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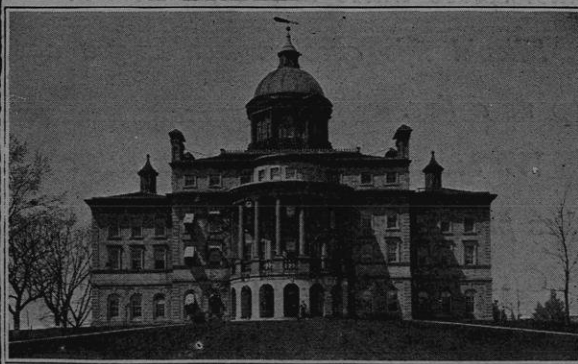
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THE  
WISCONSIN  
ALUMNI  
MAGAZINE



PUBLISHED AT MADISON  
BY THE ALUMNI OF THE  
UNIVERSITY OF WISCONSIN

Vol. 6

Commencement, 1905

Nos. 9-10

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# THE WISCONSIN ALUMNI MAGAZINE.

GEO. F. DOWNER, Managing Editor.

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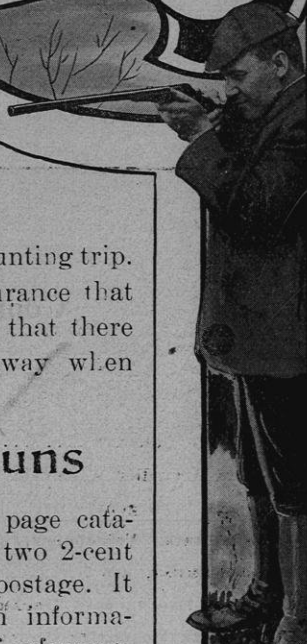
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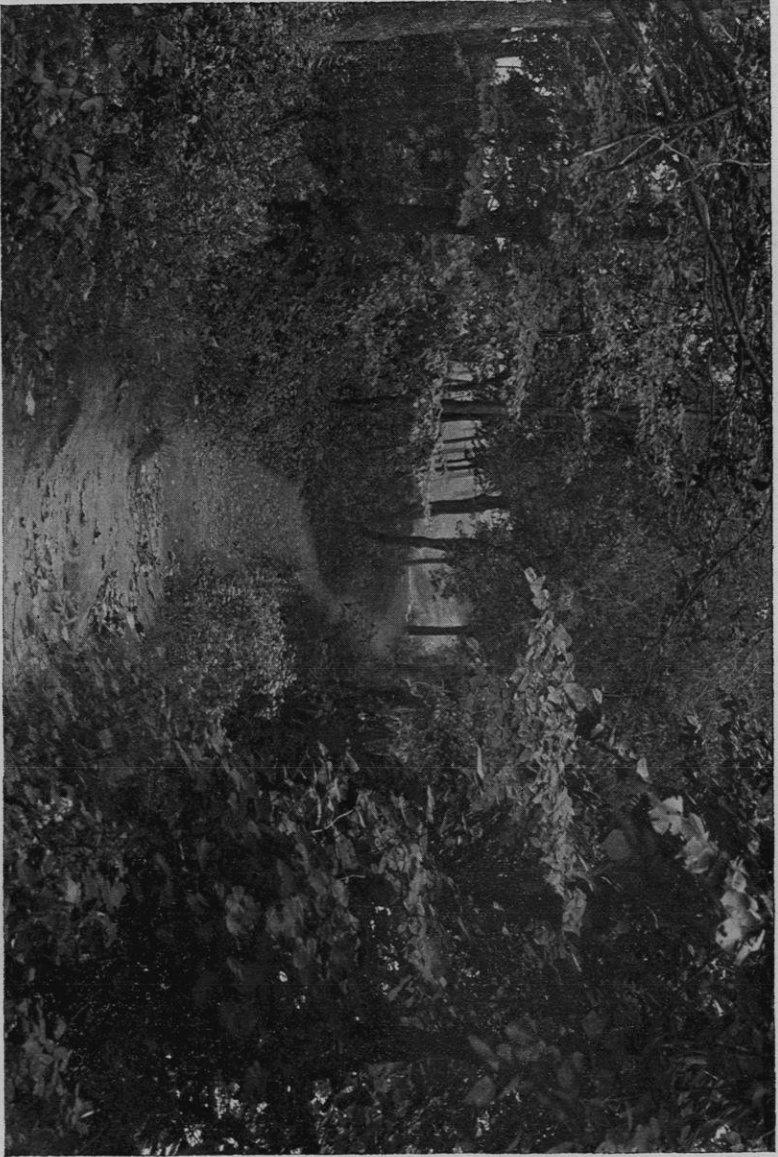
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# WISCONSIN ALUMNI MAGAZINE

Vol. VI.

Commencement, 1905.

No. 9-10

## The Month Current

### Oxford Accredits Wisconsin.

President Van Hise in his address at the Alumni dinner referred to the recent action of the University of Oxford by which the University of Wisconsin has been placed in the relation of an affiliated University. This action is a gratifying tribute to the standing which Wisconsin holds in the eyes of the English educational public, Harvard being the only other American University to which this recognition has been accorded.

The letter from Mr. Richard F. Scholz, which is printed below, fully explains the action:

Oxford, May 26, 1905.

President C. R. Van Hise,

University of Wisconsin,

Madison, Wis.

My dear President Van Hise:

I am happy to be able to report that the Convocation of the University of Oxford, in a meeting held on May 16th, unanimously approved of and passed the Decrees granting to all Junior and Senior students of the University of Wisconsin advanced standing at Oxford. Harvard is the only other American university which up to the present enjoys these privileges. I send you by this same mail a copy

of the University Gazette containing the Decrees relative to the University of Wisconsin.

This action of the Convocation of the University of Oxford practically places Wisconsin in the position of an affiliated university. In the case of the students from our other American universities, each individual case will have to be brought before the Convocation where it will be decided on its merits—which, I am sorry to say, are not as yet fully understood, nor are they always perfectly clear to all of the Oxford graduates who go to make up the body known as the Convocation. This Wisconsin decree will do away with all the formal procedure usually necessary to secure favorable action on an individual application; and any student of the University of Wisconsin who satisfies the conditions presented in these Decrees will be entitled to the privileges of Junior or Senior standing at Oxford, as the case may be.

The privileges of a Junior affiliated student may be summed up as follows:

(1) He can reckon his first term of residence at Oxford as the fifth from his matriculation, i. e., he is granted one year's standing—three years being the minimum residence requirement for the Oxford B. A.

(2) He is not required to pass Responsions.

(3) He can take the degree of B. A. after a residence of eight terms (instead of 12), i. e., two academical years; if he has passed the Second Public Examination, and has obtained Honours in either the First or Second Public Examination. (My article in the Alumni Magazine will explain and define these terms.)

The privileges of a Senior Foreign or affiliated student are similar, and in regard to the first two points mentioned above they are identical. As to the third, he is not required to pass Responsions, the First Public Examination, or any of the Preliminaries of the Second Public Examination, i. e. he is required to pass *only* the second or Final Examination at the end of his course of study in which he must obtain Honours (i. e. a grade above say 75 or 80).

Whether or not the passing of this decree will do away with the necessity of passing Responsions, as at present required, for eligibility as candidate for a Rhodes Scholarship, I am not prepared to say. I shall make it a point, however, to do all in my power to secure exemption from this examination for any prospective candidate for the Rhodes Scholarship from the University of Wisconsin and hope to be in a position to send you a favorable report in a few days.

I am glad to find Wisconsin leading the way in this movement for affiliation and in the promotion of the entente cordiale between English and American universities. If I can do anything further to bring the universities of America and England into closer relations, I will only be carrying

out, in a humble way, the mission entrusted to me, as to all Rhodes Scholars,—by Mr. Rhodes, and I hope this rapprochement may be only one step in the direction of an intimate and far reaching relationship and association of all the great universities of the world.

With best wishes for Wisconsin's continued success and prosperity,

Sincerely,

(Signed) RICHARD F. SCHOLZ.

The Oxford University in its last issue contains the following statement:

"In a convocation holden Tuesday, May 16, the following business was submitted to the house;

"Decree 7—That any member of the University of Wisconsin who shall have been graded either B or A in Greek 1 and 2 at that University, shall be deemed to have shown a sufficient knowledge of Greek as required by provisions of the statute on students from foreign universities. (Carried—Nemine contradicente.)

"Decree 8—That any member of the University of Wisconsin who shall have pursued at that University a course of study extending over two years at the least, and shall have been graded B or higher in at least sixty semester hours, shall be eligible for admission to the status and privileges of a Junior Foreign Student, provided that the said courses are courses which could have counted towards the Degree of Bachelor of Arts at that University. (Carried—Nemine contradicente.)

"Decree 9—That any member of the University of Wisconsin who shall have pursued at that University a course of study extending over three years at the least, and (a) shall have



obtained the Degree of Bachelor of Arts with honours in his major study; or (b) shall have been graded not lower than C in ninety semester hours in at least sixty of which his grading shall have been either B or A, shall be eligible for admission to the status and privileges of a Senior Foreign Student. (Carried—Nemine Contradicente.)”

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#### Changes in the Board of Regents.

At the June meeting of the Board of Regents, M. C. Mead, of Plymouth, was elected president, succeeding Geo. F. Merrill, of Ashland, in accordance with the custom by which the presidency of the Board has not been held longer than two terms by any member. Regent H. C. Taylor of Orfordville was chosen vice-president. Edward E. Browne, '80, '921, was appointed by Governor La Follette to succeed Justice J. C. Kerwin. Mr. Browne is a son of E. L. Browne who served four years on the Board under the appointment of Governor W. D. Hoard.

The session of the Board was given up chiefly to routine business and to the appointment of the new members of the faculty, which is mentioned in another column of this issue.

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#### The Editorial Valedictory.

With this issue, the present editor's connection with the Wisconsin Alumni Magazine terminates. A few more or less personal remarks, by way of a valedictory, addressed to the alumni, may therefore be permitted him. First, to those loyal graduates who have supported this publication through its varying fortunes during the last few

years, the most sincere thanks are certainly due. To you Wisconsin owes much, while the editor, for your indulgence when criticism may have been in order, is even more deeply obligated. If there were any way of putting this copy in the hands of the Wisconsin men and women who should have supported the Magazine but did not subscribe, I should be inclined to treat the subject of loyalty to Alma Mater from a somewhat different point of view. However, there is no such possibility—this Magazine will go only to its friends, those who have done their part toward making it a success and to whom only words of gratitude are due.

During the past year the publication has been enlarged and, I believe, improved materially. The changes in size, stock, illustration and press work have been generally commended by alumni who have written regarding it. That further improvements may be made, particularly in securing more frequent contributions from alumni and in the method of handling the circulation, goes without saying. The number of paid subscriptions from alumni has increased over 100 per cent., and if, as is the case, the cost of publication has increased still more rapidly, it means merely that some one, that some one the editor, erred in judgment in enlarging it too soon. Even so, in another year, under a young, energetic and gifted managing editor, it seems as if there should be enough support to justify maintaining the Magazine in its present form, without retrenchment by cutting down the cost of publication.

Mr. Loeb will bring to the conduct of alumni affairs all the talents which have won for him and for Wisconsin

high honors in oratory and debate. He is thoroughly qualified to edit the Magazine and substantially to improve its quality. Every graduate who has supported it in the past will have a better reason for doing so in the future. If Mr. Loeb can but maintain the ratio of increase in the subscription list next year, the Magazine will be firmly established, where it should be, as a vigorous factor in advancing the interests and welfare of the University of Wisconsin.

Just a word more in closing and this with an apology for introducing the matter. I have not at any time believed that the majority of alumni who subscribe to this Magazine are interested in the editorial *ego* or personal affairs. Yet as there are many who, no doubt, have supposed that I was receiving a guaranteed salary of a thousand dollars a year and, under this misapprehension, have criticised freely, it strikes me as no more than fair to explain the facts. When it became evident by January, 1905, that in spite of my best efforts up to that time, the Magazine, while its revenues were increasing, would fall considerably below my expectations, I accepted the graduate managership to enable me to meet the expense of publication, as my contract required. These bills I am now paying, and inasmuch as the job was one of my own seeking, I am not kicking. Neither am I asking sympathy for making what has proved a poor business deal, but I do believe that many alumni who have criticised, for example, the manner of handling the circulation, will be disposed to regard the matter somewhat differently when informed that the writer, in addition to the loss of such time as he has put in since Jan-

uary 1, is personally out of pocket a sum of hard money which would look pretty good on his own bank book just now. If the honors have come rather high, the experience has certainly not been without value to me.

I am satisfied also, that, even though things have not turned out just as I could have desired, this year's work has at least marked out some lines along which my successor, with additions of his own, can make both the Magazine and the general secretaryship successful.

Wisconsin alumni will support a good magazine. They will eventually support a better one than this present year has given them, but it takes time. I, for one, am certainly unwilling to admit that my Alma Mater is less worthy of support than Michigan, for example. And I do not think that my fellow alumni comprise a larger percentage of fossils than are found among the graduates of other average institutions. The men who talk longest and loudest in the annual meetings of the association only to forget the payment of their alumni dues, are the exceptions, not the rule. The majority, the vast majority, of the men who have gone from the old Hill, still have time to retain, at least, some sympathetic regard for Wisconsin. They need only the direction of an intelligent secretary to turn their interest to its advantage. This is the task to execution of which Mr. Loeb will turn his efforts, and I take this opportunity to wish him and the executive committee of the association all success in their efforts. To the executive committee in particular, for frequent courtesies and helpful suggestions, I take this opportunity of expressing my appreciation.

## Commencement, 1905

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The feature of Commencement was the presence of former president, John Bascom, who delivered the Baccalaureate and also spoke at the Alumni Dinner. Dr. Bascom, though now in his seventy-ninth year, gave no indication of any decline in the splendid intellectual powers and intense spirituality which made his influence upon the student body so rich and vital, in the days of his presidency. Even in physical vigor, the venerable former president failed to show the influence of the years which have swept over his head since he handed over his executive responsibilities to President Chamberlin in 1887. Dr. Bascom's baccalaureate sermon on Sunday of Commencement week was on *The Kingdom of Heaven*. He spoke in part as follows:

"This kingdom is necessarily and primarily a spiritual one. Its principle of concord is love, the only reconciling force in human life. So only can men concur in bringing forward the world in gratification of their common wants and in establishing a skillful and merciful equilibrium between all lives. The harmony between man and man is the keynote of that harmony in which the orchestra of the earth and heaven peal forth their triumph. 'The pastures are clothed with flocks; the valleys also are covered over with corn; they shout for joy; they also sing.'

