



THE SIGMA ZETAN

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A View of the Otterbein College Campus, Westerville, Ohio

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National Honorary Science Society

GRAND OFFICERS—1940-41

Grand Master Scientist—A. J. Esselstyn (Epsilon) Westerville, Ohio
Grand Vice Master Scientist—J. L. Glathart (Alpha) Alton, Illinois
Grand Recorder-Treasurer—T. A. Rogers (Zeta) Stevens Point, Wisconsin
Grand Editor—G. W. Faust (Zeta) Stevens Point, Wisconsin
Grand Historian—S. M. McClure (Beta) Lebanon, Illinois
Past Grand Master Scientist—P. D. Edwards (Xi) Muncie, Indiana



A. J. Esselstyn, Professor of Chemistry at Otterbein College, Westerville, Ohio, since 1928, graduated from Alma College, Alma, Michigan in 1915. For several years thereafter he taught chemistry and physics in the high school at Holland, Michigan. During American participation in World War I he was engaged as a chemist in a small

plant at Lansing, Michigan, producing picric acid and ammonium picrate. After a few years in business he went to Cornell University, from which he received his M. S. degree in 1926. He is a member of the American Association for the Advancement of Science, of the American Chemical Society, and of Phi Lambda Upsilon.

A COMMUNICATION

from the Grand Recorder-Treasurer

The annual business session of the fifteenth annual Conclave of the Society of Sigma Zeta, held last year at the Ball State Teachers College, was one of the most productive in the formulation of future policies of the organization. The Grand Council, under the able leadership of Dr. P. D. Edwards, Grand Master Scientist, presented a number of recommendations to the Grand Chapter for their consideration. The Grand Chapter enthusiastically supported these suggestions. They are of sufficient importance that space and time should be given for their reconsideration.

Ritual

The need of a national ritual was given first place and Dr. Edwards appointed a ritual committee composed of the following: E. E. List, Alpha; S. M. McClure, Beta; E. W. E. Schear, Epsilon; and H. W. Alger, Lambda.

This committee has been contacting the various chapters for a description of their procedure and it expects to formulate a standard procedure which will become the national ritual. The work of this committee is of vital importance to every chapter. Any suggestions which may be of value in connection with its deliberations will be appreciated.

Expansion and Promotion

A definite policy on expansion and promotion was adopted by the Grand Chapter upon being presented by a committee composed of the following members: Dr. H. W. Gould, chairman, Nu; S. M. McClure, Beta; and Dr. Edward Schreiber, Kappa. The recommendations were as follows:

(1) The committee recommends the recognition of this principle (that the honor society comprising the sciences and mathematics fills a distinct need for the undergraduate in the smaller schools) as a fundament-

al policy in any further expansion of the Society.

(2) The committee recommends that efforts toward expansion be confined to the liberal arts and the teachers college. The establishment of chapters in the professional field is generally not desirable, though not necessarily undesirable.

(3) The committee recommends that for the present and the immediate future, the efforts for expansion be restricted to the territory in which the majority of the chapters are now located.

(4) The committee recommends that much care be exercised in the location of chapters in institutions maintaining strong science and mathematics departments.

Further consideration of expansion and promotion of Sigma Zeta was assigned to a committee composed of the following: E. W. Schreiber, Kappa; C. O. Williams, Beta; and O. B. Christy, Xi. It is expected that it will be able to add to the recommendations of the previous committee.

Policy

Another valuable suggestion by the Grand Council was the appointment of a policy committee. Dr. S. J. Stowell, Beta; E. W. Schreiber, Kappa; and T. A. Rogers, Zeta, were

appointed to membership on a committee to consider matters of policy. This committee has been active and will have something constructive to present at the Conclave Session.

Alumni Relations

It was the feeling of the Grand Council that the relation of alumni to chapter activities merits careful study by a special committee. The Grand Master Scientist appointed the following to serve on this Alumni Relations Committee: T. A. Rogers, Zeta; E. E. List, Alpha; and J. W. Olson, Omicron. This committee is desirous of obtaining suggestions from any and all members of the organization. If Sigma Zeta is to survive, a definite tie-up should be made between the alumni and the chapter organization.

