

# NEWS and Notes

The winners of the Seventh Annual Science Talent Search were announced at a banquet given in their honor on March 2 at the Statler Hotel, Washington, D. C. The boy and girl receiving grand prize scholarships of \$2,400 are pictured on this week's cover being congratulated by W. W. Waymack, of the U. S. Atomic Energy Commission, who was the speaker on this occasion. In competition for the awards, Barbara Claire Wolff (*left*), of the Forest Hills High School, New York, had presented the results of her experiments in producing phenocopies in fruitflies, and Andrew Steven Kende (*center*), of Evanston Township High School, Illinois, had described his research leading to the preparation of less flammable Grignard reagents. Alternates selected for these awards were Laura Caroline Maurer, of the South Side High School, Rockville Centre, New York, and Kurt William Kohn, of the Bronx High School of Science, New York City.

The 40 high school students brought to Washington, D. C., to participate in the Seventh Annual Science Talent Institute from February 27 to March 2 were selected by judges from 16,421 contestants, 3,161 of whom completed entries by taking a science aptitude examination, obtaining recommendations, and writing an essay on "My Scientific Project." Entries were received from every state. During their five-day visit the national winners made trips to local institutions and laboratories and heard talks on various aspects of science by distinguished scientists. The scholarship awards were based on the recommendation of the judges' panel consisting of Harlow Shapley, Rex E. Buxton, psychiatrist, and Harold E. Edgerton and Stuart Henderson Britt, psychologists.

The national winners receiving \$400 science scholarships were: Laura Caroline Maurer; Igor Alexeff, Mt. Lebanon High School, Pittsburgh; Gene Allen Baraff, Forest Hills High School, New York; Gerald Leonard Howett, Abraham Lincoln High School, Brooklyn; Alan Robert Johnston, Van Nuys High School, California; Kurt William Kohn; Alan Richard LeSchack and Gerhard Rayna, both of the Stuyvesant High School, New York City; R. Daniel Rigal, Liberty Center Village High School, Ohio; and David Andrew Yphantis, Public Latin School, Boston. Alternates were Stanley Harris Zisk, Public Latin School, Boston; David Melville Geller, Oak Park Township High School, Illinois; and Lawrence Joseph Schaad, Logan High School, Ohio. The 28 participants not listed above received \$100 science scholarships.

The Science Talent Search is conducted each year under the sponsorship of the Science Clubs of America through funds provided by the Westinghouse Educational Foundation.

## About People

**George E. Raynor**, professor of mathematics at Lehigh University, will become head of the department July 1. Dr. Raynor will succeed **Joseph B. Reynolds**, who will retire June 30 after 41 years of service.

**Allan G. Newhall**, professor of plant pathology, Cornell University, will soon complete a sabbatical leave of 6 months at the Inter-American Institute of Agricultural Sciences, Turrialba, Costa Rica, where he is carrying on research on cacao diseases.

**John T. Rettaliata**, director of the Department of Mechanical Engineering at Illinois Institute of Technology, will become dean of engineering next September 1. Dr. Rettaliata will fill the position vacated by **James C. Peebles**, who retires in August.

**Sol Pincus**, formerly sanitary engineer with the U. S. Public Health Service and more recently deputy commissioner and senior sanitary engineer with the New York City Department of Health, has opened offices

for the practice of sanitary engineering and for public health investigations and reports at 11 Park Place, New York 7, New York.

**Jacob B. Biale**, assistant professor of subtropical horticulture, University of California, Los Angeles, has been granted a six-month leave of absence to study recent European developments in problems of plant and animal respiration. Dr. Biale has received invitations to visit the biochemistry laboratory at Sheffield University and the low-temperature research station at Cambridge, England, the Biochemistry Institute in Stockholm, and the Weizmann Institute of Science at Rehovoth, Palestine.

**Leo R. Tehon**, head of the Section of Applied Botany and Plant Pathology, Illinois State Natural History Survey, has been appointed professor of plant pathology in the Graduate College, University of Illinois. Dr. Tehon will continue, however, in his present position with the Survey.

