NEWS and Notes

Henry Norris Russell, retired research professor of astronomy and director, Princeton University Observatory, has been appointed research associate of the Harvard College Observatory.

Linus Pauling, chairman, Chemistry and Chemical Engineering Division, California Institute of Technology, has recently returned from England, where he received honorary D. Sc. degrees from Cambridge University and the University of London, and participated in the International Congress of Pure and Applied Chemistry. Dr. Pauling will return to drated Food Company, Yakima, Wash-England in December as Eastman professor at Oxford University. The Eastman professorship is awarded periodically to outstanding American scholars and scientists.

William S. Wilson, head, Department of Physical Sciences, Georgetown College, Georgetown, Kentucky, has been appointed professor of chemistry and head, Department of Chemistry, University of Alaska, College, Alaska,

Barry G. King, formerly assistant professor of physiology, College of Physicians and Surgeons, Columbia University. and during the war, head, Aviation Facility, Naval Medical Research Institute, has been appointed chief, Division of Aeromedical Design and Materiel, Medical Service, Civil Aeronautics Administration.

William H. W. Komp, sanitary engineer director, U.S. Public Health Service, and consultant in malariology to the Division of Health and Sanitation, Institute of Inter-American Affairs, is being transferred from the Panama Canal Zone to the new Division of Tropical Diseases, National Institute of Health, Bethesda, Maryland.

George E. Large, Department of Civil Engineering, Ohio State University, has Vertebrate Biology, University Clyde T. Morris, who retires this sum- study of arctic butterflies in Northern

director, Medical Nutrition Laboratory, Institute of North America. Office of the Surgeon General, has been appointed chief, Nutrition Branch, Quartermaster Food and Container Institute for the Armed Forces, Chicago.

Frederick S. Nowlan, of the University of British Columbia, Vancouver, has been named visiting professor of mathematics in the Chicago Undergraduate Division of the University of Illinois on Navy Pier.

Harry F. Herbrandson, fellow, Harvard University, has been appointed assistant professor of chemistry, Union College, Schenectady, New York.

Harvey L. Lantz, president of the Iowa State Horticultural Society and on the pomology staff of Iowa State College since 1918, has been appointed head of the pomology subsection of the Iowa partment of Biology, Morehouse College, Agricultural Experiment Station.

Ira D. Cardiff, Washington Dehyington, received the honorary D. Sc. degree from Knox College at its recent commencement.

W. Storrs Cole, professor of geology, Cornell University, has been appointed chairman, Department of Geology.

Charles A. Fowler, Jr., assistant professor of physics, University of California, Berkeley, has been named associate professor of physics on the Seeley W. Mudd Foundation and head, Department of Physics, Pomona College.

Genetics Experiment Station, who has Ste. Adele, Quebec, September 8-13. been a corresponding member of the One award of \$5,000 will be made for French Academy of Sciences since 1935, outstanding recent research in each of has received notice of a decree of the the fields of endocrine interest: animal French Republic signed by Premier experimentation, hormone chemistry, and Paul Ramadier approving his election as an "Associé étrange" of the Académie des Sciences and the Institut de France. of Edwin B. Astwood, Thomas F. Dr. Blakeslee is the representative of Gallagher, Roy G. Hoskins, Allan T. botany among the foreign associates, whose number is limited to 12. He takes the place of the late Simon Flexner, who was director, Rockefeller Institute for Medical Research.

William Hovanitz, Laboratory of of been appointed chairman of that Depart- Michigan, has returned to Ann Arbor ment, effective October 1, succeeding after spending six weeks on a population

George Hugh Berryman, formerly under the sponsorship of the Arctic

Sidney Kaye, toxicologist, St. Louis Police Department, Missouri, has been appointed toxicologist to the Chief Medical Examiner for the Commonwealth of Virginia, Richmond.

