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Entry of the exhibits and presence of the exhibitors is made possible by these newspapers which cooperated with Science Clubs of America to encourage youthful scientific skills.

*The Hartford Times.*

*The News*

*The Boston Daily Globe*

ST. LOUIS STAR-TIMES

*Atlantic City Press*

OCEAN COUNTY LEADER

THE KNICKERBOCKER NEWS

BUFFALO EVENING NEWS

*The Oneonta Star*

OKLAHOMA CITY TIMES

*The Philadelphia Inquirer*

An Independent Newspaper for the People

*The Providence Journal-Bulletin*

NORFOLK LEDGER-DISPATCH



# FIRST NATIONAL SCIENCE FAIR

Conducted by  
**Science Clubs of America**  
(A Science Service Activity)  
with Newspapers Cooperating

## CATALOG OF EXHIBITS

The Franklin Institute  
Philadelphia, Pa.

May 19-21, 1950



# Catalog of Exhibits at the First National Science Fair

1. Phonograph Reproducer and Record Progress  
Morton Lurie (17) - Rockville (Conn.) High School
2. Model of Earthworm  
Jean Yanelli (17) - Bulkeley High School  
The Northern Connecticut Science Fair  
The Hartford Times, Hartford, Connecticut
3. Van de Graaff Generator  
Dominic B. Edelen (17)  
Frederick Sasser High School, Upper Marlboro, Maryland
4. Fossils  
Charles L. Kimbell (17) - McKinley High School
5. Chromosomes and Cell Division  
Mary Helen Martin (17) - Hyattsville (Md.) High School
6. Paper Chromatography  
Frances A. White (17) - Hyattsville (Md.) High School  
Fourth Annual Washington, D.C. Science Fair  
The Washington Daily News, Washington, D.C.
7. Hydrogen-Oxygen Arc  
Serge Boutourline, Jr. (18)  
The Browne and Nichols School, Cambridge
8. Experimenting with Pregnancy Urine  
Anne K. Conant (17) - Milton (Mass.) Academy Girls School  
The Massachusetts Science Fair  
The Boston Daily Globe, Boston, Massachusetts
9. Beta and Gamma Ray Analysis  
Donald H. Richards (17) - Belleville (Ill.) Township High School
10. Insects Collected in St. Louis, Missouri  
Carolyn Kay Wimber (16)  
University City (Mo.) Senior High School  
Third Annual Greater St. Louis Science Fair  
St. Louis Star-Times, St. Louis, Missouri
11. Fluorescence of Detergents  
Werner A. Fehlauer (17) - Paulsboro (N.J.) High School  
Second Annual South Jersey Science Fair  
Atlantic City Press, Atlantic City, New Jersey
12. Auto Ignition System  
Robert B. Dunston (18) - Point Pleasant Beach High School
13. Cosmetics  
Lorraine A. Johnson (17) - Point Pleasant Beach High School  
Point Pleasant Beach Science Fair  
Ocean County Leader, Point Pleasant, New Jersey
14. Kerr Electro-Optical Effect  
Robert E. Welcyng (16) - Glens Falls (N.Y.) High School  
Albany Congress and Fair  
The Knickerbocker News, Albany, New York
15. Scale Model of WBEN-TV Studio  
Duane S. Kuhn (18) - Amherst Central High School, Snyder  
Eighth Annual Western New York Science Congress  
Buffalo Evening News, Buffalo, New York
16. Antibiotics  
William G. Horton (15) - Oneonta Senior High School
17. Geiger-Mueller Counter  
Harry Phillips (18) - Allentown (Pa.) High School
18. Radiation Effects on Fruit Flies  
Lenore Y. Taylor (17) - Utica (N.Y.) Free Academy  
Ninth Annual Oneonta Science Congress  
The Oneonta Star, Oneonta, New York
19. Flying Wing Model  
Terrell Feistel (18) - Classen High School
20. Bikini Bomb Explosion Model  
Carolyn Freeling (18) - Central High School  
Oklahoma City Science Fair  
Oklahoma City Times, Oklahoma City, Oklahoma
21. High Frequency Heating by Induction  
David Kusner (17) - Overbrook High School
22. Violin and Vibrating String Laws  
Helene D. McFetridge (18) - John W. Hallahan High School
23. Red of the Sun at Sunset  
Walter L. Morgan (19) - The Haverford (Pa.) School
24. Chromosome Doubling  
Martha M. Schuld (18) - Little Flower Catholic High School  
Second Annual Greater Philadelphia Science Fair  
The Philadelphia Inquirer, Philadelphia, Pennsylvania
25. Proof of the Laws of Motion  
Alan J. Fletcher (18) - Nelson W. Aldrich High School, Warwick
26. Study of Mold  
Maureen E. Harten (17) - St. Xavier's Academy  
Fifth Annual Rhode Island Schools' Science Fair  
The Providence Journal-Bulletin, Providence, Rhode Island
27. Sewage Treatment Plant Model  
Theodore S. Garnett, Jr. (15) - Norfolk Academy
28. Isolation of Molds  
Johanna Martha Giese (15) - Granby High School
29. Steam Engine  
John W. Myers (16) - Norview High School
30. Model of a Home  
Frank Schippell (18) - Maury High School  
Tidewater Science Fair  
Norfolk Ledger-Dispatch, Norfolk, Virginia

