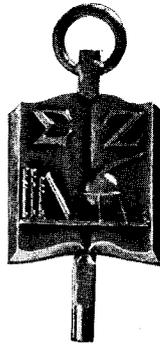


THE SIGMA ZETAN



VOLUME XX

SAN ANTONIO, TEXAS, MAY 1949

NUMBER 2

OUR LADY OF THE LAKE COLLEGE

THE SIGMA ZETAN

Official Organ of SIGMA ZETA
NATIONAL OFFICERS

National President	CHESTER W. BENNETT, <i>Kappa Chapter</i>
National Vice-President	ROBERT E. SHELLEY, <i>Xi Chapter</i>
National Recorder-Treasurer	GILBERT W. FAUST, <i>Zeta Chapter</i>
National Historian	STANDLEIGH M. MCCLURE, <i>Beta Chapter</i>
National Editor	SISTER MARY CLARENCE, <i>Sigma Chapter</i>
Past National President	DONALD E. MILLER, <i>Xi Chapter</i>

MINUTES OF THE TWENTIETH ANNUAL CONCLAVE OF SIGMA ZETA

The twentieth annual conclave of Sigma Zeta was called to order by President C. W. Bennett at 10:39 A.M., Friday, April 22, 1949, at Central State Teachers College, Stevens Point, Wisconsin. Zeta Chapter was in charge of arrangements for the meeting. Dr. Bennett introduced William C. Hansen, President of CSTC, who extended greetings on behalf of the college. Dr. R. L. Shelley, National Vice-President of Sigma Zeta, replied for the organization.

President Bennett made a few comments on the gavel which he was using, and passed it around for the members to examine.

The minutes of the previous conclave were approved as read.

Introduction of the delegates present at the meeting, revealed that these chapters were represented: BETA, EPSILON, ZETA, KAPPA, MU, XI, UPSILON, and PHI.

The reports of the National President, National Recorder-Treasurer, National Historian, and National Editor were read and adopted. Copies of these reports are appended to these minutes.

The report of the special Committee on affiliation with the Association of College Honor Societies was read. Mr. Miller moved that the report be accepted and the committee discontinued. The motion passed. A copy of the report is appended to these minutes.

A summary of the discussions and actions of the National Council, which had met the previous evening, was presented at this time. A copy of these proceedings is attached to the minutes.

It was moved to adopt the Council's recommendation that \$100.00 be appropriated to help defray student delegates' traveling expenses to the conclave; the money is to be rebated to the chapters on the basis of the number of man-miles traveled by their student delegates. The motion was seconded and carried.

It was moved that the Council's recommendation regarding travel

allowances for the national officers to next year's conclave be adopted. This would allow travel expenses not exceeding one-half of the round trip railway fare. The motion was seconded and carried.

A telegram from ALPHA Chapter at Alton, Illinois, inviting Sigma Zeta to hold its 25th anniversary conclave there in 1950, was read. It was moved that the invitation from ALPHA Chapter be accepted. The motion was seconded and passed.

The following temporary committees were appointed by the president: AUDITING—Merle Ahrendt, Upsilon; Ellsworth Beetch, Mu; C. J. Stowell, Beta; Paul Craig, Epsilon; NOMINATING—D. E. Miller, Xi; Shelby Smith, Kappa; Elroy Gotter, Zeta; Eldon VanSandt, Phi; Zylpha Hurlbut, Upsilon; RESOLUTIONS—Floy Hurlbut, Xi; Harold Onkst, Xi; O. V. Myers, Phi; Marion Tessier, Upsilon; Dale Endter, Kappa; FOUNDERS' CUP AWARD—C. W. Bennett, Kappa; G. W. Faust, Zeta; Lorraine Meyer, Zeta; PUBLICATION OF THE HISTORY—S. M. McClure, Beta; Sister Mary Clarence, Sigma; G. W. Faust, Zeta; D. E. Miller, Xi; MERGER STUDY—Next year's President (Mr. Shelly); Nathan Woodruff and Paul Griffin, former members of Xi Chapter.

It was announced that, following the practice initiated last year, several chapters would be responsible for reporting various phases of the conclave activities to the National Editor for publication in the SIGMA ZETAN, as follows: Field Trip—MU; Entertainment—BETA; Student Papers—UPSILON; Addresses—PHI.

The business meeting was adjourned until 11:00 A.M. on Saturday.

At the resumption of the business meeting, the president announced that the condensations of the student papers which were given at the conclave should be very brief, in order to avoid heavy expense in the publication of the next issue of the SIGMA ZETAN. This would permit the publication of an impressive 25th anniversary number next year.

A motion was made by Dr. Miller and seconded by Mr. McClure that \$25.00 per chapter be allocated to each of certain chapters to encourage these chapters, who are not likely to send representatives to the 1950 conclave to send one carload including one faculty representative; the chapters to be reimbursed would be designated before the conclave by the National Council, but should probably include only those from Pennsylvania, Washington, D. C., Virginia, Texas, and Minnesota; any money not used would revert to the national treasury. The motion was passed.

