

17, Melbourne H. S., Melbourne, Fla., "Studies of the Adrenal Gland," also winner of Path.-Med. Tech. merit certificate.

Fourth Place Awards and \$25 went to participants from fairs in the following states:

ALABAMA—John H. Thornton, 18, Huntsville H.S., Huntsville.

ARIZONA—Sondra Kay Johnson, 18, Rincon H.S., Tucson.

ARKANSAS—Charles William Berry, 16, Hall H.S., Little Rock.

CALIFORNIA—Patricia Arlene Vickers, 17, Mt. Whitney H.S., Visalia; Joanne Fiscalini, 17, Modesto H.S., Modesto; David Edward Voit, 17, Patterson Union H.S., Patterson; David Louis Coplin, 16, Encina H.S., Sacramento.

CANADA—David John Isbister, 16, Welland High and Vocational School, Welland, Ontario; Wendy Patricia Gibbs, 17, King Edward H.S., Vancouver, B.C.

COLORADO—Alan Lee Dudley, 15, North Denver H.S., Denver; Kenneth Linn Weaver, 16, Greeley H.S., Greeley; Wanda LaDeen Hakel, 17, Central Jr.-Sr. H.S., Grand Junction; James Oran Huff, Jr., 16, Grand Junction H.S., Grand Junction.

DISTRICT OF COLUMBIA—Karl Henry Miller, 16, Woodward Preparatory School for Boys, Washington.

FLORIDA—Raymond Clyde Roy, 17, Robert E. Lee Sr. H.S., Jacksonville; Tommy Linwood Tyler, 15, Nathan Bedford Forrest Sr. H.S., Jacksonville.

GEORGIA—Benjamin Frank Hatfield, Jr., 16, W. F. Dykes H.S., Atlanta; William Fred Moss III, 17, Southwest H.S., Atlanta.

IDAHO—Joseph L. Parkinson, 16, Blackfoot H.S., Blackfoot; Ward D. Parkinson, 16, Blackfoot H.S., Blackfoot.

ILLINOIS—Joseph A. Neisendorfer, 17, Tilden Technical H.S., Chicago.

INDIANA—Bill M. Murley, 17, Garrett H.S., Garrett; Steven L. Hart, 17, Bluffton H.S., Bluffton; Mitchell Pilot, 17, Oliver P. Morton H.S., Hammond; Ronald Edward Waltz, 18, Warren Central H.S., Indianapolis; Ronald Wesley Johnson, 17, A. J. Kent H.S., Kentland; Anthony Eugene Akers, 16, Coal Creek Central H.S., New Richmond; David H. Avery, 15, Portage Township H.S., Portage.

IOWA—Carol Ann Marvitz, 17, West H.S., Waterloo; Donald John Crownover, 17, Rock Island Sr. H.S., Rock Island, Ill.

KANSAS—Sheldon Edward Nuss, 16, Topeka H.S., Topeka.

LOUISIANA—Salpi Adrouny, 18, Benjamin Franklin Sr. H.S., New Orleans; Linda Gayle Freeman, 17, Marthaville H.S., Marthaville.

MARYLAND—Ralph Hopper Morgan, Jr., 17, Bel Air Sr. H.S., Bel Air; Linnea Stewart, 17, High Point H.S., Beltsville.

MASSACHUSETTS—Lili Ann Motta, 15, Bishop Stang H.S., North Dartmouth.

MICHIGAN—Mary Helen Sherburne, 16, St. Thomas the Apostle H.S., Ann Arbor; Lawrence L. Dickerson, 17, Caro Community Schools, Caro; Pamela Kay Gill, 17, Midland Sr. H.S., Midland.

MINNESOTA—John Dozier Roome, 18, John Marshall Sr. H.S., Rochester.

MISSISSIPPI—Malcolm D. May, Jr., 17, Greenwood H.S., Greenwood.

MISSOURI—William Harris Batson, 18,

Rosedale H.S., Kansas City, Kansas; Jeffrey William Lang, 17, St. Louis University H.S., St. Louis.

MONTANA—Robert R. Greenheck, 18, Granite County H.S., Philipsburg; Gerald M. Wilkins, 18, Great Falls H.S., Great Falls.

NEW JERSEY—Fred Chin Jew, 16, William L. Dickinson H.S., Jersey City.

