News and Notes

The Fifth Annual Meeting of the Society for Applied Spectroscopy

R. W. Loofbourow

Merck & Co., Inc., Rahway, New Jersey

After having had a look at the current, and constant, problems of spectroscopy as it is being applied to analytical problems, the Fifth Annual Meeting of the Society for Applied Spectroscopy, held in New York May 26–27, turned its attention to some of the newer developments which promise to supply a variety of novel and powerful tools to the spectrographer.

One of the more intriguing of these new methods was brought out by T. I. Taylor in the discussion of neutron spectroscopy. Although very few analytical applications of this technique have been made so far, it appears that certain wavelike properties of a neutron beam should make it available as a new tool for the analytical spectrographer. It has been demonstrated that these beams are absorbed by certain atoms at specific velocities to give an effect which is characteristic for the element. It has also been demonstrated that, under certain conditions, these beams exhibit a scattering effect similar to the Raman spectra. Dr. Taylor suggested that both of these phenomena should find application as analytical tools.

The application of x-ray methods, using both absorption and fluorescence techniques, was discussed in papers by S. W. Levine and Lo Ching Chang. These methods have already been established as analytical procedures in the petroleum industry and in the examination of ores. Advances in both instrumentation and technique appear to give promise of a widening scope for this tool, which will undoubtedly take a prominent place in the field of applied spectroscopy.

A new type of mass spectrometer was described by William H. Bennett. This takes advantage of the fact that particles of different mass assume different velocities under a radiofrequency impulse. This instrument has the advantage of being much less massive than the magnetic mass spectrometer and has already been employed in meteorological rockets for obtaining data on the composition of the upper atmosphere. It was brought out that this instrument cannot be employed for the separation of isotopes on a production basis, as the magnetic mass spectrometer has so successfully been used.

A symposium on spectroscopic sources, and sessions on absorption and emission spectroscopy completed the technical program.

This marked the first attempt on the part of the Society for Applied Spectroscopy to expand its annual meeting to two days, with a dinner on the intervening evening. The registration was over 200 and the enthusiastic interest at all of the technical sessions as well as the exhibit of instruments made this meeting an outstanding success.

About People

E. G. Stanley Baker, assistant professor of biology at the Catholic University of America, Washington, D. C., will be associate professor of biology at Drew University, Madison, New Jersey, after September 1.

Edward A. Fath, chairman of the Department of Astronomy and director of Goodsell Observatory at Carleton College, Northfield, Minnesota, is retiring after 30 years of service. **Leednert Binnendijk,** a Dutch astronomer who has been a research associate at Swarthmore College, will go to Carleton this fall as associate professor of astronomy.

Charles A. Hufnagel, instructor in surgery and director of the Laboratory for Surgical Research at Harvard, has been appointed assistant professor of surgery and professor of experimental surgery at the Georgetown University School of Medicine, Washington, D. C., effective August 1.

Harwood George Kolsky, teaching fellow at Harvard University, **Charles Clark Loomis,** research associate at the Massachusetts Institute of Technology, and **Robert Leroy Mills,** research assistant at Stanford University, have been appointed to the staff of the Los Alamos Scientific Laboratory.

Charles O. Lee will resume his position as professor of pharmacy of the Purdue University School of Pharmacy on September 1, after spending the past year as visiting professor at the College of Pharmacy, University of Puerto Rico, Río Piedras.

Roy E. Marshall, research professor of horticulture and chairman of food technology at Michigan State College, has been appointed assistant director of the Michigan Agricultural Experiment Station, East Lansing.

William H. Watson, assistant director of the atomic energy project at Chalk River, Ontario, and an authority on radar, has been appointed head of the Physics Department at the University of Toronto.

Visitors

John Runnström, director of the Wenner-Grens Institute of Stockholm, has been appointed visiting professor in the Department of Zoology, University of Pennsylvania, for the first semester of the academic year 1950–51. He will teach and supervise graduate work in experimental and chemical embryology. **J. F. Danielli,** head of the Zoology Department, King's College, University of London, will be visiting professor in cytochemistry and experimental cytology during the second semester.