CHAPTER NEWS

ALPHA

Shurtleff College, Alton, Illinois

Affiliated, 1925

Master Scientist: Nelson B. Russell

Vice Master Scientist: Herbert Etter

Recorder-Treasurer: Marilyn D. Stanton

Membership: Student Active, 10; Associate, 10; Faculty, 5

Science on the Shurtleff College campus will be very greatly strengthened by the modern facilities afforded by the new Science and Administration Building which was dedicated March 15. This building replaces the old Administration Building which was destroyed by fire two years ago. The new building is of native stone and has three floors. The ground floor will be occupied by the Physics and Engineering Departments, the first floor will

Publicity

During the past, Sigma Zeta has not been given the publicity merited by an honorary science organization. It was with this idea in mind that the Grand Council recommended that the matter of publicity be placed in the hands of the Grand Editor. Further consideration of this policy should be on the agenda for the forth-coming session of the Grand Chapter.

Every committee is charged with a vital part of Sigma Zeta activity, and the success or failure of the organization depends in no small measure upon the thoroughness with which their work has been done. Active participation in committee work is the price which must be paid for the ultimate success of our Sigma Zeta organization.

be devoted to administration offices, and the Chemistry Department will use the top floor. The building will include chemistry and physics laboratories for both elementary and advanced courses, lecture rooms equipped for demonstrations, classrooms, a drafting room with fluorescent lighting, apparatus rooms, offices, balance room, dark room, store rooms, and a machine shop for construction and repair of apparatus. A modern electrical distribution system will provide both alternating and direct current of any desired voltage throughout the laboratories. Gas, hot and cold water, distilled water, and compressed air are piped to various rooms. With these excellent facilities, and with the completely new physics and engineering equipment which has replaced that destroyed by the fire, Alpha Chapter expects to increase materially the

interest in science on the Shurtleff College campus.

In October, the chapter sponsored an all school nature study hike along the bluffs of the Mississippi. This included a study of plant and animal life, and of fossils and rock formations. Campfire and traditional Indian stories were told.

BETA

McKendree College, Lebanon, Illinois

Affiliated, 1926

Master Scientist: Albert Jondro

Vice Master Scientist: Carl N. Beard

Recorder-Treasurer: S. M. McClure

As Amos 'n' Andy would put it, the Beta Chapter has been mighty nigh 'sterminated during the present year. After graduation last June, only two student members were left on the chapter roll for 1940-41. One of these graduated at mid-year, so that at present Chairman Albert Jondro is the only active student member.

The faculty membership has also suffered losses during the year. Dean Stowell has found the duties of his office too heavy to permit active participation in the work of the chapter. Dr. E. R. Spencer of the Department of Biology is enjoying a year's leave of absence. Professors Schmidt, Hertenstein and McClure are the only staff members in Beta Chapter at present.

No eligible candidates for initiation were available at the opening of college last autumn, as several of the better sophomore science students found employment in industrial laboratories or in federal aviation. With such a small group available, it was found necessary to curtail the work of the chapter in several lines of activity. The monthly meetings of the Science Society, sponsored by the chapter, have been discontinued for the year, and the Wag-

goner lecture has been postponed until 1941-42.

The organization of the chapter has, however, been maintained and it is expected to increase the student membership from the present sophomore group of science majors. The Waggoner trophy, awarded annually to the outstanding science student of the year, was continued in competition and will be awarded at the June Commencement.

While the organized work of Beta has been at low ebb this year, individual members of the chapter have not been idle. Dr. Spencer's latest book, "Just Weeds", came off the press early last summer; it contains more than a hundred illustrations drawn by Emma Bergdolt, a Beta senior of last year. The manuscript of a second book of similar nature is being completed during Dr. Spencer's leave of absence. Professor Schmidt is a candidate for the doctorate at Washington University in June, and his dissertation on calorimetry will be published in the near future. Mr. Hertenstein, mathematics instructor, completed the Master's degree at the University of Illinois during the year and is continuing graduate study toward the doctorate.

Last June, seven members of Beta were graduated and an eighth completed the work at mid-year. Miss Bergdolt, Miss Hertenstein, Mr. Sager and Mr. Reed are teaching. Reed, incidentally, was the winner of the Waggoner trophy last year, and Mrs. Reed, another of last season's seniors, was awarded the cup in 1937-38. Mr. Beeler and Mr. Beard are now employed in the chemistry laboratories of the Aluminum Ore Company in East St. Louis, as is the Beta Chairman, Albert Jondro. Mr. Williams, last year's delegate to the Muncie Conclave, is in the graduate school at the University of Illinois.

EPSILON

Otterbein College, Westerville, Ohio

Affiliated, 1929

Master Scientist: Robert E. Waites

Vice Master Scientist: Frank Van Sickle

Recorder-Treasurer: Richard Wagner

Program Chairman: Dwight Spesard

Membership: Student, 10; Faculty, 6.

