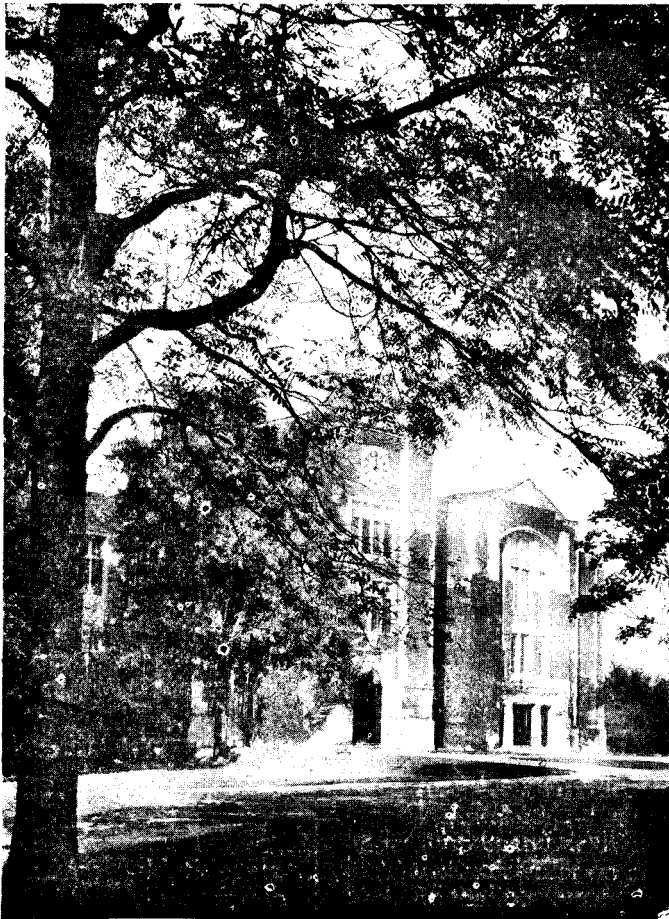


THE SIGMA ZETAN

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NO. 1



Library and Assembly Hall
Ball State Teachers College
Muncie, Indiana

THE SIGMA ZETAN

Published bi-annually in the interest of Sigma Zeta,
National Honorary Science Society

GRAND OFFICERS—1939-40

Grand Master Scientist—P. D. Edwards (XI) Muncie, Indiana
Vice Grand Master Scientist—P. Beyer (Lambda) Mansfield, Pennsylvania
Grand Record-Treasurer—T. A. Rogers (Zeta) Stevens Point, Wisconsin
Grand Historian—S. M. McClure (Beta) Lebanon, Illinois
Grand Editor—G. W. Faust (Zeta) Stevens Point, Wisconsin
Past Grand Master Scientist—H. W. Gould (Nu) De Kalb, Illinois

NEW FRONTIERS IN SCIENCE An Editorial

—o—
"We stand today on a bright oasis of knowledge in an illimitable desert
of the unknown."—Lord Salisbury

What contributions will the twentieth century make to the progress of science? Who cares about science? What difference will it make to those who come after us whether new discoveries are made in science or not? In spite of some seeming indifference to scientific studies there is in reality more genuine interest manifested in science in our colleges and universities today than will usually be evident to the casual observer. The students who major in law, medicine, religion, philosophy, psychology, anthropology, English, history, geography, sociology, political economy, art, music, education, foreign languages, foreign relations, business administration—and the list is still incomplete—are fundamentally specializing in biological sciences, for all that intimately touches man, his existence and his relationships with others, is inextricably linked with human biology. Furthermore, the physical sciences and others are so closely correlated with all that a person is or does, they all play an important integral part in the lives of all of us.

It is 1940. Yes, it is the beginning of a new decade. Members of this society have been selected from a mass student body of thousands because of achievement, ability, interest in science, and character. Many Sigma Zetans have contributed to scientific research their time and their talents and will continue to do so throughout the decade just ahead. Others will come into the society during the forties, each adding by inspiration and endeavor his share to the progress of science in the world of tomorrow.

At the close of the forties, Sigma Zeta will celebrate the quarter centennial of its founding. This will mark the middle of the present century. What turn will the research in science have taken? Will the best brains of our nation continue to make discoveries in science and to develop proofs of the existing theories which will be beneficial to the race, or will our leading scientists, as in the so-called civilized nations of Europe, devote their time and energies to the making of inventions that will surely and rapidly deal death to the best specimens of manhood that our armies can muster?

