

Rollins, 17, Eisenhower H.S., Lawton, Okla., for "Design and Use of a Wind Tunnel in Applied Aeronautics."

THE ENTOMOLOGICAL SOCIETY OF AMERICA awarded a \$100 Savings Bond and the current issue of the Annual Review of Entomology to Gary E. Hatch, 17, Provo H.S., Provo, Utah, for "Flight Mechanism of the Dragonfly." A second award of \$25 was presented to Toshiko Fujitsu, 18, Seika Girls H.S., Kyoto City, Japan, for "Studies on Insect Galls in Structure and Formation."

THE FEDERAL AVIATION AGENCY awarded plaques and escorted trips to Agency facilities to winners in three categories: Aviation Medicine—Karen L. Cray, 17, Atchison H.S., Atchison, Kans., for "Effect of Environmental Changes on Behavior in Mice"; Aircraft and Engineering Design—John F. Rollins, 17, Eisenhower H.S., Lawton, Okla., for "Design and Use of a Wind Tunnel in Applied Aeronautics"; Aviation Electronics—Clifton Wilson Gantt, Jr., 18, Columbia H.S., Columbia, S.C., for "Microwaves: Theory and Applications."

THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION awarded certificates of merit and two-day visits to NASA facilities to six winners for their creative scientific endeavor in space exploration: Dale Edward Fitz, 16, Arnett H.S., Arnett, Okla., for "An Earth Satellite"; Bryan Grummon, 17, Dawson County H.S., Glendive, Mont., for "Ultra-Sonic Pulsed Laser"; Alan Correll Hull, 18, Oneonta H.S., Oneonta, Ala., for "Relationship Between deHaas-van Alphen Effect and Magnetothermal Effect and How They Affect a Metal"; Ronald John Polinsky, 16, Central Catholic H.S., Reading, Pa., for "Infrared Spectra of DNA"; John F. Rollins, 17, Eisenhower H.S., Lawton, Okla., for "Design and Use of a Wind Tunnel in Applied Aeronautics"; and William Andrew Voelkle, 18, Sam Houston Sr. H.S., Houston, Texas, for "Advanced Space Propulsion—The Ion Electrostatic Thrustor." Each of the six winners will name a teacher to accompany him on the trip.

THE NATIONAL COMMITTEE FOR CAREERS IN MEDICAL TECHNOLOGY gave a first award of a certificate and a summer job with the American Registry of Pathology at the Armed Forces Institute of Pathology in Washington, D.C., plus travel expenses and a subscription to Laboratory Investigation to Margaret Janssen, 18, Henrietta Sr. H.S., Henrietta, Texas, for "Zone Electrophoresis—Relationship of Physical Variables to Rate of Migration." Citations were given to the winners of the Second Award: Yvonne Classen, 17, Wichita H.S. South, Wichita, Kans., for "Effects of Aldosterone on the Active Transport of NaCl Across Frog Skin Membranes." Sandra Edfort, 17, Central Catholic H.S., Kingston, Pa., for "Immunological Study of Gamma-Globulin and Haptoglobin in Mongoloids"; an honorable mention was received by Doris Lynn Karon, 17, Bullard H.S., Fresno, Calif., for "Dissociation of Staphylococcus Bacteria in Tetracycline Environment."

THE NATIONAL PEST CONTROL ASSOCIATION gave a certificate and \$100 for science materials and experimentation in biology to Daniel Charles Kurtak, 17, Bishop Union H.S., Bishop, Calif., for "Mammalian Hormones and Insect Metamorphosis."

THE OPTICAL SOCIETY OF AMERICA presented a first award of \$100 for materials, equipment or books to Victor Micheal Martin, 18, Jacksonville H.S., Jacksonville, Ala., for "Practicalities of Optical Microwave Communication and Telemetry." The second award of \$75 went to Joel H. Breger, 17, Northwood H.S., Silver Spring, Md., for "Design and Characteristics of a Miniature Supersonic Wind Tunnel." Honorable Mentions were awarded to: Bryan Grummon, 17, Dawson County H.S., Glendive, Mont., for "Ultra-Sonic Pulsed Laser"; Thomas J. Hysong, 16, Woodward School for Boys, Washington, D.C., for "Graphic Analysis of Moire Patterns"; and Richard Earle Osgood, Jr., 17, Edmonds Sr. H.S., Edmonds, Wash., for "Infrared Spectrum of Softwood Needle Lignin."

THE SOCIETY OF WOMEN ENGINEERS presented a \$100 U.S. Savings Bond to Mary Doris Ruggere, 15, Central Catholic H.S., Kingston, Pa., for "Moebius Engine."

THE SOCIETY OF WOMEN ENGINEERS, ST. LOUIS SECTION, gave a \$25 U.S. Savings Bond to Ann Marie Bigelow, 17, Galion Sr. H.S., Galion, Ohio, for "Development of an Experimental Vibrating-Reed Anemometer."