## Colleges and Universities

The First Louis Slotin Memorial Lecture was given at the University of Chicago today by S. E. Luria, associate professor of bacteriology at Indiana University. The subject was "Radiobiological Studies on Viruses." This lectureship has been provided by friends of the late Dr. Slotin, University of Chicago physicist, who lost his life while working at Los Alamos.

Pennsylvania State College has established a Department of Chemical Engineering, with D. S. Cryder acting as its head.

The new low-temperature laboratory at Rutgers University is to have as part of its equipment a 6-ton electromagnet just completed by General Electric. The huge device is 56" long, 39" wide, and 20" high. The two coils are 36" in diameter. Main body of the instrument, made of iron, weighs 10,000 pounds, and the copper-wire coils weigh 1,000 pounds each. In spite of its size, the electromagnet is precision built, pole faces deviating from being perfectly parallel by only one-sixth the thickness of

an average sheet of paper. Although not designed for lifting purposes, the magnetic force is equivalent to about 40,000 pounds. The electromagnet will be used at Rutgers in experiments requiring generation of extremely strong magnetic fields over large areas. The instrument should provide a means for reaching temperatures in the range of absolute zero. It will also be used to study magnetic susceptibility at low temperatures as well as to investigate nuclear magnetic properties of isotopes.

**New York University-Bellevue Medical Center** is currently presenting a series of weekly broadcasts—The Doctors' Round Table—devoted to discussions of current health topics by medical leaders. These broadcasts are carried over the facilities of station WMCA from 9:45 to 10:00 P.M. On March 17 and 24 the discussions will deal with "Atomic Medicine," with R. Keith Cannan, chairman of the Department of Chemistry, New York University College of Medicine, and guests from scientific organizations working with atomic energy participating. Announcements of future broadcasts will be made as received.

**The Faculty of Medicine, Harvard University**, announces that three lectures on "Aspects of Microbial Physiology," under the Edward K. Dunham Lectureship for the Promotion of the Medical Sciences, will be presented on March 22, 24, and 26 at 5:00 P.M. at the Harvard Medical School Amphitheater, Building E. André Lwoff, head of the Department of Microbial Physiology, Institut Pasteur, Paris, will deliver the lectures.

## Summer Programs

A geology field session will be conducted by the Department of Geology, University of New Mexico, from June 12 to August 7. The session will be held at La Madera Ski Area, in the Sandia Mountains, 29 miles east of Albuquerque, at an elevation of 8,600'. The camp's four dormitories accommodate 64 students (men and women). Hot showers, sanitary

plumbing, and electric lights add to the comfort of the camp. The central lodge serves as class-room, study hall, and recreation room.

Courses in elementary and advanced field geology, structural geology, geomorphology, and field problems will be offered.

The geology of the area is varied. The Sandia Mountains are a classical example of a tilted fault-block of the Basin and Range type. The area affords an excellent opportunity to study igneous, sedimentary, and metamorphic rocks ranging in age from pre-Cambrian to Recent. The igneous rocks consist of a pre-Cambrian granite batholith, early Tertiary monzonite sills and laccoliths, and later latite and andesite dikes. There is a nearly complete sedimentary section consisting of marine and continental sediments and ranging from Pennsylvanian to Pliocene in age in the area. The pre-Cambrian terrane also consists of regionally metamorphosed schist, gneiss, quartzite, and greenstone. Thermally metamorphosed limestones border the early Tertiary laccoliths and sills. A wide variety of fold and fault structures exists in the area. Mineral deposits consist of copper, gold, lead, zinc, fluor spar, barite, turquoise, and coal.

The teaching faculty will be Vincent C. Kelley, Carl W. Beck, and Sherman A. Wengerd, all of the Department of Geology.

Further information and applications may be obtained from Prof. Beck.

**The Mt. Desert Island Biological Laboratory's summer program**, as previously announced (*Science*, February 6, p. 137), referred to the Tissue Culture Program, to be directed by Philip R. White, Institute for Cancer Research, Girard and Corinthian Avenues, Philadelphia 30.

Dr. White has informed us that the laboratory will accommodate about 10 investigators with research problems in the field of aseptic cultivation of tissues, organs, and embryos of plants and animals. Preference will be given to projects utilizing local organisms, and only applicants qualified to carry on independent research will be accepted. The laboratory fee will be

\$100 per person for any part of the season (June 15–September 15). Applications should be sent immediately to Dr. White.