During the thirties, most of which were depression years, there were thousands of young men and women graduated from college with no employment in sight. They asked themselves and others, What good is an education if one can do nothing with it? When we read of the invention of new and almost indestructible tanks, automatic-aiming anti-aircraft guns, speedier and more efficient bombing planes, and longer-range cannon and rifles, in a similar manner we cannot but ask, What good is science if it can be put to no better uses than these?

It is hard to conceive of a greater paradox than that of medical science using every method humanitarian research workers can devise to save human life and to prolong it for years of useful citizenship, while munition manufacturers are using the most skilled technical experts, trained by the same higher institutions of learning that trained the medical workers, to invent weapons for destroying human life.

Here we are, set down in the midst of just such a world at the beginning of the forties. What shall we do with them? Certainly we all may have a share in shaping them. Will they be fair or fatal forties? Will right win and evil fall, democracy survive or be overthrown, and what will future decades inherit from the one just beginning? These are questions which the capable students and instructors comprising the membership of Sigma Zeta might well spend long hours in considering.

Petrarch wrote in his **Book of Memorable Things**, "Here stand I on a frontier that divides two peoples, looking both to the past and to the future." The words frontier and pioneer have not become obsolete even though it has been said that there are no more frontiers in America and no more opportunities for pioneering. The pushing of the frontiers westward in search of more and better land in the last century called for a high type of physical endurance. When the valuable public lands were all gone, the surplus rural population began pouring into the cities and industrial expansion began. Science and invention through the development of the Machine Age have made but a mere beginning in practical scientific research. Scientific research has given rise to many new subjects for study in all of which the questions challenging the attention of research workers are practically endless. A few of these subjects are: biophysics, biochemistry, pharmacology, psychobiology, pomology, parasitology, pathology, entomology, ornithology, embryology, genetics, plant-breeding, animal husbandry, agronomy, meteorology, anthropology, etc. Exploring these more or less new frontiers calls for the same indomitable spirit, courage, endurance, perseverance, etc., which characterized the other pioneers who pushed deeper and deeper into the frontiers which once separated Massachusetts and Kansas.

The keynote of the new frontier is cooperation, just as that of the old frontier was individualistic competition. Someone has said that the research laboratory is the most romantic spot on earth at the present time—and perhaps the most significant. P. A. M. Dirac, Professor at Cambridge University, has listed three fundamental problems awaiting solution as follows:

1. The relativistic formulation of quantum theory.
2. The nature of the atomic nucleus.
3. The nature of life.

Chemists are finding new uses for cadmium, titanium, indium, tantalum, gallium, and germanium. In the not too far distant future these substances may come to be as well known and as commonplace as lead, zinc, copper, iron, and tin. Gustav Egloff estimates that nine trillion gallons of synthetic gasoline may be made in a year by the polymerization of combustible gases in the laboratory. What a source of Wealth!

Luther Burbank insisted that he was not a plant "wizard" but an experimenter or, as he said, a "partner of nature". He did not interfere with the operation of natural laws but used them to create new species of plants faster than nature, if left alone, would have done. He suggested many frontiers in his book—*Partner of Nature*—in which he wrote, "The work that plant-breeders have before them to do is practically unlimited—the possibilities can only be vaguely imagined. We have been forerunners and pioneers—some of us oldsters—but beyond our discoveries and experimentation are uncharted lands of discovery and experimentation illimitable in extent; in the hands of a younger generation and of generations yet to come must lie the application of the principles we have divined and the boundless rewards to mankind that will result from the training of plants to a fuller and more complete service."

Burbank was sure that a stoneless peach could be developed. How could that be done? Other problems as yet unsolved, to mention a few, are—

How can a better synthetic silk than rayon be made?

What is the first product of photosynthesis?

What is the secret of the firefly's light?

What are the possibilities of vinylite?

To what practical uses may deuterium be put?

How does water rise to the top of the tallest trees?

What is the cause of cancer?

What is the function of the pineal gland?

What are the practical industrial uses of television?

How could an automobile be made with a machine efficiency of more than 8 per cent?