"This is both a physical and spiritual harmony. As a physical harmony simply it would begin at once to perish, as all things perish from which the loving hand is withdrawn. The tree must

take possession of the air above it. Only thus is it a tree, only thus is it a symbol of life. The true line of ascent is from things to thoughts, from thoughts to affections, from things and thoughts and affections to the kingdom of heaven. On these foundations rests the kingdom. It is our mistaken interests, our unreconciled claims that divide us, man and man, class and class, nation and nation. We have only to grow up into the region of intelligence and good will and that kingdom which is the spiritual affiliation of all good with itself will come."

In addressing the graduating class he said in part:

"How quickly the social questions which now perplex us take on a simpler form and disclose lines of advance when we see them in the light of good will. The race question loses its perplexity and its irritation. The contentions between classes disappear. We see at once and understand that the laboring class must have a new and more generous deal in the kingdom of heaven. We cease to defer it; we commence that better time. You will work out an experience, your own experience, under the highest ideas applicable to it. You will not be forever darkening counsel with empty words and putting your own shadow between yourselves and the world you are to study and understand. It is a great thing to get the clew of life, the interpreting idea under which its riddles are to be read. Why should not life be to you insight, knowledge, vis-

ion, with all the glory of colors falling upon it? Solitary confinement is the extreme of punishment. Why should we lock up ourselves within ourselves, when our fellowmen are created for us and we for them? Wherever man pitches his tent there is a refuge for us, and some refreshment of mind and heart. You have spent bright days here in gathering knowledge. Let not this light be extinguished, this memory become painful because so contradicted by your later experience. The world, the true world, your world is being built. It calls you, and its deepest call is the kingdom of heaven, where all good things and good men are gathered; where the coherence of pleasure with pleasure, truth with truth, aspiration with aspiration, is embodied as the fullness of all revelation.

"Your discipline here may have been directed to a mastery of physical things. If so, it is much in order, because the earth is the Lord's and the fullness thereof. Yet do not, like one of our own anthracite kings, think yourselves God's vice regents to divide and apportion his gifts. The powers with which our glorified lives are to feed and clothe themselves are physical powers, but they are to be in use, as they are in creation, for us all. You may have been trained to give thought adequate expression. Speak, then, to us of the coming greatness of the world, and let not your words, like the garments of a doll, be cast about that which is, after all, only bran and rags. You may have had under consideration the rights of men and of classes, the laws by which we are united in communities and nations; then remember that there is but one perfect organization, the kingdom of heaven, in

which we are knit together by good will, and are all sharers in human and divine gifts. You may have been occupied in tracing the history of men. If so, then bear in mind that there is only one consummation which takes the sorrow and delay, the darkness and emptiness out of human efforts and brings them into the light of day, and that is the kingdom of heaven."

Rev. E. G. Updike of the First Congregational church, Rev. P. B. Knox of St. Patrick's, and Rev. F. A. Gilmore of the Unitarian church, and Rev. S. W. Trousdale assisted in the exercises. Gov. La Follette occupied a chair on the platform as did also Regents W. F. Vilas and L. S. Hanks and nearly the whole faculty. Three hymns were sung by the Congregational choir and a solo by Alexius Baas.

The only exercise on Monday was the concert given at Library Hall by the students of the School of Music, which was attended by an exceptionally large and enthusiastic audience. The program rendered was splendidly received and was highly creditable to the department.

The program was:

- Piano—Lieberstraum ..... Liszt  
Daisy Hansen.
- Vocal—Recitative and Aria—  
Hear Ye, Israel ..... Mendelssohn  
Lucile Comfort.
- Piano—Polka de le Reine ..... Raff  
Bertha Taylor.
- Vocal Quartet—The Bridal of the Birds...  
..... Brinley Richards  
Blanche Fridd, Ethel Moore, Emma  
Ketchpaw, Rose Wagner.
- Piano—Rigoletto ..... Verdi—Liszt  
Meta Wagner.
- Vocal—Siegmund's Leibeslind..... Wegner  
Alexius Baas.

- Piano—Ballade in A flat ..... Chopin  
     Donald Ferguson.  
 (a) Intermezzo—Flower of Mexico.  
 (b) Spring song ..... Mendelssohn  
     ..... Curti  
 Bach's Mandolin and Guitar Orchestra.  
 Vocal—Page's Song from Romeo and  
     Juliet ..... Gounod  
     Grace Woock.  
 Two pianos—Overture to William Tell..  
     ..... Rossini  
     Stella Kayser, Adelaide Otto.

Tuesday was class day, and was distinctly like all other class days, entertaining to the class and mildly interesting to the casual Commencement visitor. For some reason, not quite clear, functions which partake, even mildly, of a class character have come to be pretty tame affairs at Wisconsin. Perhaps it is because the touch of sentiment is so distinctly foreign to that spirit of utilitarianism which forms the dominant and increasing note in our present educational tendencies. When all our effort is to turn out men whose professional training is constantly more specialized, when it takes six years to make an engineer, and when the would-be lawyer must begin his professional studies while still an undergraduate in order to attain his chosen goal in the same time, what wonder that the passing senior whose four years have been given up to striving for a better equipment with which to "make his way in the world" fails to wax enthusiastic at the planting of a bit of ivy or the burning of a "pipe of peace." The key-note of a proper class spirit must always be a sentimental one, but sentiment is hardly to be expected as a development of present day educational tendencies.

The class of 1905 got through with the class day proceedings quite as well

as the average of its predecessors, and there is no reason for supposing that its rendering of the usual program in any way threatened the continuance of the custom.

The program was as follows:

- Ivy exercises, upper campus at 10 a. m., consisting of:  
 Address of welcome—Class president, Daniel W. Hoan, Waukesha.  
 Ivy oration—Ira B. Cross, Canton, Ill.  
 Ivy ode—Oral J. Shunk, Davenport, Ill.  
 Farewell address to the buildings—Adolph F. Meyer, Milwaukee.  
 Class day exercises, Library hall, 2:30 p. m., consisting of:  
 Class history—Miss Elizabeth B. Foley, Wauwatosa, and Reuben J. Neckerman, Madison.  
 Class poem—A. Berton Braley, Madison.  
 Class day oration—Thomas J. Mahon, Milwaukee.  
 Farewell to underclassmen—Eudora I. Cook, Lake Mills.  
 Response in behalf of juniors—Henry C. Duke, Madison.  
 Class statistics—Grace Wells, Aurora, Ill.  
 Presentation of class memorials—Jesse E. Higbee, La Crosse.  
 Farewell address to the faculty—Victor R. Griggs, Kewaunee, Ill.  
 Class prophecy—Miss Ellis J. Walker, Fond du Lac, and Edward S. Jordan, Merrill.  
 Class song—Miss Julia A. Cole, Milwaukee.  
 Farewell address—Daniel W. Hoan, Waukesha.  
 Class play—Jerome K. Jerome's "Miss Hobbs," Fuller Opera house, 8 p. m., cast as follows:  
 Wolf Kingsearl—Albert H. Johnstone, Merrimack.  
 Percival Kingsearl—Walter L. Darling, Milwaukee.  
 George Jessup—Donald MacGraw, Chipewa Falls.  
 Capt. Sands—Alfred G. Arvold, White-water.  
 Charles—Herbert F. Lindsay, Milwaukee.  
 Mrs. Percival Kingsearl—Cornelia L. Cooper, Madison.

Miss Millicent Farley — Harriet S. Pietsch, Baraboo.

Miss Susan Abbey—Grace V. Ellis, Bristol.

Miss Henrietta Hobbs — Agnes Walsh, Milwaukee.

Pipe of peace ceremony, lower campus, 11 p. m. Senior pipe of peace oration, Harold K. Weld, Elgin, Ill. Junior response, Walter Sprecher, Independence.

At the annual banquet of the Alumni association of the University of Wisconsin at the gymnasium on Wednesday afternoon, Dr. Bascom was presented with a silver loving cup by the alumni who were students between the years of 1874 to 1887 under his leadership and guidance. Dr. John M. Dodson, '80, of Chicago, in presenting the token declared that the students of Dr. Bascom thoroughly appreciated the deep sense of obligation which they felt for their great teacher and that the loving cup conveyed but poorly the feeling of gratitude which Dr. Bascom's students had toward him. On the loving cup was inscribed the following: "To John Bascom, president of the University of Wisconsin, 1874 to 1887, from his students. Presented in loving appreciation of the inspiring instruction and lofty ideals of a great teacher."

Some 250 alumni, among whom were men of national renown, members of the legislature, university professors and graduating students, witnessed the ceremony. Notwithstanding the solemnity of the occasion and impressive sentiments which prevailed, when Dr. Bascom rose to accept the loving cup the audience burst into cheers and a mighty "U! Rah! Rah!" was given.

A spirit of progress, good will and satisfaction was the keynote of the re-

sponse to the toasts. Howard L. Smith, '80, acted as toastmaster and in introducing President Van Hise he said that the executive of the University would speak on a subject that was nearest his heart—The University. In responding to the toast President Van Hise reviewed the progress which the University made during the current year, calling attention to the important step that was taken in promoting the most cordial relations between the University and colleges and the normal schools of the state and of the signal honor the Wisconsin institution received in being accredited by Oxford University. In referring to the liberal appropriation of the Legislature President Van Hise said:

"I believe that this legislation, both for liberality and wisdom surpasses any previous legislation which has been made in favor of any state university. It furnishes the conclusive evidence of the service of the University to the state, of the confidence of the legislature in the University, and speaks in highest terms of the courage and breadth of view of the legislators. I believe that this legislation marks an epoch in the development of the University. Now that the legislators have done their part, if those to whom is entrusted the direct management of the University, do equally well, this University will do the work in the state and the nation to commensurate with its magnificent opportunity."

Dr. Bascom spoke on the Perils of Prosperity. The other speakers included Hon. Pliny Norcross, who entered the University in 1860, as one of that memorable class of which Senator John C. Spooner, Judges Silverthorn and Griswold, Bishop Fallows, Rev-

erend Jos. Bull, J. L. High and others were members; Reverend H. H. Jacobs, '93, of Milwaukee; Moses E. Clapp, '73; Magnus Swenson, '80, and Prof. E. J. Turner, '84. Dr. Butler delivered the prayer. A feature of the program was the singing by the audience under the leadership of Professor J. E. Olson.

At the annual business meeting of the Alumni Association, following the dinner, officers were elected as follows:

President—J. B. Winslow, '75, Madison.

Vice president—Florence Doty Freeman, '79, Hinsdale, Ill.

Recording secretary — J. M. Nelson, '92, Madison.

Executive committee for two years—D. B. Frankenburger, '69; Magnus Swenson, '80, and C. N. Brown, '81, all of Madison.

Decision as to possible changes in the life membership feature of the association was left to the committee.

Thursday was, as usual, Commencement day. The regular Commence-

ment address was by Carl Schurz, who shared with Dr. Bascom the honors of the fifty-second Wisconsin Commencement. The program of the day was as follows:

University procession, upper campus, 9 a. m.

Commencement exercises, armory hall, 9:30 a. m., consisting of orations:

The Inevitable Conflict, Grover G. Huebner, Manitowoc.

The Reign of Materialism, Harold L. Geisse, Chilton.

Economic Justice, Emil Olbrich, Harvard, Ill.

On a Certain Condescension in College Men, Max Loeb, Appleton.

Our Mothers, Alfred G. Arvold, White-water.

The Natural Monopoly, William J. Hagenah, Madison.

Address to members of the graduating class, Carl Schurz.

Conferring of degrees.

Address to graduates, President Charles R. Van Hise.

Reception to alumni and other friends of the University, by President and Mrs. Van Hise, at president's house, 4 to 6 p. m.

Alumni reception and ball, armory hall, 8 p. m.

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## Chemical Engineering Department

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In direct response to the frequent and ever increasing demand by the management of large industrial enterprises for men with special training in both chemical and engineering work, the University is providing a department of chemical engineering which will be open to students in September. The new course which will be given by the College of Engineering provides for thorough training in the several

branches of chemistry that are of particular importance in commercial work, together with those engineering subjects that are necessary for the chemical engineer. Hitherto it has been impossible for the College of Engineering to meet adequately this frequent demand for men thus technically trained for positions of responsibility in important industries, such as the manufacture of gas, paper, cement,

beet sugar, and other products, involving a practical knowledge of both chemical and engineering subjects.

The great future which this line of work offers because of the latent possibilities of development in many industries, together with the assurance of lucrative positions to those who have received the training, will doubtless attract many students to the new course. In fact soon after the desirability of such a course was discussed before the legislature last winter in connection with the University appropriation, inquiries were received, and recently since informal announcement has been made of the proposed establishment, a number of applications for enrollment in it have been received from upper classmen and graduates of the College of Engineering.

Those who find the development of the United States an engrossing study cannot fail to have noted within quite recent years an extraordinary growth in chemical industries of all kinds. For many years Germany has been an acknowledged leader along such lines, while this country has occupied a position of only minor importance. Conditions are now reversed, and today chemical engineering is reaching its best and highest development in the United States where its ramifications are such that it has come to be almost an absolute necessity that an engineer, be he civil, mechanical, electrical, should know more or less of chemistry; while he who places special emphasis upon technical chemistry has become that new industrial factor, the chemical engineer. Today he is the man who is needed wherever important problems in industrial chemistry are under consideration, and it is to

the ultimate solution of these that he is expected to bring the results of his technical training and scientific study.

Perhaps there is no more insistent call for chemical engineers than that which comes from the maker of illuminating and fuel gas. Already several of the largest gas companies in the country have asked for the privilege of having the first men specializing in the new department at the University, and the demand from this one industry alone will, beyond doubt, be greater than can be met by that institution for some time to come. It might be supposed that the manufacture of gas had been continued long enough to have reached a satisfactory stage approaching perfection, but while it is true that the use of gas for fuel and light antedates that of electricity by about a century, it has by no means reached the stage of development attained by the last named industry. This is due, in large measure, to an acknowledged lack of technically trained men. It is a fact generally recognized that gas plants seldom if ever reached their greatest capacity or best possible service, while the problems of a more lucrative maintenance through a utilization of tar, ammonia, and other by-products are so far reaching in their possibilities that an ambitious student bringing to their consideration the results of special training can scarcely fail to find ample opportunity for individual progress.