Grote Reber, radio engineer on military radar and communication equipment, Stewart-Warner and Belmont Radio Corporations, has been appointed to the staff, National Bureau of Standards, to investigate cosmic and solar radio noise and to supervise the erection of a German Giant Wurzburg, an extremely large and powerful radar device, to be used to detect solar and cosmic radiation penetrating the earth's atmosphere.

Harold E. Finley, chairman, De-Atlanta, Georgia, has been appointed professor of zoology and head, Department of Zoology, Howard University, Washington, D. C.

H. P. Robertson, Princeton University, will be located at the Norman Bridge Laboratory of Physics, California Institute of Technology, as professor of mathematical physics as of September 15.

Grants and Awards

The Laurentian Hormone Conference has received from the Roche-Organon Company of Nutley, New Jersey, a gift of \$15,000 to establish three awards in endocrinology. These will Albert F. Blakeslee, Smith College be assigned for 1947 at the Conference at clinical endocrinology.

> The Committee on Awards consists Kenyon, Robert L. Noble, and Abraham White.

> The Agricultural and Mechanical College of Texas has received a grant of \$6,000 from the Research Corporation for the purchase of the Tiselius Adsorption Apparatus and the support of work on lipids by Ralph T. Holman, Department of Biochemistry and Nutrition.

Sidney P. Colowick, Public Health mer after 41 years of service at Ohio State. Alberta and the Northwest Territories Research Institute of the City of New York, will receive the \$1,000 Eli Lilly and vations to Dr. Herget, whose new duties on Major Problems in the Tectonophysics Company Award in Biological Chemistry at the 112th national meeting of the American Chemical Society, to be held in New York City September 15-19. in recognition of his contributions to the knowledge of enzymes. Presentation of the award will be made at a general assembly of the Society Monday evening, September 15. Dr. Colowick's award address on "Hexokinase and Phosphofructokinase" will be delivered at a symposium on "Studies on Enzymes." to be conducted by the Society's Division of Biological Chemistry, September 17.

Colleges and Universities

Harvard University's 11-inch Draper refractor telescope will be shipped to Sun Yatsen University Observatory, Canton, China, on a long-term loan, according to an announcement by Harlow Shapley, director of the Harvard College Observatory. The Chinese residents of Greater Boston have provided the funds for dismantling and shipment to the Chinese observatory, probably the only Chinese institution offering courses in astronomy at this time. Used in the discovery of the first spectroscopic binaries, the Draper telescope is equipped with a correcting lens, has a focal length of 153 inches, and gives photographs having a scale of 53 seconds/millimeter. Built originally for the Lisbon Observatory, Portugal, the telescope was acquired in 1880 by Dr. Henry Draper, who made the first photograph of the Orion nebula while it was in his observatory at Hastings-on-Hudson, New York. In 1886, his widow donated it to Harvard University. where it has been in continuous service ever since.

servatory has been designated by the next year. Demonstrations of modern International Astronomical Union as the international clearinghouse and publishing center for data pertaining to asteroids. The work will be under the direction of Paul Herget, director of the Observatory and professor of astronomy. Dirk Brouwer, director, Yale University Observatory, and chairman, I.A.U. Commission

cover work formerly carried on in Berlin. of the New England Area, under the

The Ohio State University is assembling a classification system for more than 11,000 welding patents now in the Davis Welding Library. W. H. Simon, University of Toronto, is in charge of the project, which is being financed by the A. F. David Welding Engineering Scholarship and Library Fund. The new classification will enable industries, students, and research workers to obtain more readily information on all patents granted in their specific lines.

The Department of Physics. Rutgers University, has installed a helium liquefier capable of producing temperatures as low as -458° F. The liquefier, a Collins Helium Cryostat, designed by Samuel C. Collins, professor of mechanical engineering, Massachusetts Institute of Technology, and erected at a cost of approximately \$20,000, will be used in fundamental studies of the structure of matter, a Rutgers research project sponsored by the U. S. Navy, the Research Corporation of New York, and the Rutgers Research Council. Frank G. Dunnington, head, Department of Physics, is in charge of the project.