Recognition was made of the fact that the two oldest members of Sigma Zeta, in point of active service, were present at the conclave. They are C. J. Stowell and S. M. McClure, both charter members of Beta Chapter which was installed on June 9, 1926. Mr. Stowell has for years been secretary of Beta Chapter. He was National Recorder-Treasurer for one year, and has served on several national committees. Mr. McClure is now in his 18th year as National Historian.

The Auditing Committee reported that it had examined the treasurer's books; that the bank balance of \$437.75 is correct, and that the

balance on the books should be adjusted to correspond to this figure. The report was adopted.

The Resolutions Committee presented its report, a copy of which is attached to the minutes. The report was adopted.

The Founders' Cup Award Committee report was presented by Miss Meyer who awarded the cup to XI Chapter. Her report is attached to the minutes.

The Nominating Committee's report was presented by Zylpha Hurlbut, who moved that the report be accepted and the slate of officers be declared elected. The motion was seconded and carried. Officers elected for the 1949-50 term are:

National President	Robert L. Shelley, Xi Chapter
National Vice-President	Merle H. Ahrendt, Upsilon Chapter
National Recorder-Treasurer	Gilbert W. Faust, Zeta Chapter
National Historian	Standleigh M. McClure, Beta Chapter
National Editor	Sister Mary Clarence, Sigma Chapter
Past National President	Chester W. Bennett, Kappa Chapter

Mr. Bennett presented the gavel to Mr. Shelley, who responded briefly.

The twentieth annual conclave of Sigma Zeta was adjourned at 11:30 A.M., Saturday, April 23, 1949.

PROCEEDINGS OF THE NATIONAL COUNCIL OF SIGMA ZETA

April 21, 1949

The National Council met in a pre-conclave session at Central State Teachers College, Stevens Point, Wisconsin, on April 21, 1949. Following is a summary of the formal actions taken at the meeting:

There was considerable discussion about the possible merger of Sigma Zeta with Chi Beta Phi, a similar organization operating chiefly in the southeastern United States. Mr. Miller moved to appoint a committee to investigate the merger proposition. Mr. Faust seconded and the motion passed.

Mr. Faust moved that the Council recommend to the National Chapter that \$100.00 be appropriated to help defray student delegates' expenses. Mr. Miller seconded and the motion passed.

Mr. Miller moved that the Council recommend that National Officers be allowed travel expenses to the 1950 conclave, not to exceed one-half of the round trip fare. Mr. McClure seconded and the motion passed.

It was recommended that a committee be established for the publication of a History of Sigma Zeta. The Historian, Editor, Recorder-Treasurer, and Mr. Miller were appointed.

REPORT OF THE NATIONAL PRESIDENT TO THE ANNUAL CONCLAVE OF SIGMA ZETA

April 22, 1949

This has been a rather quiet year. We have installed two new chapters, UPSILON at Anderson, and PHI at Eureka. Past President Miller and Vice-President Shelley officiated at the former, while Past President Eller and I acted at Eureka. This then makes 20 chapters installed; two have been dropped, and three are inactive. (Ed note: Since the conclave PI has been heard from, so there are only two inactive.) I had inquiries from Roosevelt College but nothing further came of it.

I have had excellent cooperation from all the officers and appreciate their fine attitude.

During the last two months, I have spent considerable time collecting data and opinion on a possible merger with Chi Beta Phi, a society of very similar aims located mostly in the southeast. It came about as follows: When Prof. Eller wrote to the Association of College Honor Societies asking for membership, the secretary wrote back telling him of this other similar society and suggested that a larger organization might have a better chance of getting recognition. Evidently he wrote to the other society in a similar vein because before we could write them, Mr. Eller received a letter from Dr. A. D. Callihan, Jr., of Oak Ridge, Tenn., their national president, suggesting that a merger might be possible. Chi Beta Phi was organized in 1916, had in 1948 a total membership of 3,700. Sigma Zeta had in 1948 2400. They have installed 28 chapters of which 3 have been dropped and 7 are or have been inactive. This makes 17 active chapters. That compares with our 15. (16) Their national officers seem to favor the merger. Personally I favor a merger in principle if a suitable compromise can be worked out. It is obvious that they have isolated chapters in our territory just as we do in theirs. One of our most isolated chapters being in the midst of their greatest density. It would make the group more nearly national although even then it would have only a few west of the Mississippi. However, travel to the conclaves would be even more difficult. Regional meetings might help out. I am therefore not recommending that we merge with Chi Beta Phi but that we give it our attention and study the matter thoroughly until 1950 before taking any definite action.