George W. Gray in "The Advancing Front of Science" has expressed the vital need for workers on the frontiers of science as follows: "The borderlands today stretch along a front vaster than the terra incognita of the ancients. The pioneering is more fundamentally daring, the opportunities richer and more alluring, than anything the forty-niners knew. The frontiers are of a different kind, to be sure, and not so obvious; the pioneering calls for more brains, and for brains of a different type, than for brawn and physical endurance; and mere squatters will not get very far with the sort of opportunities the laboratories are opening up. New laws, new disciplines, and new techniques are in the making and in the testing, and will fundamentally affect our lives, for the future of civilization is very likely wrapped up in the future of science."

* * * * *

CHAPTER NEWS

ALPHA

Shurtleff College, Alton, Illinois

Affiliated, 1925

Master Scientist—Willard Miller

Vice Master Scientist — Richard

Rutz

Recorder-Treasurer — Marilyn D.
Stanton

Faculty Advisor—E. E. List

Membership: 14 active members,
10 associate members, 4 faculty
members

A letter from the recorder-treasurer states—"We are expecting great things on the Shurtleff College campus this year and are hoping to make the Alpha Chapter of Sigma Zeta see the most successful year in its history. If we may help in any way to make another chapter more successful, please advise us."

A Letter from a Former Sigma Zetan

Taylor University

Upland, Indiana

Nov. 14, 1939

Prof. E. E. List
Shurtleff College
Alton, Illinois

Dear Professor List:

Our newly organized Science Club at Taylor has discussed the matter of setting up the organization in such a fashion as to make it possible for them to affiliate with some national science organization. I suggested to them the one which you have at Shurtleff, and they are desirous of having as much information relative to constitution, organization, fees, etc. as you might be able to give us. Therefore, I would greatly appreciate any such literature or helps with which you might be able to supply us, or any addresses to whom we might write to make the contacts with the national organization. We

hope you are having a very successful year at Shurtleff, as we are seeming to have here at Taylor. Our enrollment is not increased any, but several factors contribute to that fact.

Sincerely yours,

(signed) Earland Ritchie

(Formerly on the staff at Shurtleff)

BETA

McKendree College, Lebanon, Ill.

Affiliated, 1926

Master Scientist—Owen Williams

Vice Master Scientist—Dorothy

Hertenstein

Recorder-Treasurer—Prof. S. M.
McClure

During the present year, the Beta chapter at McKendree College has experienced one of the smallest chapter rolls in the history of the Lebanon group. Of the six student actives at the opening of college, one was lost at mid-year when Emma Bergdolt, a biology major, completed the requirements for graduation.

Two candidates for initiation were selected at the opening of the second semester and will probably become members before the time of the conclave. One of these, Bertie Bauer, is a senior biology major and a sister of Eldon Bauer '38, a former chairman of Beta. A junior, Albert Jondro is the second candidate; he is a chemistry major and is employed as an analyst in the control laboratory of the Aluminum Ore Company in East St. Louis.

The faculty membership in the chapter was increased when Clifford Hertenstein '38 returned from graduate study at the University of Illinois to become instructor in mathematics. Dean C. J. Stowell, professor of mathematics and a charter member of Beta, has asked that his status in the chapter be considered that of a 'passive' member since the duties

of the dean's office have increased greatly in recent years.

During the current semester, the chapter is sponsoring a series of monthly science programs, each sponsored by one of the science departments, to replace similar meetings previously conducted by the Waggoner Science Society that is inactive this year.

The chapter is offering again the Waggoner Trophy, awarded annually on the basis of scholarship and undergraduate research in science. At the 1939 Commencement, Ralph G. Ruth, chairman of the chapter last year and a delegate to the De Kalb conclave, was the recipient of the award.

While the speaker for the Waggoner Memorial lecture has not yet been selected, other activities of the memorial have been continued through the year. The geological collection assembled by Professor Waggoner is being classified and cataloged; a portion of the paleontological material was identified and listed by C. O. Williams, the present chairman of the chapter.

DELTA

State Teachers College, Kirksville, Missouri

Affiliated, 1927

Master Scientist—Nina Clare

Vice Master Scientist—I. O. Pollock

Recorder-Treasurer—Robert Ellis

Chapter meetings are usually supper meetings at which a program is given consisting of reports on current scientific events by student members or lectures by members of the faculty.