Meetings

A three-day clinical conference on diagnosis and treatment of poliomyelitis will be held at Warm Springs, Georgia, September 15-17. The conference, which marks the 20th anniversary of the founding of Georgia Warm Springs, will be led by about 20 authorities in the fields of neurology, pathology, pediatrics, orthopedics, and physical and internal medicine. The papers and discussions will constitute a book on diagnosis and The University of Cincinnati Ob- treatment of the disease, to be published methods of treatment will be given by the medical staff of the Warm Springs Foundation. Physicians interested in attending the conference should communicate with the Georgia Warm Spring's Deitrick, Cornell University Medical Col-Foundation, 120 Broadway, New York lege, and "Use of Androgens in Women," 5, New York.

for Minor Planets, has invited Dr. Herget American Geophysical Union will be termediary Metabolism Conducted With to take over the editing and publication of held as a general meeting of the Union the Aid of Isotopic Tracers," DeWitt the Union's "Minor Planet Circulars." on September 17-20. On September 17 Stetten, Jr., Harvard University Medical Astronomers in all parts of the world have at Wesleyan University, Middletown, School, and "The Excretion of Urinary

chairmanship of Joe Webb Peoples, Department of Geology; at Woods Hole Oceanographic Institution on September 18 Columbus O'D. Iselin, director, will lead a conference on Earth Sciences From the Oceanographic Point of View; and on September 18-20, at the Institute of Geographic Exploration, Harvard University, there will be a conference on Meteorology, Hydrology, and Cosmic Phenomena, under the co-chairmanship of C. F. Brooks, director, Blue Hill Observatory; Harlan T. Stetson, director, Cosmic Terrestrial Research Laboratory, M. I. T.; H. G. Houghton, head, Department of Meteorology, M. I. T.; and H. B. Kinnison, district engineer, U. S. Geological Survey, Boston. Further details may be obtained from conference chairmen or from Richard M. Field, general chairman, South Duxbury, Massachusetts.

The New York Academy of Medicine will hold its 20th Graduate Fortnight October 6-17 at 2 East 103rd Street, New York City. The program, devoted to Disorders of Metabolism and the Endocrine Glands, will be composed of morning panel discussions, afternoon clinics, evening lectures, scientific exhibits, and demonstrations. The lectures will include: October 6, "The Diseases of Adaptation, With Main Emphasis Upon Hypertension," Hans Selve, University of Montreal, and "Adaptation Syndrome in Man," John S. L. Browne, McGill University Clinic, Royal Victoria Hospital, Montreal; October 7, "Energy Metabolism in Obese Persons," Louis H. Newburgh, University of Michigan Medical School, and "Psychological Aspects of Obesity," Hilde Bruch, College of Physicians and Surgeons, Columbia University; October 8, "Relation of the Adrenals to Immunity," Abraham White, Yale University, and "Clinical and Experimental Studies on Adrenal Cortical Hyperfunction," Louis J. Soffer, Mount Sinai Hospital; October 9, "Metabolic Consequences of Immobilization." John E. Ephraim Shorr, Cornell University Medi-The 21st Regional Meeting of the cal College; October 10, "Studies in Inbeen invited to send their asteroid obser- Connecticut, there will be a conference Steroids in Health and in Disease," Konfor Cancer Research; October 13, "Dis- Congresses will be elected at the opening biological and clinical research dealing turbances in Electrolyte Metabolism in sessions of the plenary and sectional broadly with phenomena relating to Man and Their Management," Daniel meetings. C. Darrow, Yale University School of Medicine, and "Role of Amino Acids in exhibits related to tropical medicine and Nutrition," William C. Rose, University also motion pictures. Visits will be made of Illinois; October 14, "Metabolic Func- to the laboratories of the Department of tions in Old Age," Nathan Shock, U. S. Agriculture in Beltsville, to the National Public Health Service, Baltimore City Institute of Health in Bethesda, and to Hospital, and "General Aspects of Cush- other institutions in and around Washing's Syndrome," E. C. Reifenstein, Jr., ington. Sloan-Kettering Institute for Cancer Research; October 15, "Hormonal and held in the Departmental Auditorium in Chemical Factors Regulating Thyroid recognition of triumphs of medical science Function," Rulon W. Rawson, Harvard in the tropical field. The first will com-University Medical School, and "Some memorate the demonstration of the mos-Clinical Experiments With Antithyroid quito transmission of yellow fever by Compounds," Edwin B. Astwood, Joseph Walter Reed and celebrate his admission H. Pratt Diagnostic Hospital, Boston; to the Hall of Fame. The second will com-October 16, "Testicular Dysfunction, memorate the 50th anniversary of the Some Clinical Aspects," E. Perry Mc- discovery by Ronald Ross of the method Cullagh, Cleveland Clinic, and "Use of of malaria transmission. Androgens in Men," Carl G. Heller, University of Oregon Medical School; Octo- fessional persons with suitable qualificaber 17, "Why Do Women Abort?", Ar- tions and interest in tropical medicine will thur T. Hertig, Harvard University Medi- be enrolled. Those contemplating attencal School, and "Morphological Basis for dance should write to the Executive Secre-Menstrual Bleeding," Joseph E. Markee, tary, Fourth International Congresses on Duke University. The registration fee is \$5.00. Additional information may be secured from Dr. Mahlon Ashford, 2 East 103rd Street, New York 29, New York.