Kunio Uwatoko, professor of geology, Tokyo University, has been visiting colleges and universities in the U. S. under the sponsorship of the Military Government of Japan. Before returning to Tokyo on July 17, he visited the U. S. Geological Survey and the Bureau of Mines in Los Angeles, as well as near-by oil fields, to study water flooding operations.

I. R. C. Bick, Australian chemist, will begin a year's research this summer in the Department of Chemistry at the University of California at Los Angeles. Dr. Bick will study compounds derived from molds. **P. K. Vijayaraghavan,** Indian biochemist, is conducting research in proteins at U.C.L.A. **Joseph Ben Simha Braverman,** director of research at the Central Citrus Products Laboratory, Rehovoth, Israel, is studying food technology on the university's Berkeley campus.

I. P. Cheol, distillation chief, Administración Nacional de Combustible Alcohol y Portland, Montevideo, Uruguay, **Erwin Gigas,** director, and **H. Wolf,** mathematician and geodesist, Land Survey Office, Bamberg, Germany, were visitors at the National Bureau of Standards.

Grants and Awards

The Jane Coffin Childs Memorial Fund for Medical Research has announced the following grants for cancer research and fellowships: *L. C. Strong,* research associate in anatomy, Yale University School of Medicine, $13,430 for genetic studies on induction of tumors by methylcholanthrene; *W. U. Gardner,* professor of anatomy, Yale University School of Medicine, $18,000 for investigation of the role of hormones in normal and abnormal growth; *Janet Howell Clark,* professor, Division of Biological Sciences, University of Rochester, $1,600 for studies of the effects of light radiations and other factors on development of mammary tumors and leukemia in mice; *Gray H. Twombly,* assistant professor of obstetrics and gynecology, Department of Cancer Research, College of Physicians and Surgeons, Columbia University, $5,000 for studies of selective localization of hormones in normal and cancer bearing tissues by radioactive estrogens and allied substances; *Bernhard Zondek,* professor of obstetrics and gynecology, Hebrew University, Jerusalem, $6,000 for study of metabolism of estrogens in patients with benign and malignant tumors; *Balduin Lucké,* professor of pathology, University of Pennsylvania School of Medicine, $20,400 for studies of enzyme patterns in relation to development and growth of neoplasms, and of the mechanism of metastasis; *Victor M. Cutter,* assistant professor of microbiology, and *Katherine S. Wilson,* fellow, Yale University, $2,000 for studies of isolated endosperm nuclei and nuclear cytoplasmic relationships in endosperm of *Cocos nucifera*; *Edith Paterson,* radiobiologist, Christie Hospital and Holt Radium Institute, Manchester, England, $1,175 for a special camera for use in studies of the effect of irradiation and of chemotherapeutic substances in normal and malignant cells grown *in vitro*; *Shields Warren,* National Academy of Sciences, $3,000 for compilation of an atlas of tumor pathology; *Walter S. McNutt,* fellow, Cambridge University, England, under the guidance of *A. R. Todd,* $1,485 for continuation of studies, October 1 to June 30, 1951; *John C. Sonne,* fellow, Department of Physiological Chemistry, University of Pennsylvania School of Medicine, under the guidance of *John M. Buchanan,* $8,000 for two years; and *Alexander C. Wallace,* fellow, Department of Pathology, Yale University School of Medicine, under the guidance of *H. S. N. Greene,* $4,250 for one year.