C. W. Bennett
National President

**SIGMA ZETA HONORARY SCIENCE SOCIETY
FINANCIAL REPORT**

April 19, 1949

RECEIPTS

Balance on hand, April 1, 1948	\$231.00	
Fees from chapters:		
Alpha 20 Init. Fees	\$40.00	
Beta 8	16.00	
Gamma 20	40.00	
Delta 20	40.00	
Epsilon 23	46.00	
Zeta 10	20.00	
Kappa 40	78.50	(\$1.50 credit from last year)
Lambda 26	52.00	
Mu 18	36.00	
Nu 24	50.00	(\$2.00 overpaid and refunded)
Xi 47	94.00	
Sigma 6	12.00	
Tau 7	14.00	
Upsilon 22	44.00	
Phi 25	50.00	
Upsilon Charter Fee	<u>25.00</u>	
		657.50
Jewelry Sales:		
Alpha	89.10	
Beta	59.35	
Gamma	94.40	
Delta	67.45	
Epsilon	41.15	
Zeta	107.50	
Kappa	87.50	
Lambda	30.00	
Nu	72.20	
Xi	58.75	
Sigma	58.00	
Tau	37.00	
Upsilon	71.55	
Phi	<u>169.75</u>	
		1043.70
Stationery and Cuts:		
Gamma	1.50	
Zeta	2.25	
Xi	4.50	
Phi	<u>4.25</u>	
		12.50
TOTAL RECEIPTS		<u>\$1944.70</u>

EXPENDITURES

Jewelry (to College Shop)		\$1100.00
1948 Conclave Expenses:		
Traveling expenses:		
Epsilon	\$ 6.45	
Kappa	19.35	
Zeta	24.20	
Nat'l Recorder-Treas.	<u>23.70</u>	73.70
Printing:		
Upsilon and Phi Charters	18.00	
Sigma Zetans	246.60	
Stationery	<u>16.25</u>	280.85
Office Expenses:		
National President	3.76	
Nat'l Recorder-Treasurer	<u>15.99</u>	19.75
Miscellaneous:		
Subscriptions	3.50	
Engraving Cup and Gavel	6.82	
Phi Chapter Installation	10.00	
Corporate Report Fee	1.00	
Picture of Gavel	5.00	
Refund overpayment		
—Nu Chapter	<u>2.00</u>	28.32
TOTAL EXPENDITURES		<u>\$1502.62</u>
BALANCE ON HAND, April 19, 1949		442.08

**REPORT OF THE NATIONAL HISTORIAN TO THE
ANNUAL CONCLAVE OF SIGMA ZETA**

April 22, 1949

Acting under instructions given at the 1948 conclave, the office of the Historian has to compile a history of the first twenty-five years of the society. The general organization of the history has been set up and tentatively approved last year both by the National Council and by the Conclave.

Much of the material has been reduced to writing and portion of the history of the first years of the society has been given the Council in approximately final form. This copy should be available for inspection at this meeting and both comments and criticisms will be welcomed by the Council and the Historian.

As it anticipated that the action of this Conclave and at least a portion of the coming year in Sigma Zeta, will be included in the history,

the writing of the last few chapters is yet to be done.

The decision of the Council is asked as to the final form of the organization of the material, the length of the history, and the proposed make-up of the publication. It is expected that the costs of printing and binding will influence the decision of the Council on the items listed above as well as on the total number of copies to be issued.

Your historian takes this opportunity to thank all who have aided in assembling the material for the history and is especially indebted to the chapter officers for the information and data on each group.

Respectfully submitted,
/s/ S. M. McClure
National Historian

REPORT OF THE NATIONAL EDITOR TO THE ANNUAL CONCLAVE OF SIGMA ZETA

April 22, 1949

Excerpts from a letter to C. W. Bennett, National President:

" I am sorry to have to inform you that I shall not be able to attend (the conclave).

"I have again written to all the chapters except Eta and Theta who, I understand, have been definitely dropped and their charters recalled, to send in chapter news and activities, the number of copies of the SIGMA ZETAN needed, and the name and address of the person to whom these should be mailed. If Texas seems to be in the news too often, it is due to dearth of news from other chapters. With this information in on time we may be able to economize on our printing bill. In December we had 450 copies printed, but we would have had enough with 400. If any of the National Officers or chapters would like to have some of the December copies I shall be glad to mail them to them.

"With best wishes for a very interesting meeting in Wisconsin, I am,

"Sincerely yours
/s/ Sister Mary Clarence
National Editor"

REPORT OF THE SPECIAL COMMITTEE ON AFFILIATION

April 15, 1949

This committee wishes to report that Sigma Zeta is now listed in The World Almanac. In the listing, however, the publishers made a mistake by classifying this society as Pre-Medical, under Honor Societies. Their attention has been called to this and it is hoped that the classification will be correct in the next issue.

In regard to membership in the Association of College Honor Societies the matter stands as follows: Since member societies of that

organization are restricted to the establishment of chapters only in colleges which are accredited by the regional accrediting agency, and since Sigma Zeta has some chapters in colleges which are not so accredited, the question was raised whether Sigma Zeta would be given membership if it complied with this restriction in the future but retained its present chapters. The National Secretary of that organization said he could not answer that by himself, but would bring the question before the National Council when it meets in February or March of this year, 1949. Not having received a reply by the latter part of March, I wrote again, asking for the decision of the Council so that I may report it at our national meeting in April. A letter arrived this week saying that our petition had been discussed but that no action was taken although the consensus of opinion was that no society with chapters in unaccredited colleges would be accepted.

/s/ W. H. Eller
Chairman

REPORT OF THE RESOLUTIONS COMMITTEE TO THE ANNUAL CONCLAVE OF SIGMA ZETA

April 23, 1949

We, the Resolutions Committee, wish to submit the following resolutions for adoption by the Conclave.