## Industrial Laboratories

**Gustavus J. Esselen**, president of the Esselen Research Corporation, Boston, last month received the first James F. Norris award at the 50th anniversary dinner of the Northeastern Section of the American Chemical Society. The annual award, in memory of the late Prof. Norris, of Massachusetts Institute of Technology, was presented to Dr. Esselen for his contributions to the advancement of the Section.

**Weather scientists at General Electric's Research Laboratory** have developed an instrument that records the geometric shapes, sizes, and frequency of occurrence of snow crystals falling during a storm. When used along with other devices, the snow-crystal recorder is helping to determine how a snowstorm affects brightness of sky and flow of electric current from the atmosphere to the ground. The automatically operated instrument is set up in an exposed position, the flakes being allowed to fall on a 6" by 4" area of special paper coated with water-soluble dye for one minute at 15-minute intervals. Because of a small amount of heat applied under the paper, the flakes melt at once, leaving dark blue impressions. Thus, a biography of a storm is "written." The instrument was developed by Vincent J. Schaefer, Raymond E. Falconer, and William Kearsley, in connection with the program on fundamental weather research being conducted by G-E for the U. S. Army Signal Corps and ONR.

**Wilbur A. Lazier**, director of the Southern Research Institute for the past three and one-half years, will become director of Chemical Research for Chas. Pfizer & Co., Inc., of Brooklyn, New York, on April 1, 1948. During his professional career, Dr. Lazier has been associated principally with the synthetic organic chemical industries.

## Meetings

The largest radio engineering show in history will be held in conjunction with the 1948 annual convention of the Institute of Radio Engineers, March 22-25, at the Hotel Commodore and Grand Central Palace, in New York City. Theme of both convention and show is "Radio-Electronic Frontiers." A total of 130 papers will be presented in the 26 sessions which have been arranged. These sessions will cover such topics as Frequency Modulation, Systems, Navigation Aids, Antennas for Circular Polarization, Amplifiers, Passive Circuits, Tube Design and Engineering, Super-regeneration, Transmission, Nuclear Studies, Industrial Applications and Electronic Circuits, Components and Supersonics, Television, Tube Manufacture, Measurements, Computers, Broadcasting and Recording, Propagation, Microwaves, Receivers, and Active Circuits. In addition, there will be two special symposia on "Nucleonics" and "Advances Significant to Electronics."

The New York Section of the International Association for Dental Research will meet at the Guggenheim Dental Clinic, 422 East 72nd Street, New York City, on April 29 at 8:30 P.M. Information regarding the program may be obtained from Isaac Neuwirth, Secretary, College of Dentistry, New York University, 209 East 23rd Street, New York 10.

The American Association on Mental Deficiency is holding its 1948 annual meeting at the Copley-Plaza Hotel in Boston, May 18-22. The meeting commemorates the 100th anniversary of the first school for mental defectives in this country.

The International Society of Hematology will hold its biannual meeting at the Hotel Statler, Buffalo, New York, August 23-26, 1948. Half-days have been tentatively allotted for general subjects, including radio-active and stable isotopes in hematology; for problems and diseases related to the red cells; for problems and diseases related to the white cells; for coagulation problems and hemor-

rhagic diseases; and for the business meeting. One day will be devoted to immunohematology, Rh-Hr (CDE-cde) antigens and antibodies, and hemolytic anemias.

Scientific exhibits will be presented in the south wing of the Statler's 17th floor. Applications for the presentation of such exhibits are now being received by O. P. Jones, Department of Anatomy, University of Buffalo, Buffalo, New York. Chairman of the Program Committee is Ernest Witebsky, Buffalo General Hospital, Buffalo, New York.

Eduardo Uribe Guerola, Leibnitz #212, Nueva Colonia Anzures, Mexico, D.F., and Sir Lionel Whitby, University of Cambridge, Cambridge, England, are in charge of arrangements for the programs from South and Central America and Europe, respectively. Communications concerning applications for the program will be received by the above-named committeemen.

All scientific sessions and exhibits will be open to scientists interested in hematology. This will, of course, include members of the medical profession and those branches of science dealing with hematology, such as biochemistry, biophysics, genetics, immunology, etc.