The National Council to Combat Blindness, Inc. has made grants-in-aid totaling $15,366 for research in ophthalmology for the year ending June 30, 1951. Recipents of the awards are: *Boston City Hospital,* $6,000—study of electrical responses of the retina and brain in patients with amblyopia ex anopsia by Hermann M. Burian; *New York Medical College, Flower and Fifth Avenue Hospital,* $1,700—study of regional light sensitivity of the retina by Charles Haig; *Northwestern University Medical College,* $936—study of quantitative measurements of ocular fluorescein fluorescence in normal and glaucomatous eyes by Frank Newell; *Nuffield Laboratory of Ophthalmology, the Eye Hospital, Oxford University, England,* $1,730—investigation of normal and abnormal structures of the vitreous humour by Antoinette Pirie; and *University of Pennsylvania,* $5,000—study of virus infections of ocular tissues by Harold G. Scheie.

Three awards of the American Society for Testing Materials were made at the society's annual meeting in Atlantic City, June 27. **The Charles B. Dudley Medal,** awarded annually for an original contribution to research in engineering materials, was presented to B. J. Lazan, of Syracuse University. **The Richard L. Templin Award** was made to D. S. Clark and D. S. Wood, California Institute of Technology, Pasadena, for plastic deformation at rapidly applied constant stress. **The Sam Tour Award** for improvement and evaluation of corrosion testing methods went to O. B. Ellis, of the Armco Steel Corporation, Middletown, Ohio.

Five new grants for cancer control and 16 renewal grants, totaling $352,800, have been made by the U. S. Public Health Service. The grants are supported by the National Cancer Institute, which will collaborate in the studies with a number of other federal agencies. The new grants are: *University of Arkansas School of Medicine,* Little Rock—$10,000 for investigation of the life history of intraepithelial carcinoma of the cervix; *Colorado State Department of Health,* Denver—$24,450 for study of individuals exposed to radioactive substances in uranium mining and processing; *Medical College of Georgia,* Augusta—$3,873 for detection of prostatic cancer by exfoliative cytology and study of tissue changes following hormonal therapy, and $6,265 for study of preinvasive cancer of the cervix; *Maryland State Department of Health,* Baltimore—$9,900 for epidemiologic study of cancer.

Grants for construction of cancer research facilities, the last of 30 such grants, totaling $6,000,000, made

during the past fiscal year, were: *Indiana University Medical Center,* Indianapolis—$126,350, and *Vanderbilt University School of Medicine,* Nashville, Tennessee—$126,350, both for new cancer research laboratories; and *Stritch School of Medicine, Loyola University,* Chicago—$47,300 for enlarging and improving present laboratories.

Industrial Laboratories

The Kellex Corporation of New York, recently purchased by the Vitro Manufacturing Company from the M. W. Kellogg Company, has elected Albert L. Baker president, and William H. Denne, Jr., vice president and general manager.

Abbott Laboratories has opened a branch office at 628–38 East Erie Avenue, Philadelphia. Charles Moyer is branch manager, and C. E. Fenger is office manager.

Meetings and Elections

The autumn meeting of the National Academy of Sciences will be held October 9–12, at the new quarters of the General Electric Research Laboratory, near Schenectady, New York. The first sessions for presentation of papers will be held on Tuesday morning, October 10, in the auditorium and conference rooms. Cornelius P. Rhoads, director of the Memorial Hospital Center for Cancer and Allied Diseases in New York City, will give a public lecture in Memorial Chapel, Union College, on Tuesday evening. Sir Lawrence Bragg, director of the Cavendish Laboratory at Cambridge University, England, will be the principal speaker at a dinner on Wednesday evening, at Hotel Van Curler.

The Detroit Institute of Cancer Research will hold its third annual meeting October 16–18 in the Horace Rackham Memorial Building in Detroit. The first two days of the meeting will be devoted to the fundamental sciences related to cancer research, and the third day to reports of clinical investigation. Speakers at the meeting will be: E. S. Guzman Barron, University of Chicago; L. G. Barth, Columbia University; G. H. A. Clowes, Eli Lilly and Company; Th. Dobzhansky, Columbia University; Louis F. Fieser, Harvard University; E. M. K. Geiling, University of Chicago; C. P. Leblond, McGill University; W. M. Stanley, University of California, Berkeley; S. A. Waksman, Rutgers University; Abraham White, University of California, Los Angeles; Leonard Scheele, U. S. Public Health Service; R. K. Gilchrist, Chicago; Evarts A. Graham, Washington University, St. Louis; Roger A. Harvey, University of Illinois; Freddy Homburger, New England Medical Center, Boston; George N. Papanicolaou, Cornell University; and Owen H. Wangensteen, University of Minnesota Hospital.