Be it hereby resolved that we, the delegates of the 1949 National Conclave of Sigma Zeta, express our sincere appreciation to the following people for their help in making this a successful and inspiring Conclave:

To ZETA Chapter for their generous hospitality, especially to their president, Greg Quinn, and other officers, to Mr. Faust and the science staff for their leadership in planning and staging this conclave;

To President Hansen and the administration of the Central State Teachers College for their gracious welcome to their campus;

To our two guest speakers, Dr. J. E. Todd of the Institute of Paper Chemistry, and Mr. Fred J. Schmeekle, Chairman of the Conservation Department of Central State Teachers College, for the generous use of their time, and energy in giving us these inspiring addresses;

To the Marathon Corporation for their courtesy in showing us through their magnificent plant;

To the students who have had a place on this program, for their interest in original research, as expressed in their papers which have contributed so largely to the success of this conclave;

To our worthy president, Dr. C. W. Bennett of Kappa Chapter, for his capable leadership during the past year, and to the other national

officers and national committees for their untiring efforts in carrying out the work of the year.

Respectfully submitted,
/ss/ Marion Tessier
Dale Endter
Harold R. Onkst
Oran V. Myers
Floy Hurlbut, Chairman

REPORT OF THE FOUNDERS' CUP AWARD COMMITTEE April 23, 1949

The Founders' Cup is an award presented to the Chapter which has done the most outstanding work in Sigma Zeta for the year. This award cannot be given to the same Chapter a second consecutive year. It was first presented to Epsilon Chapter, Otterbein College, Westerville, Ohio, at the 1947 Conclave. Last year it was presented to Zeta Chapter, Central State Teachers College, Stevens Point, Wisconsin; and this year it is my privilege to award it to Xi Chapter, Ball State Teachers College, Muncie, Indiana. The Founders' Cup Committee, Dr. Bennett, Mr. Faust, and Lorraine Meyer decided upon Xi Chapter as the most deserving Chapter to receive the cup for the following reasons:

1. It has been a consistently strong chapter since first established.
2. It has entertained the National Conclave three times.
3. It has had a national president and vice-president.
4. It has been very cooperative with the National office.
5. It has supported the Conclave consistently with student papers.
6. It has attended every Conclave since the chapter was established.

Respectfully submitted,
/s/ Lorraine Meyer

The \$100.00 appropriated to help defray student delegates' traveling expenses was rebated on the following basis:

Beta Chapter	3 members	475 miles	1425/11195	\$ 12.72
Epsilon Chapter	5 members	600 miles	3000/11195	26.80
Kappa Chapter	3 members	370 miles	1110/11195	9.92
Xi Chapter	4 members	500 miles	2000/11195	17.87
Upsilon Chapter	2 members	480 miles	960/11195	8.58
Phi Chapter	4 members	300 miles	1200/11195	10.72
Mu Chapter	5 members	300 miles	1500/11195	13.40
		TOTAL	11195/11195	\$100.01

DELEGATES REGISTERED FOR THE ANNUAL CONCLAVE OF SIGMA ZETA, APRIL 21, 22, 23, 1949

BETA (5)

1. S. M. McClure
2. Benjamin T. Anderson
3. Robert Reizer
4. R. Mason Holmes
5. C. J. Stowell

EPSILON (5)

6. Edna Roberts
7. Dorothy Dreher
8. Richard Sellers
9. Paul Craig
10. Ronald Warrick

ZETA (35)

11. Douglas Graham
12. Bernard Sbertole
13. Eugene Smiley
14. Elroy Gotter
15. George Negley
16. Percy Voight
17. Bob Morgan
18. Greg Quinn
19. Ed Furstenberg
20. Clarence Kluck
21. Joann Kenney
22. Ken Garska
23. John Barttelt
24. Dick Miller
25. Dick Green
26. Gilbert W. Faust
27. Lorraine Peters (alumni)
28. Bill Eiche
29. Bernard Waldoch
30. Catherine Weber
31. John Judd
32. Lorraine Meyer
33. Irving Korth
34. Wilmar Cox
35. E. F. Pierson
36. J. R. Hicks
37. Roland A. Trytten
38. R. M. Rightsell
39. Bessie May Allen
40. Helen Meston

41. Emily Wilson
42. W. R. Sylvester
43. Monica Bainter
44. O. F. Nixon
45. Kenneth Boylan

KAPPA (4)

46. Robert E. Lee Cozine
47. Dale Endter
48. Shelby Smith
49. C. W. Bennett

MU (5)

50. Charles Johnson
51. Earnest Ray
52. Ellsworth Beetch
53. Edward Putzier
54. Gordon Pierce

XI (7)

55. Robert L. Shelley
56. Donald E. Miller
57. Harold Onkst
58. Lawrence Groh
59. Charles Lynch
60. Floy Hurlbut
61. Gerald Hammer

UPSILON (4)

62. Zylpha Hurlbut
63. Marion Tessier
64. Philip Good
65. M. H. Ahrendt

PHI (5)

66. B. F. Brown
67. Richard M. Johann
68. J. M. Allovio
69. Oran V. Myers
70. Eldon VanSandt

GUESTS:

- Mrs. C. J. Stowell (Beta)
Mrs. Shelby Smith (Kappa)
Fred J. Schmeackle (Zeta)

FROM WOOD TO PAPER

Report of the field trip to the Marathon Corporation Pulp and Paper Mill
Mu Chapter

Boarding the bus at Steven's Point, we travelled to Rothschild, Wisconsin for a tour of the Marathon Corporation Pulp and Paper Mill located on the banks of the Wisconsin River.