NEW MEXICO—Alleah Sue Barnes, 16, Valley H.S., Albuquerque; Joseph Toulouse, 16, Santa Fe H.S., Santa Fe; John Taft Nicholson, 18, Alamogordo H.S., Alamogordo.

NEW YORK—Paul Allan Stokstad, 18, Pearl River H.S., Pearl River; Cecilia Veronica Huala, 16, St. Vincent Ferrer H.S., New York; James B. Rand, 14, Andrew Jackson H.S., Cambria Heights; Roger Sassen, 16, Martin Van Buren H.S.; Queens Village; Howard H. Kirtland, 17, Our Lady of Lourdes H.S., Poughkeepsie; Amelia Mary Martinko, 17, Our Lady of Lourdes H.S., Poughkeepsie; John Walter Glendenning III, 16, Pelham H.S., Pelham.

NORTH CAROLINA—Geoffrey F. Walker, 15, Lee H. Edwards H.S., Asheville; Lewis T. Karriker, Jr., 18, South Rowan Sr. H.S., China Grove.

NORTH DAKOTA—Clara Steier, 16, St. Mary's H.S., Richardton.

OHIO—John Lawrence Kowalski, 18, Benedictine H.S., Cleveland; William G. Hutchison, Jr., 15, Whetstone H.S., Columbus.

OKLAHOMA—Jo Lynne Birkhead, 16, Harding H.S., Oklahoma City; Minette Marian Frizzell, 18, Classen H.S., Oklahoma City.

PENNSYLVANIA—Astrid Imke Hausch, 18, Lower Moreland H.S., Huntingdon Valley; George Edward Halloran, 15, Cathedral H.S., Scranton; Marguerite Mary Yevitz, 15, St. Nicholas H.S., Wilkes-Barre.

RHODE ISLAND—Edward F. Turco, 17, Cranston H.S., Cranston.

SOUTH CAROLINA—Sandra Charlene Thomason, 17, Hillcrest H.S., Simpsonville; Murray O'Neil Meetze, Jr., 17, Heath Springs H.S., Heath Springs.

TENNESSEE—Albertine Buyck, 17, Howard H.S., Chattanooga; Mark Allan Spivey, 17, West H.S., Knoxville; William Joseph Busler, 17, Christian Brothers H.S., Memphis; Robert Leon Carney, 17, Isaac Litton H.S., Nashville.

TEXAS—Elaine Walter, 18, Cooper H.S., Abilene; Joel Anthony Moser, 18, Longview H.S., Longview; James Lee Ash, Jr., 17, Bryan Adams H.S., Dallas; Gerald Henry Jordan, 17, S. F. Austin H.S., El Paso; Glen Allen Calvert, 18, Brazosport Sr. H.S., Freeport; Linda Charlene Hayes, 16, Andrews H.S., Andrews; Michael R. Gorman, 17, San Angelo Central H.S., San Angelo; Lois Levelle McCoy, 19, San Angelo Central H.S., San Angelo; Berta Alicia Rodriguez, 17, Luther Burbank Vocational H.S., San Antonio; John Taboada, 18, L. W. Fox Vocational and Technical H.S., San Antonio; Jimmy Weldon Worley, 18, Wichita Falls Sr. H.S., Wichita Falls.

UTAH—Gary N. Foulks, 17, West H.S., Salt Lake City.

VIRGINIA—Randall Craig Zisler, 15, Wakefield Sr. H.S., Arlington; Clifton Eugene James, Jr., 17, McLean H.S., McLean; Ruth Ann Ziegler, 17, James Madison H.S., Vienna.

WASHINGTON—Paul Leland Andre Tremblay, 17, Coeur d'Alene Sr. H.S., Coeur d'Alene, Idaho.

WISCONSIN—John Charles Schaefer, 17, North H.S., Sheboygan.

The American Chemical Society presented First Awards of plaques and \$100 for purchase of materials to further winners' study and experimentation to Sandra Kay Stellingwerf, 18, Penn H. S., Mishawaka, Ind.,



**LIGHT-WEIGHT SATELLITE**—Shown is an inflatable satellite model of aluminum and plastic foil weighing one-third less than materials now used. It was developed by Aluminum Company of America, Pittsburgh, Pa.