The Fourth International Congresses on Tropical Medicine and Malaria will be held in Washington, D. C., May 10-18, 1948, under the sponsorcooperation of 5 other government agencies and 15 scientific societies. Over 60 governments have been invited by the of existing Grants in Cancer Research will Department of State to send official dele-

gram, with their conveners, will be: Research and Teaching Institutes (W. A. mitted during this period will be made, other funds are being recorded. The in-Sawyer); Tropical Climatology and in most cases, soon after February 1. formation received will be so classified Spirochetal Diseases (T. B. Turner); will become effective July 1, 1948. Fellow- progress can be readily extracted and cor-Virus and Rickettsial Diseases (J. R. ships may begin at any time determined related with other phases. Paul); Malaria (M. F. Boyd); Helmin- by the Committee, although these will thic Diseases (W. W. Cort); Protozoan also usually take effect on July 1. Diseases (E. C. Faust); Nutritional Diseases of the Tropics (T. T. Mackie). Tropical Dermatology and Mycology (F. recommendation of the Committee on D. Weidman); Tropical Veterinary Medi- Growth, has awarded 176 grants and 47

There will be scientific and commercial

Two special evening sessions will be

Physicians, scientists, and other pro-Tropical Medicine and Malaria, Department of State, Washington 25, D. C., for the preliminary announcement and the form for advance registration and hotel reservations.

MRC News

ship of the Department of State, with the for the American Cancer Society, is en- stability, utility, and economy of food tertaining applications for grants and fellowships. Applications for extension be received until October 1; applications obtained from directors of research in ingations. As one of the sponsoring societies, for new grants, until November 2. Ap- dustry, universities, government, and the AAAS is represented on the Organiz- plications for Fellowships and Senior other agencies. As a supplementary source ing Committee by Ernest Carroll Faust. Fellowships in Cancer Research may be of information, food and nutrition pro-The 12 sections of the scientific pro- submitted until December 1.

During the past two years the American Cancer Society, acting upon the of Scientific Personnel.

rad Dobriner, Sloan-Kettering Institute tomology (F. C. Bishopp). Officers for the will continue to recommend support of growth, typical or neoplastic. In the formulation of this program the Committee will be guided, as in the past, by the advice of some 120 scientists, grouped in 20 panels comprising its Sections on Biology, Chemistry, Physics, Chemotherapy, Clinical Investigations, and Fellowships.

Communications regarding grants or fellowships should be addressed to: Executive Secretary, Committee on Growth, National Research Council, 2101 Constitution Avenue, N. W., Washington 25, D. C.

