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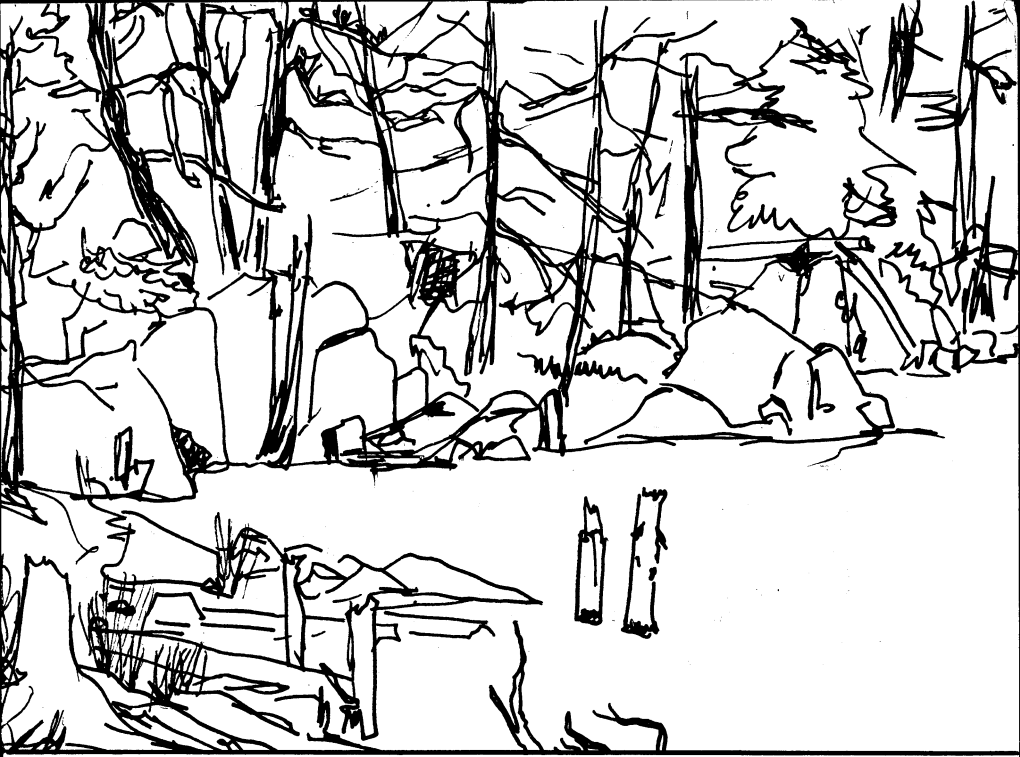
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THE WISCONSIN ACADEMY OF SCIENCES, ARTS AND LETTERS
PUBLISHED QUARTERLY

FALL 1960

WISCONSIN ACADEMY REVIEW

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ATTEND THE 91st ANNUAL MEETING

Symposium on "Conservation Projects and
Problems in Southeastern Wisconsin"

CARROLL COLLEGE — WAUKESHA

Wisconsin Academy Review

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HISTORIC WATERWAYS REVISITED — THE UPPER FOX RIVER

By Daniel Q. Thompson
Ripon College, Ripon

At 2:25 p.m., June 6, 1887, Reuben Gold Thwaites, the dynamic young secretary of the Wisconsin Historical Society, pushed off from the locks at Portage and started down the two and one-quarter mile navigation canal towards the Upper Fox River. On June 6, 1960, 73 years later, I put my craft into the same waterway in an attempt to repeat Thwaites' journey. A light craft which can be easily portaged around the locks is well suited to the Upper Fox water trail. Thwaites used a 13½-foot clinker-built skiff which was paddled in the manner of a canoe. My own craft was a cedar-strip, Adirondack guide-boat which was rigged for oars. The 84 stream miles from Portage to Berlin was but one portion of a series of canoe trips made by Thwaites in the summer of 1887. A piquant narration of these adventures appeared in book form in 1888 as "Historic Waterways - Six Hundred Miles of Canoeing Down The Rock, Fox and Wisconsin Rivers."

My purpose in repeating Thwaites' voyage was a mixture of two parts of recreation and one part vocation. The need for added information on the historical ecology of the waterway was sufficient to give me a bracing sense of purpose as I bade goodbye to wife and family and pushed off from the vicinity of the Fort Winnebago landing at the outskirts of Portage. Thwaites was accompanied by a companion, Doctor _____, on his voyage from Portage to Green Bay. I was joined by Tom Guyant of the Milwaukee Journal staff for the first afternoon of my journey and thereafter traveled alone. An itinerary of the trip would be Buffalo Lake by the first

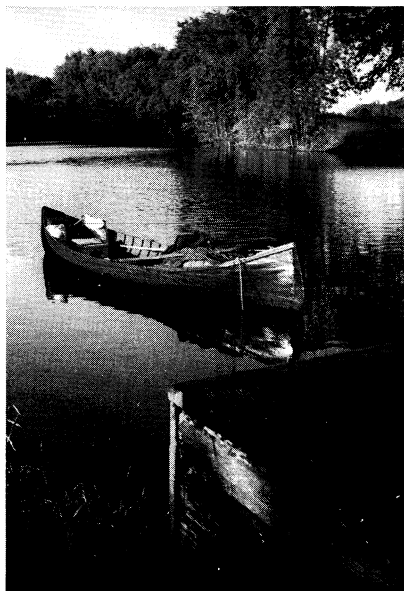


Fig. 1 - A light craft which can be easily portaged around the locks is well suited to the Upper Fox water trail.

nightfall, Lake Puckaway on the second night, and Berlin by twilight of the third day.

The railroads had already made an anachronism of the Fox and Wisconsin river improvement at the time of Thwaites' journey. He describes the locks at Portage as "The timbered sides are rotting, the peat and sand are bulging them in, the locks are shaky and worm-eaten, and several moss-covered barges and a stranded old ruin of a steamboat turned out to grass tell a sad story of official abandonment." There has been little to change the pattern of dwindling activity on the waterway. It is ironical to note that a second revolution in transport has occurred since Thwaites' trip. The Wisconsin Central tracks which bordered the river and captured freight traffic from Montello to Portage have since been abandoned under the pressure of competition from truck transport.

Thwaites' account of his trip is rich with thoughts of those who had passed before him. It is natural that he viewed the Fox as a stream of historical persons and events rather than as a biological phenomenon. His description of the fauna and flora are, therefore, incidental to the historical perspective. Nevertheless, some interesting changes have occurred between 1887 and 1960.

Wild Rice - The disappearance of wild rice is perhaps the most spectacular change in the past 70-odd years.

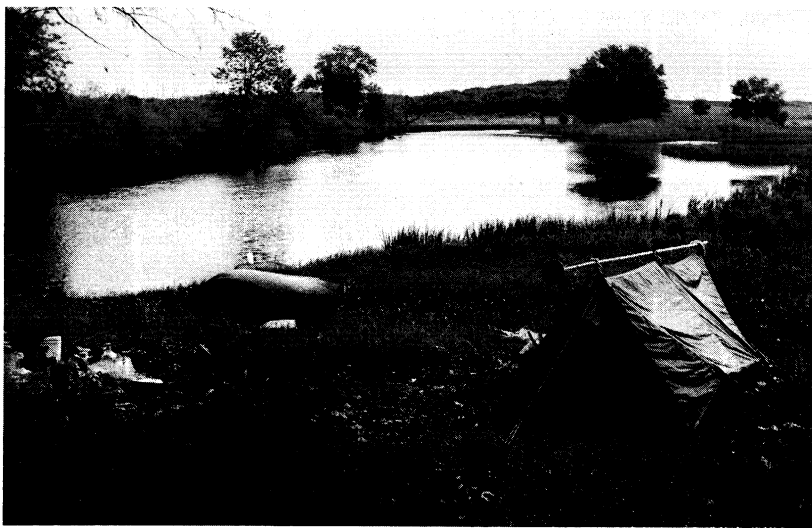


Fig. 3 - An excellent campsite on the slopes of a sandy upland above Buffalo Lake.

Most of the early travelers on the Fox comment on the great abundance of wild rice. Upstream from Buffalo Lake, rice stands were so thick as to make rowing difficult for the voyagers who carried Mrs. Kinzie to Fort Winnebago in 1830. Thwaites describes the same area in 1887 as "... a stretch of wild-rice swamp, through which the government dredges have scooped a narrow channel . . ." At the entrance to Buffalo Lake he again refers to "These great wild-rice widespreads - sloughs, the natives call them..." and also mentions that, "In the pockets and the sloughs, we found thousands of yellow and white water lilies. . ." Beyond the White River locks, Thwaites again mentions rice in his description of efforts to catch sight of the superstructure of a steamboat which had passed them. ". . we frequently caught sight of her towering white hull across the widespreads, by dint of standing on the thwarts and peering over the tall walls of wild rice which shuts us in as closely as though we had been canoeing in a railroad cut."

In 1960, the only rice observed was a thin stand upstream from the bridge which carries state highway 33 over the Fox River at the east edge of the city limits of Portage. Not another stalk of rice was seen on the rest of the trip. Lake Puckaway, which in recent years has supported scattered stands of wild rice, was passed after nightfall and must be excluded from this observation.

Water Quality - Evidence from several sources indicates that drastic changes have occurred in the quality and character of water in the Upper Fox since Thwaites' journey in 1887. The relatively clear stream of Thwaites' time has changed to the opaque, coffe-colored waterway of today. The disappearance of wild rice is very likely related to this change. Thwaites' only comment on water character comes as he launches his canoe "upon the tan-colored water of the government canal at Portage." The tan color was doubtless due to humic acid stains which are characteristic of the Wisconsin River today. The swamps, bogs, and marshes of the northern watershed which stabilize the flow of the Wisconsin River also contribute the organic stains.

Carp - Carp, which were introduced into Wisconsin sometime around 1880, were apparently not numerous enough to draw comment from Thwaites at the end of the decade. In June of 1960, the slap and splash of carp was one of the characteristic sounds along the waterway. The role of the present carp population in the ecology of the Upper Fox has not been satisfactorily measured. However, the work of fisheries biologists elsewhere in the state clearly implicates the carp in the disappearance of aquatic vegetation and the change of water quality which is so characteristic of our warm water streams in southern Wisconsin.