Epsilon Chapter is this year's host to the National Conclave which will be held at Otterbein on April 17, 18, and 19. Further information on the Conclave will be found elsewhere in this issue.

Epsilon's programs during the year have included talks on "How to Use an Analytical Key," "Do Our Eyes See Alike," "Ageing," "The Heart," and "A Physicist's Ideas of Ethics." The chapter is planning to hold its annual spring banquet in May.

The chapter sponsors a junior science club under the name of the McFadden Science Club. It is an associate club and draws its members from the ranks of the underclassmen who are interested in science.

ZETA

Central State Teachers College, Stevens Point, Wisconsin

Affiliated, 1929

Master Scientist: Robert Burkman

Vice Master Scientist: Merville Meverden

Recorder-Treasurer: Grace Winarski

Membership: Student Active, 22; Associate, 6; Faculty Active, 8; Honorary, 12

The third Wednesday of the month is the day for Zeta's meetings. At the first meeting of the year standing committees, namely program,

membership, and initiation were appointed. At the same time the "float" committee began work to represent the chapter in the annual Homecoming parade held at the College.

Homecoming means more to Zeta than just a football game, however. Following a custom started several years ago, the chapter has an annual alumni banquet during the homecoming weekend. This year's event was attended by the largest group of alumni in the history of the chapter. Many who had not had any connection with Sigma Zeta since graduation came back to attend the banquet which gets bigger and better with every year.

Twelve candidates for active membership were selected at the second meeting of the year, and were given their informal introduction to chapter activities in November. Because of Christmas conflicts and the press of too many professional obligations on the part of the faculty members of the chapter, the formal initiation was not held until January. Following the initiation a party was held in the Home Economics Parlors and a lunch closed the affairs of the evening.

Because chapter activities were bogging down in a morass of parliamentary peat instead of producing worthwhile programs, a committee was appointed to draw up policies for the betterment of the organization. In the hope that other chapters might benefit by Zeta's experience, these policies are summarized here:

1. Election for membership shall be held once only during each school year.

2. Faculty members are to be considered as active members if they have been formally initiated and have paid the regular initiation fee and dues for the current semester.

Otherwise they are to be considered honorary members.

3. The Recorder-Treasurer shall be an active faculty member, who shall also be chairman of the membership committee and who shall have charge of the alumni records. He should hold office indefinitely.

4. The officers of the chapter shall constitute an executive board to direct the course of chapter events and to organize the business for each meeting.

5. Standing committees shall be appointed at the March meeting to serve during the following year. The program committee shall prepare a tentative program for the following year and submit it for chapter approval at the May meeting.

At the last meeting delegates were chosen to represent the chapter at the Westerville Conclave. Half of the eight delegates are from the senior class and the other half are juniors. Zeta's two national officers will make the trip with the delegation.

At the same meeting, Professor Morrison, amateur herpetologist, gave a talk on snakes. Two films on scientific subjects were shown.

During the year a committee on alumni records has been at work compiling a list of alumni. It is planned to re-establish contact with these alumni members and keep them informed of chapter activities.

GAMMA

Medical College of Virginia, Richmond, Virginia

Affiliated, 1927

No report.

DELTA

State Teachers College, Kirksville, Missouri

Affiliated, 1927

No report.

IOTA

Indiana State Teachers College, Terre Haute, Indiana

Affiliated, 1933

Inactive.

No report.

ETA

State Teachers College, Cape Girardeau, Missouri

Affiliated, 1929

Inactive.

No report.

THETA

Elizabethtown College, Elizabethtown, Pennsylvania

Affiliated, 1932

Master Scientist: John H. Speidel

Vice Master Scientist: Ben Musser

Recorder-Treasurer: Janet Boyd

Membership: Student Active, 4; Associate, 2; Faculty, 2

Theta Chapter has had a rather inauspicious start this year with its few members. But at last report, Theta was planning to hold initiation for at least nine or ten new members, and with these the chapter hopes to go on to bigger and better things. In spite of their difficulty they are sponsoring the construction of a telescope.