At the initiation ceremony held last October the following became active members of Sigma Zeta: John Owen, Keneth Cooley, I. O. Pollock, Robert Ellis, Loren Estes, Helen Harrington,

Joe Slocum, Hugh Howerton, Erma Holliday, and Lucy Mae Rese.

EPSILON

Otterbein College, Westerville, O.
Affiliated, 1929

Master Scientist—Richard Grimm

Vice Master Scientist—William Henry

Recorder-Treasurer—Isabel Howe

Program Chairman—Donald Hanawalt

Five new members were initiated this year bringing the total up to sixteen which includes the professors.

Programs held already this year include:

A physical chemistry experiment and talk.

Motion pictures.

Terminology game and lecture.

An interesting obstetrical discussion led by a local physician.

Each alternate meeting is in charge of two members of the local chapter. The other meetings are addressed by outside speakers.

ETA

State Teachers College, Cap Girardeau, Missouri

Affiliated, 1929

Inactive since 1934. No report

GAMMA

Medical College of Virginia, Richmond, Virginia

Affiliated, 1927

Master Scientist—Walter E. West, Jr.

Vice Master Scientist—J. V. Turner

Recorder-Treasurer—Boyd S. Clements

Membership: 15 active members, 8 associate members (newly elected this year)

Meetings are held regularly twice each month.

Programs for the year are not planned in advance.

IOTA

**Indiana State Teachers College,
Terre Haute, Indiana
Affiliated, 1933
Inactive. No report**

KAPPA

**Western Illinois State Teachers
College, Macomb, Illinois
Affiliated, 1935
Master Scientist—Eugene Sallee
Vice Master Scientist—Gerald Far-
gusson
Recorder-Treasurer—Gladys Hud-
son
Historian—Robert Hill
Editor—William Speer
Membership: 50 members—18 fac-
ulty, 32 students**

Each department represented in the chapter is responsible for the program at one meeting of the year. Meetings are held the fourth Thursdays of calendar months. Programs this year have included:

A talk on "Chemical Warfare" by Dr. Henry Stubblefield of the Health Department of the college.

A discussion of "Hybridization" by Mr. Clarence Watson, proprietor of a hybrid seed corn farm near Macomb.

Mr. Robert Lamb, a student in the History Department showed slides he took of the mountain ranges while in the West last summer and explained their geographic significance.

Three initiations are held each year—fall, winter, and spring. A banquet will be held in connection with the spring initiation.

* * *

"Force, Force, everywhere Force; we ourselves a mysterious Force in the center of that. There is not a leaf rotting on the highway but has Force in it."

—Thomas Carlyle.

LAMBA

**Mansfield State Teachers College,
Mansfield, Pennsylvania
Affiliated, 1936
Master Scientist—Theodore V. No-
vak
Vice Master Scientist—Leo F. Don-
ald
Secretary-Treasurer — Barbara C.
Armstrong
Chairman Program Committee—
Robert E. Lewis
Faculty Sponsors—Dr. Paul J.
Steele and Mr. Hugh W. Alger
Chapter Membership: 37 active
members—30 students, 7 faculty
members. 5 associate members; and
2 honorary members.**

The first meeting of the year was in the form of a picnic followed by a business meeting around a roaring fireplace in the home of Mr. Alger. Twenty new members were initiated in October. Interesting programs of the past few months are as follows:

A talk on common wild flowers by Prof. Beyer illustrated with natural color slides made by members of the chapter.

Two papers—"Application of Physics in Home Economics" and "Applications of Chemistry in Home Economics" by girls from the Home Economics Department. Chemistry students also gave demonstrations of fireworks manufacturing, properties of protective colloids, and a discussion and exhibition of hydroponic projects.

An illustrated lecture on "Cancer Control" by Dr. L. G. Cole, Surgeon-in-chief of the Blossburg State Hospital.

Physics students demonstrated properties of the short wave radio.

An illustrated lecture on "Chemotherapy and Pneumonia Control" by

Dr. John Doane, a member of the college faculty and prominent physician.

Interesting and well-prepared talks on "Origin of Birds", "Parthenogenesis", "Skeleton Talks", and "Animals in the Underground" illustrated with a new micro-projector.

Later this year there is to be—

An initiation for second semester actives.

A college assembly program which chapter members will conduct.

Another meeting in charge of Home Economics girls.

The annual banquet.