Bull Frogs - Another spectacular change in the last 70 years is the disappearance of the bull frog from the Fox River. Thwaites speaks of the first night out, at the head of Buffalo Lake: "And such Bullfrogs! ...Certain it is that the valley of the upper Fox, by day or night, is resonant with the bellow of the amphibious bull." In June, 1960, I did not hear a single bullfrog. The disappearance of this huge frog, and the possible interrelationships of wild rice, bullfrog and carp are one of the fascinating mysteries of aquatic ecology in Wisconsin.

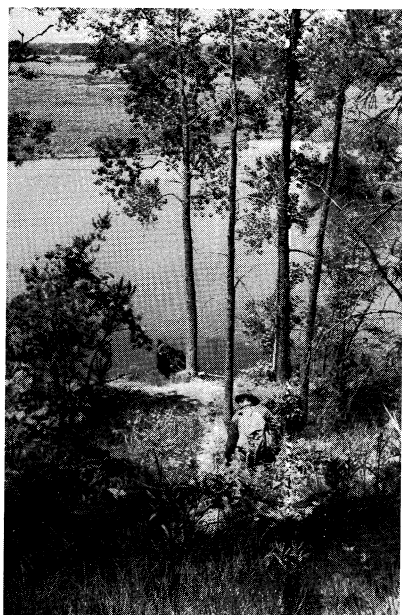
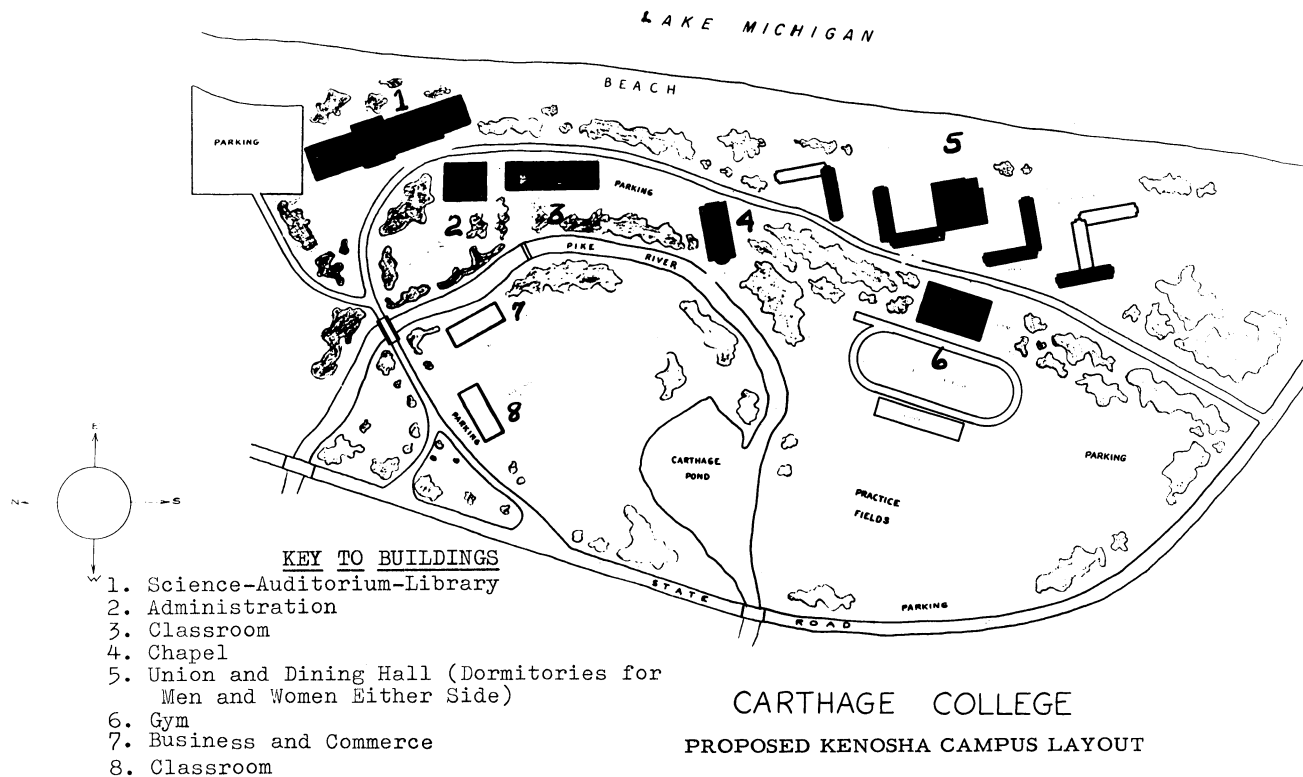


Fig. 4 - Breaking camp from a wooded moraine downstream from Lake Puckaway.

The Fox River Canoe Trail - Despite the abundant evidence of deterioration in the biological health of the Upper Fox Waterway there is a brighter side. Over the past 70 years there has been relatively less change on the watershed of this river than on most southern Wisconsin streams. Farm abandonment has characterized the sandy stretches of upland along the river from Portage to Berlin. The vast expanses of flood plain marsh which are interspersed between the sandy uplands have been very little altered since the days of the Jesuits and voyageurs. The Grand River Marsh west of Lake Puckaway, the White River Marsh and Puckyan Marsh are particularly impressive stretches. It is an ecological irony that the disappearance of the wild rice from the river probably gives the traveler a much superior view of the marsh tracts today. The thwarts of the canoe are approximately level with the land surface. The canoeist is often able to look for a mile in each direction without catching sight of a sign of man. Only the complaint of a disturbed bittern, the snort of a whitetail or the bugle of a sandhill crane is likely to break the cool silence of the marsh.

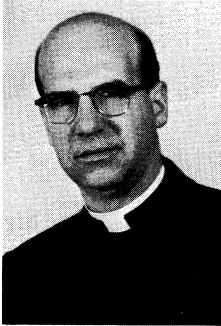
Parts of this waterway remain as a rewarding wilderness experience for the canoeist who wishes to follow the path of history in Wisconsin.

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CARTHAGE AT KENOSHA — WISCONSIN'S NEWEST COLLEGE

By Harold H. Lentz
President, Carthage College



What is the answer to the reputedly "closing door to college education?" By keeping their eyes on Kenosha, Wisconsin residents can watch a part of the solution to this national problem as it takes shape along the shores of Lake Michigan.

On September 24, ground breaking ceremonies were held in Kenosha for the second campus of Carthage college, now located in Carthage, Illinois. Contracts for building this new college campus will be let after January 1, 1961, and construction will begin shortly thereafter. The building site is a 68-acre park on the shores of Lake Michigan in Kenosha.

In the fall of 1962, these buildings, representing the first phase of a long-range development program, will be ready for occupancy. That fall, the new campus will open with a freshman class of at least 300 students and Wisconsin will be on its way to having an additional four-year college with a complete liberal arts academic program.

Plans for the establishment of a second campus have been in the making for many years. Last year, the four synods of the United Lutheran Church in America (Iowa, Illinois, Northwest and Wartburg) which own Carthage college, and the city of Kenosha, pledged \$3,000,000 toward the initial construction phase. Additional funds are expected from loans, foundations and special gifts. Construction of the first buildings and development of the campus are expected to cost over \$4,250,000.

Buildings to be constructed in time for the 1962 opening include a \$2,900,000 specially designed multiple-unit building which will house facilities for science, a library, administrative and faculty offices, classrooms and a large auditorium. Also included in this first-stage construction are a student union and dining hall and dormitories for men and women. Additional buildings will be erected during the next 10 years. By 1970, the campus will represent an investment of \$10,000,000 and will have an enrollment of at least 1,000 students.

The new campus will operate on the same liberal arts program now in effect on the Carthage, Illinois campus. Students attending Carthage college can now receive full preparation for work in business administration, teaching, science, home economics, Christian service, music and coaching. Pre-professional training is available for dentistry, engineering, journalism, law, library science, medicine, nursing, social service, theology and governmental service.

Carthage was founded as a four year co-educational liberal arts college in 1847, and has been at its present location in Carthage since 1870. Five degrees are offered by Carthage college: Bachelor of Arts, Bachelor of Science, Bachelor of Music, Bachelor of Science in Home Economics and Bachelor of Science in Physical Education. The college has been continuously accredited by the North Central Association of Colleges and Secondary schools since 1916 and has received the highest rating, Class A, from the University of Illinois. The new campus at Kenosha will maintain the same high standards which govern the present college.

#



Working together for Carthage. Shown turning the first spadefuls of dirt are Pres. Harold H. Lentz of Carthage, Gov. Gaylord Nelson, and Rev. George Lundquist, president of the Northwest Synod of the United Lutheran Church.

SUMMER FROSTS: A FACTOR IN PLANT RANGE AND TIMBER SUCCESSION

By Robert A. Bailey*
Sarona

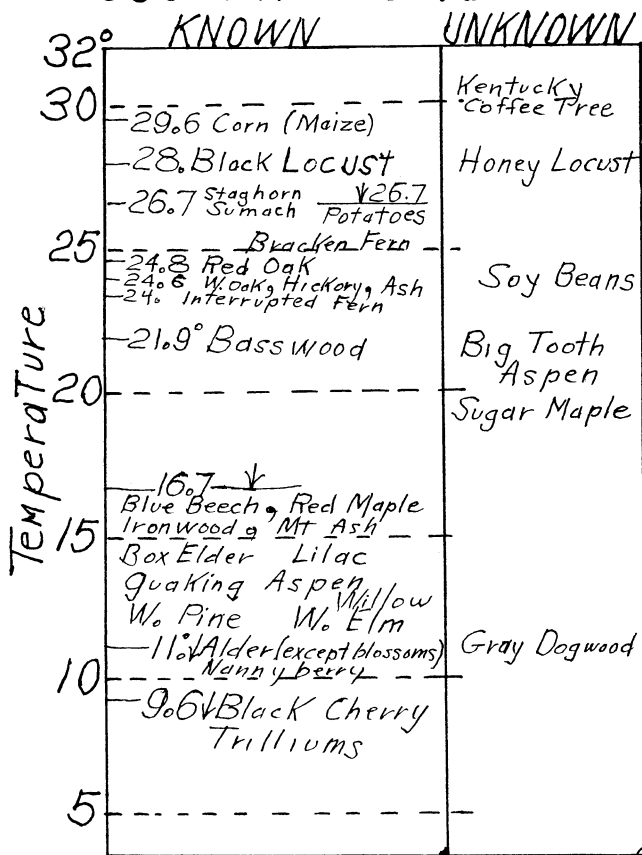
One of the unanswered questions in forestry and agriculture is the part that frost in the growing season plays in determining the range and the well-being of plants in the temperate climes. There is even some question as to what is meant by the term frost. My concern is with the lethal low temperatures for the new (succulent) growth of our common plants. And while it is an ecological question of paramount importance, information on summer frosts is either lacking or hard to come by.