THE U.S. ATOMIC ENERGY COMMISSION gave certificates and trips to Argonne National Laboratory to Patricia Anderson, 18, Los Alamos H.S., Los Alamos, N. Mex., for "X-Ray Induced Chromosome Breakage"; Frederick R. Aronson, 19, Pascack Valley H.S., Hillsdale, N.J., for "Genetic Changes in Behavior Produced by Low Levels of X-Irradiation in Mice"; George Stuart Beal, 17, Aldershot H.S., Burlington, Ontario, Canada, for "Electron Spin Resonance and the Xenon Fluorides"; Alan Curtis Huber, 17, Benjamin Bosse H.S., Evansville, Ind., for "Spark Chamber with System for Photographic Recording of Cosmic Ray Tracks"; John Forbes Hutchinson, 18, William Penn Charter School, Philadelphia, Pa., for "A 90° Mass Spectrometer"; Charles William Jernigan, 18, Leon H.S., Tallahassee, Fla., for "Plant Responses to Unipolar Air"; Frederick Otto Nietzel, 17, Dyer Central H.S., Dyer, Ind., for "Construction of Plasma Acceleration and Confinement Unit"; Kennon Richard Strauss, 18, C. E. Byrd H.S., Shreveport, La., for "Low Frequency Electron Paramagnetic Resonance Spectroscopy"; Herbert Alonzo Terry, 16, Will C. Crawford H.S., San Diego, Calif., for "Can Short Wave Ultraviolet Radiation Induce Mutations?"; and Randy B. Wright, 17, Highland H.S., Salt Lake City, Utah, for "Effect of Radiation on the Growth and Structure of Crystals, and X-Ray Diffractions." Each winner will designate a teacher who also will be honored with an expenses-paid trip. Alternates were Ronald William Bailey, 16, Evans County H.S., Claxton, Ga.; Carmen Yolanda Bonta, 16, Mother Cabrini H.S., New York, N.Y.; Carla B. DeBord, 17, Rich Valley H.S., Saltville, Va.; Eva Griffeth, 18, Fort Knox H.S., Fort Knox, Ky.; Jacqueline Joy Jerome, 17, Murphy H.S., Mobile, Ala.; Anthony J. Lee, Jr., Notre Dame H.S., Trenton, N. J.; Thomas M. McGahee, 18, Central Catholic H.S., Melbourne, Fla.; Darrell Addison Posey, 18, Henderson County H.S., Henderson, Ky.; Eileen M. Rodell, 17, Littleton H.S., Littleton, Colo.;

and John Stephen Sabol, Jr., 18, Central Catholic H.S., Lafayette, Ind.

THE U.S. PATENT OFFICE awarded certificates and \$75 U.S. Savings Bonds to winners in five categories: Mechanical Engineering—John F. Rollins, 17, Eisenhower H.S., Lawton, Okla., for "Design and Use of a Wind Tunnel in Applied Aeronautics"; Electrical Engineering—Charles Lynn Whittington, 18, Culberson County Rural H.S., Van Horn, Texas, for "Radar—Radio Detection and Ranging Using VHF Techniques"; Chemistry—Kathleen M. Thomas, 18, Cass Technical H.S., Detroit, Mich., for "Investigation and Applications of Diazo Coupling Reactions"; Design or Dramatic Value—Darrell A. Posey, 18, Henderson Co. H.S., Henderson, Ky., for "Photoflash: Insect Enemy Control Without Chemicals"; Medicine—Arthur Frankel, 17, Stephen F. Austin H.S., Austin, Texas, for "Sodium-Amino Acid Linked Transport."

THE U.S. ARMY awarded a certificate and week's trip to an Army research facility to: Frederick R. Aronson, 19, Pascack Valley H.S., Hillsdale, N.J., for "Genetic Changes in Behavior Produced by Low Levels of X-Irradiation in Mice"; George S. Beal, 17, Aldershot H.S., Burlington, Ontario, Canada, for "Electron Spin Resonance and the Xenon Fluorides"; Barbara Ann Bennett, 18, Garfield H.S., Terre Haute, Ind., for "Mushroom Production by Tissue Culture and Fermentation—Related Nutritional Studies"; Curtis Bryant, 15, LeMars Community H.S., LeMars, Iowa, for "Studying the Solar Atmosphere"; Ruth F. Conner, 18, Melbourne H.S., Melbourne, Fla., for "Genetic Regulation in Development"; Vernon M. Cottles, 17, St. Augustine H.S., New Orleans, La., for "Properties of Gaseous Alkanes as Carrier Gases in Chromatography"; Francis O. Dudas, 15, Anaconda Central H.S., Anaconda, Mont., for "Plant Sociological Studies of Forster Creek Area, Montana"; Noel Dunivant, Jr., 17, White-

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GENERAL SCIENCE

K.C. Museum Room Shows Science Projects

► SCIENCE FAIR PROJECTS will be displayed the year around in a new room added to the Kansas City, Mo., Museum.

This Science Pioneer display, which can accommodate 22 exhibits, is planned to show exhibits of young scientists of the Kansas City area who have won honors in the local fair and the International Science Fair held annually. It was financed by the Bacchus Ball Cultural and Educational Foundation.

The new room was received for the Museum by Searcy Ridge, president, on the day of the return of Kansas City winners from the national fair, held in St. Louis.

The presentation of the room was made by William W. Groner, representing the Bacchus Foundation, and Donald Roedl, son of the director of the K.C. fair, representing the Science Pioneers, who sponsor the local science fair.

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