MU

State Teachers College, Mankato, Minnesota

Affiliated, 1937

Master Scientist—Donald Anderson

Vice Master Scientist—Betty Hanson

Recorder-Treasurer—Paul Quast

Chapter Membership: 12 active members, 2 associates

New active members initiated this year were as follows: Cletus Cumiskey, Helen Atcherson, Ruth L. Roberts, Robert Dahl, Stanley Stromswald, and Dr. Leonard Ford.

Future meetings this year will consist largely of a series of demonstrations and reports by the members. It is also planned to exchange a program with the Science Club of Gustavus Adolphus College at St. Peter. The society also plans to present demonstrations at the Annual College Day program this spring. College Day gives high school pupils an opportunity to visit the college.

NU

Northern Illinois State Teachers College, De Kalb, Illinois

Affiliated, 1937

No Report

OMICRON

Wilson State Teachers College, Washington, D. C.

Affiliated, 1939

Master Scientist—Harold G. Orcutt

Vice Master Scientist—Helen Quillin Franklin

Recorder—Harry G. Newman

Treasurer—Everett Carrico

Faculty Sponsor—Dr. Henry Olson

Omicron Chapter of Sigma Zeta was installed as an organization in Wilson Teachers College on March 30, 1939, by Dr. Henry W. Olson. Omicron originally consisted of 19 charter members consisting of active, faculty and honorary members. On June 14, 1939, thirteen additional alumni, active and faculty members were initiated. Our most recent initiation, December 18, 1939, added six active members and one honorary member to our growing membership which now totals thirty-nine.

Omicron Chapter has proven its metal in its first year as an organization at Wilson. On November 10, Sigma Zeta acted as co-sponsor with the Newtonian Society for a party to be given for members of both organizations. On November the 18, our Chapter sponsored a trip to Philadelphia, Pennsylvania, to visit the Franklin Institute which trip was open to the entire student body. On December 11, we sponsored a convocation program at which Dr. Waldo Schmitt, Curator of Invertebrates at the National Museum and an outstanding lecturer and traveler, presented colored slides taken on his trip to the Galapagos Islands.

And on December 18, we initiated prospective members who presented a panel discussion on the Value of the Scientific Method in Problem Solving. At the close of the discussion, our Chapter held a very suc-

cessful Christmas Party which we intend to become a traditional social function.

Omicron Chapter in its night meetings has discussed the feasibility of many programs and projects some of which follow:

1. To initiate the beginning of a Science Library which would be open to the science teachers and students of the District Schools. Much of the materials could be obtained from free sources.

2. To construct and display an aquarium in the halls of Wilson Teachers College.

3. To plan a bicycle trip principally scientific in nature which would survey the local regions around Washington.

4. To plan a trip to Chesapeake Bay to study marine life.

5. To sponsor Guest-Night at which a Sigma Zeta meeting would be open to students of the college and at which an interesting scientific program followed by refreshments would be presented.

6. To sponsor a tubercular test for the college.

7. To present a play to the student body in a convocation period.

The above programs are as yet tentative; however we have planned and arranged for several programs which are dated in the near future. We definitely plan to sponsor another convocation, present night-programs of a scientific nature for our members and hold our Annual Installation Banquet at which new members will be initiated and at which a guest speaker will present an after-dinner speech.

THETA

Elizabethtown College, Elizabethtown, Pennsylvania

Affiliated, 1932

No report

XI

Ball State Teachers College, Muncie, Indiana

Affiliated, 1938

Master Scientist—Robert M. Featherstone

Vice Master Scientist—Loren Jones
Historian—Hilda Havens

Recorder-Treasurer—Dr. D. E. Miller

Chapter Membership: 40—26 students, 14 faculty members

An initiation dinner meeting was held in October at which time fifteen diplomas were presented to new members. Mr. Orville Williams, a chemist at Ball Brothers Glass Factory gave an interesting discussion of "Chemistry and Its Relation to Glass Jars".

Another dinner meeting has been planned for some time in March.

It is the purpose of this chapter to make the 1940 Conclave in April, both from the standpoint of education and entertainment, a long-to-be-remembered event for all who attend.

* * *

"Chemistry is not merely a great science among other sciences, but a science which pervades the whole of life."—Arthur James Balfour.