A comprehensive survey of food and nutrition research currently active in the United States is being undertaken by the Food and Nutrition Board with the support of the Quartermaster Food and Container Institute for the Armed Forces. This is a unique effort to compile a detailed record of research in progress in a special field which cuts across so many divergent interests. A register of the type proposed will not only facilitate the coordination of peacetime research in relation to national security and public welfare but will also serve as a basis for quick mobilization of food research resources in event of national emergency. The survey will cover all phases of food and nutrition research, including chemical, physiological, microbiological, technological, psychological, and basic economic studies. Correlation of such studies The Committee on Growth, acting with regard to health, acceptability, will be made.

Subject listings of research in progress pertaining to foods and nutrition are being jects receiving financial support from Final decision on applications sub- foundations, public trusts, industry, and Physiology (D. B. Dill); Bacterial and Grants approved at this time ordinarily and coded that any phase of research in

> A roster of personnel engaged in food and nutrition research is also being developed in collaboration with the Office

C. G. King, scientific director, Nutrition Foundation, is chairman of the Comcine (R. A. Kelser); Public Health (H. E; fellowships, representing a total expendi- mittee on Survey of Food and Nutrition Meleney); Medical and Veterinary En- ture of some \$2,700,000. The Committee Research which will supervise the project

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National Research Council.

Recent Deaths

William W. Watts, 87, emeritus professor of geology, Imperial College of Science and Technology, died in London on July 30.

George H. Hallett, 76, professor emeritus of mathematics at the University of Pennsylvania, died August 13 in West Chester, Pennsylvania.

Terence Thomas Quirke, 61, professor of geology, University of Illinois, died August 19 of a heart attack. Dr. Ouirke is the author of a comment appearing in this issue.

Boyd Coe Dennison, 66, professor of electrical engineering at the Carnegie Institute of Technology, died August 19 in Pittsburgh, Pennsylvania.

Comet Wirtanen, a new comet named for its discoverer, C. A. Wirtanen, was seen for the first time in California on July 18. Two observations have since been reported to the Harvard College Observatory from Lick Observatory, Mount Hamilton, California, according to announcement by Science Service. The comet, which can be seen only with a powerful telescope, is traveling slowly north and west near the celestial equator between the constellations Aquarius and Aquila and is of the 12th magnitude.

has announced a revised set of organic ment conditions and problems of scientific laws for the Academia Sinica, the Na- and technical personnel in the research tional Academy of China. The revision institutions which are working on the dent.

and collaborate in the preparation of research in all branches of organized without adverse effect upon academic periodic reviews and reports. Mildred knowledge, the Academy's laws provide and industrial employers. The Commit-Ragan, technical secretary for the Com- for the establishment of some 23 re- tee, which will be a continuing group, mittee, and LeRoy Voris, executive secre- search institutes. At present only 13 are includes the following members: F. tary, Food and Nutrition Board, are organized, each with its own direc- Wheeler Loomis, professor of physics, handling the operational details for the tor, research staff, technicians, and University of Illinois, chairman; Morris clerks: Mathematics, Astronomy, Physics, P. Carpenter, executive director, Whiting Chemistry, Geology, Zoology, Botany, Laboratories, Standard Oil Company of Meteorology, History and Philology Indiana, Whiting, Indiana; Farrington (divided into sections on History, Phil- Daniels, chairman, Board of Governors, ology, Archaeology, and Ethnology), Argonne National Laboratory, and pro-Social Sciences, Medicine, Engineering, fessor of chemistry. University of and Psychology. The institutes are ad- Wisconsin; W. A. Hamor, associate ministered by a secretariat headed by a director, Mellon Institute; William B. secretary general and a number of staff Harrell, business manager, University of members appointed by the president. Chicago; and Lawton D. Geiger, Iowa A. Pen-tung Sah is the present secretary Area Manager, U. S. Atomic Energy general with a main office at Chi Ming Commission, Ames, Iowa, executive Ssu, Nanking, and a branch at Shanghai secretary. (320 Yoyang Road).

