Twenty-Ninth Annual Meeting

OF THE

West Virginia Academy Of Science

(Thirtieth Anniversary)

Alderson-Broaddus College

Philippi, West Virginia

April 23-24, 1954

OFFICERS OF THE ACADEMY

E. E. Myers, President	Philippi
Robert C. Colwell, Vice-President	Morgantown
James T. Handlan, Jr., Secretary	Keyser
Harold D. Bennett, Treasurer	Morgantown

Statement of Purpose

The West Virginia Academy of Science is an organization of West Virginians who are interested in any aspect of science, whether as teachers in college or high school, as manufacturers, as professional men, or merely as lovers of science. Residents of other states are also eligible for membership. Papers on all phases of science, whether pure or applied, are acceptable for the program. The various sections and affiliated organizations appear to afford a place for any pertinent subject. All interested persons are invited to attend the meetings and to become members.

General Program

Friday, April 23

8:00 A. M. Registration—Lobby, Main Building, Alderson-Broaddus College

9:00 A. M. Study of Academy Exhibits—Lobby, Main Building.
Note: Each Committee has been requested to have an exhibit showing past activities, report for the year and possible future activities. These exhibits will take the place of reading the reports in the Business Meeting.

9:45 A. M. Business Meeting of the Academy—Chapel, Main Building Alderson-Broaddus College

Call to order by President Myers

Reports of Officers
- a. President
- b. Secretary
- c. Treasurer

Report of the Executive Committee

Appointment of Special Committees

Report of Nominating Committee

Reports of Standing Committees
- a. Publications Committee
  Report of the Editor of the News Letter
- b. Legislative Committee
- c. Activities Committee
- d. Membership Committee

Election of Members
- e. Junior Academy Committee
- f. Collegiate Academy Committee
- g. A. A. A. S. Grant Committee
- h. F. E. Brooks Memorial Arboretum Committee
- i. Biological Survey Committee
- j. Conservation Committee
- k. Budget Committee
- l. Necrology Committee

Report of A. A. A. S. Delegate

Reports of Special Committees:
- a. Regional Meetings Committee
- b. Industries Committee
- c. Science Talent Search Committee
- d. Auditing Committee
- e. Publicity Committee
- f. Public Relations Committee
- g. Speakers Bureau Committee
- h. State Science Fair Committee

Unfinished Business

New Business

Appointment of Standing Committees and Special Committees for 1954-1955

Election of Officers

11:00 A. M. Welcome, Dr. Richard E. Shearer, President, Alderson-Broaddus College

Reply, Dr. R. C. Colwell

Address, "Living Scientifically," President E. E. Myers

12:15 P. M. Luncheon—Alderson-Broaddus College Dining Room, Snack Bar in Gymnasium, Snack Bar in Student Center (Basement of Main Building)

ral Program

day, April 23

, Main Building, Alderson-Broaddus College

Exhibits—Lobby, Main Building.
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, Snack Bar in Student Center (Basement of
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2:00 P. M. Meetings by Sections (see following pages for meetings of Sections and Affiliates)

6:30 P. M. Annual Banquet—Alderson-Broaddus College Dining Room
Presentation of Science Talent Search Winners
Presentation of Junior Academy Awards
Presentation of State Science Fair Winners
Word from the New President
Report of the Resolutions Committee

8:00 P. M. Address, "Medical Research," Dr. I. Davidsohn, Professor of Pathology and Chairman of Department, Chicago Medical School, Chicago, Illinois.

Following the Address an Informal Reception for guests and members of the Academy will be held at Greystone, home of the President of Alderson-Broaddus College.

JUNIOR ACADEMY

The Junior Academy will hold its registration sessions and exhibits in the College Gymnasium on Friday, April 23.

SCIENCE FAIR

The State Science Fair will be held in the Gymnasium. The exhibits will be open to visitors from 5:00 P. M. to 11:00 P. M. Friday, April 23, and 8:00 A. M. to 2:00 P. M. Saturday, April 24.