Three hundred cords a day are fed into the slashers which are buzz saws, cutting the timber into convenient lengths. The necessary removal of the bark from the logs is accomplished by means of a drum barker. The bark is then utilized as a supplement for coal. The debarked logs are admitted to a chipper. The small chips are fed to digesters which are about twelve feet in diameter and sixty feet high. Calcium bisulfite which is manufactured at the plant from sulphur and limestone, is mixed with the chips and this is cooked for about 8½ to 11 hours under a pressure of 80 pounds per square inch and 143 degrees Centigrade. This process frees the individual fibers of the wood by dissolving out the lignin as calcium lignosulfonate. In the blow pit, the waste liquor is drawn off, and the pulp is transferred to a knotter which is a series of screens that removes large slivers and knots. It is then run over flat screens to remove finer slivers. The material that passes through the screens is the acceptable pulp.

From the screens the pulp and water is transferred to the thickener which eliminates some of the water. Samples are taken of the pulp at this stage and made into paper. On this paper tests are run with regard to tensile strength and tear. From the thickener the pulp goes to the storage tank and is removed to the first stage of bleaching as is needed. At this first bleaching stage the chlorine gas is added directly to the pulp rendering part of the coloring material soluble. After this the pulp is neutralized with lime, washed on a vacuum filter and sent to the second stage of bleaching where sufficient calcium hypochlorite is added to produce the desired whiteness. After washing again the pulp is fed to an impressive array of huge rollers which binds the pulp together into sheets. These sheets, called pulp mats, are cut, weighed, and stored until required for paper making.

The pulp mats are fed to a beater along with rosin, starch, clay, alum and dye in amounts depending upon the desired quality of the finished paper. This mixture is skimmed off the water and transferred subsequently to a beater chest, refiner, and consistency regulator. Then the thin pulp suspension flows into vats where it is picked up by an endless wire belt which deposits it on a felt. This felt runs over the top of cylinders which picks up a thin ply of wet paper and combines these sheets to form a thick sheet of paper. The wet sheets are carried through press rolls which remove the excess water. The sheets are then carried to a number of steam heated dryer rollers where the moisture content of the paper is reduced to the proper amount. The dried sheets are next passed through calender stacks where rollers smooth the paper to give it

a high finish. The paper from the stacks is wound alternately on two reels. These reels are then sent to a rewinder for trimming and cutting to the desired widths. The paper is then ready for the consumer.

Stream pollution necessitates the recovery of the waste products. From these waste products numerous by-products are manufactured. Among them being chemicals for the dyeing industry, boiler compounds and vanalin.

Thus tired but enlightened, we returned to the banquet awaiting us at Central State Teacher's College.

INSTITUTE OF PAPER CHEMISTRY

Phi Chapter

In an informal yet genuine approach, Dr. J. Edward Todd, assistant dean of the Institute of Paper Chemistry, presented an after-dinner speech to the members at the conclave. He brought forward first-hand information on the institute, information which would not have been otherwise available to the majority of the representatives present.

As Mr. Todd said, the school which he represents was a pioneer in the cooperative movement between industry and education. The results of such experimentation has already shown its merits, for the school has trained and produced leaders in all phases of the paper pulp industry.

The specific requirements for a successful completion of a four year course leading to a doctorate were carefully outlined by the dean. The school is highly selective. Although most people are of good physical health, a smaller number possess good mental health, that is correct social adjustment, temperamental maturity, and excellent character, and leadership abilities. Whereas, a medium number of individuals meet the first two qualifications, a lesser group has the third quality, a developed line of divergent yet integrated interests. These interests must lean strongly toward science. The fourth consideration is intelligence. Only a few thousands possess the required intelligence to complete the institute's program. Now, for the final attribute, which is the deciding factor for success in the institute. A man must have good physical health, good mental health, directed interests, and superior intelligence, but, above all, he must possess an applied background in all the four major sciences as well as a creative mind. In other words, he must be able to apply a large reserve of knowledge.

Dr. Todd sees the qualities mentioned above as a pyramid with physical health as its base and knowledge as the apex. He stated that these requirements are probably necessary for successful leadership in any field that science majors might enter.

Much of the research that the institute performs in training its students applies specifically to problems brought forward by member paper companies. The member companies together produce 80% of the paper and paper products produced annually in the United States.

The project is large. The school is well equipped. The staff is excellent. Requirements are a little more than stiff. But, for the real student interest in going somewhere, The Institute of Paper Chemistry offers unlimited possibilities.

Work done at the institute is accredited through Lawrence College, Appleton, Wisconsin.

CONSERVATION

Phi Chapter

In addition to several movies on conservation, Fred J. Schmeekle, Chairman of the Conservation Department, Wisconsin Central State Teachers College, provided the conclave attendees with a speech on conservation.

Mr. Schmeekle saw the most important problem facing the world to be the population v.s. food and man v.s. resources. He defined conservation as, "Intelligent resource use."