The manufacture of cement is another industry which is calling loudly for the services of the chemical engineer. Today the manufacture of cement ranks close in point of importance to that of iron and steel in the list of the country's industries, but in this



state, strangely enough, though the soil teems with materials awaiting transformation not only into cement but into the allied products of brick, tiles, glass, and pottery, it has not been extensively developed. Under the direction of competent men the manufacture of cement is bound to increase very rapidly for cement is rapidly replacing stone and steel in all fields of construction, most notable of which is probably that of new reinforced concrete now just being developed.

Another call for chemical engineers comes from the manufacturers of fertilizers, whose business is in many respects one of the most important industries of the day. It is moreover one that will continue to expand as the necessity of replenishing barren and over-taxed soil becomes more and more insistent. Europe long ago recognized the need of maintaining a proper supply of crude material for the nourishment of plant life, and while conditions in this country are fortunately not strictly analogous, agriculturists are everywhere awaking to the wisdom of constantly enriching the soil from which they derive their support. In ten years the manufacture of fertilizing agents in this country has increased over fifty per cent., and it is safe to say that this ratio will be increased rather than diminished in the next decade. Now, whether such fertilizers are made of phosphate rocks, from blast furnace slag, from the constituents of the air, or from animal or vegetable material, certain technical problems are involved, and these are of the sort which require not only a knowledge of chemistry in itself, but of engineering skill in its widest application.

The development of the beet sugar industry in Wisconsin supplies a local field of exceptional promise for the chemical engineer. In an address not long ago Regent Swenson, a graduate of the mechanical engineering course of the University in the class of '80, who has won high rank as a chemical engineer of national prominence, pointed out the somewhat surprising fact that while the United States is consuming four billions of pounds of sugar annually, its production is only ten per cent. of the total, the other ninety per cent. being imported. The figures are suggestive from the standpoint of both the manufacturer and the farmer, and a keener realization of their meaning is undoubtedly what is leading to the rapid growth of the beet sugar industry of Wisconsin. This growth has not been unaccompanied by certain perplexing problems and the chemical engineer who shall discover new and better processes for extracting all possible sugar from the beet will have no need to ask for kinder fortune.

The paper making industry has special need of the chemical engineer. There seems to be but little doubt that the denudation of a country's forests has a direct influence upon its climatic conditions, and state and national governments are even now taking steps to ensure against the woodlands being ruthlessly laid to further waste. Hence, the paper maker who has been cutting down trees to produce pulp for his product must find new materials, and in his search chemistry must aid him. The straw of flax, wheat and other grains, the grassy growth of the marshes, all, it is safe to say, can be made to yield the cellulose now ob-

tained from trees, and it will be the special province of the chemical engineer to discover how this may best be done.

Still another field for the exercise of the chemical engineer's energies lies in the scientific solution of sanitary problems, such as the purification of water and air supplies and the disposal of sewage, problems of increasing importance to large and growing municipalities.

It can be seen readily enough that such problems as those suggested require for their solution more than a mere makeshift knowledge. To them must be brought the brain specially trained not only in the fundamental principles of chemistry, but in those of engineering. The student who would approach them in the hope of achieving success must have a knowledge of chemistry,—organic, inorganic, analytical, and physical,—and he must also be versed in mechanics and engineering so that when he has analyzed his problem along the purely scientific side, he may proceed to handle it on a scale sufficiently large and economically perfect to make his discovery of utilitarian worth.

To equip a student thoroughly for such work will be the aim of the new department, and the wisdom of its projectors is shown by the fact that the course offered will cover five instead of the usual four years of study. This will give time for a thorough grounding in certain strictly essential basic studies and is in accordance with the educational spirit which has lengthened the time of preparation in other professions, such as those of law and medicine. The course will cover work in mathematics, physics, mechanics, steam

and electrical engineering, hydraulics, thermo-dynamics, and shop work, together with a course in chemistry extending throughout the entire five years. In addition to these fundamental and basal studies during the fourth and fifth years it will be possible for the student to specialize in manufacturing chemistry and a considerable portion of the time will be given to research and investigation. Ability to carry on independent investigation of new problems and processes is an essential part of chemical engineer's equipment, and the two-fold purpose of giving this training is to develop investigative and inventive ability, and also to obtain results from investigations which will be of value to the public.

The equipment of the laboratory which is partly installed and which is being added to as rapidly as possible, provides means for carrying out on a fairly large scale many chemical processes, such as the bleaching of fibres, purification of salt, refining of metals, destructive distillation. A small gas plant is to be installed, complete in all details, and by means of which the various details of gas manufacture can be studied.

The determination of the heat units in coal, coke, gas, oils, and other fuels, and the analysis of these materials constitutes an important part of the work, and a gas and fuel laboratory contains calorimeters, pyrometers, meters and many other forms of apparatus necessary for a complete industrial as well as scientific laboratory.

The supervision of the work in the chemical engineering department is to be in charge of Prof. C. F. Burgess, whose investigations in chemical and

electrochemical lines have brought him recognition in engineering and scientific circles, and who was the recipient of a grant of \$2,500 per year from the Carnegie Institution of Washington to further the investigation and production of chemically pure iron. Prof. O. W. Brown, recently in charge of

applied chemistry work at the University of Indiana, and a man of considerable practical experience in industrial work, is to have charge of certain branches of chemical technology in this new course, and other appointments are to be announced later.

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## To Improve Wisconsin Tobacco

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The results of the experiments in tobacco raising, carried on during the past two years by the University Experiment Station, indicate great possibilities in the way of improving the quality of Wisconsin tobacco. Since Wisconsin is one of the leading tobacco growing states in the Union and is annually producing a crop estimated at over \$4,000,000, successful efforts to improve this tobacco product will prove of great value to the state. For nearly half a century this industry has been developing slowly but steadily, practically without state aid. While great progress has been made by the individual grower in producing high grade tobacco, there have been a number of unsolved problems which vitally concern the future of tobacco growing in this state. It was with the purpose of investigating these problems that the State University Experiment Station was granted, by the last legislature, \$3,000 for two years, and with this appropriation has been conducting the investigations, the first results of which are now being published.

After numerous inquiries as to the status of the tobacco growing industry,

and after consulting with growers and dealers, Professor E. P. Sandsten of the department of horticulture of the College of Agriculture decided to undertake several lines of investigation, the purposes of which were as follows: First, to improve Wisconsin tobacco seed so as to increase the yield, and improve the quality and early maturity of the tobacco; second, to carry on a series of experiments with different commercial fertilizers in various counties of the state, and to study the effect of these fertilizers upon the burning quality of the leaf; third, to test the value of cover crops in connection with the growing of tobacco; and fourth, to ascertain the adaptability of Wisconsin soils and climate for the production of shade-grown Sumatra tobacco with special reference to the cost of production and quality of the product.

The most serious complaint against Wisconsin tobacco by buyers is its lack of uniformity. This is due to the fact that a number of varieties or strains of tobacco are grown, producing a mixed lot varying greatly in quality and value. This state of affairs is detrimental financially, both to the

grower and to the dealer. The need of selecting a pure strain of tobacco seed that would produce a satisfactory yield to the grower and a desirable quality for the buyer was at once apparent. After looking about for some time for a variety that would nearest fulfill the requirements for a typical Wisconsin tobacco, and after consulting with several of the leading tobacco dealers, a pure strain of Connecticut Havana seed leaf, Wisconsin grown, was selected, and enough seed was procured to plant one acre. Just before blooming time the field was carefully gone over and more than one-half of the plants that did not come up to the standard were destroyed, leaving only those plants presenting the highest type to mature their seed. About seventy pounds of tobacco seed was harvested from this field, the greater part of which seed was put up in two and three-ounce packages and distributed by the University Station to the tobacco-growers in various sections of the state for trial, free of charge. The reports received from these growers last fall were very gratifying and the expectations entertained in regard to this seed by the University Experiment Station were fully realized.

During the past season the work of improving the seed has been continued and two acres were planted from this seed, one acre in Rock county, and one in Crawford county. The seed from these two acres was harvested under very favorable conditions; it has been thoroughly tested for purity and germinating power, and has been distributed among tobacco growers for the present season. It is the aim of the Experiment Station to bring the seed to the notice of every tobacco

grower in the state and to give them an opportunity to test it under their own conditions. If this strain of tobacco seed should prove acceptable to the growers of the state, as well as to the buyers, it would greatly increase the value of the crop and help to establish a higher reputation for Wisconsin tobacco outside of the state.

During the last season twenty-five varieties of tobacco were grown at the Experiment Station to study the various types of tobacco for breeding purposes. Over twenty-five crosses between these different varieties were made and the seeds saved for planting this year. This work was undertaken with the idea of producing, if possible, by pure breeding and selection, a new variety or varieties of tobacco that would further increase the yield and improve the quality. Professor Sandsten believes that we have not yet found an ideal variety of tobacco for Wisconsin.

The principal reason why Wisconsin tobacco has attained such high reputation for burning quality is undoubtedly due to the presence of the large amount of humus, or vegetable matter, in the soil. When the humus becomes exhausted, the tobacco leaves begin to lose many of their desirable qualities, especially their burning quality. During the last year experiments were conducted in several parts of the state with commercial fertilizers on small areas to test their effect upon the burning quality of the leaf. The results of these experiments go to show that potash, when used in large quantities on land poor in humus, does affect the burning quality. Nitrogen in the form of nitrate of soda seems to have little or no detrimental effect. The same is

true with phosphoric acid. On land fairly rich in humus a liberal application of these fertilizers has shown no injurious effect upon the burning quality. If the use of commercial fertilizers becomes a necessity, as it undoubtedly will in the future, these facts are of great importance. No evil results should be experienced if the growers adopted some system of rotation or the use of a cover crop, since these methods would supply the soil with sufficient humus to produce a good crop. There is no doubt but that land given up to tobacco growing for a number of years with the use of commercial fertilizers, and without any addition of barn-yard manure, will produce a tobacco that is inferior in burning quality. The Wisconsin growers have not as yet experienced any bad result from this practice, since ordinarily our lands are rich in humus, and commercial fertilizers have been used only to a very limited extent, but with the increased acreage for production and with a more equal distribution of barn-yard manure to the other farm crops, the tendency will be towards the use of commercial fertilizers on a larger scale.

In planning tobacco experiments, it occurred to Professor Sandsten that cover crops might be used as a means of partially maintaining the fertility of the tobacco lands and improving the physical condition of the soil. With this end in view cover crop experiments were started at each place where fertilizer experiments were being carried on. The crop used for this purpose was a hairy vetch, a plant belonging to the legume family and perfectly hardy. It was sown the last week in July, at the time when the tobacco

plants were cultivated for the last time, and an examination of the fields in November of this year showed that the vetch had completely covered the soil where the tobacco stood. Being hardy, the plant will keep on growing until stopped by a heavy frost and, after remaining green during the entire winter, will start to grow again early in the spring, forming a dense mat of green herbage, which can be plowed under in time to use the land for another crop of tobacco. Not only does this plant furnish protection for the soil during the winter and yield a large amount of vegetable matter, thus improving the physical condition of the soil, but like other legumes, it is capable of assimilating atmospheric nitrogen, by the aid of bacteria which live on the root, and which make it available for the plant, thus being a soil improver and fertilizer at the same time. If this experiment should prove a success, it will be a means by which the tobacco grower can supply a large portion of nitrogen that is needed by this crop, in a very inexpensive way.

In order to study the adaptability of Wisconsin soil and climate for the production of shade-grown Sumatra tobacco, arrangements were made in the spring of 1903 with Mr. S. B. Heddles at Janesville to carry on some experiments on his two-acre plantation of shade-grown Sumatra. The work was in charge of Professor Sandsten, and an assistant was stationed with Mr. Heddles to aid in the work of growing the crop and to keep a detailed account of the work. The Sumatra tobacco was grown under a huge tent which covered two acres and looked very much like a flat circus tent with sloping sides. The cloth is very thin, per-

mitting the air, rain and sunshine to pass through it freely. Cedar posts were used in the construction of this tent and frame-work was put up as stable and straight as possible. This shade-grown tobacco received most thorough cultivation and care, and each plant was given individual attention. The plants grew to a height of nine to ten feet and filled the tent completely, often pushing the cloth upward.

The development of this shade-grown Sumatra industry in Wisconsin will depend, of course, upon the market and the price obtained for the product. The shade-grown Sumatra tobacco raised in these experiments sold from \$2.00 to \$0.50 a pound, thus averaging a little less than \$1.25 a pound. The total yield after fermentation from

two acres for two years was 4,424 pounds. The entire cost of constructing the tent and of cultivating the two acres during the two years was \$3,395.03, and the price received for the tobacco was \$5,076.30, leaving a net profit of \$1,681.27. This would make an annual net profit of \$420.32 an acre.

During the last year one-sixth of an acre was devoted to shade-grown Sumatra at Soldiers Grove, Crawford county, as it was thought that the soil condition in that section of the state was more favorable for the development of a high quality of leaves. This experiment was a success in every respect. The stand of tobacco was excellent, and was harvested and cured under favorable conditions.

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## News

### Progress of the University

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#### New Faculty Appointments.

The regents of the University at the June meeting made several new appointments and a number of promotions of members of the faculty of the University. In the department of philosophy and education, a professor of philosophy and an associate professor were provided to take the place left vacant last year by the resignation of Professor J. W. Stearns. A new professorship of zoology and an associate professorship of physiology were established to meet the demand of the increasing numbers of students in these fields, and to relieve Dean Birge of the College of Letters and Science. The other new positions created consist of a professorship of European history and an assistant professorship of

rhetoric and oratory. Provision was made for a course in forestry, to be given by Mr. H. M. Griffith, state forester, who was appointed lecturer in forestry. Besides the appointments and the recommendations of the president, the regents considered the details of the annual budget for the University.