Communications and applications concerning membership will be received by the following members of the Membership Committee: William Dameshek (chairman), 25 Bennett Street, Boston, Massachusetts, for U.S.A.; M. Bessis, Laboratoire de Recherches du Centre National de Transfusion Sanguine, 53, Boulevard Diderot, Paris, France; Robert R. Race, Lister Institute, Chelsea Bridge Road, London, S.W. 1, England; Ludwik Hirszfeld, Institute of Medical and Microbiological Science, Wroclaw, Poland; Ignacio Gonzales Guzman, University of Mexico, College of Medicine, Mexico, D.F.; Walter Cruz, Instituto Oswaldo Cruz, Caixa Postal 926, Rio de Janeiro, Brazil; Alfredo Pavlovsky, Ancherena 1710, Buenos Aires, Argentina; Theodore Waugh, McGill University, Montreal, Quebec; Berger Broman, Royal Caroline Medical School, Stockholm, Sweden; C. R. Das Gupta, Calcutta School of Tropical Medicine, Calcutta, India; Luis Sandoval S., Instituto de

Histologia de la Universidad de Concepcion, Santiago, Chile; Rod Sirivejkul, Army Medical Department, Bangkok, Siam; Carl Rohr, Medizinischen Universitätsklinik, Zurich, Switzerland; Moises Chediak, Laboratories Chediak, 23 #654 Esq. A., Banos Vedado, Havana, Cuba; G. di Guglielmo, Director of Medical Clinics, University of Naples, Policlinico, Naples, Italy; and Henrik Dam, Danmarks Tekniske Højskole, Biologisk Afdeling, Ostervolgade 10, Trappe L, Copenhagen, Denmark.

Those interested in attending the meetings may communicate with Sol Haberman, Secretary, The William Buchanan Blood Center, Baylor Hospital, Dallas, Texas.

American geologists who wish to attend the International Geological Congress in Great Britain, August 25-September 1, and who have had difficulties in obtaining passage by ship will be pleased to know that the general secretary of the Congress has been assured by both Cook's Tours and Cunard White Star that everything possible will be done to accommodate members of the Congress. Even though an applicant is not assured of a specific sailing date at the time of application, there is no doubt that he will eventually be provided with a berth at about the time specified. In addition to shipping difficulties, some prospective Congress members may feel that they should not partake of the reportedly meager food supplies in England. Those planning the Congress have done everything possible to provide for the comfort and feeding of Congress members and indicate that conditions are less rigorous than reports abroad may suggest. Special local hospitality is also planned for the excursion parties by civic authorities, industrial firms, and other groups. It is emphasized that the success of the Congress will depend in large measure upon the presence of the approximately 500 U. S. and Canadian members (and relatives) who provisionally registered in response to the Third Circular.

The Botanical Society of America, Inc., will hold its annual meeting and program in Washington, D. C., over

the weekend preceding the Centennial Celebration of the AAAS, which will be held September 13-17. The exact dates of the Society's meetings have not been definitely settled, but it is probable that they will run from September 10 to 13, inclusive. Joint sessions with the Mycological Society of America, American Society of Plant Taxonomists, Genetics Society of America, and the Ecological Society of America are being planned as in previous years.

Complete details of this meeting will be sent to members of the Society later in the spring. Members who desire to present papers at this meeting are requested to bear in mind that the *deadline for titles and abstracts of papers is July 15*.

The last annual meeting of the Society was held December 26-30 in Chicago. Officers for the present year are: Henry A. Gleason, New York Botanical Garden, president; Adriance S. Foster, University of California, vice-president; Ralph B. Cleland, Indiana University, new member of Editorial Board; John S. Karling, Columbia University, secretary; Truman G. Yuncker, DePauw University, treasurer; and Ronald Bamford, University of Maryland, business manager. At the December meeting the Society elected four foreign botanists as Corresponding Members: Harald Kylin, Lund University, Sweden; C. D. Darlington, director of the John Innes Horticultural Institution, Merton, London; Birbal Sahni, University of Lucknow, India; and Rene Vandendries, L'Athenée Royale, Belgium.