> The new provision for election of Academy members is in line with that of Chemicals, 35 West 33rd Street. academies in other nations. Following Chicago 16, Illinois, lists the following election of an initial group of 80-100 wanted chemicals: dodecamethylene chlomembers from nominees of various or- ride; 2,7-diaminofluorene; brazilin: deganizations and institutions in China. soxyguanosine; trimellitic acid; phloretin; a maximum of 15 may be elected each perthiocyanicacid; carbonyl sulfide; deuyear. There will also be a representative teroammonia; diborane; lithium deuteride; Council, members of which will serve for furazan; 1,3,4-oxadiazole; 3-phenylcyclothree years.

In addition to monographs published by the various institutes, the Academia Sinica publishes two journals: Science Record, containing brief original scientific articles in English, French, or German, which has been issued twice since 1941 under the chief editorship of Y. H. Woo, physicist; and Shyue Shuh Hueh Kan, published in Chinese, also issued only twice since 1941, which contains review articles, biographies of scholars, and abstracts of research work.

The U.S. Atomic Energy Commis-

sion has appointed an advisory Scientific The National Government of China Personnel Committee to study employhas to do mainly with election of aca- Atomic Energy Commission program. include the Divisions of Mammals, Birds, demicians from among Chinese scholars Its report will include detailed recom- Reptiles and Amphibians, Fishes, Inof distinction. The Academy, founded in mendations and supporting data based sects, Mollusks, Marine Invertebrates, 1926 as the highest academy of learning on practices in government, industry, and Echinoderms, Waldo L. Schmitt, in China, is directly under the National and educational institutions, taking into head curator of Biology, becoming head Government, from which it receives account the unique mission of the Atomic of Zoology. The Divisional staffs remain financial support. Its first president was Energy Commission. This report, which unchanged. The newly-established De-Tsai Yuen-Pei, who served until his the Committee will submit to the Com- partment of Botany, with E. P. Killip as death in 1940, after which Chu Chi-Hua, mission, will recommend personnel poli- head curator, comprises the Divisions of educator, was appointed acting presi- cies for the Commission research program Phanerogams, Grasses, and Cryptogams. to enable the Commission to obtain the Jason R. Swallen is curator of the Divi-Aside from coordinating and promoting services of qualified research personnel sion of Grasses. Mr. Killip will for the

The National Registry of Rare pentene; benzochrysene; benzoperylene; benzofluorene; jojoba oil; ferrous glycinate; and vinyl dimethylamine.

The 10th Annual Louis Gross Memorial Lecture will be delivered at the Jewish General Hospital, Montreal, under the auspices of the Montreal Clinical Society, October 29, at 8:30 P.M., by I. Arthur Mirsky, director, May Institute for Medical Research, and associate professor of experimental medicine in psychiatry, University of Cincinnati. Dr. Mirsky's topic will be: "Biology of Metabolic Disease in Man."

The Department of Biology, U.S. National Museum, was reorganized on July 31 to form two separate Departments, Zoology and Botany. The Department of Zoology for the present will present act also as curator of the other divisions. Associate curators E. C. Leonard, C. V. Morton, and E. H. Walker are assigned to the Division of Phanerogams, and Paul Conger, in charge of the Section of Diatoms, is assigned with his collections to the Division of Cryptogams. It is expected that this reorganization will enable the staff working with the collections designated as the U. S. National Herbarium to give them better care and to respond more promptly to the many requests for information received from all parts of the world.

The National Bureau of Standards. of Selected Values of Chemical Thermo- awkward to say. dynamic Properties," which bring to-Engineering. U. S. Government laboratorequest to the Bureau.

Make Plans for-

American Roentgen Ray Society, September 14-19, Atlantic City, New Tersey.

American Chemical Society, September 15-19, New York City.

Illuminating Engineering Society, September 15-19, New Orleans, Louisiana.