The annual meeting of the Conference on Electrical Insulation, Division of Engineering and Industrial Research of the National Research Council, will be held November 1–3 at Pocono Manor Inn, Pocono Manor, Pennsylvania.

The American Society for Testing Materials elected the following officers at its annual meeting in Atlantic City, June 27–30: president, L. J. Markwardt, U. S. Forest Products Laboratory, Madison, Wisconsin, and vice president, T. S. Fuller, Schenectady, New York. Frank E. Richart, Urbana, Illinois, will continue as senior vice president, and C. L. Warwick, of Philadelphia, will continue as executive secretary.

The Pacific Section of the American Society of Limnology and Oceanography elected the following officers at its annual meeting in Salt Lake City, June 19–24: president, W. T. Edmondson, University of Washington, Seattle; vice president, Martin W. Johnson, Scripps Institution of Marine Zoology, La Jolla, California; and secretary-treasurer, John P. Tully, Pacific Oceanographic Group, Nanaimo, Canada.

The American Neurological Association at its annual meeting, June 12–14, in Atlantic City, elected the following officers for 1950–51: president, Wilder Penfield; president elect, S. Bernard Wortis; first vice president, Roland P. Mackay; second vice president, Donald MacPherson; secretary-treasurer, H. Houston Merritt; and assistant secretary, Charles Rupp.

The American Society for Engineering Education elected the following officers at its annual meeting in Seattle, Washington, June 23: president, F. M. Dawson, State University of Iowa; vice presidents, Gerald A. Rosselot, Georgia Institute of Technology, and Linton E. Grinter, Illinois Institute of Technology; and treasurer, Charles L. Skelley, the Macmillan Company. A. B. Bronwell, of Northwestern University, continues in office as secretary.

Deaths

William Mackay Smith, 69, head of the Department of Mathematics at Lafayette College, in Easton, Pennsylvania, since 1934, died July 3. Dr. Smith had been a member of the faculty of the college since 1906, and had planned to retire next year. He was a Fellow of the American Association for the Advancement of Science.

Trygve D. Yensen, an authority on magnetics, died in Prestwick, Scotland, July 2. He was 66. Dr. Yensen had retired June 30 from Westinghouse Electric Corporation, where he had been a member of the research staff for 42 years. During this time, he had developed a series of new alloys to improve the performance of meters, generators, and transformers.

Eugene A. Golomshtok, anthropologist and authority on permafrost, died June 20, at the age of 53. Dr. Golomshtok had worked on the compilation of an arctic encyclopedia for naval use, and at the time of his death was engaged in a study of permafrost in collaboration with other authorities on the polar regions.

Donald Walton Davis, 68, professor and head of the Department of Biology at the College of William and Mary since 1916, died June 30 of a heart attack. Dr. Davis was a founder and early president of the Virginia Academy of Science, and he contributed to the establishment of the Virginia Fisheries Laboratory.

Miscellaneous

A central catalog of Slavic translations and abstracts has been established in the Union Catalogue Division of the Library of Congress, to record the location of English translations and abstracts of Slavic publications and documents. The catalog, which has been undertaken for an experimental period at the request of federal agencies, lists the translations which have been made in the various agencies. The translations themselves, made from unclassified material, are not available from the division, but must be obtained from the agencies reporting them. Further information or requests for service from the catalog should be sent to the Central Catalog of Slavic Translations and Abstracts, Union Catalog Division, Library of Congress, Washington 25, D. C.