Headquarters for the Academy Meeting is the Registrar's Office, Main Building.

SATURDAY, APRIL 24

TOURS

Tour No. 1—To Compass Coal Company, 8 miles from Philippi on Routes 119 and 57 between Philippi and Clarksburg. Arrangements have been made with Mr. Stephen Canonico, President of the Company, to visit this coal mining operation which is one of the largest and most modern in West Virginia. Three types of mining will be explained, coal stripping, auger mining, and deep mining, and the coal cleaning plant will be visited. The group will leave the Main Building of Alderson-Broaddus College at 9:30 A. M. Saturday, April 24, and return about noon.

Tour No. 2—A Botanical Foray to the old home and collecting grounds of Dr. Hamilton McSparrin Gamble of Moorefield. This Foray is co-sponsored by the Southern Appalachian Botanical Club and the Academy. Leaders will be Dr. Earl Core and Mr. L. Wayne Wilson. The Foray will leave the Moorefield High School at 9:00 A. M. Saturday, April 24, and will proceed by way of McNeill and Glebe to Romney where a stop will be made for lunch. In the afternoon the party will travel westwards along Route 50 to Burlington and vicinity.

Sectional Meetings

Friday, April 23

All sectional meetings will begin promptly at 2:00 P. M.

BIOLOGY

(Botany, Zoology, Physiology, Medicine and Agriculture)

Howard Mills, Acting Chairman—Chapel

"Physiological Aspects of Bird Migration"
Earl A. Davis, Jr., West Liberty State College - - 20 min.

"Inventory of Mastodon Remains Found in Brooke County"
Evelyn Kovalick, Bethany College - - - - 10 min.

"The Four-Toed Salamander, HEMIDACTYLIUM SCUTATUM in West Virginia"
N. Bayard Greene, Marshall College - - - - 10 min.

"Shakespeare and Medicine; Circulation and Sleep"
S. B. Chandler, West Virginia School of Medicine - 20 min.

"The Effects of Testosterone Propionate on Fighting Behavior in Young Female C57B1/10 Mice"
Joel Victor Levy, Bethany College - - - - 10 min.

"The Effects of Estrogen on Fighting Behavior in Young Male C57B1/10 Mice"
Allen M. Terdiman and Joel Victor Levy, Bethany College
Presented by Allen M. Terdiman - - - - 10 min.

CHEMISTRY

(Chemistry, Chemical Engineering, Pharmacy)

Robert H. Glazier, Chairman—Room 5 Gymnasium

"A Spectrophotometric Study of Metal Ion Complexes of Propylenediamine. II. Complexes with Nickel (II) Ion."
James L. Hall and Thomas J. Carpenter, West Virginia University
Presented by James L. Hall - - - - - 15 min.

"A Preliminary Report on the Usefulness of Ethylenediaminetetraacetic Acid Complex Exchange Reactions"
John A. Gibson and Paul R. Wilkinson, West Virginia University
Presented by Paul R. Wilkinson - - - - 12 min.

"Phosphomolybdic Acid, Non-specific Reagent for Phenols"
Paul M. Downey and James N. Roark, Monsanto Chemical Co., Nitro, W. Va. Presented by James N. Roark - - 20 min.

"Dielectric Constant of Ethanol-Water Mixtures at 25° C"
James L. Hall and Harold O. Phillips, West Virginia University
Presented by Harold O. Phillips - - - - 10 min.

"Empirical Estimation of Vapor Pressures of Non-Associated Liquids"
James B. Hickman, West Virginia University - - 15 min.

"The Energy of Activation of Triphenyl Carbinol in Certain Etherification Reactions"
John Daniel Draper, Emerson Heilman, Robert LaVilla, Bethany College. Presented by John Daniel Draper - - 15 min.