Fortunately, the United States is now beginning to put into use the theories on conservation advanced by leaders in the field for many years. Mr. Schmeekle suggested starting at the bottom of the educational ladder in reaching the public. The first grader on up should become aware of the conservation program.

In summing up his speech, the chairman stated that conservation is threefold. It embraces scientific research, teaching the public, and practice. Each is necessary to a successful completion of the nationwide project.

Four movies of a high quality, "Birth of the Soil", "This Vital Earth", "Arteries of Life," and "Seeds of Destruction" were given following Mr. Schmeekle's address.

ENTERTAINMENT AT THE NATIONAL CONCLAVE

Beta Chapter

The delegates and guests at the 1949 national conclave at Stevens Point, Wisconsin, were royally entertained by the Zeta Chapter, Central State Teachers College, in cooperation with the national officers and the college administration. The arrangements included housing at the Hotel Whiting, a banquet Friday evening at Nelson Hall, and a group breakfast Saturday morning at the hotel. At the banquet the tables were beautifully decorated with evergreens. Each guest received as a favor a small well-rooted pine tree potted in a paper cup, the cup being marked with the Sigma Zeta emblem. Also, to each place card was attached a handsome fishing fly, in honor of one of Stevens Point's leading industries. The banquet and breakfast were well served and were thoroughly enjoyed by all. At the close of the session appropriate resolutions were adopted thanking all concerned for our excellent entertainment.

NEWS FROM THE CHAPTERS

Alpha Chapter
Shurtleff College
Alton, Illinois

Gamma Chapter
Medical College of Virginia
Richmond, Virginia

Dear Editor:

Dear Editor:

On the twelfth of April, nine new members were initiated into the Alpha Chapter with a luncheon and a guest speaker from Owens-Illinois Glass Company of Alton, Illinois. The following Members were presented their keys and certificates by Henry Romanko, the president of the chapter: Doctor E. White, head of the Chemistry Department; Dic Ambrosius; Ralph Barnhorn; Robert Long; Donald Long; George Rieken; William Schmitt; Norman Showers; and Allyn Weeks.

The Alpha Chapter now has sixteen student members and four faculty members. It will lose five members this year through graduation. They are: Manford Ruby, James Reinhardt, George Rieken, William Schmitt, and Alvin Lopinot.

The chapter intends to elect officers at the first meeting in May to carry on its work next fall.

The chapter has been having its monthly meetings in Hunter Hall, the biology department, which has just been redecorated by the students and Dr. Charles Walker, Jr. head of the department.

Please send twenty six copies of Sigma Zetan to A. Lopinot, 11 Worden Court, Alton, Illinois.

Sincerely yours,

A. Lopinot

Vice President

During the last two years the Gamma Chapter has grown considerably, and its activities have increased proportionately. The chapter is composed of Ralph E. Haynes, President; Edward Perry, vice-president; John W. Martin, secretary; Miss Helga Stixrud, treasurer; and the following members: Robert Waller, Donal Parker, Stanley Simon, Ralph Stalter, Frank Sykes, Robert Dutton, Britton Beasley, Ernest Duvall, Arthur Snellings, William Pearlman, Reuben Chewning, Thomas Largen, Wyndham Blanton, Stuart Ragland, John Dilday, Hugh Wrenn, Ernest Spittler, George Sewell, and the Misses Pauline Jones, Jean Hayter, Clarissa Geiger, Jeanette Windsor, Helen Morton, and Ellen Swetnam. Dr. Harry Lyons of the School of Dentistry is the chapter advisor.

The Gamma chapter initiated a series of annual lectures on April 8, 1949, with Dr. Morris Fishbein, noted lecturer and editor of the Journal of the American Medical Association being the principal speaker.

While in Richmond Dr. Fishbein and his son, Justin, along with the school officials and the chiefs of service at the Medical College of Virginia were entertained at a luncheon at the Virginia House. Later in the day Dr. Fishbein was taken on a tour of the city and of the Medical College of Virginia. He was especially pleased to see that the plans which he saw on a previous visit have materialized

to make this a modern and well equipped school and hospital.

At 6:30 p.m. a delicious banquet was served at the Commonwealth Club in honor of our speaker.

In his address held in the auditorium of the John Marshall High School, Dr. Fishbein discussed "The A.M.A. Program for Medical Care." To the delight of a large audience he interjected a great deal of humor and wit into his very sound and reasonable discussion of this very important problem. He admitted that the nation needs an integrated plan for medical education and care which will keep the fundamental principles of individual initiative and incentive that made America great, and he emphasized that, fortunately, many enlightened leaders believe that it is far better to build on what we have than to create chaos with a view to building something wholly new on what would be left of our great American system of medicine.

We have found that sponsoring this lecture has created a great deal of interest and has made membership in this society a coveted honor.

Sincerely yours,
Ralph E. Haynes
President

Beta Chapter
McKendree College
Lebanon, Illinois

Dear Editor:

Our membership is the same as at last report, except that one student, Mr. Simpson, finished his

work at the middle of the year and is now doing graduate work in Colorado. We hope to have a delegation at the Conclave at Stevens Point and to present a student paper. We can use about twenty-five copies of the next issue of the Sigma Zetan, which may be mailed to the undersigned.