## NRC News

John S. Nicholas, director of the Osborn Zoological Laboratory and Sterling professor of biology at Yale University, has been appointed chairman of the Council's Division of Biology and Agriculture.

An American Institute of Biological Sciences was formally established on Friday, February 20. The rapid advance of the biological sciences and their impact on human welfare have created new problems relating to the development and applica-

tion of those sciences. During recent years many biologists have recognized that the biological sciences have suffered from the lack of a service organization which would enable the various biological societies to discharge more effectively those functions which are of common concern to all but which individual societies cannot exercise adequately. The new Institute is designed to fill this need and to serve in other ways.

Recognizing the potential importance of the new undertaking for the advancement of the biological sciences and, through them, for all biologists, the NRC has endorsed the program and agreed to make its general services available. As a part of the NRC, the Institute will, in addition, provide biologists with an agency through which they can maintain close relations with government activities and with other fields of science represented within NRC. The announcement stresses, however, that affiliation with NRC will preclude any lobbying activities on the part of the Institute.

Twelve societies and the NRC named directors to the Governing Board, as follows: American Physiological Society, W. O. Fenn; American Society for Horticultural Science, F. P. Cullinan; American Society of Parasitologists, W. W. Cort; American Society of Plant Physiologists, F. W. Went; American Society of Zoologists, C. W. Metz; Botanical Society of America, R. E. Cleland; Genetics Society of America, P. C. Mangelsdorf; Limnological Society of America, Charles Mottley; Mycological Society of America, F. D. Kern; Poultry Science Association, T. C. Byerly; Society for the Study of Development and Growth, B. H. Willier; Society of American Bacteriologists, L. W. Parr; and NRC, E. G. Butler, R. F. Griggs, H. B. Steinbach, and Paul Weiss.

Other societies considering joining the Institute appointed observers: American Association of Anatomists, R. L. Zwemer; American Association of Economic Entomologists, B. A. Porter; American Genetics Association, R. C. Cook; American Phytopathological Society, J. C. Walker; American Society of Animal Production, R. W. Phillips; American So-

cietiy of Biological Chemists, Dean Burk; American Society of Ichthyologists and Herpetologists, K. P. Schmidt; American Society of Mammalogists, Remington Kellogg; Ecological Society of America, W. A. Dayton; National Association of Biology Teachers, Oscar Riddle; Society of American Foresters, Henry Clepper; The Wildlife Society, L. J. Bennett.

The Governing Board elected the following officers and Executive Committee: R. E. Cleland, Indiana University, chairman; E. G. Butler, Princeton University, vice-chairman; W. O. Fenn, Rochester, New York, member for three years; T. C. Byerly, Bureau of Animal Industry, USDA, member for two years; and F. P. Cullinan, Bureau of Plant Industry, USDA, member for one year. Ex-officio members are D. W. Bronk, chairman of NRC, and J. S. Nicholas, chairman of the Division of Biology and Agriculture.

## Deaths

Raphael Eduard Liesegang, 78, died in Bad Homburg, v.d.H., Germany (American Zone), on November 13, 1947. Dr. Liesegang who was a scientific member of the Kaiser-Wilhelm-Institut für Biophysik and director of the Institut für Kolloidforschung at Frankfurt, is known for his discovery of periodic precipitation in gels.

Gerald B. Webb, 76, president of the Colorado Foundation for Research in Tuberculosis at Colorado College, died January 27 in Colorado Springs.

William R. Maxon, 70, former curator of the National Herbarium of the Smithsonian Institution and former editor-in-chief of the *American Fern Journal*, died February 27 in Terra Ceia, Florida.

Edward A. Balloch, 91, dean emeritus of the Howard University Medical School, died March 2 in Washington, D. C.

A. A. Brill, 73, former president of the American Psychoanalytic Association and lecturer at Columbia University, died March 2 in New York City. Many works of Sigmund Freud, under

whom he had studied, as well as of Carl Jung, were first translated into English by Dr. Brill.

**Illo Hein**, 54, former professor of botany at Pennsylvania State College and more recently cytologist in the U. S. Department of Agriculture, died March 4 in New York City.

**Rollin Chamberlin**, 66, professor emeritus of geology at the University of Chicago and former editor of the *Journal of Geology*, died March 6 following a heart attack.