KAPPA

Western Illinois State Teachers College, Macomb, Illinois

Affiliated, 1935

Master Scientist: Willard G. Warrington

Vice Master Scientist: Robert McNutt

Recorder - Treasurer: Glenadine Gibb

Editor: Lois Shriver

Historian: Ruth Shelton

Faculty Advisor: Dr. Mary A. Bennett

Membership: Student Active, 32; Faculty, 20; Honorary, 1

Kappa's monthly programs so far this year have included talks by a doctor, a public health officer, a psychologist and the local farm advisor. Programs for the remainder of the year will be largely student programs and will include a program given by the Physics Department and a special program by the Home Economics Department in the new Home Management House on Western's campus.

The most outstanding meeting this year was the annual banquet held in February, for which invitations were sent to all of Kappa's alumni. Preceding the banquet, initiation was held for five new members. Fifty-four members and guests were present at the banquet and program in the College Cafeteria.

Kappa threatens to have at least ten members present at the Conclave in Westerville. It will be interesting to see whether Kappa can outnumber Zeta which for two years has had the largest "foreign" delegation at the Conclave.

LAMBDA

**Mansfield State Teachers College,
Mansfield, Pennsylvania**

Affiliated, 1936

Master Scientist: Barbara Armstrong

Vice Master Scientist: Ruth Miller

Recorder: Edna Miller

Treasurer: Wilton Doane

**Membership: Student Active, 25;
Associate, 10; Faculty, 7; Honorary, 2**

Lambda Chapter has completed another active year as one of the outstanding organizations on the Mansfield campus. In November twelve active and eight associate members were initiated, and two more associates were accepted during the second semester.

The meetings have generally taken the form of student demonstra-

tions, papers on current scientific discoveries, and biographical reports. Dr. G. H. McNair, formerly of the mathematics department at M. S. T. C., gave a talk on mathematics at one meeting. At another meeting Miss Leberman of the faculty presented an illustrated lecture on geology in the western United States. The fall picnic and annual spring banquet were held with the usual high degree of success.

Lambda has been interested to note several rare instances of bird life in the vicinity of Mansfield this year. During the winter the chapter had the privilege of seeing and observing the almost extinct pileated woodpecker. Early in the spring a mockingbird and cardinal appeared, a very rare occurrence in northern Pennsylvania.

Dr. J. H. Doane, honorary member of Lambda Chapter and college physician, has left Mansfield to serve in the position of Lieutenant-Colonel in the regular army.

MU

**State Teachers College, Mankato,
Minnesota**

Affiliated, 1937

Master Scientist: Helen Atcherson

Vice Master Scientist: Ruth L. Roberts

Recorder - Treasurer: Stanley Stromswold

**Membership: Student Active, 6;
Associate, 1; Faculty, 4**

Mu Chapter directs the activities in the fields of mathematics and science for College Day, the day which gives high school students an opportunity to visit the College. The chapter presents an award to the graduating senior with the highest scholastic record in science and mathematics. Special projects include sponsoring a Science Club and an assembly program.

XI

Ball State Teachers College, Muncie, Indiana

Affiliated, 1938

President: Kenneth Conkling (Not in school)

Vice President: Alvin Lake (Acting President)

Secretary: Donna Belle Risk

Corresponding Secretary-Treasurer: Dr. D. E. Miller

**Membership: Student Active, 32;
Associate, 1; Faculty, 14; Honorary, 1**

Sigma Zeta members of the Xi Chapter were active in assisting with the details of the fall meeting of the Indiana Academy of Science held in November at Ball State Teachers College. The Academy of Science of Indiana has over 1,000 members, including nearly all science and mathematics faculty members of the colleges and universities of Indiana. There are two general meetings held each year, in the spring a meeting mainly for field work and in the fall a meeting at which papers on research are presented. At the fall meeting for 1940, about 225 members and 65 students registered.

Two student members of Sigma Zeta were assigned to each of the nine sections, botany, anthropology, bacteriology, chemistry, geology and geography, mathematics, physics, psychology, and zoology. Running lantern slide projectors and keeping their section informed as to the papers being presented in the other eight sections were their duties. Two students were also in charge of the banquet tickets, five helped with registration, and one assisted the treasurer in collecting dues. There were also students who acted as guides through the arboretum, art galleries, Burris Laboratory School, Teaching Materials Service, and swimming pool.

In connection with the Academy

meeting, the Junior Academy, made up of high school science clubs, met at the local laboratory school. There too, Sigma Zetans assisted by acting as chairmen for various committees of high school students. Two of the interesting features of this meeting were the numerous and varied exhibits displayed by the high school clubs and the papers presented by the high school students.