The list of new appointments and promotions in the several colleges is as follows:

#### COLLEGE OF LETTERS AND SCIENCE.

##### *New Appointments.*

Professor of philosophy—Evander B. McGilvary, A. M. Princeton; Ph. D. California, formerly assistant professor of philosophy at the University of California; now Sage professor of moral philosophy at Cornell.

Professor of European history—Alfred L. P. Dennis, A. B. Princeton; Ph. D. Columbia; formerly professor of history and political science at Bowdoin; now associate professor of European history at the University of Chicago; lecturer in European history at Harvard first semester, 1905-6. Appointment to take effect July 1, 1906.

Associate professor of education—Edward C. Elliott, B. S. Nebraska; Ph. D. Columbia; formerly superintendent of schools of Leadville, Colo.; now instructor in Teachers' College, Columbia University.

Assistant professor of rhetoric and oratory—Rollo Lu Verne Lyman, A. B. Beloit; now instructor in English and public speaking at Harvard.

#### *Promotions to Professorships.*

Professor of ethics—Frank C. Sharp, A. B. Amherst; Ph. D. University of Berlin; now associate professor of philosophy.

Professor of commerce—D. Earle Burchell; A. B. Columbia University; now assistant professor of business administration.

Professor of physics—Charles E. Mendenhall, B. S. Rose Polytechnic; Ph. D. Johns Hopkins University; now associate professor of physics.

#### *Promotions to Assistant Professorships.*

Assistant professor of English—Willard G. Bleyer, B. L., M. L., Ph. D., University of Wisconsin.

Assistant professor of German—M. Blake-more Evans, A. B. Boston; A. M., Ph. D. University of Bonn.

Assistant professor of history—George C. Sellery, A. B. Toronto; Ph. D. University of Chicago.

Assistant professor of physics—Albert H. Taylor, B. S. Northwestern University.

Assistant professor of political economy—Henry C. Taylor, B. S. Iowa Agricultural College; Ph. D. University of Wisconsin.

#### *Instructors.*

Lecturer in political science—Charles McCarthy, A. B. Brown University; Ph. D. University of Wisconsin; now Librarian of Department of State Documents.

Education—Walter F. Dearborn, A. B.,

A. M. Wesleyan; now fellow Teachers' College, Columbia.

History—Edwin W. Pahlow, B. L. University of Wisconsin; Ph. D. Columbia. David L. Patterson, B. S. Pennsylvania State College; now fellow in history at University.

German—John L. Kind, A. B. University of Nebraska; Ph. D. Columbia. John F. Haussman, A. B. University of Michigan; A. M. University of Wisconsin; now assistant in German.

Mathematics—R. S. Peotter, B. S. University of Wisconsin. R. A. Moritz, B. S., M. A. University of Wisconsin.

Physics—Leonard R. Ingersoll, B. S. Colorado College, now fellow in physics.

Chemistry—Roy D. Hall, B. S., M. S. University of Wisconsin; Ph. D. University of Pennsylvania. Fred L. Shinn, B. S. Indiana. Harry B. North, Ph. G., B. S. University of Wisconsin, now assistant. Edgar B. Hutchins, B. S. Ottawa; M. S., Ph. D. University of Wisconsin.

Gymnastics—Elizabeth Bass, A. B. Wellesley, Graduate Boston Normal School of Gymnastics.

Political Economy—Stephen W. Gilman, LL. B. University of Wisconsin, now assistant.

English—Frances C. Berkeley, A. B. Barnard; A. M. Columbia; now instructor in English at Mt. Holyoke. Edwin C. Wolley, A. B. Chicago; Ph. D. Columbia; now instructor in English at Ohio Wesleyan. Frederick W. Roe, A. B. Wesleyan. William W. Neidig, A. B. Stanford, formerly instructor in English at Stanford.

#### *Assistants.*

Anatomy—David A. Crawford, B. A. Wisconsin.

Botany—Ruth F. Allen, B. S. Wisconsin.

German—G. Lehmann, University of Leipzig, now instructor at University of Indiana. F. W. Oswald, A. B., Cornell, now fellow in German at Cornell.

Political Economy—Ralph H. Hess, B. S., Colorado College.

Physics—Willibald Weniger, B. A., University of Wisconsin; R. A. Wetzler, B. S., University of Minnesota; W. E. Wicken-den, B. S., Dennison University; Elmer H.

Williams, B. A.; University of Wisconsin; Archie S. Worthing, University of Wisconsin; Vernon A. Suydam, B. L., University of Wisconsin; V. P. Spence, A. B., Northwestern University.

Zoology—A. B. Clawson, B. S., M. S., University of Michigan.

#### COLLEGE OF ENGINEERING.

##### *Promotions.*

Professor of electrical engineering—Charles F. Burgess, B. S., E. E., University of Wisconsin, now associate professor.

Associate professor of topographic and geodetic engineering—Leonard S. Smith, B. C. E., C. E., University of Wisconsin, now assistant professor.

Assistant professor of mechanics—Herbert F. Moore, B. S., New Hampshire College, M. E., M. M. E., Cornell, now instructor.

##### *Instructors.*

Mechanics—M. O. Withey, C. E. Thayer Graduate School of Civil Engineering.

Mechanical drawing—E. S. Moles, B. S., University of Wisconsin; John E. Boynton, B. S., University of Wisconsin.

Topographical engineering—Ray Owen, B. S., University of Wisconsin.

Hydraulic engineering—Charles J. Davis, C. E., Cornell University.

Electrical engineering—Frank J. Petura, B. S., University of Wisconsin; George G. Post, B. S., University of Wisconsin, now assistant; John C. Potter, B. S., University of Wisconsin, now assistant.

##### *Assistant.*

Civil Engineering—R. F. Ewald, B. S., University of Wisconsin.

#### COLLEGE OF LAW.

##### *Promotions.*

Assistant professor of law—Hugo C. Horack, Ph. B., University of Iowa; LL. B., Harvard, now instructor.

#### COLLEGE OF AGRICULTURE.

##### *Promotions.*

Professor of agronomy—Ransom A. Moore, now assistant professor.

Assistant professor of agricultural bacteriology—Edwin G. Hastings, B. S., Ohio State University; M. S., University of Wisconsin, now instructor.

#### Chosen to Phi Beta Kappa.

The results of the annual election of juniors and seniors to the honorary society of Phi Beta Kappa were announced at the close of the year. Fourteen seniors and seven juniors are annually chosen by this Society because of their scholarship, prominence in University affairs, and general ability. Those selected this year were, seniors: Daisy M. Allen, Allenville; Willis P. Colburn, Cassville; David A. Crawford, Madison; Edmund C. Harder, Milwaukee; Grover G. Huebner, Manitowoc; Leon B. Lamfrom, Milwaukee; Karen Larsen, Decorah, Iowa; Max Loeb, Appleton; Emil Olbrich, Harvard, Ill.; Edwin F. Rathjen, Milwaukee; Rose M. Wagner, Menasha; Agnes Walsh, Milwaukee; Harry E. Wheelock, South Bend, Ind.; and Leta M. Wilson, Boscobel. Juniors: Merrill H. Crissey, Janesville; Kate G. Grant, Milwaukee; Victor H. Kadish, Milwaukee; Marion E. Ryan, Wausau; Peter H. Schram, Madison; Lily R. Taylor, Madison; Martha L. Washburn, Sturgeon Bay.

#### Albert O. Trostel Prize Fund for Oratory.

Mr. Albert O. Trostel, the well-known tanner of Milwaukee, has presented the University of Wisconsin with a fund of \$500, with which to establish prizes for the encouragement of intercollegiate oratory and debate. The sum of \$100 will be given annually in the form of medals or other prizes for those representing the University in intercollegiate oratorical and debating contests. The first award was made at the close of the last collegiate year, when medals were given to William J.



Hagenah, Madison, Eben R. Minahan, Green Bay, Michael B. Olbrich, Harvard, Ill., members of last year's successful debating team against the University of Michigan; and to Ira B. Cross, Canton, Ill., Rolland C. Allen, Dayton, Max Loeb, Appleton, members of this year's team. Medals for oratory were presented to Henry C. Duke, Wisconsin's representative in the intercollegiate contest last year, and Max Loeb of Appleton, who won the Northern Oratorical League Contest for Wisconsin this year. This is the third gift of the kind that the University has received this year, Mr. Halle Steensland of Madison having provided \$100 a year for three years for prizes for extemporaneous debate and original essays and orations; and a number of prominent Milwaukeeans having established a \$100 annual prize for five years to be awarded to the winner of the University oratorical contest.

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### Chadbourne Hall Opened to Summer Session Students.

The opening of Chadbourne Hall to the women attending the University Summer Session this year, on practically the same conditions as during the regular college year, is an important innovation. In addition board is being furnished for both men and women. The young women occupying rooms in the Hall are under the immediate

charge of the mistress of the Hall. The arrangements which have been made for conversation in French and German, special tables being set apart for those who wish to converse in these languages, are much appreciated by the summer students. Competent instructors are furnished who take the lead in conversation, one leader for each five or six students. A large number of students have taken advantage of the new arrangement.

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### Professor Zimmerman Resigns.

The resignation of Professor Oliver B. Zimmerman, assistant professor of machine design in the College of Engineering, was received shortly before commencement. Mr. Zimmerman leaves to accept a more lucrative position as mechanical engineer and assistant superintendent of the R. J. Schwab & Sons Company of Milwaukee. He is interested in the new concrete construction and will take charge of the development of special machinery for use in that work.

Mr. Zimmerman was graduated from the College of Engineering in 1896, and received the degree of mechanical engineer in 1900. Professor Zimmerman, who is a son of Principal C. F. A. Zimmerman of the 17th district school, Milwaukee, was prepared for college at the East Division High School, and for several years was instructor in manual training at the West Division School, Milwaukee. Since 1900 he has been teaching at the University.

## Daily Calendar

This department is conducted by L. W. Bridgman, '06.

## MAY.

Saturday, 6.—Alpha Phi sorority purchased lot at corner of Sterling Court and Irving Place for new chapter house.—Erection of Phi Delta Theta's \$20,000 chapter house on Lake street began.—L. H. Turner, '05, read paper before International club.—Y. W. C. A. had annual senior spread.

Sunday, 7.—Annual sacred concert under auspices of Y. M. C. A. and Y. W. C. A. held at Library hall.—Geological party returned from trip to Minnesota and northern Michigan.

Monday, 8.—Nineteen members of crew and track teams sent to training table.—Doton Shattuck, ex-'07, died at Medford.—Prof. Louis Kahlenberg lectured in German on "Die Rolle des Kohlenstoffs in der Chemie."—Date made for football game with Lawrence University for October 7.—Dr. F. W. Meisnest, instructor in German, gave address at Schiller celebration at Turner hall.

Tuesday, 9.—Fifteen hundred students honored Max Loeb, '05, winner of Northern Oratorical League contest, with celebration on library terrace. Speeches by Gov. La Follette, President Van Hise and Prof. Frankenburg, and oration delivered by Loeb.—Centenary of death of Schiller celebrated by Germanistische Gesellschaft. Addresses by Prof. W. H. Carruth of University of Kansas on "Schiller in America," and Prof. E. J. K. Voss on "Schiller's Vermaechtniss."—Under auspices of Madison Art Association Dr. A. R. Anderson of Greek department lectured on "Hellenistic Art."—Athenae passed resolutions on death of Doton Shattuck.—New shell built by John Hoyle at Ithaca, arrived safely.

Wednesday, 10.—Concert given by Choral Union, assisted by Madison Maennerchor and the Mozart club, Madame Lillian Blauvelt, soprano, and Mr. W. E. Zeuck, organist.—Baseball at Camp Randall, Wisconsin

postponed, rain.—Class day program announced.—Second freshman crew formed.—Faculty chose 13 fellows and 11 graduate students for ensuing year.—Phi Delta Phi legal fraternity, initiated five junior laws: Stephen J. Cowley, Clarence Grace, Russell P. Fischer, Ira Lorenz, and Lynn Smith.—Last meeting of Russian-Japanese club held at Chadbourne hall.—Prof. Ettore Pais of University of Naples lectured on "The Naples Museum."—English club met with Prof. J. C. Freeman. Prof. F. G. Hubbard discussed Bernard Shaw's "A Man of Destiny," and Prof. H. B. Lathrop discussed "Captain Brasshound's Conversion," by same author.

Thursday, 11.—Prof. D. B. Frankenburg announced names of commencement orators as follows: Grover Huebner of Manitowoc, Harold L. Geisse, of Chilton; Emil Olbrich, of Harvard, Ill.; Max Loeb of Chicago, Ill.; Alfred G. Arvold of White-water, William J. Hagenah of Madison, and William G. Hamilton of Madison. Hagenah and Hamilton will be representatives of College of Law.—Nora Samlag commemorate establishment of constitutional liberty in Norway, May, 1814.—C. D. Hurrey of Chicago spoke to Y. M. C. A.—University Co-operative company at 11th annual meeting declared to all stockholders a dividend of 10 per cent. in cash or of 13 per cent. in trade.

Friday, 12.—Officers of Oratorical Association for ensuing year elected as follows: president, Bessie E. Adams, Castalia; first vice-president, Edna Koch, Pythia; second vice-president, Ralph Hetzel, Hesperia; third vice-president, Mark Kline, Forum; fourth vice-president, G. Jones, Columbia; secretary, C. B. Kuhlman, Philomathia; corresponding secretary, George S. McConochie, Athenae; treasurer, Peter F. Brey, Olympia.—Philomathia held freshman blowout debates. Semi-public men elected as follows: W. F. Hannan, E. F. Gruhl,

Roland Roehr, John Collins, and as closers Edgar E. Robinson and W. M. Leiserson.—Company D, Henry C. Duke, captain, won final competitive drill against Company B, George C. Ray, captain. Sergeant Edward Fredrichs of Co. D, winner of individual contest.—Baseball at Ann Arbor: Michigan 4, Wisconsin 3.—Justice J. B. Winslow, '75, of Wisconsin supreme court, gave lecture on life and character of Edward G. Ryan, former chief justice of state supreme court, at Library hall as final number of lecture course.—Superiority of new shell demonstrated on its first trial on the water.—Football game secured with Chicago, to occur at Camp Randall Oct. 21.

