



JUNIOR ACADEMY OF SCIENCE
PROGRAM OF FIFTH ANNUAL CONVENTION

Saturday, November 9, 1935

A. M.

- 9:00-9:30 Display of exhibits from various clubs.
(These exhibits will remain all day)
- 9:00-9:30 Display of exhibits from various clubs.
Opening address by Howard E. Enders, Purdue University
Sponsor of Junior Academy Clubs.
Presentation and acceptance of new members.
Consideration of state constitution.
Election of officers and advisory council member.

12:00 RECESS

P. M.

- 1:00-1:45 Principal Address: How a Scientist Ought to Work—Dr.
Paul Weatherwax, Indiana University.
- 1:45 The Wabash and Erie Canal—Mary Belle Lackey, Fort
Wayne.
Preparation of Skeletal Materials—Melvin Fields, Muncie.
The Value of a High School Science Club from a Student's
Viewpoint—Carl Wood, Valparaiso.
Butterflies and Moths—Merrill Eaton, Bloomington.
Termites of Indiana—Wilma Jean Cain, Bloomington.
Experiences in an Insectary—Maurice Campbell, West
Lafayette.
Some Fluorescent Materials—Betty Clemons, Anne Holmes
and Harry Hadd, Shortridge, Indianapolis.
The Electric Motor—Burton Clay, Bloomington.
The Electric Transformer—Richard Weatherwax, Bloom-
ington.
Some Common Snails—Leon Smith, Bloomington.
What Peps up a Club—M. M. Williams, Bloomington.

MINUTES OF MEETING

The Indiana Junior Academy of Science met at Wabash College, Crawfordsville, Indiana, on Saturday, November 9, 1935, for its fifth annual meeting. Merrill V. Eaton, of Bloomington, presided.

Fourteen active clubs were represented: Columbia City, Lowell, Muncie, Cambridge City, Tipton, Montmorenci, West Lafayette, Coesse, Shortridge and Crispus Attucks of Indianapolis, Crawfordsville, Bloomington, Valparaiso, and North Madison.

Dr. Howard E. Enders, of Purdue University, gave the opening talk, reviewing the meetings of the Indiana Junior Academy of Science

for the last three years. He stated that this organization is affiliated with the American Association for the Advancement of Science. He briefly sketched the projects which had been completed by the Science Clubs in Indiana and presented a map on which he had placed colored pins showing the locations of the clubs throughout the state. The color of the pins represented the clubs as active, affiliated but inactive, and in process of organization. He expressed the desire that the blue and white pins, representing the last two, would all in time be changed to red pins, marking them active, by next year.

The discussion of the constitution for the Junior Academy of Science was resumed from last year, but action was deferred. It was made clear that the Junior Academy of Science is merely a branch of the Senior Academy and that members of the Senior Academy who make up the Advisory Council will aid in the decision upon all important matters for the junior organization.

Election of members to the Advisory Council followed: Mr. F. J. Breeze of the Geography Council, North Side High School, Fort Wayne, succeeds M. M. Williams, of Bloomington, for the five-year period, and Mr. Wade, of Crispus Attucks High School, Indianapolis, fills the unexpired term of Miss Edna Banta, formerly of Hilltop Nature Study Club of North Madison. Miss Banta resigned her position because she is not now teaching in high school.

The following officers were elected to serve at the 1936 meeting: Merrill V. Eaton, of Bloomington, president; Carl Oldham, of Oakland City, vice-president; Ruth Heitz, of North Madison, secretary; and Margaret Nell Follick, of Montmorenci, treasurer.

Many interesting exhibits of projects were arranged by the various clubs. The clubs were complimented upon the success of their projects. Dr. Ender's announced that the exhibits represented much work upon the part of the club membership or of individuals.

A list of the exhibits follows:

Bloomington.—Butterfly collection, snail collection, termite activities, Tesla coil, motor.

Crawfordsville.—Mounted birds and mammals, weed seeds, weeds, rocks, leaf collection, snakes (live specimens), insect collection.

Muncie (Blaine Jr. H. S.).—32 Skeletons.

Gary (Lew Wallace H. S.).—Insect collections, seed collection.

Valparaiso.—Volt-ohm-millimeter, bolometer, electric safe lock combination, radio set (hand made), motor (hand made).

West Lafayette.—Three-tube regenerative radio, skeleton of turtle, skulls of rodents, camera and pictures, mosquitoes and rat-tailed maggots, salamander, twig collection, model airplanes, praying mantis and egg case.

Indianapolis (Shortridge).—Fluorescent materials (loaned by Walter C. Geisler and Chemistry Department):

Fluorite with celestite, willemite, hyalite, moss agate, antinite, curtisite, wernerite, fluorspar, Amazon stone, pink tourmaline, spirel (synthetic), calcite, topaz, opals.

These specimens, when subjected to ultra violet radiation reflected (from an argon bulb), fluoresce and give off a variety of colors, the color depending upon the material and in some cases the locality from which it came.

Dr. Paul Weatherwax, of Indiana University, gave the principal address of the afternoon session. He told "How Scientists Work". He made it clear that a scientist must first use observation, must keep a record of his observations, and must be influenced to some extent by what scientists have found out in the past. He showed by some illustrations the dangers in experimenting with gases about which one knows nothing. The same would be true in any other phase of science.

Many instructive talks were given by young scientists of various clubs, as indicated on the program. Some of the talks were illustrated with slides.

The total attendance exceeded one hundred and fifty persons.
Adjourned about 3 P. M.

Ruth M. Heitz,
Secretary of the 1935 Session.

JUNIOR ACADEMY OF SCIENCE CLUBS IN ORDER OF AFFILIATION

- 1931- *Hilltop Nature Study Club, North Madison.
- 1932 *Sciemus Club, Valparaiso, C. O. Pauley.
*General Science Club, Bloomington, M. M. Williams.
*Audubon Society, Crawfordsville, Emmett Stout.
*Biology Club, Crispus Attucks H. S., Indianapolis, (Miss) C. E. Ransom.
*Chemistry Club, Shortridge, Indianapolis, Lois E. Martin.
*Science Club, Union City, W. H. Miner.
*Nature Study Club, Arsenal Technical, Indianapolis, C. F. Cox.
*Whitley County, (1) Washington Center Hiking and Nature Lore Club, Virgil Lafuse; (2) Coesse's Jolly Hiking and Nature Club, Charles Luther.
- 1932 Geography Council, North Side H. S., Fort Wayne, Fred J. Breeze.
- 1933 Science Club, West Lafayette, Anna Inskeep.
Junior Science Club, Tipton, Wm. D. Hiatt.
Junior Academy of Science, Montmorenci, I. W. Vance.
- 1934 Tri-Science Club, Cambridge City, J. L. Bozarth.
Science Club, Blaine, Jr. H. S., Muncie, Robert Cooper.
- 1935 ¹Science Club, Lowell, R. J. Brannock.
¹Junior Academy of Science Club, Lew Wallace H. S., Gary, Lola Lemon.
¹Science Club, Paoli, O. R. Whitlock.
¹Edison Club, Roosevelt H. S., East Chicago, Harry Apostle.

*Charter members. ¹Organized since the meeting of 1935.