Sincerely yours,
C. J. Stowell
Recorder-Treasurer

Upsilon Chapter
Anderson College
Anderson, Indiana

Dear Editor:

We have spent the greater part of the year getting our local chapter organized and in writing a constitution. This has been completed now. On March 14 we presented a movie entitled "God of Creation" in the chapel service. March 29 we initiated six new members. They are Olive Arms, John Kinney, James Machaltz, Oran Pass, Marian Tessier and Lawrence Withers.

We will be needing eighteen copies of the Sigma Zetan.

They should be sent to: Mrs. Ina Jean Quisenberry, Anderson College, Anderson, Ind.

Thank you.

Sincerely yours,
Ina Jean Quisenberry
Secretary

Kappa Chapter
Western Illinois State College
Macomb, Illinois

Dear Editor:

Greetings from the Kappa Chapter. We are happy to report

that this has been a very successful year for Kappa Chapter. Under the leadership of Shelby Smith, president; Marjorie Butcher, vice-president; Damon Griswold, secretary-treasurer; Laura Marie Wyatt, historian; Ruth Grone-wald, editor; and Mr. Walter H. Eller, sponsor; Kappa Chapter has initiated one new faculty member, and thirty five active members. We now have an enrollment of sixty six members including nineteen faculty members.

On Saturday, March 12, our chapter was host to the Sectional Junior Academy of Science meeting held on Western Campus. The exhibitions were placed in the college gymnasium, the entertainment held in the Little Theater in the Training School Building, and lunch was served in the College Cafeteria. There was a fine turnout and a lot of worthwhile exhibits.

One faculty member, Dr. C. W. Bennett and three student members Shelby Smith, Dale Endter, and Robert Cozine plan to represent us at the National Conclave at Stevens Point, Wisconsin. Dale Endter and Robert Cozine will present papers entitled "Geiger Counter Demonstration" and "The Modern Acid-Base Theory."

During the year the programs for the regular monthly meetings, which are held on the second Wednesday night of each school month, were presented by members of the various departments. At our September meeting, Dr. Tillman, head of the Geography Department, gave a talk and showed slides depicting his trip through the Canadian Rockies during the past summer. The Home Economics De-

partment was in charge of a weiner roast, held at Glenwood Park for the October meeting. The Biology Department presented the program for the November meeting; Joan Behrens reviewed the history of the "Illinois Natural History Survey"; Maurice Kellog, a former Sigma Zetan, was guest speaker. He told of his experiences last summer fishing in six experimental lakes in Glendale, Illinois for the University of Illinois. They were gathering information on the effects of fertilizing farm ponds. The Physics Department was in charge of the December meeting. Talks were given by the following: Damon Griswold, "Atomic Bullets and Atom Smashers"; Paul Cuba, "Why Smash the Atom"; and Stephen Martin, "The Geiger Counter". The January meeting was presented by the Agriculture Department. A movie on Conservation was shown. The Mathematics Department presented the February meeting, which consisted of a review of the History of Sigma Zeta and Kappa Chapter by Mr. Edwin Schreiber. The March meeting program was put on by the Chemistry Department. The following people gave talks: Leo Pryor, "History of Chemistry Research at Western"; Robert Heide, "PH Meter". At the April Meeting we plan to elect officers for the coming year. Then on April 29 we plan to hold our annual banquet.

Would you please send Kappa Chapter 70 copies of The Sigma Zetan?

Sincerely yours,

Damon E. Griswold
Secretary-Treasurer

Mu Chapter
State Teachers College
Mankota, Minnesota

Dear Editor:

Below is a list of the news and the activities of the Mu Chapter.

"The annual election of officers was held April 7. Ed Putzier, Gordon Pierce, Dave Stenzel, and Isabelle Schulz will be the Master-Scientist, Vice-Master Scientist, Recorder-Treasurer, and Editor-Historian respectively for next year.

Our chapter has made plans for sending a delegation to the National Conclave at Steven's Point. The members constituting the delegation will be Ed Putzier, Ell Beetch, Dave Stenzel, Gordon Pierce, and Chuck Johnson. The group will present two papers: *The Use of War Surplus* and *The Nutritional Value of the Carp*.

Plans are also under way for the Senior Visitation Day April 22, which is an annual affair of the college. Although this conflicts with the Conclave date, many observable and demonstrational experiments have been planned by members of the Mu Chapter.

It has been decided that the annual Spring Picnic held jointly by the Science Club and Sigma Zeta will be on May 20.

The Club will welcome Dale Cox, Gerald Stalwick, Lewis Jones, Edgar Timm, Norman Benson, and Charles Bolin as new members by a formal initiation on May 12. This will increase the club membership to a total of thirty-five."

The Mu Chapter will need 36 copies of the Sigma Zetan.

Sincerely yours,

Charles K. Johnson

Editor-Historian, Mu Chapter

Phi Chapter
Eureka College
Eureka, Illinois

Dear Editor:

Phi began the school year with five members returning. Since then Phi has initiated two groups of candidates; the last of which included James R. Esh, a mathematics major; A. S. Kruzel, a chemistry major; and Wm. P. Slagle, a biology major. These initiates bring the chapter roll of actives to fourteen.