Saturday, 13.—Wisconsin defeated Michigan's baseball team at Ann Arbor, 3 to 1.—Chicago defeated Wisconsin track team at Chicago.—250 couples attended naval ball at gymnasium for benefit of crews.—36 geology students with 17 from Northwestern University, returned from annual trip to Baraboo and vicinity.

Sunday, 14.—Frank L. Waller, '07, of Menomonie, elected captain of track team in place of Breikreutz, withdrawn from school.—Elections to editorial board of Sphinx made as follows: F. W. MacKenzie, '06, editor; A. B. Schuster, '07, assistant editor; Arthur H. Hatton, '07, art editor; A. B. Dean, '05, business manager; Ralph Hetzel, '06, assistant business manager.—William T. Walsh, '06, of Dubuque, Ia., elected editor of Wisconsin Literary Magazine.—Last meeting of bird class, conducted by Prof. O. B. Zimmerman, assembled at Main hall at 5:30 a. m.

Monday, 15.—Annual elections to Phi Beta Kappa announced; 14 seniors and 7 juniors.—Concert given at Unitarian church by Miss Olivia Dahl, assisted by Mrs. Inga Sandberg of school of music.—Max Loeb, '05, delivered his winning oration, "Idols and Ideals," before legislature in special evening session, at request of that body.—Annual tennis tournament began.—Lecture in German by Prof. Louis Kahlenberg on "Die Bedeutung der Kreselsaeure im Haushalte der Natur."—Crews had narrow escape from swamping during sudden storm.—Classical club met with Prof. M. S. Slaughter. Subject: "Mycenaean Art."

Tuesday, 16.—M. C. Whittaker, general superintendent of the American Welsbach company, spoke before Chemical club on subject of incandescent gas lighting.—The Nora Samlag picnicked at Esther Beach.

Wednesday, 17.—Baseball team won third of the series of games with Chicago at Marshall Field; score 12 to 2.—Third class recital in elocution given in Library hall under direction of Miss Lamont, instructor in elocution.—Chemical club gave dinner at Keeley's.

Thursday, 18.—Prof. M. H. Robinson of University of Illinois lectured on "The Regulation of Railways."—Miss Abby S. Mayhew, assistant professor of physical culture, lectured on "Correct Dress" to women of the University.—Dr. U. B. Phillips gave illustrated lecture on "The Strength and Weakness of the South in 1860."—Science club program: "The Influence of the Lakes on Local Temperature in Madison" by J. L. Bartlett, observer weather bureau; "The Underflow of the Arkansas River" by Prof. C. S. Slichter. Officers for next year elected as follows: President, Prof. Louis Kahlenberg, physical chemistry; vice-president, Prof. Charles K. Leith, economics and structural geology; secretary and treasurer, Prof. Richard Fischer, pharmacy.—Annual initiation banquet of Yellow Helmet society held at Sherlock hotel; 19 initiated.—Wisconsin defeated Notre Dame at baseball, score 3 to 2.—Convention of teachers of economics, history and political science of the state of Wisconsin held in Madison under the auspices of the Historical and Political Science club of the University.—Dean H. S. Richards returned from Washington, D. C., where he attended meeting of executive committee of American Law School Association.

Friday, 19.—Lawn fete held on Chadbourne hall grounds under auspices of Self-Government Association.—Prof. Edward D. Jones of University of Michigan, formerly of Wisconsin faculty, lectured on "The Cotton Growing Industry of the South."—U. W. Engineers' club held annual banquet at Capital house.—Prof. O. B. Zimmerman lectured on "The Wanderings of Our Birds" at annual meeting of State Audubon society at Unitarian church.—Baseball team

defeated Northwestern at Evanston, score 11 to 3.—Melvin club gave picnic and dance at Esther Beach.—Col. C. A. Curtis, commandant, announced following assignments of captains to list of cadet field officers for 1905-1906, determined according to rank in competitive drills: Henry C. Duke, colonel; George R. Ray, lieut. colonel; Perry C. Stroud, major 1st battalion; Richard A. Schmidt, major 2nd battalion.—Athenae held freshman blowout debates.—Prof. O. B. Zimmerman, '06, assistant professor of machine design, resigned to accept assistant superintendency of the R. J. Schwab & Sons company, Milwaukee.

Saturday, 20.—Steensland prize debate on question of credit taxation held at Library hall. First prize of \$40 awarded to Walter M. Atwood, Athenae; second prize, \$20, to John E. Baker, Athenae; third prize, \$10, to George F. Hannan, Philomathia.—International club held last meeting of year; Prof. A. B. Coffey, lecturer in education, spoke on "Our Country West of the Rockies."—Wisconsin baseball team downed Illinois at Urbana, score 2 to 1.—Organization of professors of history, political science and economics of the state, formed at home of Prof. F. J. Turner.

Monday, 22.—President Van Hise addressed all candidates for degrees at coming commencement.—Prof. Louis Kahlenberg gave lecture in German on the subject, "Ueber die Ursache der Loeslichkeit der Substanzen."—Address by Prof. Ettore Pais before Graduate club on "Italian Universities."—Cast for senior commencement play chosen, to include A. H. Johnstone, Walter G. Darling, Don W. MacGraw, A. G. Arvold, Herbert F. Lindsay, Marshal H. Pengra, Miss Cornelia Cooper, Miss Harriet Pietzsch, Miss Agnes Walsh.—Commencement program announced.—Athletic board passed resolution to grant a "W" to track athletes winning a point in the conference, or eight points in an outdoor dual meet in one season with either Chicago, Michigan or Illinois.—Varsity baseball team defeated a city team by score of 4 to 0.

Tuesday, 23.—Elections of 12 juniors to Iron Cross, honorary senior secret society, announced as follows: W. A. Bertke, J. I. Bush, Z. B. Kinsey, O. L. Kowalke, Max

Loeb, G. S. McConochie, F. W. MacKenzie, R. D. Hetzel, P. H. Schram, B. S. Pease, T. E. Van Meter, B. B. Burling.—Concert by student singers from University of Norway, under auspices of Professors Olson, Bull and Woll, held in gymnasium.—Evander B. McGilvary, late Sage professor of moral philosophy at Cornell University, accepted chair of philosophy.—Three companies of cadets participated in sham battle behind Main hall.

Wednesday, 24.—Wisconsin won baseball game with Beloit at Camp Randall; score, 4 to 3.—Germanistische Gesellschaft gave two plays, "Eigensinn," and "Der Prozess," in music lecture room, Library hall.—Prizes awarded for art work on 1906 Badger.—G. W. McClelland, '08, of Berlin, was awarded cadetship at West Point.

Thursday, 25.—University appropriation bill advanced to third reading and engrossment by state senate.—Awards determined for literary contributions to 1906 Badger.—Dr. J. C. Elsom gave illustrated lecture on "Games and Athletics of the Early Greeks," and E. D. Angell, instructor in gymnastics, read paper on "The Educational Value of Play" at meeting of State Physical Education society at Fond du Lac.—Albert O. Trostel of Milwaukee donated fund of \$500 to University for promotion of intercollegiate debating and oratory.—Prof. Alexander Smith of University of Chicago addressed Chemical club on "Recent Investigations of Various Kinds of Sulphur."—Complimentary concert given by University orchestra; Miss Margaret Daniel, soloist; Mr. Herman E. Owen, conductor.—Senior sing held on steps of library.—Commercial club elected Thomas R. Slagsvol, Eau Claire, president; Edwin H. Sackett, Fond du Lac, vice-president; Marshall Arnold, Peotone, Ill., secretary; H. Montgomery, Omaha, Neb., assistant secretary; Edmund B. Riley, Chippewa Falls, treasurer.—Annual election of officers of Y. M. C. A. resulted as follows: President, F. E. Johnson; vice-president, Lauritz Miller; treasurer, F. E. Fisher; assistant treasurer, C. A. Hoefler; recording secretary, J. C. Blankenagel.

Friday, 26.—University musical clubs gave 14th annual concert at Fuller opera house to audience of 800.—State inter-

scholastic declamatory contest held at Library hall; Charles C. Pearse of Dodgeville awarded first; Emma Shoemaker of Janesville second; Mary McNeil of Wausau third.—Commissions issued to commissioned officers of University regiment.—Olympia had annual banquet at Hotel Sherlock.—Wisconsin baseball team won second victory over Northwestern; score 3 to 2.—State senate advanced to third reading and engrossment the bill for annual appropriation of \$2,000 for maintenance of state hygienic laboratory at University, to be conducted in connection with state board of health.—Phi Alpha Delta, honorary law fraternity, held second annual banquet at Capital house; William J. Hagenah, '05, toastmaster.—Athenae's semi-public teams for next year selected as follows: Fred W. Dohmen, Obert Sletton, John D. Jones, Jr. (closer), and Homer H. Benton, Douglas E. Anderson, Raymond B. Frost (closer). Alfred H. Bushnodd of Lancaster was elected Junior Ex. orator.—Hesperia elected Eli S. Jedney of Blair, Junior Ex. orator.—Miss Dorothea A. Moll, '07, of Madison, won Castalian contest and will represent Castalia in Junior Ex. next year.—Thomas Joseph Palmer, '05, of Milton, died in Chicago after six weeks' illness; overwork.

Saturday, 27.—Eleventh annual inter-scholastic meet held at Camp Randall, won by Milwaukee East Division high school for third successive time, thus retaining the cup permanently.—Illinois baseball team defeated Wisconsin at Urbana; score 1 to 0.—Mile boat race won by second varsity; first freshman second; first varsity third; second freshman fourth.—State senate passed University appropriation bill.—Alfred L. Somers, Horace Secrist and Otto H. Breidenbach won Philomathian semi-public debate over Fred H. Esch, August C. Krey and Arthur H. Lambeck, on question of railroad pooling.—President Daniel Hoan of senior class appointed following committee to select a class memorial: Jesse Higby, chairman; Rolland C. Allen, David Bogue, John J. Moffatt, John F. Baker.

Monday, 29.—President and Mrs. Van Hise gave reception to candidates for degrees at coming commencement.—Annual banquet of Philomathia held at Capital house, Peter H. Schram, toastmaster.

Tuesday, 30.—Legal holiday; classes suspended.—Memorial address at Forest Hill cemetery given by Prof. J. C. Freeman, formerly commander First New York cavalry.—University regiment and band acted as escort of G. A. R. in Memorial Day exercises at Capitol Park.—Alfred Bushnell, John Leslie and Sidney J. Williams, representing affirmative of question of advisability of adopting educational qualification for negro voting in the south, won Athenae's semi-public debate over Benjamin Davis, Paul Hammersmith and T. Logan Boyd. Rudolph A. Karges, '06, of Burlington, elected to joint debate team in place of H. A. Apple, resigned. Albert T. Twesme, '06, of Blair, elected president for first term of next year.—Beloit defeated Wisconsin baseball team in Beloit by score of 10 to 7.—Goro Nakayama gave feast to 65 student friends in honor of Japanese naval victory.

Wednesday, 31.—Annual inspection of military department of University by Capt. William C. Rogers, 27th United States Infantry.—Annual University catalogue issued.—1906 "Badger" placed on sale.—Chicago won last baseball game on Wisconsin's schedule, at Camp Randall, by score of 3 to 2.—Wisconsin was defeated in intercollegiate tennis tournament at Chicago.—Cut made in freshman crew squad, reducing it to 11 men.—J. Platt Brush, third baseman, elected captain of next year's baseball team.—Blake R. Nevius, '07, was elected leader, and M. C. Otto, '06, manager of Glee club for next year.

#### JUNE

Thursday, 1.—Board of regents elected new professors and instructors and made many promotions in University faculty.—Phi Beta Kappa held annual initiation exercises and banquet at Grace church guild hall; address by Prof. R. M. Lovett of University of Chicago.—Junior class had picnic and dance at Esther Beach.—Archie Persons, '05, varsity left fielder, signed with Oskaloosa in the Iowa league.—Caduceus, pre-medical society, held first annual banquet at Keeley's, Walter G. Darling toastmaster.—Board of regents adopted resolution providing for remuneration of regimental officers—officers of rank of captain or higher to have fees remitted, and prize of \$50 for field officers.

Friday, 2.—Athenae held annual banquet at Capital house, Max Loeb, '05, toastmaster. Toasts by George W. Stoner, '54, Athenae's first president, C. O. Marsh, '83, Ralph E. Smith, '95, A. O. Barton, '96, Edwin S. Bishop, '01, and others.—Daily Cardinal staff banquetted at Kehl's.—Castalia held annual banquet at Baptist church, Miss Bessie Adams, '06, toastmistress. Grace Beaver responded for seniors, Selma Schubring for sophomores, Sylvia Lounsbury for freshmen.—Waller and Stevens qualified for finals in quarter mile in conference meet at Chicago.—Olympia held freshman blowout debate.—200 pupils of Boys' Experiment club and Girls' Home Culture club of Winnebago county, Ill., visited Agricultural college and University proper.—Gov. R. M. La Follette elected to honorary membership in Phi Alpha Tau, oratorical fraternity.—Clyde E. Newcomb, '06, electrical engineer, was killed at Chicago by bursting of compressed air tube.

Saturday, 3.—Senior open party held in gymnasium to raise funds for class memorial.—Arthur O. Kuehmsted, '06, of Appleton, won Gill cup for drop-kicking.—A. Berton Braley, '05, editor of *Sphinx*, published book entitled "The Oracle on Smoke."—Elections to the Monastics, senior-junior society, announced as follows: George Nordenholt, '07, Richard Roemer, '07, Jerry Donohue, Jr., '07, Gaius Woledge, '06, Frank Barker, Jr., '06, Arthur Kuehmsted, '06, John Walechka, '07, Julian Sargent, '07, Charles Quarles, '07, Ralph Hetzel, '06, J. Mitchell Hoyt, '07.

Monday, 5.—President James J. Hill presented gift of \$5,000 to University for special library of books relating to railway

transportation.—George Ives, Rollie A. Petrie and John Walechka, arguing for retention of personal property tax in Wisconsin, won Hesperia's semi-public debate over Ralph G. Wiggenhorn, Adolph R. Janecky and Eli S. Jedney.

Tuesday, 6.—News received of marriage, at Seattle, Wash., of Maynard Lee Daggy, formerly instructor in oratory, to Miss Marie Stone.