**ELKS LODGE NO. 1216**

Walsh County Record

Rotary Club of Mandan

The Kiwanis Club of Minot

Valley City Times Record

ARCHBOLD ● BUCKEYE

**The Cleveland Press**

East Central State College

Durant Daily Democrat

Central State College

**THE UNIVERSITY OF OKLAHOMA**

OKLAHOMA CITY TIMES

Southwestern State College

CALL-CHRONICLE NEWSPAPERS

**Intelligencer Journal**

Bucknell University

The Philadelphia Inquirer

The Providence Journal-Bulletin

THE CHARLESTON EVENING POST - The News and Courier

The State - The Columbia Record

The Greenville News - PIEDMONT

SOUTH DAKOTA STATE COLLEGE

SOUTH DAKOTA SCHOOL OF MINES AND TECHNOLOGY

WNAX-570 KTV

The Chattanooga Times

**TENNESSEE POLYTECHNIC INSTITUTE**

The Knoxville News-Sentinel

Memphis Press-Scimitar

Nashville Banner

The Abilene Reporter-News

SUL ROSS STATE COLLEGE

THE UNIVERSITY OF TEXAS

The ~~San Antonio~~ Caller-Times

District V - Denton, Texas, Service Clubs

The Fort Worth Press

Texas Academy of Science

San Angelo Public Schools

The ~~Prattville~~ Daily Reflector

Arlington County Science Fair Association

MARTINSVILLE BULLETIN

Daily ~~Roanoke~~ Press NEWPORT NEWS TIMES-HERALD

THE ROANOKE TIMES - The Roanoke World-News

The Inland Empire Science Fair Association

THE TACOMA NEWS TRIBUNE

SUNSET-NEWS - Bluefield Daily Telegraph

MORRIS HARVEY COLLEGE

MARSHALL COLLEGE

The Charleston Gazette

SALEM COLLEGE

THE MILWAUKEE JOURNAL

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# SEVENTH NATIONAL SCIENCE FAIR

Conducted by  
Science Clubs of America  
(A Science Service Activity)