Extensive inquiry brought a wealth of opinions, and little information. For example, one often quoted forest text states that all succulent growth freezes at exactly 32°F. However, most rural residents have observed that while the oaks, the walnuts, and the true ashes freeze at but little below 32°F., their companion species such as aspen, birch, willow and elm are far more tolerant to low growing season temperatures. An inquiry answered by the Chief of Forest Influences of the U. S. Forest Service stated that little or no information was available on the subject, and that further, it would be a good subject for three or four doctor's theses.

A high level freeze in northwestern Wisconsin on the morning of May 11, 1946 gave a partial answer as to the critical temperature for the red oaks. A high level freeze is one in which there is sufficient wind velocity and turbulence to prevent temperature inversions. As a result there is only the normal temperature gradient of one degree drop for each 180 feet increase in elevation. The temperature at Sarona on the morning of May 11, 1946 was 24°F., while at nearby Spooner the temperature was 25°F., at 200 feet lower elevation. The oaks froze at Sarona, but not at Spooner. The zone of transition from completely frozen to undamaged was about 40 feet in depth. Ten days later the oak hills between Sarona and Menomonie were brown and barren at the tops, while below 1,150 feet they were green and fully leafed. This high level freeze showed two important facts: first, the critical temperature for the oak foliage is near 25°F.; second, that the critical range of temperature is but .2°F. High level freezes are of infrequent occurrence, possibly once in 10 years.

* - Abridged from paper presented at Wisconsin Academy meeting at Madison, May 7, 1960.

FROST TOLERANCE OF SUCCULENT GROWTH



On the other hand, ground inversion freezes, so-called because of the temperature inversion next to the ground, are very common. They are most intense in areas with poor, or no air drainage. Such undrained depressions are typical of pitted glacial outwash. These undrained depressions are known as "Frost Pockets," or colloquially as "Frost Holes." Frost is common in such locales on clear calm nights with low humidities. In Northern Wisconsin, and in Michigan they are aggravated by the influx of dry polar air off Lake Superior and Hudson Bay.

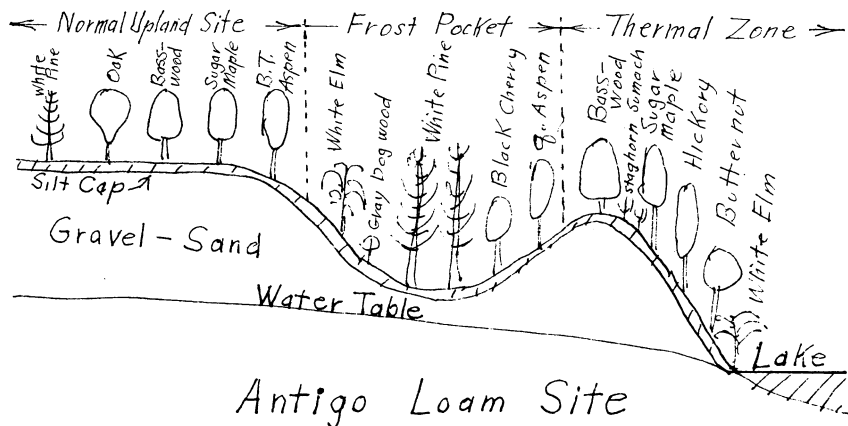
In 1955 the Taylor Instrument Company supplied me with four precision minimum thermometers, to study the temperature pattern of the area, and the critical low

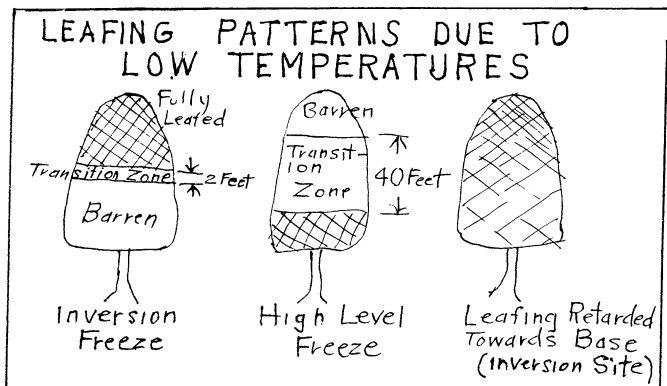
temperature for various plants. For the past six years I have stationed these thermometers at various levels in, and around the frost pockets to determine the pattern of the ground inversions, and the tolerance of the plants. Toward the end of the growing season the thermometers are placed in stands of domestic plants such as corn and potatoes. The range of observed critical temperatures is very wide, ranging down from 29.6°F. for field corn and 28°F. for black locust to below 9.6°F. for black cherry.

Once the critical temperatures for a number of native trees were obtained it became evident that summer frosts were a major factor in determining the local range of our common timber species. For example, on the fertile Antigo Loam that covers much of the area around Sarona, there has been much conjecture as to why white pine (as much as two million feet to the forty) occupied the lower ground, while the higher ground was mainly broad leafed hardwoods, i.e. oak, maple and basswood. It now appears that the white pine was a climax species on the low ground, coming in as an understory beneath the thin foliated, frost-tolerant hardwoods such as black cherry, paper birch, quaking aspen, and elm. On the uplands white pine was only an occasional pre-climax species following some natural catastrophe such as fire or wind-throw.

Another aspect of the frost problem is the failure of the common nut trees to produce fruit if new growth is killed by frost. For example, walnuts, hickory, and the white oaks produce no fruit in the year of a freeze, while

FOREST COMPOSITION AS DETERMINED BY SUMMER FROSTS





the red oaks--because the acorns take two years to mature --produce no fruit in the year following a freeze. However, in the case of sumac, because there are no terminal buds, even though the first growth is killed by frost, the growth from the dormant lateral buds will bear fruit.

Leafing pattern of frost susceptible trees is shaped in three ways by low temperatures: first, freezing of only the tops in high level freezes; second, freezing of lower leaves in inversion freezes; and third, the progressively downward delay of leafing of trees subject to ground inversions. Frost tolerant trees like tamarack and black cherry are apparently unaffected.

In conclusion, it has become evident that even the most tender of the temperate climate plants suffer no damage to succulent growth until the temperature falls several degrees below freezing. More hardy plants, such as black cherry, withstand temperatures far below the expected levels. Evidently there is much need and room for research on the subject -- the surface is but scratched.

#

The Academy's 92nd Annual Meeting will be held at Wisconsin State College - La Crosse, May 4-6, 1962. The symposium topic will feature aspects of the Mississippi River Basin in Wisconsin.



Professor HOWARD YOUNG (Biology Dept., WSC-La Crosse) is chairman of local arrangements.



NEW LIFE MEMBER —

F. K. WEYERHAEUSER

F. K. WEYERHAEUSER of St. Paul is the Wisconsin Academy's newest Life member, continuing his family's interest in the state and its affairs. His grandfather was very active in the lumber industry in Central and Northern Wisconsin from about 1870 until the early 1900's. Born in Rock Island,

Illinois on January 6, 1895, Mr. Weyerhaeuser came to Wisconsin in 1899 when his father moved his family to Lake Nebagamon and operated a sawmill enterprise. After several boyhood years in the state, the family moved to St. Paul and later to Tacoma. Graduating from the Hill school at Pottstown, he went on to Yale University, where he obtained his B.A. degree in 1917. Shortly afterward he enlisted in the Signal Corps of the U. S. Army, later becoming a bomber pilot.

After the war he served briefly in various retail yards in the West and in Minnesota. Early in 1925 he became manager of the Central Division of the Weyerhaeuser Sales Company with headquarters in Minneapolis. Elected President of the Sales Company in 1929, he continued in that responsibility until its dissolution in 1959. Mr. Weyerhaeuser became a Director of the Weyerhaeuser Timber Company in 1946 and served in various offices, being Chairman of the Board from 1955 to 1957 and again elected to that position in 1960.

Away from the office he enjoys hunting, fishing, photography and golf. A member of the Board of Trustees of Macalester College, he is also a Director of the First National Bank of St. Paul, First Trust Company of St. Paul, Great Northern Railway Company and Minnesota Mutual Life Insurance Company.

#



THE BOOKSHELF

FLORA OF LINCOLN COUNTY

By Frank C. Seymour

Available from Author
86 Center st., Dighton, Mass.
1960 Cloth \$5; Ring \$4;
363 p. Paper \$3.50

This is more than a list of plants found in one county of Wisconsin. Rather, it is a complete guide to the plants of the attractive and interesting central section of the state and includes those found in Oneida, Langlade, Marathon, Taylor and Price Counties also.

It is not hard for the layman, or even a person rather well versed in botany, to find plants that cannot be identified readily. About all he needs to do is to step outside and visit the nearest marsh, woods, thicket or waste place and look around. Once a new plant is found the matter becomes complicated if its common and scientific names are wanted, unless many costly books are at hand to help with identification. Even where several books are available, many of these may treat only a limited list of plants and quite likely do not even mention the plant found, or list one somewhat like it, leading to mistakes. Should he be obliged to refer to a large and complicated guide he is confronted with such a vast number of species, so many technical terms, and so many plants not found in his area that only through long and tedious work is he able to learn anything about his new plant. To provide a more practical guide to the plants of Central Wisconsin is the aim of this book.

Before the Wild Flower Club of Lincoln County was organized in 1950, 504 species, varieties, hybrids and forms of plants had been listed for Lincoln County, mainly through the early work of L. C. Cheney, Charles Goesel and the late Norman C. Fassett. Collection made since 1950 have increased the number to 1,000 species, 135 varieties, 9 hybrids and 63 forms, or 1,207 all told. If the additional plants collected in the adjoining counties

are included, the grand total reaches 1,374. Much of the collecting and other work connected with compiling this list was due to the author, who built up a private herbarium (now purchased by the University of Wisconsin) numbering about 20,000 specimens, and made additional collections for the Milwaukee Public Museum, the Gray Herbarium of Harvard University, Clark University and Southern Methodist University. Lesser numbers of processed plants were deposited at the University of Illinois, Iowa State College and Bucknell University.