Wednesday, 7. — Middle laws won class baseball championship by defeating junior law team.—Annual sham battle of University regiment held.—Interfraternity baseball league elected next year's officers as follows: President, W. C. Parker, Delta Upsilon; vice-president, Harold S. Falk, Chi Psi; secretary, J. G. Wollaeger, Sigma Chi; treasurer, Thos. F. Kelly, Theta Delta Chi.—Pre-medical society, Caduceus, elected officers for next semester: President, Charles Bishop; vice-president, George Neilson; secretary, Benjamin Davis; treasurer, E. G. Festerling; censor, Walter Darling. — University Co-operative Association elected directors for next year.—University authorities were informed of action of University of Oxford in placing Wisconsin in position of an affiliated university.—Olympia literary society won inter-lit. baseball championship.

Thursday, 8.—Freshman crew was defeated by St. John's cadets at Delafield by half a boat-length.

Monday, 12.—Examinations began.

Sunday, 18, to Thursday, 22.—Commencement exercises.

Wednesday, 28.—Varsity four-oared and eight-oared crews finished in their respective races on the Hudson.

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## Athletics.

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The base ball team this year was an erratic and more or less disappointing organization. At the outset everything pointed toward the probability of exceptional nine. The material in college was the best the University ever had, every

member of the 1904 team except Roys being in college. In addition there were at least three players of known ability among the new men, Cummings, a pitcher, Hedding, a catcher, and Melzner, an infielder. But before the season fairly started, the

troubles began. Perry, second base-man and the heaviest batter on the team, unable to adjust certain scholarship deficiencies with the faculty, withdrew from the University in March. Young, the best pitcher in the Conference Colleges in 1904, injured his arm, which he had hurt the previous year, in the first game of the season and was lost to the team for the rest of the year. Foss, substitute pitcher in 1904, had typhoid fever, losing so much time from his classes that he was compelled to forego all base ball to catch up. This threw all the pitching duties upon Cummings, who made a splendid record for a freshman, pitching good consistent ball at all times, whether he won or lost. But the team failed to strike a winning gait until the middle of the season, and then slumped toward its close, excusably in a measure, because of injuries to a number of the men.

As to its standing for the season Wisconsin, by losing three out of four games each to Michigan and Illinois, must be ranked below them, in third place. Yet in spite of its numerous defeats the team played good, hard ball throughout all but the very close of the season. Each of the Michigan games which it lost was by only a single run, and the third game lost to Illinois was by a score of 1—0, their sole tally, was a home run by Rothgeb which was also the only hit Illinois made off Cummings during the game. And this would hardly have been good for over three bases had the ball not gone through the short right field bleachers, thus making it impossible for Gates to field it home quickly.

Of the members of this year's team it is expected that all will return to college next fall except Captain Leahy, catcher, and Persons, Lewis and Gates, outfielders. For Leahy's place next year there will be Hedding and Sorem, substitute catchers this spring, and Roseth who, having matriculated in February, was ineligible this year on account of the new six months' rule previously referred to. For the outfield an entirely new trio must be developed from a poor lot of substitutes. Platt Brush, who has played third base on the

team for three years, was elected captain for 1906.

Wisconsin's cup of woe was still further filled by the pathetically weak showing of the track team, and finally, the crushing defeat of the varsity eight and four at Poughkeepsie, the freshmen crew having been previously defeated by the St. Johns Military Academy eight for the first time since the institution of these races seven years ago.

On the track, reasons for the succession of defeats are not far to seek, and lie chiefly in the lack of material at the start and losses during the season. Wisconsin had just two point winners of 1904 in college eligible to compete this year. One of them, Captain Breittkreutz, injured himself in one of the indoor meets and later withdrew from the University. The other, Devine, who took third in the discus in 1904, failed to show any consistency of form this year and won nothing. Kiesel, a steadily improving distance runner, who beat Lightbody in the Coliseum meet in March, left to go into business shortly after. Dulaney, who won the high jump in both the Chicago meets and at Ann Arbor, was forced to leave the University in April on account of his health. Hasbrouck, one of the best of the freshman runners, was called home at the opening of the out-door season by the serious illness of his father, and there were others. Little wonder that the record is doleful! Waller's victory over Groman in the conference quarter, giving Wisconsin its only points in the big meet, constituted the only oasis in a desert of defeat. His time, 50 seconds, was excellent and he won easily. Had he been pushed he could undoubtedly have beaten Merrill's record of 49 4-5.

The track meet with Illinois at Champaign May 20, resulted, as already noted, in a crushing defeat—the first ever administered by Illinois on the cinder path. Comment is superfluous, except to note Waller's fine work in the dashes and hurdles, and Hean's plucky and unexpected victory in the mile. Myers also won a game race and Stevens showed promise of developing into a first class quarter miler. The results are given below, in detail:

## Summary:

- 120 yd. hurdles—Won by Kline, I.; Dupuy, I., second; Quarles, W., third. Time: 16 1-5.
- 100 yd. dash—Won by Waller, W.; Knox, I., second; Stevens, W., third. Time: 10.
- Mile run—Won by Hean, W.; Richardson, I., second; Van Inwagen, I., third. Time: 4:37.
- 440 yd. dash—Won by Stevens, W.; Blankley, I., second; Rideout, W., third. Time: 51.
- 220 yd. hurdles—Won by Waller, W.; Dunning, I., second; Padden, I., third. Time: 25 4-5.
- 880 yd. run—Won by Myers, W.; Barrett, I., second; Froom, I., third. Time: 2:02 2-5.
- 220 yd. dash—Won by Waller, W.; Stevens, W., second; Bankley, I., third. Time: 21 4-5.
- Two mile run—Won by Smith, I.; Hean, W., second; A. Smith, I., third. Time:
- Pole vault—Won by Norris, I.; Knox, I., second; Grear, I., third. Height: 10:4.
- Discus—Won by Smith, I.; Devine, W., second; Evvard, third. Distance: 117 4-10.
- High jump—Tie between Woodin, Long and Foskett, I. Height: 5:07.
- Shot put—Won by Carrithers, I.; Knox, I., second; Burroughs, I., third. Distance: 42:06½.
- Broad jump—Won by Woodin, I.; Trieble, I., second; Knox, I., third. Distance: 22:03.
- Hammer-throw—Won by Marley, I.; Burroughs, I., second; Fuller, I., third. Distance: 138 3-10.
- Points—Illinois, 84; Wisconsin, 42.

Wisconsin's showing at Poughkeepsie this year was the poorest in the rowing history of the University. In both the varsity eight and four oared races, Wisconsin was absolutely last and far behind even the slowest of its rivals. Of the four, little was expected, owing to the fact that it was really a substitute boat, shifted frequently and of necessity given comparatively little coaching. The varsity, however, had given hopes of something better.

No one who had any knowledge of rowing and was at all familiar with the amount of work done by the crew this year, expected it to win or even to be second, on account of the exceptional crews which Cornell and Syracuse were known to have. But it was generally believed that Wisconsin ought to be as good as any other crew in the race. Those who were in a position to know, however, were aware that the crew was really short of work and liable not to last, though the men were doing their easier practice rows in pretty form.

This lack of work was due to conditions wholly beyond the control of coach or men. Primarily it was the fault of the weather, which for days made the surface of Lake Mendota a broad expanse of white-caps on which no shell could have lived ten minutes. Day after day the men were compelled to sit in the boat house, waiting for the lake to subside, only to finally give it up and do what they could to keep in condition by stiff cross country runs. Rowing on Lake Monona was rendered very difficult by the necessity of transporting the shell so far and by the fact that a considerable number of the men had recitations lasting until 5 o'clock. Even when they were able to go there was no launch available on the smaller lake so that Mr. O'Dea had to coach from the coxswain's seat, where he could accomplish little. Finally, a little over a week before the departure of the crew for the east the boiler-flues of the old "John Day" gave out and Coach O'Dea had to sit on the float at the boat house during eight critical days and wonder what his varsity crew was doing, somewhere out on the lake. Power launches, kindly proffered by large-hearted Madison alumni, gave little help because none of them were capable of keeping near enough to the crews to make coaching possible. The men lost an average of three pounds in weight during the trip east, which seemed to point clearly to the inadvisability of giving them any severe work at Poughkeepsie. In these circumstances must be found the explanation of the poor showing made by the crew.

In the race itself Wisconsin had no mis-



fortunes. The men got away beautifully at the start and gained a nice lead in the first few strokes, which they maintained against all except Cornell until well past the quarter. At the half the varsity was rowing on even terms with the others except Cornell, which had already assumed a commanding lead. From the mile it became clear that Wisconsin would not be "in it" and during the succeeding minutes it became merely a question of how far the Badgers would be beaten. At the finish the boat was all of a third of a mile back, when Cornell crossed the line, and many lengths of open water separated Wisconsin from the fifth crew, Pennsylvania.

Some of the lessons of this race are clear. In the first place, it is evident that under the most favorable conditions, Wisconsin is bound to be at a disadvantage as compared with the other institutions which send crews to Poughkeepsie, in having to depend upon a sheet of water which in the nature of things is bound to be rough during a large part of the spring, especially before June 1. Cornell has the inlet to Lake Cayuga, Syracuse the outlet to Lake Onandaga, when bad weather makes rowing on their lakes impracticable. Neither crew ever loses a day's work on the water during the season. Pennsylvania, Georgetown and Columbia, rowing on rivers as they do, are practically able to ignore weather conditions after the ice goes out in the spring. Where Wisconsin had but five or six times rows over the four-mile course, Cornell probably had about twenty-five. This is not offered primarily to excuse this year's showing. It does, however, fairly present the question, can Wisconsin hope to improve rowing conditions at home sufficiently to enable her crews to meet those of the east on even terms? If this cannot be done, always conceding that the eastern trip is in itself a sufficient handicap, then it would seem as if the effort should not be made.

Without having personally arrived at any satisfactory conclusion in the matter, I can see clearly that certain changes in the plans and equipment at home would help materially. First of all, there should be a boat house on the Yahara from which the shells could be taken to either Lake Mendota or

Lake Monona, according to wind and weather conditions. With such an arrangement, there would be few lost days. The launch could be used to carry the men to and from the University, and could be kept in the present boat house, which could easily be converted into a suitable launch house. All these things could easily be arranged—if money were no consideration. In this connection it may be added that a new launch will be almost a necessity next year. Whether the financial obstacles to these changes can be overcome remains to be seen.

Much has been said regarding "strokes," chiefly by men who know nothing whatever about rowing. As a matter of fact the stroke taught by Mr. O'Dea is, theoretically, almost identical with that of Cornell, nor has Mr. O'Dea departed from his original teachings any more than Mr. Courtney in the last ten years. As their crews rowed side by side on the Hudson, with both coaches directing their men from the same launch, even a layman could see that the men in both eights were seeking to do the same thing. The only differences noticeable were the look of superior power and smoothness in the Cornell crew and their slightly greater reach as they caught the water. The fact that Cornell beat Wisconsin by a quarter of a mile proved nothing regarding "strokes," and I can see no reason for thinking that in rowing technique Wisconsin was improperly coached.

To my mind, the question is not so much whether anything was left undone by Mr. O'Dea which would have enabled the crew to make a better showing, as whether the conditions which this year so handicapped his work are capable of sufficient improvement to justify continuing the attempt for eastern honors. Certainly this is a question for fair minded consideration.

Wisconsin spends less on its rowing department than any institution in the country except, possibly, Georgetown, yet the expense is a severe strain on the athletic finances. Much of what goes to support the crew is taken from other departments. It is but natural that there should be a demand for success. If Wisconsin is to make the eastern trip each year, it must keep up in the first division even if it does not win,

and money must be raised to prevent too heavy a drain on the other sports. Foot ball has to pay the expenses of all the other athletics. The policy of relying on the foot ball receipts without taking proper account of just how much the season's games could safely be counted on to yield, has resulted in plunging the athletic association deep in debt.

An illustration will serve to show the conditions. Wisconsin needs a trainer to come to the University and stay through the year, a man who can put in all his time in the work, training the foot ball team in the fall and the track men in the winter and spring. The graduate manager holds today a proposition from one of the best men in the country, indeed, easily the best whose services are now available, to come to Wisconsin at a very reasonable figure and yet he is obliged to hesitate regarding the engagement of this star man because of the financial condition of the association. Meanwhile the opportunity to secure his services may be lost.

The best foot ball news at this date is the announcement that Edgar G. Holt of Princeton will be assistant coach. Mr. Holt will have charge of the line men chiefly. He is probably the equal of any coach in the country today for this work. Certainly there is no other Princeton graduate available who is anywhere near his equal, and the advantage of having a Princeton man, who will be not only in sympathy with Mr. King but also thoroughly familiar with the game which the head coach will undertake to teach the men, is obvious. In 1903 Mr. King was at Princeton the last five weeks of the season, and Mr. Holt throughout the fall. They are in entire harmony in their foot ball ideas. Mr. Holt has also coached in the west, having been at Illinois three

years. At Princeton he played tackle three years and he was at Harvard one year, winning his "H" at guard as a freshman.

Aside from the strength of the coaching staff, it must be confessed that prospects are not brilliant. Last year's team was out-classed by its leading rivals and of this ill-fated aggregation only a few men will be back. Remp, center; Stromquist, guard; Schneider, full back; Jones, quarter back, and St. Germaine and Hunt, tackles, have all left. Donovan, guard; Clark, full back, and Melzner, quarter back, may not return. Some of the others have examinations to take before they will be eligible. About the only veteran regulars who can surely be counted on are Captain Vanderboom, half; Bush and Findlay, ends, and Bertke, tackle.

The new six-months' residence rule bars all freshmen entering this fall, so that the coaches will be restricted to the material comprising last year's varsity and second elevens.

Graduate Manager Downer has announced the schedule as follows:

September 30. Northwestern College of Naperville.

October 4. Marquette College.

October 7. Lawrence University.

October 11. Physicians and Surgeons of Chicago.

October 14. Notre Dame University.

October 21. Chicago University.

October 28. Alumni.

November 4. University of Minnesota.

November 11. Beloit College.

November 18. University of Michigan.

All the games will be played in Madison except that with Michigan, which will be at Ann Arbor, and the Minnesota game at Minneapolis. There is also a possibility that the Notre Dame game may be played in Milwaukee.