in Cooperation with  
110 Affiliated Science Fairs

## CATALOG OF EXHIBITS

Municipal Auditorium

Oklahoma City, Oklahoma

May 10 - 12, 1956



67. Basic Preparation of Guinea Pig Tissues for Microscopic Study  
\*Deborah Louise Young (15) - Lawrence High School, Lawrence, Kansas  
First Annual Topeka Regional Science Fair, Topeka, Kansas  
The Topeka Daily Capital
68. Archaeology of Northeast Louisiana  
Theo Thomas Miles (17) - Neville High School, Monroe, Louisiana
69. Rocks and Minerals  
\*Rosemary White (16) - West Monroe High School, West Monroe, Louisiana  
Second Annual Northeast Louisiana Regional Science Fair, Monroe, Louisiana  
Northeast Louisiana State College - Cotton Club Louisiana
70. Amateur Zone Electrophoresis  
Roy Glyen Roberts (17) - Chatham High School, Chatham, Louisiana
71. Structural and Chemical Changes in a White Rat Due to a Protein Deficiency  
\*Alwynelle Parker Self (15) - Byrd High School, Shreveport, Louisiana  
Second Annual Louisiana State Science Fair, New Orleans, Louisiana  
Louisiana Academy of Sciences
72. Reptiles and Amphibians of Maryland  
Donald Wayne Linzey (16) - Baltimore City College (a secondary school), Baltimore, Maryland
73. Cationic Analysis of the Mouse  
Jack Maniloff (17) - Forest Park High School, Baltimore, Maryland  
First Annual Baltimore Science Fair, Baltimore, Maryland  
The Johns Hopkins University - The Kiwanis Club of North Baltimore
74. Crystal Habit and Growth  
Robert Huth Gaither (18) - Northwestern Senior High School, Hyattsville, Md.
75. Is Chemotherapy the Answer to Cancer?  
\*Lynne Welch Taylor (17) - Northwestern Senior High School, Hyattsville, Md.  
Eighth Annual Prince Georges County Science Fair, Hyattsville, Maryland  
Prince Georges Science Fair Association
76. Spectrophotometer for Study of Solutions  
\*Elizabeth Ellen Dowling (16) - Montgomery Blair High School, Silver Spring, Maryland
77. Investigation of the Universe  
#Joel Fredric Lubar (17) - Montgomery Blair High School, Silver Spring, Maryland  
First Annual Montgomery County Science Fair, Rockville, Maryland  
Montgomery County Board of Education - Joint Board of Science Education, Washington Area - Washington Junior Academy of Sciences
78. Cap Detector  
Walter B. Ambler (15) - Natick High School, Natick, Massachusetts
79. Transistor Applicator  
Fred W. Harrington (17) - Framingham High School, Framingham, Massachusetts  
First Annual Worcester County Regional Science Fair, Worcester, Massachusetts  
The Kiwanis Clubs of Worcester and Greendale Massachusetts
80. Waste Wood Utilization  
David C. Jenner (16) - Bishop Baraga High School, Marquette, Michigan
81. The House Fly  
\*Leona Jane Kananen (16) - Negaunee High School, Negaunee, Michigan  
Second Annual Northern Michigan Science Fair, Marquette, Michigan  
The Mining Journal - Northern Michigan College
82. The Spectroscope and the Van de Graaff As Used in Analysis  
Lawrence Southwick, Jr. (17) - Midland Senior High School, Midland, Michigan
83. On the Tip of Your Tongue  
\*Sarah Elizabeth Southwick (15) - Midland Senior High School, Midland, Michigan  
Sixth Annual Midland Science Fair, Midland, Michigan  
Midland Daily News - Dow - Dow Corning - Midland Section ACS
84. Drug Effect on Water Fleas  
Thomas William O'Brien (17) - Lourdes High School, Rochester, Minnesota
85. Calories to Kilowatts  
Peter G. Speltz (15) - Cotter High School, Winona, Minnesota  
Third Annual Southeastern Minnesota Regional Science Fair, Rochester, Minnesota  
Mayo Association
86. Electromagnetic Solubility Table  
Fred Coffey ( ) - University High School, University, Mississippi
87. The Human Skeleton  
\*Kay Moseley ( ) - West Point High School, West Point, Mississippi  
Third Annual Mississippi State Science Fair, Jackson, Mississippi  
Mississippi Academy of Science - University of Mississippi
88. Electrometric Titrimeter  
\*Norma Elizabeth Cole (17) - Sumner High School, Kansas City, Kansas
89. Measurement of Normal Burning Velocities and Flame Temperatures of Bunsen Flames  
John Laurent Hodge (16) - Sumner High School, Kansas City, Kansas  
Fifth Annual Greater Kansas City Science Fair, Kansas City, Missouri  
The Kansas City Star
90. Chemical Digestion and Absorption of Food  
\*Alva Marie Chandler (17) - Academy of Notre Dame, Belleville, Illinois
91. Oudin Resonator  
Marvin J. Feldman (17) - Soldan High School, St. Louis, Missouri  
Ninth Annual Greater St. Louis Science Fair, St. Louis, Missouri  
St. Louis Post-Dispatch
92. Trigonometric Functions in the Unit Circle  
\*Catherine E. Connell (18) - Girls Central High School, Butte, Montana
93. Earth Satellite Model  
James A. Rowe (18) - Butte High School, Butte, Montana  
First Annual Butte Regional Science Fair, Butte, Montana  
Butte Regional Science Fair Association
94. Plant Nutrition  
\*Sandra Lee Orr (16) - Park County High School, Livingston, Montana
95. The Halogens  
Gail Lee Owen (18) - Missoula County High School, Missoula, Montana  
First Annual Montana Science Fair, Missoula, Montana  
Montana State University
96. New Warfare on Old Bugs  
\*Monique Blais (15) - Notre Dame High School, Berlin, New Hampshire
97. Development of Circulation  
David A. Schurman (15) - Lancaster High School, Lancaster, New Hampshire  
Fourth Annual North Country Science Fair, Lancaster, New Hampshire  
Coos County Democrat
98. Ultrasonic Machine Tool  
Julius Michael John Madey (15) - Jonathan Dayton Regional High School, Springfield, New Jersey