"Preparation and Properties of n-Nonadecyl and n-Eicosyl Formates"
A. W. Scholl and J. G. Morrison, Marshall College
Presented by J. G. Morrison - - - - - 15 min.

MATHEMATICS AND PHYSICS

(Mathematics, Astronomy, Physics, Mechanical Engineering, Electrical Engineering)

W. W. Sleator, Chairman—Room 2 Gymnasium

"Comparison of Einstein's and Maxwell's Equations"
Robert C. Colwell, West Virginia University - - 10 min.

"The Dock Problem"
Joseph S. Mamslak, West Virginia University - - 15 min.

"Some Notes on Hoyle's Theory of Cosmogony"
H. Sinclair Tait, Weston State Hospital, Weston, W. Va. - 10 min.

"Alpha Particle Detection with an n-p Junction Type Germanium Crystal"
Julian Nichols and C. D. Thomas, West Virginia University
Presented by Julian Nichols - - - - 10 min.

"A Locus Associated with a Triangle"
M. L. Vest, West Virginia University - - - 10 min.

"Some Notes on the Petersburg Paradox and Moral Expectations"
Joy B. Easton, West Virginia University - - - 10 min.

"A Contradiction in the Principle of Relativity"
Robert L. Carroll, Fairmont State College - - - 10 min.

"Critical Years Ahead in Physics and Mathematics Teaching"
Donald C. Martin, Marshall College - - - - 10 min.

ulation and Sleep"
ia School of Medicine - 20 min.

opionate on Fighting Behavior
/10 Mice"
llege - - - - - 10 min.

ating Behavior in Young Male

Victor Levy, Bethany College
man - - - - - 10 min.

HEMISTRY

nical Engineering, Pharmacy)

Chairman—Room 5 Gymnasium

Metal Ion Complexes of Propylene-
with Nickel (II) Ion."
Carpenter, West Virginia University
- - - - - - 15 min.

Usefulness of Ethylenediaminete-
Exchange Reactions"
Vilkinson, West Virginia University
ison - - - - - 12 min.

ecific Reagent for Phenols"
N. Roark, Monsanto Chemical Co.,
y James N. Roark - - 20 min.

Vater Mixtures at 25° C"
Phillips, West Virginia University
lips - - - - - 10 min.

Pressures of Non-Associated

rginia University - - 15 min.

phenyl Carbinol in Certain Etheri-

Heilman, Robert LaVilla, Bethany
n Daniel Draper - - 15 min.

Nonadecyl and n-Eicosyl Formates"
ison, Marshall College
- - - - - - 15 min.

TICS AND PHYSICS

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airman—Room 2 Gymnasium
Maxwell's Equations"
rginia University - - 10 min.

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Paradox and Moral Expectations"
University - - - 10 min.

le of Relativity"
State College - - - 10 min.

s and Mathematics Teaching"
ollege - - - - 10 min.

"(a) Lecture Experiment, and (b) a Laboratory Experiment in General Physics"
W. W. Sleator, Alderson-Broaddus - - - - 10 min.

"Proof, with Experimental Demonstration, of the Formula (E/d) ½ for the Velocity of Sound"
W. W. Sleator, Alderson-Broaddus College - - 15 min.

GEOLOGY AND MINING

(Geology, Mining, Mineral Industries)

O. L. Haught, Chairman—Room 6 Gymnasium

"Pleistocene Drainage Changes in the Upper Ohio Valley"
H. M. Fridley, West Virginia University - - - 15 min.

"Sedimentation Cycles in the Pocono Rocks of West Virginia"
Jesse L. Dally, West Virginia University - - - 15 min.

"Sources of Error in Petrographic Analyses of Sediments"
Milton T. Heald, West Virginia University - - - 15 min.

"Relation of Geology to Drainage, Floods and Landslides in the Petersburg Area, West Virginia"
V. T. Stringfield and R. C. Smith, U. S. Geological Survey - 45 min.