American Institute of Electrical Engineers, Middle Eastern District Meeting, September 23-25, Dayton, Ohio.

American Public Health Association. October 6-10, Atlantic City, New Jersey.

American Academy of Ophthalmology and Otolaryngology, October D. C.) 12-17, Chicago.

American Association for the Advancement of Science, 114th Meeting, December 26-31, Chicago, Illinois.

COMMENTS by Readers

called the gram calorie per square centi- intensity that of the blue and green meter per minute is very frequently used; bands. From top to bottom the colors for longer time intervals, such as an in a primary rainbow run: red, orange in cooperation with the Office of Naval hour or day, for example, the gm cal/ yellow, green, blue, indigo, violet. Usually Research, has just published in loose- cm²/hr or gm cal/cm²/day is used, when the indigo and violet bands are quite leaf form the first tables in a new and appropriate. These units are somewhat faint, whereas in this case they were comprehensive compilation of "Tables cumbersome to write and even more unusually bright.

gether for the first time all available needed. According to F. Linke (Handb. bow. In this, as is usual, the order of published data of chemical thermody- Geophys., 1942, 8, 30) the "langley" colors was reversed, with red at the namic properties. One set of these tables, has been proposed to designate the gm bottom and green above. It is uncommon which are published in three parts, is cal/cm²/min, in honor of Samuel P. for the blue, indigo, and violet bands to being furnished to each university De- Langley, who, as the first director of the show above the green in the secondary partment of Physics, Chemistry, or Astrophysical Observatory of the Smith- rainbow, and this was no exception. sonian Institution, contributed greatly However, the width of the secondary bow, ries, research institutions, and industrial to the study of solar radiation and its even without the blues, was about equal laboratories may obtain one set each on depletion by various gases in the earth's to that of the whole primary bow. Beatmosphere.

> considering longer time intervals than It was dark, leaden gray in color. a minute, it is herewith proposed that the "langley" be defined as the gm cal/cm², primary rainbow were the so-called where "gm cal" denotes the 15°C gm supernumerary rainbows, very brilliantly cal. It is also proposed that the written exhibited. Although these are referred abbreviation of "langley" be "ly"; to to as "familiar" phenomena by W. I. shorten the word in other ways might Humphreys in his Physics of the air tend to confuse it with other units.

> now speak of the langley per minute, other mature persons. In this case the the langley per hour (and so forth), which position of the sun, due to the time of will be written as ly/min and ly/hour. day, was almost ideal for rainbow phe-(L. B. ALDRICH, Smithsonian Institution, nomena. The whole band of rainbows Washington, D. C.; H. WEXLER and appeared to lie within a vertical angle S. FRITZ, U. S. Weather Bureau, Wash- of about 20°, from about 60-40° above the ington, D.C.; I. F. HAND, U. S. Weather horizon, with the zenith of the bows in a Bureau, Boston; A. COURT, Office of the direction about 10° S.E. from the Ouartermaster General, and MAJOR W. observer. Two supernumerary bands of P. MELLEN, Air Corps, Washington, color beneath the unusually brilliant

> seen from 8:00 until about 8:15 P.M. another inner band from his place of ob-(C.D.T.) on July 20, 1947, at Urbana, servation. The only colors distinguishable Illinois. The main primary rainbow in these supernumerary bows were green showed a continuous band of clear and red-violet. The bands of green and color. The most unusual part of this violet were very narrow, their width bow was the brilliance of the violet being about that of green and blue only

In solar radiation work the unit band, which at times exceeded in

A secondary rainbow was very plain, A more convenient unit is therefore above and outside the arc of the primary tween the primary and secondary bows However, in view of the need of the sky appeared to be lacking in light.

Beneath and within the curve of the (1920, pp. 456-482), they have never Having adopted the new unit we may before been seen by the writer or by many violet of the primary bow were visible to this observer, and Lt. Col. J. S. Shaplund, C.E., U. S. Army, told the writer A remarkable set of rainbows was that he was able to distinguish still

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