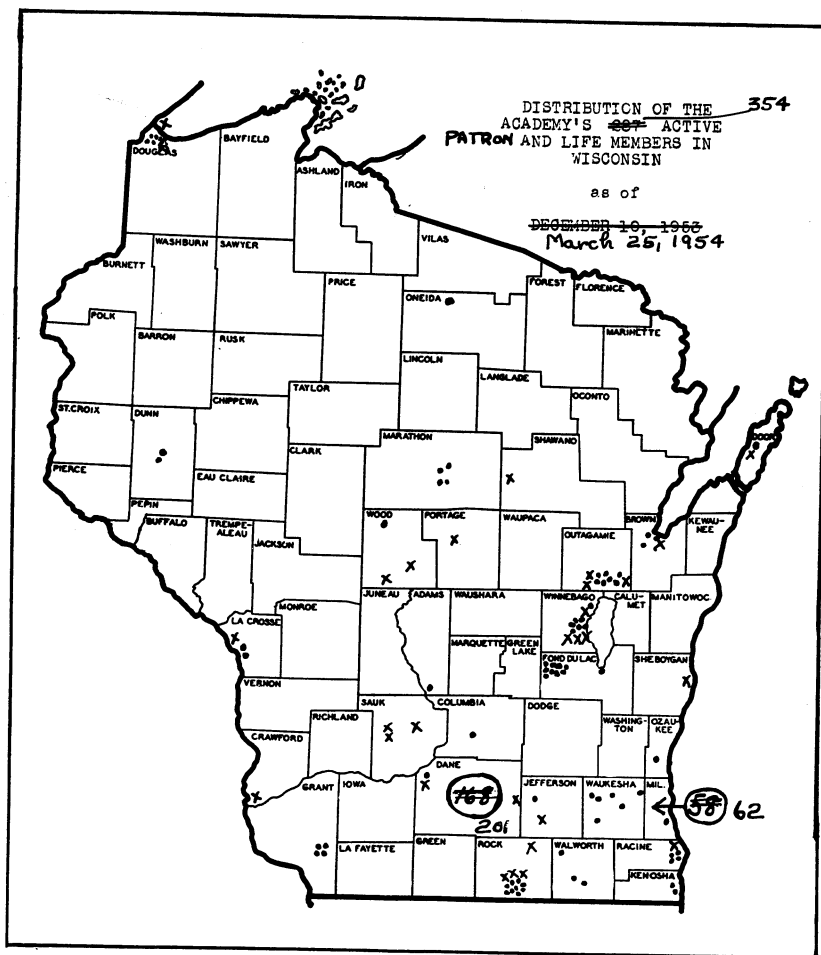
#### IN MEMORIAM

We were recently notified that Dr. DAVID E. WENSTRAND passed away during 1953. Dr. Wenstrand became an Active member on January 1, 1922 and upon his retirement in 1951 was elected a corresponding member. He was a practicing physician and for many years was associated with the Medical Department of the Northwestern Mutual Life Insurance Company of Milwaukee. Following his retirement, Dr. Wenstrand moved to Tryon, North Carolina.

## THE ACADEMY MEMBERSHIP IS GROWING!

So far as Academy memberships in Wisconsin are concerned, there was an increase of over 20% in the last three months. The 67 new members raise the total of Active, Life and Patron members in the state to 354. Most important was the fact that 30 of these were from localities other than Madison and Milwaukee and in five counties not previously represented.

Again the invitation is extended to all teachers, scientists, students and scholars--both professional and non-professional--to affiliate with the Academy. The Wisconsin Academy Review is a "bonus" in addition to the TRANSACTIONS and the \$3.00 annual dues are nominal. Contact Secretary-Treasurer R. J. Dicke, 3 King Hall, University of Wisconsin, Madison 6, for an application form. The map below is corrected as of March 25, 1954.



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## *A Message from the President*

Did you like the first issue of the Review? It was thrilling to see it and to get the many favorable comments that we have received from members and prospective members. You can help to continue this enthusiasm by showing the Review to your friends and inviting them to join our ranks.

We are especially pleased at this time to welcome two patrons: the Buckstaff Company of Oshkosh, makers of furniture, and the Deltex Rug Company, Mr. Stieger, President, also of Oshkosh. Our thanks are due to Ralph N. Buckstaff, naturalist and President of the Buckstaff Company, for securing these patronages. Many of you know men in the industrial fields who would be glad to be patrons if they understood our worthwhile purpose and program; therefore, lose no opportunity to tell them about the Academy.

We are looking forward to the annual meetings which will be held at Lawrence College and the Institute of Paper Chemistry in Appleton. A fine program is now being formulated and the local committee is making every effort that our two day stay there will be profitable and enjoyable. Let's make this a memorable occasion. The Academy is at the turning point and your attendance will help to stimulate interest in the sciences, arts and letters.

After this issue of the Review there will be another president to represent you. I hope you will give him your sincere support and if you have any doubts about the uniqueness of the Academy contributions read again the address by E. B. Fred, President of the University, printed in the first issue; then turn to page 39 and read Walter Scott's article on Anachronism. Both are highlights of our first number.

Greetings to you all.

C. L. Fluke  
President