An attempt was made by Xi Chapter to interest other college groups in having a section for the presentation of papers on the level of undergraduate students. Letters were sent to numerous colleges and universities in the state suggesting such a move but the letters met with little response. It is hoped, however, that such a section can become a part of the Academy meeting in the near future. It would acquaint students of the state with the work being done by various students over the state as the Sigma Zeta Conclave does for the mid-west.

Xi Chapter planned and presented a radio program as one of the weekly Ball State Teachers College broadcasts over the local station. "War and Science" was the topic of the panel discussion presented. A student member from each of the four sections of the science department, chemistry, physics, biology, and geography, participated. The genetic aspect of biology and the physical aspect of geography were emphasized in those particular fields.

At the November meeting of the chapter, twenty students and one faculty member were initiated. Initiation was followed by a panel discussion on the subject, "The C. A. A. Program in Science and Mathematics." The Civil Aeronautics ground courses which are offered at Ball State have been taught by faculty members in the science and mathematics departments. These

faculty members presented the various phases of this ground school work and the entire C. A. A. program was summarized by the flying instructor with emphasis on the safety of flying and especially on the few accidents occurring in C. A. A. flying.

Dr. P. D. Edwards presented a revealing account of the work of editing the Indiana Academy of Science Proceedings at the February meeting. He told of the work of reading over the papers presented at the fall meeting of the Academy, figuring cost of printing and engraving, choosing the paper, reading proof, etc., 1400 copies of this book are printed and distributed to members of the Academy. This is the fiftieth year it has been printed. Dr. Edwards was elected editor at the fall meeting held at Fall State Teachers College.

Another important part of this meeting was the business which included several amendments to the constitution and discussion of the coming Conclave to be held at Otterbein College.

OMICRON

Wilson Teachers College, Washington, D. C.

THE CONCLAVE

At the present time, definite plans are not available for the Annual Conclave to be held at Otterbein College, Westerville, Ohio, on Thursday, Friday, and Saturday, April 17, 18, and 19. But we are prepared to give you a preview of at least a few of the features.

Thursday afternoon will be given over to registration, getting delegates lodged and looking over the Otterbein campus. On Thursday evening the student delegates will be entertained at the home concert of the

Master Scientist: Ula Frances Sheehy

Vice Master Scientist: Mary Ellen McLean

Recorder: Louis Rosenbloom

Treasurer: Hugh Fitzpatrick

Faculty Advisor: Dr. Henry W. Olson

Membership: Student Active, 10; Faculty, 5; Honorary, 1

Although the chapter has gone on several field trips this year, most of the activity has been directed toward planning and setting up a science show which it is sponsoring this spring. The theme is "New and Different Experiments for Junior High School Science." Use is made of as much home-made equipment as possible. Also on exhibit will be apparatus made by junior high school students throughout the city.

Dr. Olson, Omicron's faculty advisor and graduate of Otterbein College, is doing research for the Public Health Department.

Omicron sends greetings to all the chapters, and would like to hear from them. It suggests that some system be worked out whereby the chapters could keep in contact with each other between Conclaves.

Otterbein Women's Glee Club and there will be a social hour after the concert. At the same time, Thursday evening, the national officers will hold the regular meeting of the Grand Council.

Friday morning there will be a short business meeting. This will be followed by presentation of papers which will take up the time for the rest of that session. It is hoped that a sufficient number of papers will be presented so that this meeting can be divided into major interest groups.

That is, biology, chemistry, mathematics, and physics papers will be presented in separate rooms at the same time.

Friday afternoon will be given over to inspection trips. Only one of these is definitely arranged at the present time. It will include the G. Frederick Smith Chemical Company, manufacturers of perchloric acid and rare-earth salts; the Aerated Products Company, an interesting little concern where the popular canned whipped cream used at soda fountains was developed and is packaged; the Ohio Archeological and Historical Museum where a talk will be given by the curator, Mr. Shetrone. If time permits, the new cyclotron on the Ohio University campus will be inspected. It may be possible to arrange a trip to the Perkins Observatory at Delaware, Ohio, where the largest telescope available for student use may be seen.

The banquet will be held on Friday evening, and Saturday morning

will be devoted to the final business session and some additional papers.

It is planned to provide lodging for all delegates and, so far as possible, breakfast. The registration fee will provide for one breakfast, a lunch and the banquet. It would help the host chapter very much if it could have advance information about the number of delegates who will attend the Conclave. Registrations should be sent to the Grand Master Scientist not later than April 10. Fees can be paid on arrival.