Anyone who has collected plants for scientific use knows the vast amount of work involved in collecting, preparing, drying, pressing, identifying and labeling specimens and will have little trouble imagining the terrific job accomplished by the author in building up his private herbarium, making the additional collections and writing this excellent volume. Others will have to take our word for it being a tremendous job.

The book was published largely through the generosity of John W. Peroutky of Merrill, who also made many of the photographs and aided in other ways. At least 15 plant specialists either read the manuscript or checked certain of the larger and more complicated families and genera. The *Carex* sedges are singled out for special attention with 74 species listed in the index. It is an attractive book, well printed, nicely bound, good paper. There are excellent keys and one index to the scientific names and another to the English names.--Alvin M. Peterson, Onalaska

- - -



FRANK C. SEYMOUR began his botanical training early under tutelage of his father, A. B. Seymour, author of the Host Index of N. A. Fungi. Born in Belmont, Mass., his interest resulted in summer vacation work on the Gray Herbarium staff from high school days until World War I. He had majored in botany at Harvard and was assistant to Prof. M.L.Fernald during his graduate year. Inheriting his father's herbarium, he combined it with his own collections and sold it to Duke University. Later collections, including 6,000 from Lincoln

county, are now at the University of Wisconsin. Entering the Christian ministry after World War I, he eventually spent several years in Wisconsin, where preparation of this book was begun.

#

A NOTE ON THE COVER

An inveterate fisherman and traveler is the artist whose pen and ink drawing appears on the cover of this issue of the Review. JAMES SCHWALBACH is professor of Art and Art Education and is senior staff member for the art programs in Agricultural Extension, General Extension and Radio TV at the University of Wisconsin. In those several capacities he is well acquainted with the urban and rural areas of every part of the state, including the better camping and fishing locations.

He is a product of the Milwaukee Public Schools and of the University art department, where as a student, he began his association with the nationally recognized radio program, "Let's Draw." He is now in his 25th anniversary year of that "classroom of the air." The rural arts program with which John Steuart Curry was so closely identified has, since his death, been under the leadership of Schwalbach. The State Fair exhibits in the Fine Arts and in the Crafts have also been initiated and brought to their present high level of quality under his direction.

Schwalbach's work as an artist is vigorous and reflective of his breadth of interests. With the appointment of James Schinneller to the extension arts program in the Milwaukee and lakeshore area, and the addition of David Gray to the Madison staff, Schwalbach has been able to refresh his own work in the arts to a greater extent than had been possible in many years.

---Frederick M. Logan

* * * *



—By a Journal Artist

THE 91st ANNUAL MEETING

CARROLL COLLEGE — WAUKESHA

Symposium on "Conservation Projects and Problems in Southeastern Wisconsin"

Carroll College Professors ROY J. CHRISTOPH and BENJAMIN F. RICHASON, co-chairmen of the Local Arrangements Committee for the Academy's 91st Annual Meeting (with Junior Academy) May 5-7, 1961, and President-elect CARL WELTY (Program Comm. Chm.) have reported the following program highlights:

Friday Evening, May 5 - Reception (and registration) starting at 8 p.m.; Musicales at 9 p.m.

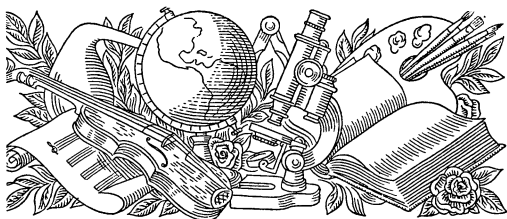
Saturday, May 6 - Morning Symposium: Moderator, IRA L. BALDWIN; Our Heritage, WALTER E. SCOTT, Man and Land, MARVIN F. SCHWEERS; Man and Water, CHARLES W. THREINEN, Man and Wildlife, ROBERT A. McCABE, Our Estate, J. MARTIN KLOTSCH. Afternoon - Four Simultaneous Papers Sessions: A - Conservation in Southeastern Wisconsin (cont.); B - Biological Sciences; C - Physical Sciences; D - Humanities (Arts and Letters). Evening Banquet Address by President MERRITT Y. HUGHES; Award of Honors, including conservation citation to The Milwaukee Journal.

Sunday, May 7 - Field trip by bus (67 miles) 9 a.m. to 4 p.m. Organized stops with conservation leader guides at Pebble Creek Watershed (land use), Bark River (fish shocking), Lapham Peak, School Section Lake (aquatic problems), Scuppernon Ranger Station (forestry practices), Mukwanago County Park (planning) and Vernon Marsh (game management). Box lunch will be at Puckner's Pond in Kettle Moraine State Forest.

Alternate Opportunity, Sunday afternoon, 2 to 4:30 p.m.:

Waukesha Symphony Orchestra, Full Dress Rehearsal,
MILTON WEBER, Conductor.

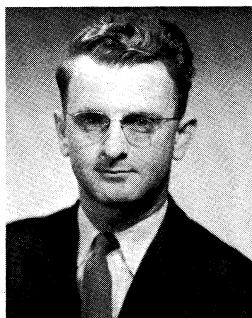
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STATE AND ACADEMY NEWS

WISCONSIN ACADEMY COUNCIL MEETING

By Ted J. McLaughlin
Secretary



PRESENT: Joseph G. Baier, R. J. Christoph, Stephen F. Darling, Robert J. Dicke, Merritt Y. Hughes (President, presiding), Ted J. McLaughlin (Secretary), Henry A. Meyer, Katherine G. Nelson, Robert C. Pooley, B. F. Richason, Jr., William B. Sarles, Walter E. Scott, John W. Thomson, and Carl Welty.

Following are the summary highlights of this first meeting of the new 1960-61 Academy Council:

(1) In addition to committee memberships listed at the end of this report, President Hughes announced appointment of Prof. CYRIL C. O'BRIEN as chairman of the Publicity committee and Prof. B.F. RICHASON, Jr. as a member of the Program and Local

Arrangements committee for the 1961 annual meeting.

(2) In the absence of the Treasurer, the Secretary presented the Treasurer's report. The current critical financial condition of the Academy treasury was emphasized. Copies of a financial report as of September 8, 1960 were distributed. Subsequent unexpected expenditures and outstanding obligations underscore the necessity for drastic action to overcome the current deficit. For example, the mailing of the Summer, 1960 Academy Review was made possible only because of a gift of \$50 from two members. In addition to an immediate solution to provide operating funds, there must be long range remedies. Strict budgeting procedures must be established and persons incurring Academy financial obligations should advise the Treasurer of anticipated expenses in advance. The Treasurer reports that the Department of Administration will recommend inclusion of a request for \$6000 in the 1961-63 biennial budget request to the legislature for printing of the TRANSACTIONS. It was also reported that letters and notices to approximately 250 members delinquent in dues have been mailed.

(a) It was agreed that a budget committee be appointed as recommended by the Treasurer.

(b) Emergency action to provide current operating funds was discussed. It was the consensus of the Council that money should not be borrowed from the endowment funds. Upon motion of Prof. DICKE, it was voted that the Treasurer be empowered to bring the present drastic financial condition to the attention of the members of the Academy with a request for voluntary contributions to relieve the present situation and insure the continued regular publication of the Review and TRANSACTIONS. Members of the Council present at this meeting pledged and/or paid

a total of \$170 to initiate the special campaign. (Editor's Note: Members later responded generously to this request to successfully bridge the gap. A full report will be in the next issue).

(3) Sixty new members were approved.

(4) The Academy Review Editor reported on notice of increased printing costs and articles to be published in the Fall issue. It was voted that condensed list of members and the constitution and by-laws (as corrected at this meeting) also be published in the Fall issue.

(5) President Hughes reported for the TRANSACTIONS Editor that copy for the next issue had been sent to the printer for publication early next year.

(6) The Junior Academy of Science Chairman reported and explained his expected leave of absence during the second semester of the current academic year during which time a substitute will act in his place.

(a) Copies of the report of the ad hoc Science Talent Search Committee were distributed. Upon recommendation of the committee, it was voted to abolish the Wisconsin Science Talent Search and apply its resources to the Junior Academy.

(b) The question of inclusion in the Senior program of selected papers of the Junior Academy at the 1961 annual meeting was raised. It was voted to plan the 1961 program as usual with the Long Range Program Planning Committee responsible for reporting a proposal on the question to the Council later.

(7) General arrangements and program plans for the 1961 annual meeting at Carroll College were presented by the Program Chairman. Copies of a tentative schedule and map for the field trip were distributed and explained. A meeting of the Council will be held on Friday evening of the annual meeting. It was voted to honor the Milwaukee Journal at the annual meeting for its contributions to conservation. An appropriate citation will be prepared.

(8) The Finance committee reported it was preparing a brochure for solicitation of special contributions.

(9) The Chairman of the Long Range Program Planning committee stated that the next item of business will be consideration of Junior and Senior Academy programs. It was voted that the committee be made a standing committee.

(10) The President reported that the proposed Junior Academy of Arts and Letters could not at this time enter a field which is already adequately served by other state organizations. However, the matter will receive continuing study.

(11) It was reported that the Membership committee is working on a revision of the membership prospectus and application form. A list of members of the AAAS has been sent to the Treasurer for his use.

(12) It was agreed that plans for use of a second class mailing permit for the Academy Review should begin with the Winter 1961 issue.

(13) The President reported that he was advised an item of \$3000 for each year of the 1961-63 biennium for support of publication of the TRANSACTIONS has been included in the University of Wisconsin budget request. In addition, support for the next issue of the TRANSACTIONS may be forthcoming. It was voted that the Secretary, in consultation with the Treasurer, inform the

Department of Administration of the foregoing action (with copies to the President of the University of Wisconsin and his budget consultant) in connection with the Treasurer's previous request for a separate budget provision by the legislature. (It should also be noted that additional funds will be needed to pay the complete cost of publication of the TRANSACTIONS.)

(14) It was voted that the President appoint a Constitution revision committee of five members to report in time for publication of proposed amendments in the Spring, 1961 Review.

(15) Appreciation was expressed by motions adopted to thank Professors RALPH McCANSE and FREDERICK LOGAN of the University of Wisconsin (Madison) for their several years of faithful work as Associate Editors of the Academy Review; to HAROLD F. WILLIAMS for his preparation of materials such as TRANSACTIONS index and exhibits; and to Director of Libraries LOUIS KAPLAN for the U.W. Memorial Library's summer exhibit featuring the Wisconsin Academy's history and 90th Anniversary.