**A Radio and Electrical Engineering Division**, staffed by 231 persons, has recently been established by the National Research Council of Canada. B. G. Ballard, who has been in charge of the electrical engineering laboratory since his appointment to the staff in 1930, heads the new Division, creation of which was made necessary by the great expansion of research activities in electronics and electrical engineering. The announcement indicates that the Division represents a consolidation of work formerly carried on in the Division of Physics and Electrical Engineering. Mr. Ballard, a past chairman of the Ottawa Section, American Institute of Electrical Engineers, received the Order of the British Empire in 1946 for his contributions to the development of mine sweepers for enemy magnetic mines and the protection of ships against such mines.

The Hayden Planetarium will feature during March a new show entitled "Radar, Meteors, and Comets." Visitors to the planetarium will be able to see Comet 1947N, which appeared below the equator last winter, as well as the daily progress of the Bester Comet, which is at present heading northward and increasing in brightness. The history of Halley's Comet will also be reviewed, since the earth will probably coincide with its orbit next May 4 and October 20. Included in the show will be a demonstration of the association between meteors and comets and the technique of charting meteors by radar.

One of the largest existing collections of prehistoric animal skeletons has been donated by the University of Chicago to the Chicago Natural History Museum. The collection is said to contain about 8,000 fossil specimens collected over the past 50 years and valued in excess of \$100,000. It is primarily representative of North American late Pennsylvanian and Permian amphibians and reptiles and South African Permian and Triassic faunas. The Museum's own large paleontological collection embraces the Cenozoic and later Mesozoic. When combined, therefore, the two collections will provide a rounded-out collection which will rank among the best in the world.

The Air University School of Aviation Medicine, Randolph Field, Texas, has been allotted one of the limited number of special research positions recently authorized by Congress to attract outstanding scientists to service laboratories. This is the first of a series of actions by the Air Force designed to create an Air Force Aeromedical Center. It is the intention of the School of Aviation Medicine to utilize the new allocation, which carries with it a salary of \$10,000-\$15,000 per annum, to establish a civilian position-vacancy for a director of research. Inquiries concerning this vacancy should be addressed to the Commandant.

Copies of 98 declassified British atomic energy papers are now available in microfilm or photostat form, according to an announcement from John C. Green, director, Office of Technical Services, Department of Commerce. Abstracts of the papers have been published in the February 6, 1948, issue of the *Bibliography of Scientific and Industrial Reports* (Vol. 8, No. 6). The price, order number, author, and title of each report is included in the abstract. It is expected that 25 additional papers will be available in the near future, and abstracts of these will be published in the *Bibliography* as received. Copies of the February 6 issue may be obtained from the Government Printing Office, Washington 25, D. C., for \$25. Subscrip-

tions to the *Bibliography* at \$10.00 per year may be placed with the Superintendent of Documents, Washington 25, D. C. Orders for the documents should be addressed to the Office of Technical Services, Department of Commerce, Washington 25, D. C., and should be accompanied by check or money order payable to the Treasurer of the United States.

## Make Plans for—

**Institute of Radio Engineers**, March 22-25, 1 East 79th Street, New York City.

**Midwest Power Conference**, 10th annual, April 7-9, sponsored by Illinois Institute of Technology, Sheraton Hotel, Chicago, Illinois.

**Institute of Mathematical Statistics**, April 14-15, New York City.

**Electrochemical Society**, spring meeting, April 14-17, Deshler-Wallick Hotel, Columbus, Ohio.

**American College of Physicians**, 29th annual session, April 19-23, San Francisco, California.

**Society for the Advancement of Education, Inc.**, April 24, 15 Amsterdam Avenue, New York City.

**American Institute of Chemists**, annual meeting, May 7 (changed from May 8), New York City.

**Fourth International Congresses on Tropical Medicine and Malaria**, May 10-18, Washington, D. C.

**Third Interamerican Cardiological Congress**, June 13-17, Michael Reese Hospital, Chicago, Illinois.

**First International Poliomyelitis Conference**, July 12-17, Waldorf-Astoria Hotel, New York City.

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**AAAS**  
**Centennial Celebration**  
Washington, D. C.  
September 13-17, 1948  
★ ————— ★