A national institute of genetics has been established in Misima, Japan, for the purpose of "... comprehensive studies on the principle of heredity, and of providing a theoretical basis to the solution of practical problems on heredity, and also to guide and promote the genetic researches in Japan." Kan Oguma is director of the institute and head of its Cytogenetic Department, Yoshimaro Tanaka is head of the Phenogenetic Department, and Taku Komai heads the Physiogenetic Department. The address of the new institute is Misima, Sizuoka-ken, Japan.

A committee on problems of alcohol has been set up in the Division of Medical Sciences of the National Research Council to initiate and support research, to correlate data, and to provide advisory and administrative services for agencies concerned with the pathologic effects of alcohol. The committee will not be concerned with education or public information, but will offer technical advice to persons and agencies for dissemination of information. The Secretary, Committee on Problems of Alcohol, Division of Medical Sciences, National Research Council, 2101 Constitution Avenue, Washington, D. C., will supply information on the work of the committee.

A new method for forecasting typhoons and hurricanes is being installed in U. S. armed forces weather stations in Guam and Miami this summer. The method, based on work by Herbert Riehl, associate professor of meteorology at the University of Chicago, will utilize the relationship between weather in the temperate zones and tropical hurricanes. Air pressure, temperature, and wind movement data from the Northern Hemisphere will be sent to the forecasting stations, where it will be used to predict the occurrence of tropical storms, and in determining the paths of hurricanes.

The U. S. Department of Agriculture, at the request of the Indian government, has sent two specialists to act as consultants to the Ministry of Agriculture at New Delhi. Earle K. Rambo, university of Arkansas agricultural engineer, will assist the government on its program of mechanization of agriculture. Ford M. Milam, agronomist, who has had recent agricultural experience in El Salvador and Korea, will work on problems of agronomy and agricultural research.

A family health maintenance program, sponsored by the Community Service Society of New York City, the College of Physicians and Surgeons of Columbia University, and Montefiore Hospital, will be started in September, as an experiment in keeping families well rather than treating illnesses. Martin Cherkasky, chief of the Division of Social Medicine at Montefiore Hospital, will be physician in charge of the health unit.

Recently Received

Bibliography of Scientific and Industrial Reports. (Bibliography of Technical Reports) January-June, 1949. Office of Technical Services, U. S. Department of Commerce, Washington, D. C. $1.00.

Lithium in Modern Industry. Foote Mineral Co., 18 W. Chelten Avenue, Philadelphia 44, Pa.

Annotated Bibliography of Subtilin: Assay, Microbiological Production, Purification and Chemistry, Biological Activity, and Related Compounds. J. C. Lewis, Bureau of Agricultural and Industrial Chemistry, U. S. Dept. of Agriculture, Washington 25, D. C.

Contributions to American Anthropology and History. Vol. X, Nos. 48–51. Carnegie Institution of Washington, Washington 5, D. C. $4.00 paper, $4.50 cloth.

Fatty Acid Antibacterials from Plants. Carnegie Institution of Washington, Washington 5, D. C. 50 cents paper, 75 cents cloth.

Dental Caries Experience Among Selected Population Groups in the State of Oregon. Demetrios M. Hadjimarkos *et al.* Agricultural Experiment Station, Oregon State College, Corvallis, Ore.

Liver Injury, Trans. 8th Conference, April 28–29, 1949. Josiah Macy, Jr. Foundation, 565 Park Avenue, New York City.

Jan Ingenhousz: Plant Physiologist. H. S. Reed. The Chronica Botanica Co., Waltham, Mass.; Stechert-Hafner, Inc., New York City. $3.00.

Satpura Hypothesis of the Distribution of Malayan Fauna and Flora to Peninsular India, Symposium Report. S. L. Hora, Museum House, Calcutta.

Engineering College Research Council Proceedings, 1949 Annual Meeting. Engineering College Research Council, College of Engineering, State University of Iowa, Iowa City, Iowa.

Some Contemporary Thinking about the Exceptional Child. The Woods Schools, Langhorne, Pa.