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Directory of Academy Committees

(Chairman Named First)

Elected: See Inside Back Cover for Membership and Publications Committees

Appointed: LONG RANGE PLANNING: Katherine G. Nelson, Joseph G. Baier, Robert J. Dicke, Francis D. Hole, Robert H. Irrmann, Raymond H. Reis, S.J., H. A. Schuette, John W. Thomson.

FINANCE: Joseph G. Baier, David J. Behling, Ralph N. Buckstaff, Robert J. Dicke, Merritt Y. Hughes, O. L. Kowalke, William McCoy, L. E. Noland, Carl E. Steiger.

PROGRAM 1961 ANNUAL MEETING: Carl Welty, Robert H. Irrmann, Katherine G. Nelson, Cyril C. O'Brien, R. C. Pooley, William B. Sarles, Walter E. Scott, Roy Christoph, Merritt Y. Hughes (ex-officio).

SCIENCE TALENT SEARCH COMMITTEE (Work completed): Daniel Q. Thompson, Joseph G. Baier, Robert J. Dicke, John W. Thomson.

PUBLICITY: Cyril C. O'Brien, David J. Behling, Roy Christoph, Dion Henderson, Christopher Spalatin.

LOCAL ARRANGEMENTS 1961 ANNUAL MEETING: Roy J. Christoph, Benjamin F. Richason, Jr., Viola Wendt, Milton Weber, Ted C. Michaud, Sidney Jacobson, Richard Burdick.

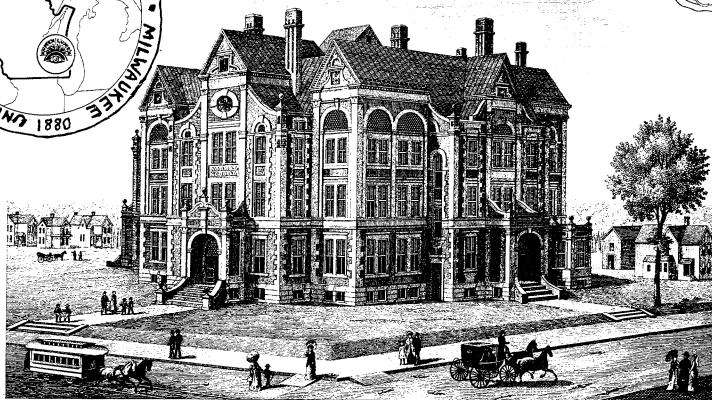
CONSTITUTION REVISION: Ted J. McLaughlin, Joseph G. Baier, Robert J. Dicke, L. E. Noland, Wm. E. Sieker, W. E. Scott.

JUNIOR ACADEMY: John W. Thomson, Mary A. Doherty, William Siser, Eleanor Cox, Cle Oines, Charles W. Scribner, Amos H. Yonke, Alfred Hornigold, Sister M. Lauretta, Sidney Jacobson, Jerome Fischer.

TEMPORARY FINANCE: The Treasurer, The President, the President-elect, Joseph G. Baier,

INSECT ENEMIES OF PINE FORESTS - FILM STRIP

A color film strip portraying insects of importance in Wisconsin pine forests and their control is now available. This 62 frame strip and narrative was prepared by the UW Dept. of Entomology in cooperation with the Conservation Department and the Wisconsin Association of Vocational Agriculture Instructors. It can be purchased for \$4.00 each from the Dept. of Agricultural Extension Education, Univ. of Wisconsin, Madison 6. -- DANIEL BENJAMIN



STATE NORMAL SCHOOL AT MILWAUKEE.

Seventy-five years ago (1880) the Legislature authorized establishment of the Wisconsin State Normal School located in Milwaukee. The building shown above was placed on land purchased by the city of Milwaukee at a cost of \$53,000, which was accepted by the Board of Regents on June 4, 1885. Attendance during the 1886-87 school year was 46 in the Normal and 112 in the "model" school. On July 1, 1955 this college, combined with the U. W. Extension Division in Milwaukee, became the University of Wisconsin-Milwaukee. Today, with over 9,000 students, it is the state's second largest institution of higher education. In future issues of the Academy Review, Director George Richard, UW-M News Service, will report on newsworthy events and activities of Wisconsin Academy members. -- W.E.S.

Review Reporter PETER J. SALAMUN, Chairman of the UW-M Botany Dept., advises that Professor ALVIN THRONE has been honored by the Board of Trustees of the Milwaukee Public Museum with the title of "Research Associate in Ecology." . . . A new staff member in the UW-M Botany Dept. is Professor RAYMOND HATCHER, whose fields of specialization are bryology and algology. . . . Prof. DELBERT MEYER is a new member of the Zoology Dept. staff and full or part-time instructors include RICHARD MEIEROTTO, Mrs. DOROTHY MOOREN, JAMES RAUSCHER and Mrs. ETHEL SLOAN.

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MARQUETTE UNIVERSITY - Miss Ann Grattan, Reporter
(Marquette News Bureau)



Academy member MICHAEL F. MOLONEY, Professor of English, died March 7. A more complete notice will be carried in the next issue. . . . A National Science Foundation grant of \$60,900 was given to Professor JOHN W. SAUNDERS, Jr., chairman of the biology department, for a five year study in embryonic development. . . . Fr. ADRIAN J. KOCHANSKI, S.J., dean of the liberal arts college for the past five years, has been appointed director of studies for the Wisconsin province of the Society of Jesus with headquarters in Milwaukee. His duties as Dean will be taken over by Academy member Rev. E. H. KORTH, S.J. . . . Father RAYMOND H. REIS, S.J., formerly of Marquette's biology department

and Wisconsin Academy President, has been named associate professor of biology at Rockhurst College in Kansas City, Mo. ... CYRIL C. O'BRIEN, professor of education, has been elected a fellow of the Royal Society of Arts of London. He is serving his second term as vice-president for arts in the Wisconsin Academy and is Chairman of the Publicity Committee. Musician, psychologist and educator, Prof. O'Brien holds degrees from seven Canadian universities, including the doctorate in psychology from the University of Ottawa. He has been on Marquette's faculty since 1947. Before coming to Marquette, he taught in the schools of Nova Scotia and has been organist at St. Michael's Cathedral in Toronto, Canada. He also is a member of the Gallery of Living Catholic Musicians and a fellow of the Royal Statistical Society of London.

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BELOIT COLLEGE - Dave Mason, Reporter (Director of Public Information, Beloit College)

A new 25-booth electronic language laboratory, featuring the latest devices and equipment to boost the student's fluency in the spoken language, recently was installed. It was made possible by an initial grant of \$12,300 to Beloit from the Janesville Foundation whose funds are largely provided by the Parker Pen Company and by several other gifts. ... Ten private midwestern colleges, including Beloit, Lawrence, and Ripon, recently inaugurated a unique experimental foreign language study program directed by an authority from the Army's Monterey Language School and financed by a \$250,000 grant from the federal government, and additional grants from major foundations and corporations. Headquarters for the study is Beloit College under Director KLAUS A. MUELLER, former Director of Romance and Germanic Languages at the U.S. Army Language School. Before joining the language school staff, he taught at Bard and Colby Colleges and at Columbia and Princeton Universities. He also has served as consultant to the U.S. Office of Education, the California State Dept. of Education, and the San Francisco Unified School District, where he introduced an intensive program of language instruction into the elementary schools. The language study hopes to experiment with and evaluate new procedures and devices on the language teaching scene by a joint program of systematic and controlled development and experimentation. A four week workshop at Beloit, which brought together 22 language professors from the ten colleges in the Associated Colleges of the Midwest, inaugurated the program. ... Twelve Beloit College students, accompanied by Professor JOHN KEMLER, are spending three months during the first semester of 1960-61 in Western Europe, making a first-hand study of the "Common Market" communities--the European Economic Community, the European Coal and Steel Community, and the European Atomic Energy Community. The credit study seminar is helping inaugurate Beloit's new "world outlook" program, designed to provide expanded overseas study opportunities for an increasing number of undergraduates. In this study and several other overseas programs currently underway, Beloit College is cooperating with the Experiment in International Living. ... Professor WILLIAM S. GODFREY, Anthropology Dept., is completing a study on recent Logan museum excavations in Central Mexico. ... Professor CHARLES G. CURTIS, Sociology Dept., is continuing work toward his Ph.D. at the University of Wisconsin under grants from that institution and the Lilly Foundation.



MILWAUKEE PUBLIC MUSEUM Wallace N. MacBriar, Reporter
(Head, Office of Information, MPM)

Several staff members active in the field this past summer included: Director STEPHAN F. BORHEGYI, who was in New Mexico and Colorado observing procedures at the archeological salvage project at Navajo Dam near Ignacio, Colo. He also studied reconstructed ruins of old Fort Burgwin near Taos, N.M. ... LEE PARSONS, Associate Curator of Anthropology, spent the summer at Lizard Mound State Park excavating into effigy mounds which are thought to be around 1,000 years old. ... ELTON WOLFF, Curator of History, and ROBERT LIETZ, Assistant in History, are making a tally of old log cabins of the area in the hope to add a suitable structure to the exhibits for the new Museum building. ... WALLACE MacBRIAR was in the Catskill Mountain region of New York state producing a film for lecture purposes. "Wild Wings in the Catskills" will be premiered during the Wednesday evening Lecture Series, March 1, 1961. ... Eighty-five members of the Friends of the Museum attended the special field trip to Lizard Mound and Aztalan State Parks. Curator of Anthropology ROBERT RITZENTHALER, LEE PARSONS, and KENNETH MacARTHUR acted as guides. ... Recent exhibit developments include: A new Soundtrek System has been wired into seven halls on a trial basis. For a small fee individuals or groups can pick up special receivers and listen to authentic accounts of the exhibits. Several new exhibits have opened in the past few months. The Division of Birds and Mammals have added the South American Condor, Mammals in the Dark, and unusual animals and birds from the Land Down Under -Australia. The Division of History's Chinese Room has now been reopened after substantial revision.