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# EIGHTH NATIONAL SCIENCE FAIR

Conducted by  
**Science Clubs of America**  
(A Science Service Activity)

in Cooperation with  
**123 Affiliated Science Fairs**

## CATALOG OF EXHIBITS

**Los Angeles County Museum**  
**Los Angeles, California**  
**May 9-11, 1957**



102. Cancer and Carcinogens  
\*Diane Pillow (16) - Greenwood High School, Greenwood

MISSOURI

- ▶ Sixth GREATER KANSAS CITY Science Fair, Kansas City  
Science Pioneers, Inc. - The Kansas City Star
103. Magnetic Orientation of Colloidal Graphite Particles with the Brownian Movement  
\*Patricia Wayne Caruthers (17) - Sumner High School, Kansas City
104. Effect of Carbohydrates on Bacterial Luminescence  
Elbert L. Hayes, Jr. (16) - East High School, Kansas City
- ▶ Tenth GREATER ST. LOUIS Science Fair, St. Louis  
St. Louis Post-Dispatch
105. Ascaris - Life History and Embryogeny  
Leslie Matthew Boll (17) - Christian Brothers College High School, St. Louis
106. Ultrasonic Interferometer  
Robert James Schneider (17) - Southwest High School, St. Louis

MONTANA

- ▶ Second BUTTE Regional Science Fair, Butte  
Butte Regional Science Fair Association
107. Experiments with Tropisms in Plants  
\*Betty Bruckner (16) - Butte Public High School, Butte
108. Experimental Genetics with Drosophila melanogaster  
George Michael Haney (16) - Butte Public High School, Butte
- ▶ Second MONTANA Science Fair, Missoula  
Montana State University
109. Gibberellic Acid - Plant Regulator  
\*Marilynn R. Ashley (17) - Park County High School, Livingston
110. Interior of an Ant Hill  
George Patrick Markin (18) - Helena Senior High School, Helena

NEW HAMPSHIRE

- ▶ Fifth NORTH COUNTRY Science Fair, Lancaster  
The Co's County Democrat - Lancaster High School
111. Effect of Antibiotics on Endamoeba histolytica  
Leo G. Morin (15) - Notre Dame High School, Berlin
112. Chemistry of Wood  
Maurice Renaud (16) - Notre Dame High School, Berlin

NEW JERSEY

- ▶ Fourth GREATER NEWARK Science Fair, Newark  
Newark College of Engineering - Greater Newark Science  
Fair Committee
113. Dial Multiplier  
#Joseph Raymond Pastore (15) - West Side High School, Newark
114. Slide Rule Applied to the Pythagorean Theorem  
Neil Richard Ullman (16) - Union High School, Union
- ▶ Fourth CENTRAL NEW JERSEY Science Fair, New Brunswick  
Rutgers University
115. Euglena - Plant or Animal?  
Richard Henry Conrad (16) - Rutgers Preparatory School, New Brunswick
116. Jack and the Beanstalk  
\*Ethel Regenberg (17) - North Plainfield High School, North Plainfield
- ▶ Fifth GREATER TRENTON Science Fair, Trenton  
The Trenton Times - Engineers' Club of Trenton
117. Combinations of Antibiotics  
John A. Kirk, Jr. (18) - Trenton Central High School, Trenton