"If an army of monkeys were strumming on typewriters they **might** write all the books in the British Museum."—Arthur S. Eddington, The Nature of the Physical World:

"The Earth never tires,
The Earth is rude, silent, incomprehensible, at first,
Nature is rude, silent, incomprehensible at first;

Be not discouraged, keep on, there are divine things well envelop'd.
I swear to you there are divine things more beautiful than words can tell."

—Walt Whitman,
Song of the Open Road.

ZETA

**Central State Teachers College,
Stevens Point, Wisconsin**

Affiliated, 1929

Master Scientist—Ethel Hill

**Vice Master Scientist—Reuben Be-
longia**

Recorder-Treasurer—Ray Wiersig

**Chapter Membership: Faculty ac-
tive 6, associate 8, total 14; faculty
and students 44; students active 22,
associate 8, total 30.**

Meetings held this year to date
are as follows:

A business meeting at which com-
mittees for the year were appointed.
The chapter was represented in the
Homecoming Parade with a float
which the members enjoyed making.

A basal metabolism demonstra-
tion was given at St. Michael's Hos-
pital, near the college campus. Mem-
bers of the nutrition class were guests
of the local chapter.

Formal initiation and the Tenth
Anniversary Alumni Banquet were
held at Nelson Hall in November.

In January a lively party and taf-
fy pull was held in the Sims Cot-
tages.

At the February meeting Dr. Fred
Mars, the college physician, gave an
excellent talk on the endocrine
glands.

Other meetings to be held are—

A talk by Miss Zimmerli of the
local high school faculty on "Mush-
rooms—Edible and Otherwise".

A talk on archaeology by Prof.
Morrison of the college History De-
partment. Prof. Morrison has been
on an archaeological expedition
sponsored by the University of Chi-
cago.

Before the end of the year a picnic
will be held at one of the many no-
ted landmarks of central Wisconsin.

NEWS ITEMS

A letter just received from the
Beta Chapter indicates they will
have a large delegation at the con-
clave next month.

* * *

Information comes from the Omi-
cron Chapter at Wilson Teachers
College of the selection of Dr. Waldo
L. Schmitt, Curator of Invertebrates
at the National Museum as an hon-
orary member of that organization.
Dr. Schmitt is an outstanding scien-
tist, lecturer, and traveler and we are
happy to learn of this affiliation with
National Sigma Zeta.

* * *

During the year the question has
arisen in regard to the status of
those students who leave college be-
fore they graduate. Should they be
considered as active members, inac-
tive members, or automatically drop-
ped from the chapter roll? This
question should receive our consid-
eration at the time of the conclave
session.

* * *

The office of Grand Recorder-
Treasurer has received several re-
quests for information from schools
interested in Sigma Zeta. Central
Missouri State Teachers College at
Warrensburg, Missouri, and James
Milliken University at Decatur, Illi-
nois, have indicated a desire to es-
tablish chapters of our organization.
The conclave session held at De Kalb
last year authorized the selection of
a committee on promotion and ex-
pansion of Sigma Zeta. The com-
mittee is composed of:

Prof. S. M. McClure, Beta Chapter;

Dr. E. W. Schreiber, Kappa Chapter

Dr. H. W. Gould, Nu Chapter.

Under the leadership of this com-
mittee the matter of promotion and ex-
pansion will be in excellent hands
and we can look forward to a def-
inite program.

OUR HOST

The Ball State Teachers College was established by the State of Indiana in 1918. The grounds were donated to the state by the Ball Brothers, Muncie Manufacturers. School opened June 17, 1918, with an enrollment of three hundred eighty-three students. From the first, bachelor's degrees were issued to four-year graduates. In 1932 courses were first offered on the graduate level and in 1934 the first master's degrees were granted. Twenty-four such degrees were conferred in 1938.

Ball State Teachers College is conducted for the primary purpose of preparing men and women for good citizenship and for the profession of teaching. It is a member of the North Central Association of Colleges and Secondary Schools and of the American Association of Teachers Colleges. There are eleven buildings on the campus of seventy acres and one hundred two instructors on the teaching staff.

The XI Chapter of Sigma Zeta which was established in 1938, has generously offered to act as host for the National Society Conclave, which will be held on the Ball State Teachers campus April 19 and 20, 1940.

"The great scientific revolution is still to come and it will ensue when men collectively and cooperatively organize their knowledge to achieve and make secure human values."