"Regional Variations in the Greenbrier Limestone"
Russell Flowers, West Virginia Geological Survey - 15 min.

"The Sub-surface Mississippian of Western West Virginia"
O. L. Haught, W. Va. Geological Survey - - - 15 min.

SOCIAL SCIENCES

(Economics, Sociology, History)

Howard M. Hayward, Chairman—Room 2 Main Building

"Early Methodism in West Virginia"
Lawrence Sherwood, Petersburg, W. Va. - - - 20 min.

"Changing Patterns of Agricultural Production and Mechanization in West Virginia"
Robert A. Anglin, West Virginia State College - - 25 min.

"Soviet-Finnish Relations and the Treaty of Dorpat, 1917-1920"
Robert W. Ramsey, Greenbrier College - - - 30 min.

"The Basel Printers in the Renaissance Period"
M. S. Cushman, Concord College - - - - 20 min.

"The Displaced Persons' Program in the United States"
J. T. Richardson, Marshall College - - - - 20 min.

"The Ancient Ruins of Greece"
R. H. Gist, West Virginia University - - - 25 min.

"The United States and South Africa"
A. J. Dadisman, West Virginia University - - 25 min.

"Greenbrier Circuit, Its First Year: 1787 - 1788"
Lawrence Sherwood, Methodist Historical Society, W. Va. Conference - - - - - 20 min.

PSYCHOLOGY

Kenneth K. Loemker, Chairman—Room 5 Main Building

"Determination of Preference Indices for Self-Descriptive Terms"
Martha L. Hendricks and Quin F. Curtis
West Virginia University - - - - - 2:05 - 2:15

"The Role of Muscle Action Potentials in Transfer of Training"
John F. Brackmann, West Virginia University - 2:20 - 2:35

"A Group Level of Aspiration Study with Socially Accepted and Rejected Adolescents"
Rita R. Wertheimer, West Virginia University - 2:40 - 2:55

"The Enigma of Transference Resistance in Psychotheraphy"
Bernard H. Light, West Virginia University - - 3:00 - 3:15

"An Analysis of the Stimulus Trace and Secondary Reinforcement in Discrimination Learning in the Albino Rat"
James N. Shafer, West Virginia University - - 3:20 - 3:30

"Comparison of the Swimming and Running Maze Performance of Bright and Dull Rats Which Have Previously Learned a Swimming Maze"
Kenneth K. Loemker and Madeleine Feil, Marshall College
Presented by Madeleine Feil - - - - 3:35 - 3:45

"A Factorial Approach to Anti-Democratic Attitudes"
Robert F. Corder, West Virginia University - - 3:50 - 4:00

EDUCATION

Roy C. Woods, Chairman—Room 1 Main Building

"The West Virginia School Board Member"
Roy C. Woods, Marshall College - - - - 20 min.

"Absences from Classes"
A. A. Schoolcraft, West Virginia Wesleyan College - 20 min.

COLLEGIATE ACADEMY SECTION

Max Ward, Chairman—Biology Lecture Room, Gymnasium

10:00 A. M. **"Radioactive Air Sampling"**
Truman W. Ball and Michael K. Gainer, West Virginia University

"The Seat of Some Reflexes in the Central Nervous System of the Frog"
Raymond Oxier, Glenville State College

"The Hoffman Rearrangement on 2'-Cyano-2-biphenylcarboxamide II"
A. Roy Provins, Jr., West Virginia University

"My Home Museum"
Almodie Leurant, Morris Harvey College

"The Effect of Certain Stimuli upon the Larva of the June Bug"
Linger N. Arnold, Glenville State College

"The Study of Miniature Jet and Reciprocating Engines and the Forces They Set Up"
Fred Marks, Glenville State College

"The Value of the Oak Tree to West Virginia, Particularly as a Food"
Robert W. Chandler, Morris Harvey College

"Cytology of ENDOCONIDIOPHORA FAGACEARUM"
Foster L. Brown, West Virginia University