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UNIVERSITY OF WISCONSIN

Jack Newman

(Director, UW News Service)



Professor ARTHUR D. HASLER, Zoology Dept., has been installed as 1960-61 president of the 2,000-member Ecological Society of America. ... The regents have approved retirement with emeritus status for Dr. WILLIAM S. MIDDLETON, former dean of the Medical School and chief medical director of the Veterans Administration since 1955. ... An all-time record enrollment of 18,786 students registered at Madison for the fall semester is an increase of 1,353 over last year. The University's grand total enrollment of 28,781 also includes 7,842 day and evening undergraduates and graduate students at UW-M and 2,153 at the eight University Centers. ... Prof. OLAF A. HOUGEN, chemical engineering, has received an honorary doctor's degree from the Technical University at Trondheim, Norway. He also has been named to receive the \$1,000 Award in Industrial and Engineering Chemistry from the American Chemical Society at its 1961 meeting in March in St. Louis where Prof. EUGENE E. vanTAMELEN, chemistry, also is to receive the \$1,000 Award in Pure Chemistry. ... Prof. S. MORRIS KUPCHAN, pharmacy, has been awarded the Ebert Prize, highest award of the American Pharmaceutical Association for outstanding research. ... Canadian government scientist HAROLD SENN has been named director of the University's new \$1½-million biotron laboratory for controlled environment study of plants and animals. ... Prof. JOHN T. EMLLEN, zoology, has been elected second vice president of the American Ornithologists' Union. ... Prof. ROBERT W. FULTON, plant pathology, has been appointed editor-in-chief for 1961-64 of Phytopathology, international journal and official publication of the American Phytopathological Society. ... Emeritus Profs. W. D. STOVALL, medicine, and M. STARR NICHOLS, sanitary chemistry, have been awarded citations and honored with life memberships by

the Wisconsin Association for Public Health. ... Prof. JOHN C. WALKER, plant pathology, has been awarded an honorary doctor of science degree by the University of Göttingen, West Germany. ... Prof. RAYMOND G. HERB, physics, has received an honorary degree from the University of Basel, Switzerland, at its 500th anniversary celebration. ... U.W. President CONRAD A. ELVEHJEM has been elected to a six-year term on the National Science Foundations Board. He also recently was made an honorary member of the American Dietetic Assn. ... A scholarship fund has been established in the name of former Academy member AL WOJTA and his portrait has been hung for permanent display at the Marshfield Branch Experiment Station. ... Professor MERLE CURTI received an award of merit from the American Assn. for State and Local History for his latest book, "The Making of an American Community: A Case Study of Democracy in a Frontier County" (Trempealeau). ... Artist-in-residence AARON BOHRD received an honorary Doctor of Fine Arts degree from Ripon College last June. ... Associate Editor RALPH McCANSE recently was elected an honorary member of the Wisconsin Fellowship of Poets. ... Professor HELEN C. WHITE has been named by the federal Commissioner of Education to an advisory committee to determine the effect of federally sponsored programs in the field of higher education. (President DOUGLAS KNIGHT of Lawrence College also was placed on this committee.)

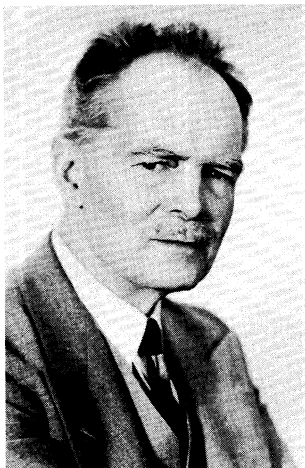
Professor GERARD A. ROHLICH was appointed to the Madison city water commission. ... CARL E. STEIGER (Oshkosh) was re-elected president of the U.W. Board of Regents. He also represents the U.W. on the Coordinating Committee for Higher Education. Other Academy members from the U.W. Regents named to the Coordinating Committee are ELLIS E. JENSEN (Janesville) and CHARLES D. GELATT (La Crosse). ... Special Asst. to the President IRA L. BALDWIN, has been named chairman of a new national committee to study the effect of agricultural pesticides on wildlife by the National Academy of Science and National Research Council. Governor GAYLORD NELSON recently appointed President CONRAD A. ELVEHJEM chairman of a Special Committee on Chemicals and Health Hazards and followed this with appointments of two subcommittees to assist, containing 19 members of which 13 are affiliated with the Wisconsin as follows: Subcommittee on Chemicals and Water Supplies, WILLIAM B. SARLES, THEODORE F. WISNIEWSKI, EDWARD SCHNEBERGER, KENNETH M. MACKENTHUN and GEORGE HANSON; Subcommittee on Chemicals and Wildlife and Forestry, ROBERT J. DICKE, HARRY C. COPPEL, JOSEPH J. HICKEY, GRANT COTTAM, E. L. CHAMBERS, CYRIL KABAT, PAUL OLSON and A. W. SCHORGER.

The WISCONSIN PHENOLOGICAL SOCIETY was organized recently with Professor REID A. BRYSON, Chairman of the UW Meteorology Department, as its first President. Conservation Department Biologist DONALD R. THOMPSON is Vice-president, State Dept. of Agriculture Entomologist PHILIP W. SMITH is Secretary, and State Entomologist ERNEST L. CHAMBERS is Treasurer. This group started about two years ago with informal organization for a statewide project of scientific data collection and will hold its first regular annual meeting in the UW Play Circle on January 23, 1961 in connection with Farm and Home Week. Persons interested should contact the Secretary at Madison.

The Milwaukee Journal deserves commendation for its excellent current series of articles on Wisconsin's colleges. Among those already published are the State Colleges at Oshkosh, Stevens Point and Whitewater and the private colleges: Beloit, Carroll, Ripon, Lakeland, and St. Norbert. These sketches certainly should be reprinted in booklet form for more permanent reference use. --- W.E.S.

GLANCES BEYOND FOR THE WISCONSIN ACADEMY

By President Merritt Y. Hughes*



Among the many books in the office assigned to me as a visitor this summer at the University of Toronto is a volume containing the papers read at the celebration of the 75th anniversary of the Royal Society of Canada in Ottawa three years ago. In one respect it contrasts with our Proceedings of our 90th anniversary - now soon to appear. And in that respect it can help to point the way for us as we shape the policies of our own Academy in the opening last decade of its first century.

The contrast is obvious in the Canadian title - Our Debt to the Future - the subject of the meetings in Ottawa. Our own annual symposia are usually regional and put the emphasis upon what is being discovered

about the lakes or what is being planned about conservation of forests and streams in areas where we hold our annual meetings. Could a state-wide survey be attempted once in ten years, with some glances beyond our boundaries and a longer look into the future than traditional interest in conservation can suggest? At Ottawa the stress was upon developing the whole wealth of the soil with due attention to consequent social changes. The discussion was of subjects such as the charter of the Wisconsin Academy shows that the State once expected its Academicians to treat with authority.

Comparison of the Royal Society of Canada with the Academy of a single state of our Union would be unprofitable and unjust. One of the most paradoxical disparities lies between the generous support which the Royal Society enjoys from a nation territorially larger than our own, in contrast with the recent cut of the support of only \$6,000 which the Academy has enjoyed from public funds in Wisconsin. Another contrast is that between our open

* - A brief introductory account of Professor Hughes, distinguished scholar and new President of the Academy, appears in the Spring 1960 Review.

membership of about 1200 and the membership of about 400 in the Royal Society, which keeps its numbers at about that level and recruits by election from within. The consequence is that the Royal Society - selective though it be - includes practically all Canadians who have achieved anything of importance in the arts or sciences. Such aristocratic conscription of members is now impossible in Wisconsin; but something like it was once our practice in the Academy, and it may have served the purposes of democracy better than our present wide-open door can ever do.

Among the papers at Ottawa there were several by members conscripted from commercial laboratories and Government departments. One of the most persuasive was an appeal by a business executive for public interest in the chemistry of enzymes and proteins and the borderline between animate and inanimate matter. One of the most galling was a physicist's polemic against champions of "real education" who from ivory towers remote from "disturbing thoughts of the intellectual challenge of a rapidly transforming society," prophesy against mere "technical instruction." Most of the time the natural sciences had the Canadian floor, but the hearing given to the social sciences and the humanities implied their right to the last word. The republic of learning was completely represented, and its democratic constitution was assumed. So was its obligation to the national democracy in a paper read by an economist on the many practical and spiritual dangers in the decline of the fishing industry of the Maritime Provinces and the remedies for it under consideration by the Government.

In such a program the humanities could not be neglected. The case for education in all the facts of life - biological, economic, moral, political, and esthetic - which was made by Canada's most distinguished academic humanist, was supported by a journalist from Montreal who wrote in French and expounded Teilhard de Chardin's philosophy of critical acceptance of the tidal wave of intellectual interest and activity which is moving across the world. In a paper summing up the role of poetry and fiction in that tidal wave, Professor Roy Daniells of the University of British Columbia pointed out that, though current literature has no image to set beside the saint, the courtier, the gentleman, the man of sensibility, the utilitarian, or the man of culture defined by Matthew Arnold, an image is surely taking form. Sooner or later the arts must embody it in a synthesis of many traits of the modern ideal man which for him seemed, he said, once to have been incarnated in a young mathematician born and educated not many miles from Ottawa. The image of the young mathematician, dimly seen by the philosopher from the Far West, was an appropriate symbol of the goal of an Academy dedicated to the complete service of the sciences, arts, and letters.

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THE CONSTITUTION AND BY-LAWS OF THE WISCONSIN ACADEMY OF
SCIENCES, ARTS AND LETTERS

(November 1960)

Constitution

ARTICLE I -- NAME AND LOCATION

This association shall be known as the Wisconsin Academy of Sciences, Arts and Letters, and shall be located at the city of Madison.

ARTICLE II -- OBJECT

The object of the Academy shall be the promotion of sciences, arts and letters in the state of Wisconsin. Among the special objects shall be the publication of the results of investigation and the formation of a library.

ARTICLE III -- MEMBERSHIP

The Academy shall include eight classes of members, viz.: life members, honorary members, sustaining members, patrons, corresponding members, institutional members, student members and active members, to be elected by ballot.

1. Life members shall be elected on account of special services rendered the Academy. Life membership may also be obtained by the payment of one hundred dollars and election by the Academy. Life members shall be allowed to vote and to hold office.

2. Honorary members shall be elected by the Academy and shall be men who have rendered conspicuous services to sciences, arts or letters.

3. Sustaining members shall be elected by the Academy or the Council and shall pay annual dues of \$10. They shall have the same rights and privileges as active members, and shall be specially listed in the membership roll in recognition of their support of the Academy's work.