## Alumni

*Alumni are requested to contribute to this department. When newspaper clippings are sent, care should be taken to indicate date and place, clearly. Distinguish between date of paper and date of event recorded. Report all errors promptly. The notation used in this department is as follows: Two figures preceded by an apostrophe indicates the year of graduation. Two numbers separated by a dash indicate the period of residence of a non-graduate. Where only figures are given the college of letters and science is indicated; e stands for engineering department: l, law; p, pharmacy; h, higher degrees; (Hon.) honorary. Addressed envelopes will be furnished to any one who will use them regularly to send news to this department.*

'70

William E. Huntington, '70, president of Boston University, was conferred the degree of LL.D. by Tufts College at the commencement exercises, June 21.

71

Major S. S. Rockwood, '71hon., for the past ten years secretary of the board of regents of normal schools, died at his home in Portage, July 12, 1905, after a long illness, which culminated in an attack of acute paralysis. Major Rockwood was born in New York state Dec. 31, 1837. Coming to Wisconsin when a child he located first in Walworth county. He was graduated from Milton college and afterwards attended the University of Wisconsin. He left the University for army service and was commissioned second lieutenant of Company E, Thirteenth Volunteer infantry, was promoted in 1862 to captain, served with Gen. Custer in the Texas campaign, and was mustered out of service Oct. 6, 1865, as a brevet major of volunteers. After the war he engaged in commission business in Chicago, and remaining there until 1868 when he took up educational work, was for a number of years professor of mathematics in Milton college. Maj. Rockwood then went to Whitewater Normal school, where for nine years he served as professor of mathematics. In 1881 he engaged in the newspaper business and worked seven years in the editorial departments, serving one year on the Elkhorn Independent, two years on the Janesville Recorder, and four years on the Wisconsin State Register at Portage. In 1887 Maj. Rockwood was appointed to a position in the state land office, where he remained until 1889, when he was appointed chief clerk of the department of agriculture in Washington by Secretary

J. M. Rusk, and he served in this capacity during the closing years of President Harrison's administration. He was vice president of the Wisconsin Press association in 1885, and assistant state superintendent of schools in 1881. He served as secretary of the board of regents of normal schools continuously for ten years.

'75

One of the most notable gatherings of the week of commencement just past was the reunion of the law class of 1875, the correspondence of which was handled by Justice J. B. Winslow of Madison. The law class of 1875 embraces a number of men that have achieved unusual distinction. Among them are two present members of the Wisconsin supreme court, Justices Winslow and Kerwin, and one deceased member, the late Justice C. V. Bardeen. There were 36 members of the class. At that time the law course was not so long as it is now, and present day law students assert with much conviction that the requirements for entrance were insignificant and the requirements in the courses not much more, but the proof of the education received is found in the singular success attained by these 36 graduates. Besides the three mentioned there were among the others Judge B. F. Dunwiddie of Janesville, judge of the circuit court; Mr. Eugene W. Chafin, for many years at the head of temperance work in the state and a writer of note, being the author of Chafin's Lives of the Presidents; Judge John Collins Sherwin, district judge in Iowa for 12 years, who became a member of the Iowa supreme court in January of 1901; Mr. Hempstead Washburn, city attorney of Chicago for four years, and mayor of Chicago in 1891-1893; Mr. George Almon Underwood, lecturer on jurisprudence in the

Iowa state college; Mr. Mills Tourtelotte, lawyer of La Crosse; Mr. Charles Wilson Bunn, general counsel for the Great Northern Railway company at St. Paul; Messrs. E. P. Vilas, A. J. Schmitz and Duane Mowry, attorneys of Milwaukee, and Mr. Thomas Coleman of Madison, who holds a position in the supreme court.

Justice John B. Winslow, '75, '04, LL.D., of the Wisconsin supreme court, and Judge Alton B. Parker of New York, were the speakers at the annual banquet of the Illinois Bar association at Chicago May 26th.

'81

Patrick H. Conley, '81, of Darlington, was elected county judge of La Fayette county, Wis., at the spring election. He has twice been elected district attorney, and has twice served as mayor of Darlington.

'83

Thomas H. Synon, '83, '86, of Norfolk, Va., is traveling in various states as representative of the Jamestown Exposition company. He was a visitor in Madison last May for the purpose of securing from the legislature an appropriation for a building and exhibit.

Henry P. Stoddart, '83, '86, has just been selected by the Supreme Court of Nebraska as court reporter. He was for a short time assistant court reporter for the Wisconsin Supreme Court and later has been practicing law in Omaha. He is a native of Black Earth, Wis.

John Barnes, 83, of Rhinelander, was selected by Gov. La Follette as one of the three members of the newly created railway rate commission. The other members are Prof. B. H. Meyer, '94, professor of political economy in the University, and Halford Erickson, commissioner of labor and industrial statistics for Wisconsin.

'84

Professor F. J. Turner, '84, of the history department of the University, mourns the death of his father, Andrew Jackson Turner, which occurred at the old home at Portage, Wis., June 10. The elder Turner was a member of the state assembly three

terms and was chief clerk of the senate from 1876 to 1878. He was well known in state politics.

'85

Announcement comes of the marriage in New York June 28 of Mr. Charles Isaac Earl and Miss Mary Helena Flynn, daughter of Mrs. Edward T. Flynn. The groom was graduated from the University in 1885 and for some years was superintendent of a great manufactory of separators at Poughkeepsie, N. Y., but is now located in the metropolis, his home being at 159 West 105th street.

'86

Clarence E. Ward, '86, was the unsuccessful candidate for superintendent of schools for the second district of Dane county, Wisconsin, his opponent, Guy Ives, being re-elected.

'91

James D. Ryder, '91, committed suicide with a revolver at his home at Waterloo, Wis., May 26th. Mr. Ryder was a member of the banking firm of Ryder Brothers, which went into bankruptcy last September, and to his business losses is assigned the reason for the sad act. The deceased was for two terms district attorney for Jefferson county. He was about 35 years of age and leaves a wife, an aged mother, a sister, Mrs. Robert McCracken, and a brother, H. G. Ryder, all of Waterloo.

'93

The Rev. H. H. Jacobs of the University settlement in Milwaukee, has been elected director of the Athletic association of the University of Wisconsin Alumni Association of Milwaukee.

'94

Francis J. Bold, M. D., '94, is practicing his profession at Imperial, California. Writing under date of May 19 he says: "I have been here in this land of sunshine and flowers for the past year, but have been so busy that I have had but little time to attend to the many things connected with one's school. My sisters, Mrs. Chas. E. Salisbury (nee

Miss Sadie M. Bold), also of '94, now lives at Osage, Iowa."

Dr. F. D. Heald, '94, state botanist of Nebraska and professor in the University of Nebraska at Lincoln, spent a few weeks in May in Madison at the home of his parents, Mr. and Mrs. H. F. Heald. Dr. Heald was for two years fellow in botany at the University.

Mr. W. Foster Lardner, some time a member of '94, closed the last theatrical season with a most successful engagement with Blanche Walsh. Earlier in the year he completed a special engagement with the Albee Stock Company of Providence, R. I., of which the Providence News says: "Mr. Lardner has played a diversity of roles during his special engagement with the Albee company this season, including Jack Negley in "Barbara Freitchie," Ernest Morrison in "Are You a Mason?" President Alvarez in "Soldiers of Fortune," and Big Bill in "The Great Ruby," and played them all with intelligence and virility, and he will leave the Albee company ranks firmly established in the esteem and admiration of local theatergoers."

Mrs. William Ellsworth (nee Leafy Page), '94, a member of the Delta Gamma sorority, visited in Madison during the summer.

'95

Levi Wilbur Pollard, '95, has branched out as a dialect poet and interpreter. He appears at several Chautauquas this year, including the Monona Lake Assembly at Madison. Mr. Pollard is an Iowa county man, of which constituency he was elected district attorney immediately after his graduation from the law school. Since then he has held a government position in connection with Indian territory affairs and is now giving much of his time to mining interests in southwestern Wisconsin. Some years ago he issued a volume of verses, chiefly on the dialect order, marked by delicious humor, and another will make its appearance in the near future.

Dr. Frederick W. Peterson, '95, was a Madison visitor in June, the guest of Albert O. Barton, '96, with whom he visited Europe some years ago. Dr. Peterson left

Madison for Los Angeles, Cal., where he intends to practice.

'96

Miss Margarethe Urdahl, Ph. D., '96, of Philadelphia, visited friends in Madison recently. Miss Urdahl studied in the universities of Goettingen, Germany, and Christiania, Norway, returning to Bryn Mawr college, Penn., to take her degree of doctor of philosophy. Miss Urdahl is a member of the faculty of a school for ladies in Philadelphia.

Prof. Grant Showerman, '96, and Mrs. Showerman, '90, have returned to Madison from Princeton university, where Professor Showerman was acting professor of Latin during the past year. He will resume his duties as assistant professor of Latin at Wisconsin in the fall.

On June 10 at Milwaukee occurred the marriage of Dr. Ralph P. Daniells, '96, son of Prof. W. W. Daniells, head of the department of chemistry at the University, to Miss Helen Kitchell of Milwaukee. The groom completed the course at Rush Medical college in 1901, since which time he has practiced his profession. For over a year he held a position in St. Luke's hospital at Chicago and later for a year a position of house surgeon in the Monroe street hospital in the same city. Then he spent a year in Europe studying and when he returned he became associated with Dr. Sippy in Chicago. Miss Helen Kitchell is a graduate of Smith college. Since graduation she has been a teacher in the Milwaukee public schools. The young lady is well known in Madison, being a relative of Dr. C. S. Sheldon. Their future home will be Toledo, O., where Dr. Daniells intends to practice.

'97

A brilliant June wedding took place when Herbert Hayes Manson, '97, of Wausau, was married to Miss Daisy R. Dye, '01, at the home of the bride's parents, Dr. and Mrs. A. A. Dye, in Madison. Rev. E. G. Updike, D. D., pastor of the First Congregational church, officiated. In addition to the hundreds of town guests who attended were the following from out-of-town: Mrs.

C. W. Seidenadal of Chicago, sister of Mrs. Dye, and Master William Seidenadal; Mr. and Mrs. Walter H. Thom of Neenah; Mrs. W. B. Scofield and Miss Virginia Manson of Wausau, sisters of Mr. Manson, and Mr. William R. Manson, also of Wausau; Mr. and Mrs. William Mann and Mr. Gilbert Hodges of Chicago. Mr. Mann and Mr. Hodges were formerly university students and Phi Delta Theta fraternity brothers of the groom. Other guests were Miss Marcia Jackman, '00, of Janesville, Mr. and Mrs. Joseph E. Davies, '98, of Watertown, Miss Elizabeth Throne of Watertown, Mr. and Mrs. Kelley of Wausau, Mr. Judd Alexander of Wausau and Mr. and Mrs. F. A. Vogel of Milwaukee. The bride is a member of the Delta Gamma sorority. She has long been associated with the charitable work of the Attic Angels association in Madison. Mr. Manson's fraternity is Phi Delta Theta. Since his graduation from the law school he has been engaged in the practice of his profession in Wausau. Mr. and Mrs. Manson left on a wedding trip of a few weeks, after which they go to Wausau to reside and will be at home to their friends after September 1.

'98

Otto Patzer, '98, and E. B. Schlatter, instructors in French at the University, will spend the summer in Europe. They will sail from New York June 24.

The marriage of Martin W. Odland, '98, to Miss Serene Nasett, of Robinsdale, Minn., occurred June 15th. They will be at home at Hudson, Wis., after August 1. Mr. Odland has taken the editorship of the Hudson Star-Times, a paper having a notable history. Several exceptionally able men have held the editorial chair. Mr. Odland himself takes the paper with a fine equipment and experience.

Miss Grace A. Wright, '98, of Janesville, is instructor in rhetoric and political science in the Eau Claire high school. She is attending the University summer session this year.

Miss Mayme Evelyn Bump, '98, of Wausau, and John C. Schmidtman, '98, of Manitowoc, were married at the home of the bride. The bride is a daughter of the late

E. L. Bump of Wausau, who was a lawyer of state-wide reputation. Mr. Schmidtman is associated in the business of the Schmidtman Sons' company in Manitowoc.

The engagement of Miss Mollie F. Pritchard, '03, to Archie L. Nash, who graduated with the law class of 1898, was recently announced in Manitowoc, where Miss Pritchard resides, with her parents, Dr. and Mrs. J. E. Pritchard. Mr. Nash also resides in Manitowoc. He is junior member of the law firm of Nash and Nash.

Harry Gustavus Forrest, '68, of Manitowoc, Wis., who has been following a dramatic career for five years, has just written and copyrighted a new play, "Markham Meade, a Captain of '76," which is to be produced at New York the coming season with Mr. Forrest in the title role. While in the University Mr. Forrest was prominent in social circles and played tackle on the football team.

'99

William S. Kies, '99, was married to Miss Mabel Best, daughter of Mr. and Mrs. George Wilmot Best of Chicago, July 12, 1905.

Albert L. Henning, '99, died at Eugene, Oregon, July 31. He was a former Milwaukee man. Since going west he had taken a master's degree at the University of Oregon. He was extensively interested in lumbering. The body was brought to Iron Ridge, Wis., for burial. United States Assistant District Attorney E. J. Henning, '94, of Milwaukee, is a brother.

Joseph J. Aylward, '99, died in Madison at the home of his brother, Attorney J. A. Aylward, '84, on the 20th of May. Mr. Aylward was an able and industrious student and won distinction in debating and oratory. Since graduating he has been in charge of several of the high schools of the state. He early planned to study law and spent his summer months in reading law in his brother's office. He had thus made up a considerable portion of his work and planned to enter the law school in the fall.

'00

The marriage of Miss Claribel Butterfield of Moscow, Idaho, and Mr. Bernard M.

Palmer, '00, '03, of Janesville, is announced to take place June 21, at the bride's home in Moscow. Mr. Palmer is engaged in the practice of law in Janesville, where the couple will reside.

Wayne T. Moseley, '00, is connected with the legal and collection department of the J. I. Case company, his headquarters being at Fargo, N. D.