It is requested that all chapters provide papers for the program and send in the blanks which were provided to them some weeks ago.

Epsilon Chapter extends to all chapters a cordial invitation to have as many delegates as possible at the Conclave. Westerville is situated twelve miles north of Columbus, Ohio, and is easily reached by rail, bus, or highway. Since the location is central for Sigma Zeta, it is hoped that there will be a large attendance from all chapters.

THE GRAND OFFICERS

THE VICE MASTER SCIENTIST

Justin L. Glathart was graduated from the Case School of Applied Science with a B. S. in Physics, after which he was appointed instructor in physics at Williams College, Williamstown, Mass. Four years later he resigned to do graduate work at the University of Michigan, where he had been appointed part-time instructor in physics. After obtaining his Master's degree at Michigan he was called back to Williams where he served another four years. In 1935 he entered the University of Chicago to complete his graduate work, securing a doctorate in physics. He is now Professor of Physics and Head of the Department of Mathematics and

Physics at Shurtleff College, Alton, Illinois. He is a member of the American Association for the Advancement of Science, the American Physical Society, and Sigma Xi, among others.

THE GRAND EDITOR

Gilbert W. Faust received his B. S. degree at the University of Wisconsin in 1934 and his M. S. in 1940. In the spring of 1935 he taught chemistry at the Baraboo, Wisconsin, High School, and since the fall of 1935 has been an instructor in chemistry at Central State Teachers College in Stevens Point, where he became a member of Sigma Zeta. Mr. Faust is a member of Phi Delta Kappa and Phi Lambda Upsilon.

THE GRAND HISTORIAN

S. M. McClure was born in 1888 near New Albany, Indiana, where he attended public and high school. His undergraduate work was done at Wabash College, Crawfordsville, Indiana, and at Drury College, Springfield, Missouri, from which he obtained a B. S. degree in 1914 and a Master's degree in 1915. Since then he has done graduate work at Northwestern, Washington (St. Louis), Illinois, Harvard and the Colorado College of Education. Teaching positions include those at Drury College, Elgin Junior College, and at Washington U. Since 1919 Mr. McClure has been at McKendree College, Lebanon, Illinois, as Professor of Geology and Chemistry. He is a charter member of Beta Chapter, and has served as Grand Historian since the founding of the office except for the two years, 1935-37.

(Editor's note) It is with sincere regret that we learn that Brother McClure has been more or less on the sick list during the past year, and that he may not be able to be present at the Conclave. We earnestly hope that he will be present, for meeting and working with Mr. McClure is the high spot of the year's Sigma Zeta activity.

THE GRAND RECORDER-TREASURER

Thomas A. Rogers received his B. S. degree at Illinois Wesleyan University at Bloomington, Illinois, in 1911, and his M. S. at the Pennsylvania State College at State College, Pennsylvania, in 1930.

After teaching at the high school in Paxton, Illinois, from 1911 to 1914, Mr. Rogers went to Central State Teachers College in Stevens Point where he is still in the Chemistry Department, serving at present as its head.

Since 1936 he has been associated with a Wisconsin canning company, in the capacity of technical advisor in connection with the canning of peas and soy beans. This organization is one of a very few in the United States which is canning green soy beans.

Mr. Rogers is a member of the American Association for the Advancement of Science and of the American Chemical Society. He has been Grand Recorder-Treasurer of Sigma Zeta since 1932.

THE PAST GRAND MASTER SCIENTIST

Dr. P. D. Edwards was born in Owensville, Indiana. He received a B. S. degree from Oakland City College in 1915, and a Master's degree from Indiana University in 1923. After graduate work at Harvard and Chicago, he received his doctorate at Indiana in 1929.

After teaching in high schools in Zionsville, Ft. Wayne, and Indianapolis, he became associated with the Mathematics Department of Ball State Teachers College at Muncie, Indiana, where he served as Assistant Professor from 1926 to 1929, Associate Professor from 1929 to 1940, and since 1940 as Professor.

He is a member of Phi Beta Kappa, of Sigma Xi, and a charter member of Xi Chapter, Sigma Zeta. He has held numerous offices in professional organizations, including Grand Master Scientist of Sigma Zeta, and is at present Editor of the Indiana Academy of Science.

As a hobby he prefers growing flowers in the back yard to golf or any other game. He spends his vacations traveling with his family, and their trips have covered 40 states and four Canadian provinces. During 1918-19 he served in the Engineering Corps with the A. E. F. in France and Germany.