4. Patrons shall be elected by the Academy in recognition of special services or contributions. An account of such contributions shall be published to the membership in the minutes of the meeting at which the patron is elected. Patrons shall have the rights and privileges of active members during the year following their election.

5. Corresponding members shall be elected from those who have been active members of the Academy, but who have removed from the state. By special vote of the Academy men of attainments in science or letters may be elected corresponding members. They shall have no vote in the meetings of the Academy.

6. Active members shall be elected by the Academy or by the Council, and shall enter upon membership on payment of the first annual dues.

7. Institutional members shall be elected by the Academy or by the Council in recognition of an annual membership fee of \$50.

8. Student members shall be regularly enrolled high school students elected by the Academy or by the Council.

ARTICLE IV -- OFFICERS

The officers of the Academy shall be a president, a president-elect, a vice-president for each of the three departments, sciences, arts and letters, a secretary, a librarian and a treasurer. These officers shall be chosen by ballot, on recommendation of the committee on nomination of officers, by the Academy at an annual meeting and shall hold office for one year. Their duties shall be those usually performed by officers thus named in scientific societies. It shall be one of the duties of the president to prepare an address which shall be delivered before the Academy at the annual meeting at which his term of office expires.

ARTICLE V -- COUNCIL

The council of the Academy shall be entrusted with the management of its affairs during the intervals between regular meetings, and shall consist of the president, the president-elect, the three vice-presidents, the secretary, the treasurer, the librarian, the editor of the TRANSACTIONS, the editor of the Wisconsin Academy Review, the chairman of the Junior Academy Committee, and the past presidents who retain their residence in Wisconsin. Three members of the council shall constitute a quorum for the transaction of business, provided the secretary and one of the presiding officers be included in the number.

ARTICLE VI -- COMMITTEES

The standing committees of the Academy shall be a committee on publication and a membership committee. These committees shall be elected at the annual meeting of the Academy in the same manner as the other officers of the Academy, and shall hold office for the same term.

1. The committee on publication shall consist of the president and secretary and a third member elected by the Academy. They shall determine the matter which shall be printed in the publications of the Academy. They may at their discretion refer papers of a doubtful character to specialists for their opinion as to scientific value and relevancy.

2. The membership committee shall consist of five members, one of whom shall be the secretary of the Academy.

ARTICLE VII -- MEETINGS

The annual meeting of the Academy shall be held at such time and place as the council may designate. Summer field meetings shall be held at such times and places as the Academy or the council may decide. Special meetings may be called by the council.

ARTICLE VIII -- PUBLICATIONS

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.

ARTICLE IX -- AMENDMENTS

Amendments to this constitution may be made at any annual meeting by a vote of three-fourths of all members present; provided, that the amendment has been proposed by five members, and that notice has been sent to all the members at least one month before the meeting.

By-Laws

1. The annual dues shall be four dollars for each active member, to be charged to his account on the first day of January of each year. Membership shall be available to a husband or wife of active members for an annual dues of one dollar, providing that only one copy of the TRANSACTIONS shall be received by the family group. Annual dues for student members shall be one dollar per year.

2. The annual dues shall be remitted for the secretary-treasurer and librarian during their term of office.

3. As soon as possible after January first of each year the secretary-treasurer shall send to members statements of dues payable, and in case of non-payment shall, within the succeeding four months, send a second and, if necessary, a third notice.

4. The secretary-treasurer shall strike from the list of members the names of those who are one year or more in arrears in the payment of their dues, and shall notify such members of this action offering at the same time to reinstate them upon receipt of the dues in arrears plus the dues for the current year.

5. Each member of the Academy shall receive the current issue of the TRANSACTIONS provided that his dues are paid. Any member in arrears at the time the TRANSACTIONS are published shall receive his copy as soon as his dues are paid.

6. The fee received from life members shall be set apart as a permanent endowment fund to be invested exclusively in securities which are legal as investments for Wisconsin trust companies or savings banks. The income alone from such fund may be used for the general purposes of the Academy.

7. The secretary-treasurer shall receive annually an allowance of three hundred dollars for services.

8. An editor of the TRANSACTIONS shall be appointed by the council and he shall be charged with the special duty of editing and overseeing the publication of the TRANSACTIONS. In the performance of this duty he shall be advised by the Committee on Publications.

9. 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.

10. Papers to be published in the TRANSACTIONS must be approved as to content and form by the committee on publication. They must represent genuine original contributions to the knowledge of the subject discussed. Preference shall be given to

papers of special interest to the state of Wisconsin and to papers presented at a regular meeting of the Academy. The privilege of publishing in the TRANSACTIONS shall be reserved for the members of the Academy.

11. 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.

12. Amendments to these By-Laws may be made at any annual meeting by vote of three-fourths of all the members present.

13. The nominations committee shall be appointed at least three months prior to the date of the annual meeting.

14. 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.

15. Administration of the Academy Library will be the responsibility of the Librarian and the Council.

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CHARTER OF THE ACADEMY

Approved by the Wisconsin State Legislature, March 16, 1870,
as an Act to Incorporate the Academy. Excerpt is section
on "General Objects."

The general objects of the Academy shall be to encourage investigation and disseminate correct views in the various departments of science, literature, and the Arts. Among the specific objects of the Academy shall be embraced the following:

1. Researches and investigations in the various departments of the material, metaphysical, ethical, ethnological, and social sciences.

2. A progressive and thorough scientific survey of the state with a view of determining its mineral, agricultural, and other resources.

3. The advancement of the usual arts, through the applications of science, and by the encouragement of original invention.

4. The encouragement of the fine arts, by means of honors and prizes awarded to artists for original works of superior merit.

5. The formation of scientific, economic, and art museums.

6. The encouragement of philological and historical research, the collection and preservation of historic records, and the formation of a general library.

7. The diffusion of knowledge by the publication of original contribution to science, literature, and the arts.

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THE WISCONSIN ACADEMY IN 1960

By Walter E. Scott, Editor

Seven years ago a study of the Wisconsin Academy's membership distribution (as of December 10, 1953) revealed 287 Active and Life members living in the state of which 226 were located at Madison and Milwaukee. There were only 61 members outside of these two communities and 71 outside the state, for a grand total of 358 Active and Life members. Of the 71 Wisconsin counties, 47 had no membership representation. This information (and the map on page 188) was published in the first issue of the Academy Review, Winter, 1954.

The membership list which follows includes, besides 79 library subscriptions which greatly increased, a total of 1,307 Active, Sustaining, Life and Honorary members for an increase of about 265%. Of these 520 are located in Madison and Milwaukee, 624 in Wisconsin localities outside these two communities and 163 outside Wisconsin. This means that the Madison-Milwaukee cities concentration dropped from about 65% to 40% of the total while other Wisconsin communities increased from about 15% to 48%. There was a drop of from about 20% to 12% of those outside Wisconsin although the total number substantially increased.

Growth of over 1000% in membership outside the cities of Madison and Milwaukee is the most significant feature of this seven-year comparison. Now there remain only seven counties not represented in the Academy's membership - Adams, Burnett, Jackson, Pepin, Polk, Price and Waupaca. Also, Walworth county now has more members (83) than the city of Milwaukee had in 1953(58). Today there are 41 members in the Milwaukee County suburbs for a total Milwaukee County membership of 218 and with the 21 others outside Madison, Dane County has 364 members. Other counties with 15 or more members are: Rock, 35; Winnebago, 33; Grant and Outagamie, 29 each; Racine, 26; La Crosse and Waukesha 23 each; Brown, 18; Green Lake, 17; and Sheboygan and Wood, 16 each.

The 163 members outside Wisconsin are located in 33 states and the Canal Zone and Province of Saskatchewan. Of these, 20 are in Illinois, 18 in Michigan, 15 in California, 12 in Minnesota and 8 in Washington, D. C. The following membership list (as of November 20, 1960) contains 37 Life members, 28 Sustaining members, 1 Corresponding and 3 Honorary members, and 1,238 Active members, indicated by the respective letters and the dates when this status was attained.

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Editor's Note:

A few names inadvertently omitted in the list will be found in the "addenda" on page 188 along with two maps comparing the distribution of membership in Wisconsin as of December 10, 1953 and November, 1960. Also, this membership list must be considered in the light of recent Council action which has ordered that all members in arrears for dues should be dropped with this issue. Unfortunately, this number of around 200, will make a substantial difference and reduce total active membership to about 1,100. It is to be hoped that many of these members in arrears will decide to continue their support of the Wisconsin Academy.

* * * *

MEMBERSHIP LIST

WISCONSIN ACADEMY OF SCIENCES, ARTS AND LETTERS

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 H. W. Browning, Univ. of Rhode Island,
 Kingston, Rhode Island A 20, L 59
 Farrington Daniels, 415-B Chemistry Bldg.,
 Univ. of Wis., Madison 6 A 21, L 59
 E. W. Davis, 1590 Edgecomb Rd., St. Paul 16,
 Minn. '45
 Charles Drechsler, Vegetable Crops Section,
 Plant Industry Sta., Beltsville, Md. A 19 L 59
 Walter A. Frautschi, 29 Fuller dr., Madison 4
 A 42, L 48
 Charles D. Gelatt, 1526 Cass st., La Crosse '58
 Eloise Gerry, 1105 Dartmouth Rd., Madison 5
 A 19, L 59
 W. O. Gloyer, 106 Lyceum st., Geneva, N. Y.
 A 08, L 50
 G. B. Gunlogson, 400 Cross Creek Rd., Racine
 A 46, L 48
 H. B. T. Jackson, Room 61, U. S. National
 Museum, Washington 25, D. C. A 10, L 50
 G. W. Keitt, 207 Hort. Bldg., Univ. of Wis.,
 Madison 6 A 17, L 58
 Walter J. Kohler, Windway, Kohler S 55, L 57
 O. L. Kowalke, 2012 Jefferson st., Madison 5
 A 19, L 49
 Sister M. Lauretta, Columbus High School,
 Marshfield A 46, L 59
 B. D. Leith, 302 N. Hillside Terr., Madison '45
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 New York A 06, L 50
 J. H. Mathews, 115 Chemistry Bldg., Univ. of
 Wis., Madison 6 A 19, L 59
 G. C. Neff, 5 Cambridge Rd., Madison '53
 E. B. Noland, 151 Birge Hall, Univ. of Wis.,
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 Guido R. Rahr, Waldo Blvd., Manitowoc '54
 Oscar Rennebohm, 550 W. Washington ave.,
 Madison 3 '44
 Hugo Wm. Rohde, Villa Elsa, Route 4,
 Oconomowoc A 98, L 47
 A. W. Schorger, 168 N. Prospect ave., Madison 5
 A 16, L 44
 W. D. Schorger, 1609 S. University, Ann Arbor,
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 Selma Schubring, The White Sands of LaJolla,
 7450 Olivetas ave., LaJolla, Calif. A 20, L 57
 H. A. Schuette, 719 Farwell dr., Madison 4
 A 17, L 58
 W. H. Snell, 21 Laurel Court, Brown University,
 Providence 12, Rhode Island A 19, L 59
 W. H. Steil, 1926 N. 53rd st., Milwaukee 8
 A 19, L 59
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 A 16, L 58
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 Oklahoma A 21, L 45
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 Bldg., St. Paul, Minn. '60