NEW MEXICO

- ▶ Fifth NEW MEXICO Science Fair, Socorro  
New Mexico Institute of Mining and Technology - Albuquerque Journal
118. Experiments in Ultrasonics  
Royce Wayne Fletcher (17) - Artesia High School, Artesia

119. Vitamin A and D Deficiency in Guinea Pigs  
\*Betty Rae Smith (18) - Las Vegas High School, Las Vegas

NEW YORK

- ▶ Nineteenth School Science Fair, BOROUGH OF BRONX CENTER, New York  
The American Institute of the City of New York
120. An Electronic Mouse  
Mark B. Shaw (15) - Samuel Gompers Vocational & Technical High School,  
New York
121. Constructing and Observing through a 6-inch F/4 Telescope  
Stephen Eric Strom (14) - Bronx High School of Science, New York
- ▶ Nineteenth School Science Fair, BOROUGH OF BROOKLYN CENTER, New York  
The American Institute of the City of New York
122. Mechanical Attributes of Frog's Heart  
Edward Jay Feller (16) - Erasmus Hall High School, Brooklyn
123. Radio-Controlled Model Truck  
William D. Henn (17) - Bishop Loughlin High School, Brooklyn
- ▶ Nineteenth School Science Fair, BOROUGH OF MANHATTAN CENTER, New York  
The American Institute of the City of New York
124. Electrophoretic Analysis of Blood Proteins  
Samuel Strober (17) - Stuyvesant High School, New York
125. Inorganic Paper Chromatography  
John Joseph Wavrik (16) - Stuyvesant High School, New York
- ▶ Nineteenth School Science Fair, BOROUGH OF QUEENS CENTER, New York  
The American Institute of the City of New York
126. Polarized Light - Secret Agent of Visible Spectrum  
\*Karen Eckstein (17) - Newtown High School, Elmhurst
127. Electronic Slide Rule  
Kung Yao (18) - Forest Hills High School, Forest Hills
- ▶ Nineteenth School Science Fair, BOROUGH OF RICHMOND CENTER, New York  
The American Institute of the City of New York
128. Microtechnique of Animal Glands and Tissues  
Michael J. Teitler (15) - Curtis High School, Staten Island
- ▶ Second WESTCHESTER COUNTY Science Fair, White Plains  
Westchester County Publishers, Inc. - New York University
129. Automatic Color Picture Transmitter  
#Robert F. Jennings (16) - Roosevelt High School, Yonkers
130. Slime Mold - Plant and Animal  
\*Carolyn M. Trager (16) - Scarsdale High School, Scarsdale

NORTH CAROLINA

- ▶ Third NORTH CAROLINA State Science Fair, Raleigh  
North Carolina Academy of Science
131. Electronic Microscope  
#William Edward Montgomery (17) - Myers Park High School, Charlotte
132. Stages of Moths  
\*Betty Lou Wallace (15) - Mountain Park High School, Mountain Park

NORTH DAKOTA

- ▶ Fourth NORTH CENTRAL NORTH DAKOTA District Science Fair, Devils Lake  
Elks Lodge No. 1216 - BPOE
133. International Geophysical Year - IGY  
\*Phyllis Jean Farstad (17) - Central High School, Devils Lake
134. Ants  
#\*Eleanor Rachel Weisenhaus (17) - Central High School, Devils Lake
- ▶ Fifth NORTHEAST NORTH DAKOTA District Science Fair, Grafton  
Grafton National Bank - Walsh County State Bank
135. Ions  
\*Janet Grimson (16) - Grafton Central High School, Grafton
136. Vision - More than Meets the Eye  
\*Mary Ellen Stenso (17) - Grafton Central High School, Grafton