"Developmental Patterns in the Potato Meristem"
Leona Satterfield, Glenville State College

"Differential Cooling by Current Reversal"
Ralph B. Walley and Spencer A. Shriver
Fairmont State College

"The Rate of Nitrogen Decrease in the Cotyledons of Bean Seedlings and the Effect of Soil Nitrates on this Decrease"
Robert E. Milligan, Glenville State College

"The Life of an Aquarium Snail"
Sophia Mae Griffith, Morris Harvey College

"An Attempted Synthesis of 2:3, 4:5 Dibenzo-1-aza-cycloheptanone-6"
Phil Work, West Virginia University

"Effects of 'Megasal' on Broilers"
William Crum and Franklin Simon, Glenville State College

"In Vitro Observations on Nematodes"
Joseph Harris, West Virginia University

"A Sample of Attitudes of College Students towards National Groups with Information Relating to Their Origins"
John Bosley, Potomac State College

12:15 P. M. Luncheon—Alderson-Broaddus College Dining Room, Snack Bar in Gymnasium, Snack Bar in Student Center (Basement of Main Building).

1:30 P. M. Continuation of Papers
Business Meeting and Election of Officers
Announcements

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deleine Feil, Marshall College
- - - - - 3:35 - 3:45

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DUCATION
rman—Room 1 Main Building
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ACADEMY SECTION
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THE WEST VIRGINIA PHILOSOPHICAL SOCIETY
Affiliate of the West Virginia Academy of Science

John R. Cresswell, President, West Virginia University
George Ward II, Secretary-Treasurer, Fairmont State College

Friday, April 23, 1954

9:45 A. M. Meeting with the Academy of Science
General Session
12:15 P. M. Luncheon
1:30 P. M. Society Meeting—Room 4, Main Building
Presentation of Faculty Papers
A. Louis B. Jennings, Marshall College
Title to be Announced
B. Robert Anglin, West Virginia State College
Title to be Announced
C. To be announced
D. Jose Al Franquiz, West Virginia Wesleyan
Title to be Announced
4:00 P. M. Business Meeting of the Academy
6:30 P. M. Banquet with the Academy of Science

Saturday, April 24, 1954

9:45 A. M. Presentation of Student Papers
A. Mrs. Janet Means Blake, West Virginia University
Title to be Announced
B. Remaining Student Papers to be Announced
11:00 A. M. Business Meeting
12:00 M. Luncheon—College Snack Bar

WEST VIRGINIA PSYCHOLOGICAL ASSOCIATION
Affiliate of the West Virginia Academy of Science

Friday, April 23, 1954

9:45 A. M. Meeting with the West Virginia Academy of Science
General Session
12:15 P. M. Luncheon
2:00 P. M. Section papers
6:30 P. M. Annual Banquet of the Academy

Saturday, April 24, 1954

Psychological Program at the V. A. Hospital, Clarksburg, W. Va.
9:45 A. M. Registration with Secretary at hospital auditorium
10:00 A. M. Business meeting for members—Room 132
10:00 A. M. Movie, "Emotional Health," for visitors in auditorium
12:30 P. M. Luncheon—Canteen
1:30 P. M. Hospital Tour
2:00 P. M. Greetings by the Manager and Chief of N. P. Services
2:30 P. M. Panel Discussion on School Psychology
Georgianne Stary, Chairman
Julius Wilson
Member
Member

WEST VIRGINIA SCIENCE TEACHERS' ASSOCIATION
Affiliate of the West Virginia Academy of Science

Thursday, April 22, 1954

6:00 P. M. Dinner Meeting — Alderson-Broaddus College
Call to order by President Donald C. Martin, Marshall College
Report of NSTA Convention — Rosa Craig

Address—"School Science and Creativity"
Dr. John S. Richardson, Treasurer, National Science Teachers Association
Business Meeting
DuPont TV Film on Science Teaching
Discussion of Science Teaching Problems
Adjournment