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 A 57, S 59
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 J. L. Weill, 911 N. 11th st., Sheboygan '55

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 Worcester, Massachusetts
 Katherine Lenroot, Childrens Bureau,
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 Alexander Wetmore, Smithsonian Inst.,
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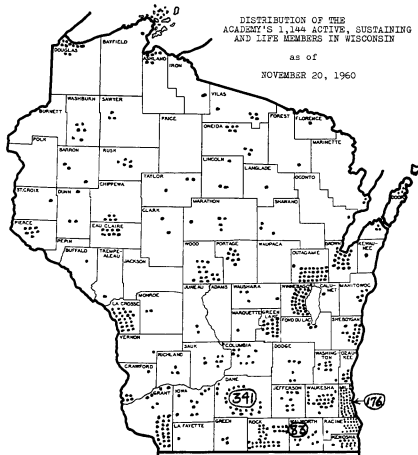
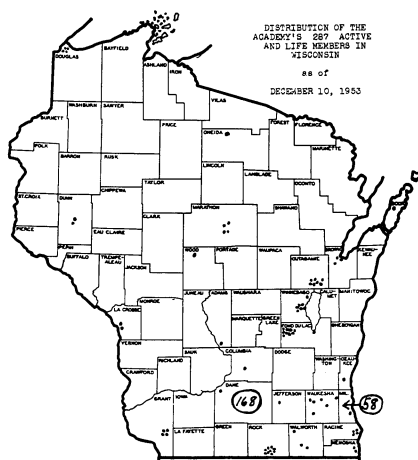
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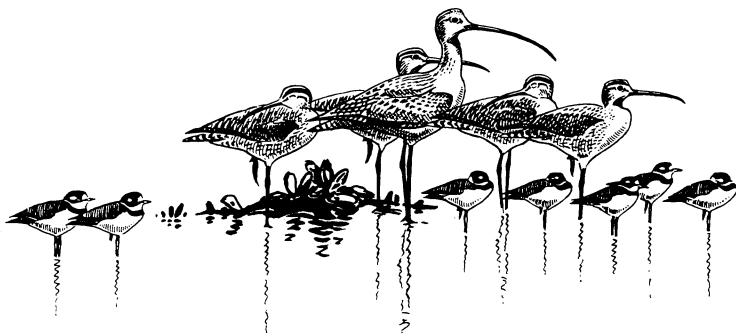
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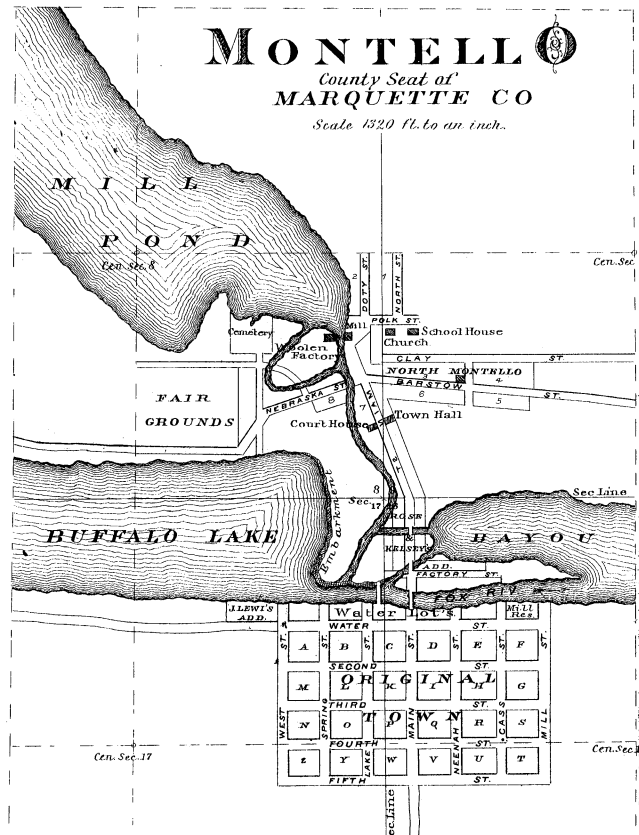


BIRDSEYE VIEW OF MONTELLO (ca. 1878)

The artist's conception of a "bird's-eye view" of Montello, Wisconsin, about 1878 as well as this sketch map, first appeared in the "Historical Atlas of Wisconsin" compiled and published that year by Snyder, VanVechten and Co. of Milwaukee. They are republished here as historical background for Prof. Thompson's article, "Historic Waterways Revisited: The Upper Fox River." Thompson compares what he saw in 1960 with the experience of Thwaites in 1887. Just nine years before Thwaites made his trip, this "Historical Atlas" said of Montello:

"This place, sometimes called Hill River, the county seat, is a prosperous village of seven hundred inhabitants, located on the Fox, at the Mouth of the Montello River, and the outlet of Buffalo Lake. It has the substantial elements of growth--intelligent, public-spirited citizens--surrounded by a large and wealthy community of farmers, and possessed of a water-power surpassed by few in the state; in fact, it has two water-powers, one at foot of Buffalo Lake, and the other on the Montello, the former with a present fall of three feet, the latter of fourteen, the supply in both uniform and inexhaustible. . . .

"A moiety of the power is employed by the 'Montello Flouring Mills' with four run of stone, and by the 'Montello Woolen Factory,' with a capacity for annual consumption of seventy-five thousand pounds of wool. ... The village has a charming location upon the shore of placid Buffalo Lake, with towering bluffs and encircling rivers. ... The coming of the first steam-boat up Fix River, in 1851, was hailed with enthusiasm as the pioneer of progress and civilization... Buffalo Lake, fourteen miles in length, was the favorite resort of the Indian on account of its fish, wild rice and ducks. It is not a quarter of a century since savages by hundreds camped upon its shores, particularly in Packwaukee, and fared sumptuously on the abundant fish and game."



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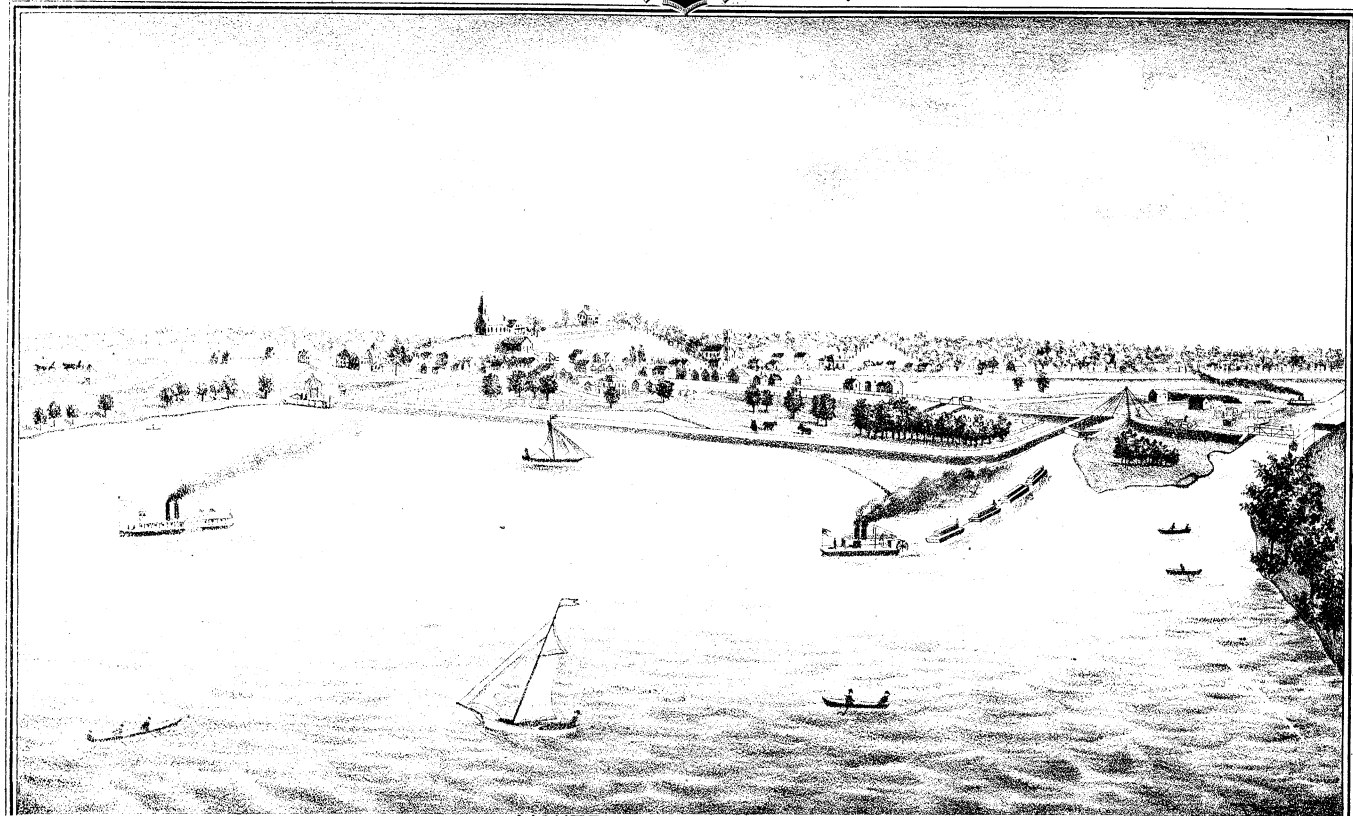
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BIRDSEYE VIEW OF MONTELLO & SURROUNDINGS. MARQUETTE CO. WIS.

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