New officers were elected at the February business meeting. They are Richard M. Johann, president; Jos. M. Allovio, vice-president; R. O. Adams, recorder-treasurer; and B. F. Brown, historian-editor.

Johann, a junior and president of Phi chapter, is a mathematics major and is the fourth generation of his family to attend Eureka College. His great grandfather, and his grand father were each president of Eureka College.

In keeping with Phi's policy of one business meeting and one "paper" meeting per month; the chapter has had six "paper" meetings since the last letter. The following programs were included: a continuation of the series on science publications available in the college library, consisting of physics and chemistry literature and completing the series; a Department of Physics "paper" meeting demonstrating the photo electric cell and the apparatus used in determining e/m of the electron; a freshman chemistry "paper" meeting demonstrating the spectroscope, flame tests, and the use of solid carbon dioxide for sharp freezing; a field trip to

Bradley University where General Electric held an electronics demonstration; movies of wild life, flora and fauna, taken by John Colburn a graduate of Eureka; and papers for the 1949 Conclave.

Phi Chapter has begun a project called "Campus Marker Project" that has the goal of marking permanently all memorial trees, and other items of interest on the campus. As the first item in the project, Phi has just completed setting a petrified log from Arizona on a concrete base at the north entrance of the Science Hall. Records of each project are being compiled for filing in Vennum Science Hall and Burgess Library on the campus. A plat of the campus has been completed, under the direction of Professor J. A. Rinker, showing the location of each object to the marked.

B. F. Brown
Historian-Editor

Sigma Chapter
Our Lady of the Lake College
San Antonio, Texas

Dear Editor,

On February 22, Sigma Zeta and Curie Science Club Members sponsored a program on Bohemian Glass Blowing. According to Mr. R. M. Howell, Jr., glass blowing is an art that is passed down from one generation to another in the family. The Howells were one of the attractions at the Golden Gate Exposition in San Francisco in 1940. They were employed by the United States Government at the bombing plant in Oak Ridge, Tenn., where they did laboratory glass blowing in 1944. For approximately an hour the audience

watched with awe as the master craftsman created objects of artistic beauty.

At the regular monthly meetings of Sigma Zeta, several interesting reports were given by different members. Among these were "Synthetic Glycerine, Twins, Sense of Humor in Birds, How to Live with a Cold, Diet that Guards against Cancer, and Atomic Slingshots." The report on "Twins" was so interesting that it was followed by a paper on the "Dionne Quintuplets".

The Science Clubs were hostess to the meeting of the San Antonio Section of the American Chemical Society on March 16, 1949. Dr. Harold H. Strain of the Carnegie Institute of Washington at Stanford, California spoke on "Chromotography of the Chloroplast Pigments."

Sigma Zeta sent Julia Ann Burton as a delegate to the Texas Chemurgic Meeting in Houston, Texas on March 4 and 5. The report on the meeting proved the trip very worthwhile.

Plans are now being made for the annual picnic on April 30, and also the Farewell Banquet honoring the Seniors.

Sincerely,
Mary Lou Smith
Secretary

Beta Chapter
McKendree College
Lebanon, Illinois

Dear Editor:

At the Conclave just concluded, the Beta chapter was asked to write up the topic of "Entertainment", and you will find enclosed our contribution on this subject.

Also, it was mentioned at the Conclave that you had some copies left over of the December, 1948, SIGMA ZETAN. If you still have some to spare we could use about six more copies, as we will probably see some of our alumni members at Commencement season and they will be interested.

Sincerely yours,
C. J. Stowell
Recorder-Treasurer

Nu Chapter
Northern Illinois State Teachers College
De Kalb, Illinois

Dear Editor:

The Nu chapter of Sigma Zeta rapidly approaches the end of its 1948-1949 session with one major event still to take place. Our Christmas party with the Math club, the Ira Jenks Memorial Lecture nothing remains of these except memories and a sentence or two mention in our chapter minutes. Incidentally, the Christmas party was one of the most enjoyable ever, while the Memorial Lecture was considered highly successful both in terms of attendance and enjoyment. The lecture, "Ramblings of a Naturalist", was entertainingly presented with the aid of a color film by Mr.

Grant Halladay, well-known naturalist.

The one major event yet remaining is, of course, the annual Sigma Zeta sponsored Science Open House. At this affair, traditionally held in the evening, the doors to all phases of science activity—chemistry, mathematics, physics, life sciences, home economics, photography—are thrown open to the public of the surrounding area. Student clubs and organizations representing each of these phases assume the responsibility for the entertaining and informative lectures, demonstrations, discussions, exhibits, etc., concerning their phase. Since most of the above departments are situated in our modern Science building, the Open House really amounts to throwing its doors open wide to the public. As members of Sigma Zeta, the organization which plans and executes this affair naturally hopes for a highly successful evening.

I close with the request that 35 copies of The Sigma Zetan be sent to me, and with the hope that all our chapters had and are having a successful year.

Sincerely,
Willys Wuest
Secretary

(Circumstances, not under the editor's control, caused the delay in the publication of this issue of The Sigma Zetan. The Editor.)