BIOLOGICAL PHOTOGRAPHIC ASSOCIATION
Affiliate of the West Virginia Academy of Science

Friday, April 23, 1954

8:30 A. M. Registration of Members
9:30 A. M. Association Meeting — Green Room, Main Building
Call to order by President Charles S. McDaniel, Philippi, W. Va.
Business Meeting
12:15 P. M. Luncheon
2:00 P. M. Lecture
Robert F. D'Agostini, Representative of Ansco
3:30 P. M. VuMaster Stereo Biological Slides in Color
4:30 P. M. Microphotography Slides
Constance L. Jarrett
5:00 P. M. Adjournment
6:30 P. M. Banquet with the Academy

Saturday, April 24, 1954

9:30 A. M. Re-showing of VuMaster Stereo Biological Slides in Color
10:45 A. M. Tour—to be announced

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STANDING AND SPECIAL COMMITTEES

Standing Committees

Membership
Nelle Ammons, Chairman
Kenneth E. Loemker
Shirley Morton

Publication
H. A. Gibbard, Chairman
H. L. Barnett
M. T. Heald
J. B. Hickman
John Luchok
J. K. Stewart
Quinn Curtis
A. M. Reese

Legislative
W. J. L. Wallace, Chairman
Paul H. Renton
Maurice Brooks

Activities
C. J. Harris, Chairman
E. Meade McNeill

Junior Academy
Iris M. McClure, Coordinator, Chairman
J. R. Elliott, Regional Counselor
Shirley Morton, Regional Counselor
Rosa Craig, Regional Counselor

A. A. A. S. Grant
C. D. Thomas, Chairman
V. G. Lilly
A. W. Scholl

F. E. Brooks Memorial Arboretum
Max Ward, Chairman
E. R. Grose
Cal Price

State Biological Survey
E. L. Core
N. B. Green
Co-chairmen

Budget
H. A. Davis, Chairman
H. D. Bennett
A. P. Davison

Collegiate Academy
Max Ward, Coordinator, Chairman
Donald Cox, Regional Counselor
Chester W. Muth, Regional Counselor

Necrology
James L. Hupp, Chairman
F. E. Thornton
Andrew Leitch

Conservation
H. D. Bond, Chairman
E. A. Seaman
N. D. Richmond
E. L. Plymale
J. Y. Peary
E. H. Tryson

Special Committees

Regional Meetings
H. A. Wells, Chairman
W. E. Michael
Jennie Harshbarger

Science Talent Search
Myrtle M. Miller, Chairman
Harvey N. Rexroad
G. A. Loughridge

Industries
D. C. Martin, Chairman
A. H. Scholl
W. A. Koehler
H. A. Stansbury, Jr.

Publicity
J. T. Richardson, Chairman
Clyde J. Steele
Jack Neely
Virginia W. Fisher
Simone Jorishie
Stanley Farr

Public Relations
Thomas C. Campbell, Chairman
Hawey A. Wells

Speakers Bureau
George R. Hunt, Chairman
Roy C. Woods
A. H. Anderson
Chester W. Muth
Wayne J. Gray

State Science Fair
E. E. Myers, Chairman
Iris M. McClure
Myrtle M. Miller

Editor of News Letter, A. M. Reese

A. A. A. S. Delegate, Leland H. Taylor

LOCAL COMMITTEE

Dean George Riday, General Chairman
Mr. Lyle Herod, Registration and Housing
Mrs. Dicie B. Chipps, Guides and Signs
Mr. Joe Bailey, Finance
Mr. Charles A. Thorman, Publicity
Mrs. Charles A. Thorman, Hospitality and Reception
Mrs. Lyle Herod, Banquet and Meals
Coach Rex Pyles, Transportation and Parking
Dr. Earl Vinie, Meeting Rooms
Mr. Norris B. Woodie, Science Fair