—John Dewey.

"What am I, Life? A thing of watery salt

Held in cohesion by unresting cells."

—John Masefield, Sonnets.

"From time to time we seem to reach a stage in which the horizon of discovery is also its boundary."

—W. F. G. Swann.

OUR HOST CITY

Muncie, Indiana, a city with a population of about 55,000, is fifty-six miles northeast of Indianapolis, the capital of the state. The city received its name from the Munsee Indians, a subtribe of the Delawares, who were prominent in its early history. It was settled about 1833, and became a city in 1865.

Besides the four trunk line rail-ways which enter the city, Muncie is served by six interurban lines. It is situated in an agricultural region and a natural gas belt. The chief manufacturing industries are iron and steel works, glass works, machine shops, canneries, pulp and paper mills, manufactories for silver and silver-plated goods, wagon and carriage works, flour mills, automobiles and automobile parts, motors, pianos, toys, and gloves. Other articles manufactured are gas engines and gas fixtures, knit underwear, glass jars, lawnmowers, silverware, wheels, boilers, iron bedsteads, cast-ings, fencing machines, and iron fencing. The city has good public and parish schools, a good modern high school, a public library, which has over 54,000 volumes, a city hospital, a courthouse (Delaware County), and a number of fine churches. The governmental building cost over \$80,000 and the public library building \$50,000.

"I am growing old; my work is nearly finished. I am more and more impressed with the illimitable field for such labor as mine has been that opens on every hand. Plant-breeding as a career is comparatively new."

—Luther Burbank.

THE NATIONAL CONCLAVE

The dates set for the National Conclave with the Ball State Teachers College at Muncie, Indiana, are Friday and Saturday, April 19th and 20th. Although the official programs are not out and the invitations have not been issued as we go to press, the Master Scientist of the XI Chapter was kind enough to let us in on some of the plans.

Guests will be expected to register on Friday morning. Science and Mathematics will each have exhibits that may be visited and there will be conducted tours over the campus that morning. Guests may secure noon lunches in a large cafeteria in the basement of the men's residence hall or in other eating houses near the campus. At 2 P. M. there will be a lecture by Dr. Albert Edward Wiggam on the subject—"Educating Ourselves for the New World". The program committee was especially fortunate in being able to secure this nationally known figure to speak at the convention. Besides being a scientist and lecturer, Dr. Wiggam has written several books—is now writing two, "Educating Ourselves for the New World", and "Who Shall Inherit America?"—and in collaboration with Mrs. Wiggam, many magazine articles in such popular periodicals as Good Housekeeping, Ladies Home Journal, American Magazine, Cosmopolitan, Reader's Digest, etc. After the lecture there will be field trips to such local industrial plants as Ball Brothers Glass Factory, Owens-Illinois Glass Brick Co., etc.

At 6 P. M. on Friday the annual banquet will be served in one of the dormitory dining halls. A short program will follow the dinner and pictures will be shown which were tak-

en at De Kalb last year. At 8 o'clock, Dr. L. G. Montgomery, Chief of Research and Pathologist at the Ball Memorial Hospital will address the convention on the subject, "The Relation of the Laboratories to the Hospital", in the auditorium of the Medical Building. After the address the guests will be taken on tours through the laboratories, as well as the physical plant, kitchens, X-ray department, etc.

Saturday morning all will breakfast together in the men's residence hall basement, cafeteria style. At 8:15 there will be campus tours or a visiting period. Dr. A. E. Wiggam will speak again at nine in the Recital Hall of the Arts Building on the subject, "Who Shall Inherit America—The Strong or the Weak, the Intelligent or the Stupid?" At ten there will be two round table discussions, one for faculty members and one for students. After a brief business session at 11 o'clock the convention will be dismissed.

* * *

"The cells of a human brain continue to act because the blood stream brings to them chemical free energy in the form of sugar and oxygen. Stop the stream for a second and consciousness vanishes. Without that sugar and oxygen there could be no thought, no sweet sonnets of Shakespeare, no joy and no sorrow."
—F. G. Donnan, The Mystery of Life.
"O science, lift aloud thy voice that stills

The pulse of fear, and through the conscience thrills—

Thrills through the conscience with the news of peace—

How beautiful thy feet are on the hills!"

—W. H. Mallock,
Lucretius on Life and Death.