A party of tourists left Madison in June for a summer's trip in Europe, under the guidance of Prof. L. W. Dowling, assistant professor of mathematics. The other members of the party are Mrs. Dowling, Mrs. Eliza Allen and daughter, Miss Florence E. Allen, '00, instructor in mathematics; Miss Merle S. Pickford, '02, instructor in history in the Eau Claire high school; and Miss Jennie Sherrill, '02, of Belvidere, Ill., instructor in history in the Belvidere high school. The party travels together through England, Holland and Germany to Switzerland, where Mrs. Allen and daughter will return to Bonn, Germany, to meet Mr. C. E. Allen, '99, Mrs. Allen's son, who, with his wife, has been in that city attending the University for the past year, engaged in the study of botany, of which he is instructor at the University. The other members of the party will proceed to Italy, where Dr. and Mrs. Dowling expect to remain until June 1, 1906. Dr. Dowling will spend a year in study at Turin, Italy. Miss Pickford and Miss Sherrill will sail for home by way of Naples and the Mediterranean route, August 26, on the steamship Canopic, White Star Line, landing at Boston. Mrs. Allen and daughter and Mr. Allen and wife will sail from Hamburg September 1, reaching here before the opening of the University next fall.

The engagement is announced of Miss Mabel Emily Fletcher, '00, of Portage, to Mr. Frederick S. Sheldon of Janesville. Since her graduation Miss Fletcher has been making her home in Whitewater, where she taught German and zoology in the high school.

The marriage of Mr. Albert C. Wolfe, 00, of La Crosse, to Miss Iva Brown occurred at the home of the bride's parents, Mr. and Mrs. A. S. Brown, in Madison on June 7th. Mr. Wolfe is a partner in the

law firm of which his brother, William F. Wolfe, '91, '93, is also a member. Mr. and Mrs. Wolfe will make their home in La Crosse.

Alfred R. Schultz, one of the nineteen who received the degree of Doctor of Philosophy at Chicago University on June 13, at a recent meeting of the Chicago chapter of Sigma Xi was elected a member of that fraternity in recognition of his research work. Mr. Schultz begins work on the U. S. Geological Survey at once and will spend the summer in work in Wyoming.

Sydney H. Ball, '01, holds a position with the United States geological survey, with his headquarters at Washington.

Frederick W. Schule, '01, famous as an athlete, goes to Idaho July 1 to assume the duties of chemist for a large mining corporation.

Miss Leeta A. Harvey, '01, was married to Mr. Carl D. Jackson, of Oshkosh, district attorney for Winnebago county, at the bride's home in Menomonie, Wis., on June 21. The bride was prominent in social circles while her father, L. D. Harvey, was state superintendent of public instruction.

William C. Sutherland, '01, of Madison, was married in June to Miss May J. Kernan at South Chicago. Mr. Sutherland is a graduate of the pre-medical department of the University and while in college was a prominent member of the University crew.

Announcement is made of the marriage of Miss Grace Pettingill, daughter of Mr. and Mrs. J. E. Pettingill of La Crosse, to Mr. James Cook Hogan of the same city. The groom attended the 'varsity for two years as a member of the class of 1901 and is a member of the Psi Upsilon fraternity. His father, Mr. J. J. Hogan, was speaker of the assembly during the session of 1891.

'02

Announcement has been made of the engagement of Miss Georgiana Whitcomb, '02, to Roy L. Smith, who graduated from the dairy course in 1899 and in agriculture in 1902. After the wedding, which will occur at Lake Geneva in October, they will reside in Pennsylvania where Mr. Smith is manager of an extensive dairy farm.

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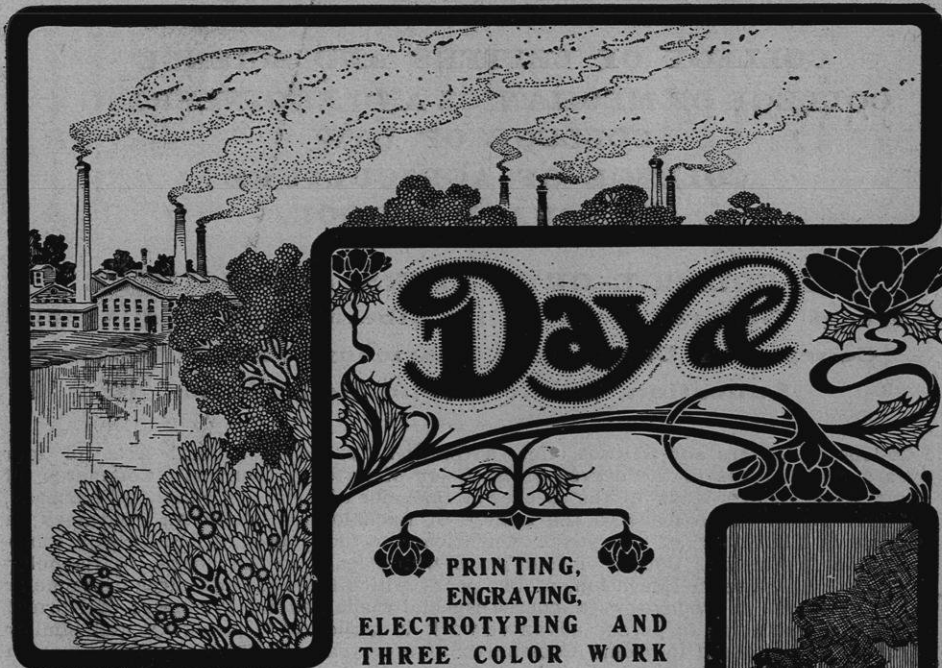
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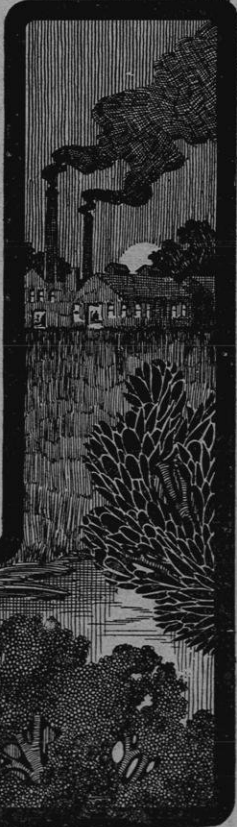
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The College of Mechanics and Engineering offers courses of four years in Mechanical Engineering, Electrical Engineering, Civil Engineering, Sanitary Engineering, Applied Electrochemistry and General Engineering, including the Mining Engineering group of elective studies, each of which leads to the degree of Bachelor of Science in Engineering; and upon the completion of an additional year's study in the College of Engineering, or of three years' study in connection with approved field work, to the degree of Engineer.

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THE COURSE IN EDUCATION consists of two years' work in philosophy and pedagogy, and is especially designed for graduates of normal schools. A four year course is also provided for those desiring to pursue special studies in educational problems.

THE COURSE IN HOME ECONOMICS has two purposes: First, to offer general elective courses which shall be available as a part of the general education of young women in the College of Letters and Science; second, to offer to those young women who are preparing to teach the subject or to pursue other professional work connected with it, the opportunity to take a four years' course in Home Economics.

THE SCHOOL OF MUSIC gives courses of one, two, three and four years, and also offers opportunity for instruction in music to all students in the university.

The Summer Session extends over a period of six weeks, from the last week in June through the first week in August, and is designated to meet the wants of teachers and undergraduates who desire to broaden and deepen their knowledge; of regular undergraduates who desire to shorten their University course; and of graduates who wish to devote part of their vacation to advanced courses.

The Summer School for Artisans and Apprentices extends over a period of six weeks, from the first week in July to through the second week in August, and provides for practice shop work and scientific instruction.

THE LIBRARIES to which the students have access include, the Library of the University of Wisconsin, the Library of the State Historical Society, the Library of the Wisconsin Academy of Sciences, Arts, and Letters, the State Law Library and the Madison Free Public Library, which together contain about 276,000 bound books and over 150,000 pamphlets. The State Historical Library with some 128,000 volumes and 120,000 pamphlets offers exceptional opportunities for students in history.

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Lv. MILWAUKEE.....	9:00 A. M.	4:30 P. M.	8:00 P. M.
Lv. RACINE.....	Express S. S. Virginia	Express S. S. Christoph'r Columbus	S. S. City of Racine 10:30 P. M.
Ar. CHICAGO.....	2:45 P. M.	9:30 P. M.	5:00 A. M.

NOTE.—Passengers may remain aboard S. S. "Racine" at Chicago until 7:00 a. m.  
NOTE.—S. S. "Christopher Columbus" leaves Milwaukee 5:00 p. m. Sunday.

<b>Northbound</b>	<b>Daily</b>	<b>Daily</b>	<b>Daily</b>
Lv. CHICAGO.....	9:30 A. M.	8:00 A. M.	9:00 P. M.
Lv. RACINE.....	Express S. S. Christoph'r Columbus	S. S. City of Racine 1:00 P. M.	Express S. S. Virginia 1:00 A. M.
Ar. MILWAUKEE.....	2:30 P. M.	3:30 P. M.	4:00 A. M.

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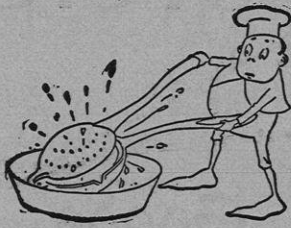
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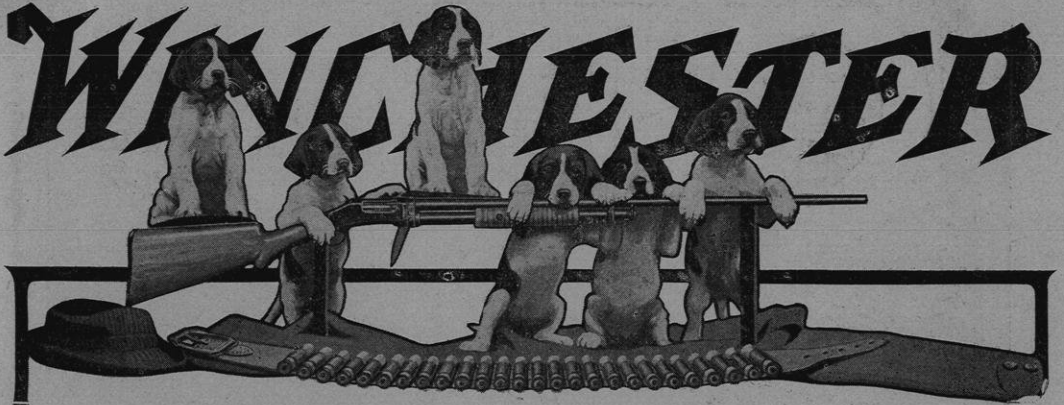
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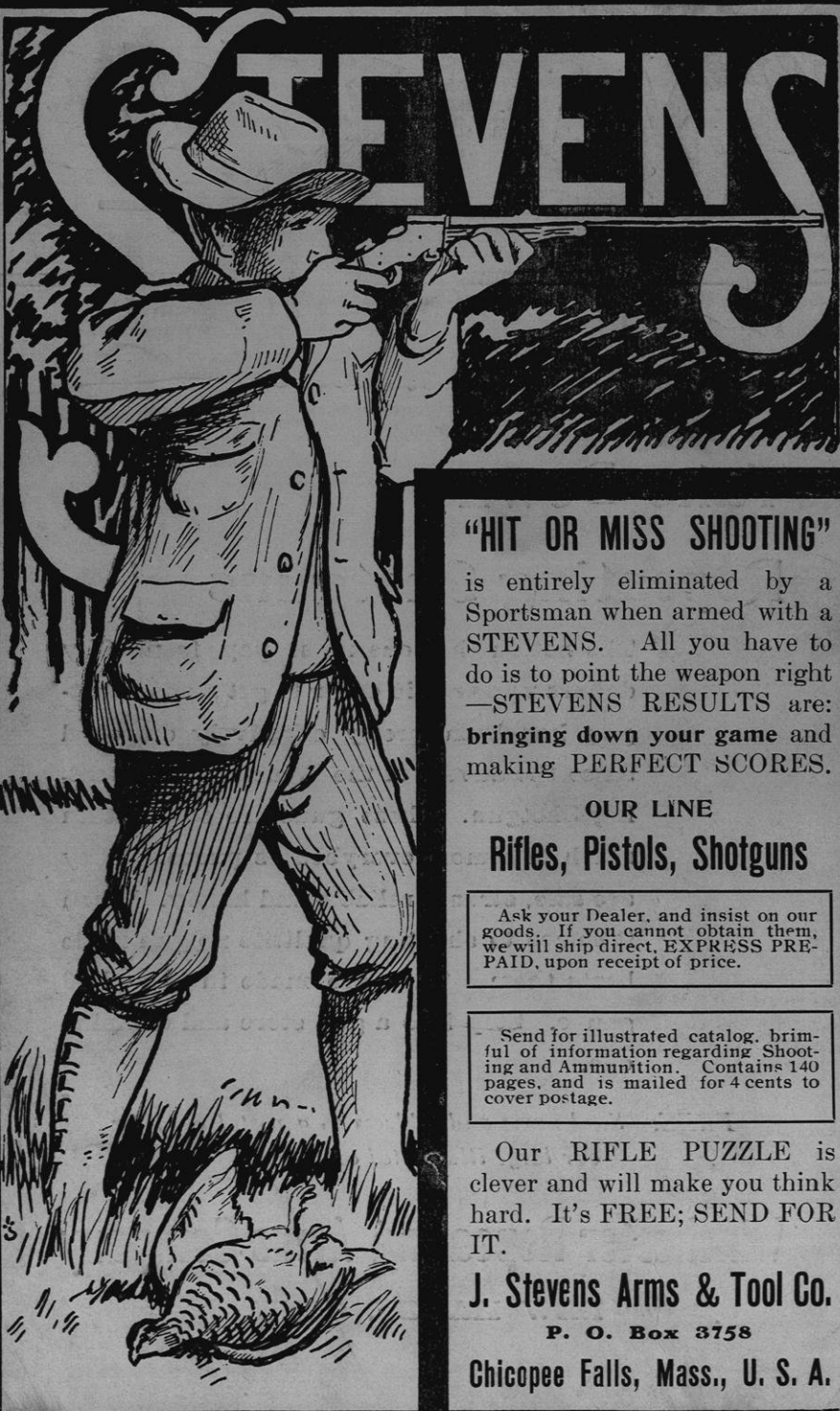


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