

the manner and scope of its activity."

In response to inquiries, the Swiss embassy in Washington offers a mimeographed reply, which concludes that prospective members of the Institute might find it "advisable to consult one of the standard works of reference listing international learned societies."

Among the most highly regarded of these are the *World of Learning* and the *Yearbook of International Organizations*, neither of which lists the International Institute of Arts and Letters.—D.S.G.

Overhead Costs: House Bill Would Cut Down the Bookkeeping

A House Government Operations Subcommittee has acted favorably on a bill (H.R. 6984) designed to reduce the bookkeeping now required in computing overhead allowances on federal research contracts with educational institutions.

Under the present arrangement, a provisional overhead allowance is paid under each contract and adjustments are made on the basis of an audit at the end of each fiscal period. Some university officials have argued that their overhead costs—costs not directly associated with a specific project—are relatively stable, and that the periodic audits are costly and unnecessary.

The proposed revision would permit overhead costs to be fixed on the basis of an institution's past experience, eliminating the periodic audits and adjustments.

The bill was introduced by Congresswoman Julie B. Hansen, of Washington, at the request of the National Federation of College and University Business Officers Associations, which was set up to look after the interests of educational institutions involved in government work. The Bureau of the Budget and the General Accounting Office have offered no objections to the bill, and its prospects would seem to be quite good. An identical bill, S. 1586, is awaiting hearings in the Senate before that body's Government Operations Committee.

The bill deals only with bookkeeping procedures and has no bearing on the Department of Health, Education, and Welfare's 15 percent overhead limitation, which has long nettled universities doing research for HEW and its principal subsidiary, the National Institutes of Health.—D.S.G.

Announcements

Discovery of one of the last predicted antiparticles of matter—the **anti-xi-minus**, or anticascale hyperon ($\bar{\Xi}^-$)—was announced simultaneously last week by teams of physicists in the United States, Switzerland, and France, thus further confirming the theory that there is an antiparticle for every known elementary particle. The new antiparticle, the heaviest of the 30 predicted elementary particles to be observed thus far, is a positive charge with a lifetime of approximately $1/10$ millimicrosecond (10^{-10} second). As it decays, it disintegrates into a positive pion and a neutral antilambda hyperon, which, in turn, decays into an antiproton and positive meson. This complex decay mode gives rise to the term "cascade."

Secondary particles (or antiprotons)—produced by high-energy acceleration of protons—annihilate in bubble chambers where the tracks they leave are photographed in order to calculate the particles' various energies and masses. Early this year, photographs of the xi antiparticle were found and measured independently at Brookhaven National Laboratory, after 34,000 bubble-chamber photographs had been scanned, and at CERN, the European Nuclear center in Geneva, after 85,000 photographs had been studied. The two laboratories agreed to publish the announcements related to both experiments simultaneously in the 15 March issue of *Physical Review Letters*. Other organizations involved in the experiment include Yale University; Saclay, the French nuclear research center; and the Ecole Polytechnique in Paris.

Although existence of the antiparticle has been proved, information still must be obtained on its mass, spin, and other properties.

The German Federal Ministry for Refugee Affairs reports a total of 1606 **refugee scientists and educators** from East Germany since the beginning of 1958. Of these, 513 had been professors, lecturers, or teaching assistants at East German universities.

Grants, Fellowships, and Awards

Applications are being accepted for the 1962 **Fulbright awards** for university lecturing and advanced research in Latin America, the Pacific Area

(Australia and New Zealand), and South and Southeast Asia. Eligibility requirements are U.S. citizenship, a minimum of 1 year of college teaching experience (for lecturing); or a doctoral degree or recognized professional standing (for research). In certain cases, a knowledge of the language of the host country is necessary. Deadline: *15 April*. (Conference Board of Associated Research Councils, Committee on International Exchange of Persons, 2101 Constitution Ave., Washington 25, D.C.)

Three 1-year internships in **medical librarianship** are available at the University of California (Los Angeles) Biomedical Library. Applicants must be U.S. citizens and graduates of accredited library schools. The program, sponsored by the U.S. Public Health Service, has been approved for level II certification by the American Library Association. Deadline: *1 May*. (Louise Darling, Biomedical Library, UCLA, Los Angeles 24)

The University of Michigan's Mental Health Research Institute is offering postdoctoral fellowships in the **mental health sciences**, such as neurochemistry, neurophysiology, and other biological fields. Applicants must have received their Ph.D. degree within the past 3 years, or their M.D. within the past 6 years. (Norman S. Radin, Mental Health Research Institute, University of Michigan, Ann Arbor)

Courses

Senior biologists and medical researchers are eligible to attend a summer laboratory course in **techniques and applications of the electron microscope**, to be offered at Cornell from 12 to 28 June. Deadline for applications: *1 May*. (Benjamin M. Siegel, Rockefeller Hall, Cornell University, Ithaca, N.Y.)

Massachusetts Institute of Technology will offer a 1-week course on **signal detection and identification: theory of human observers** from 30 July to 3 August. The program is intended for those interested in research in psychophysics, design of man-machine systems, and in teaching general and engineering psychology. (Summer Session Director, Room 7-103, MIT, Cambridge 39)

A 2-week intensive course on techniques of **analytical emission spectroscopy**, designed for industrial chemists and physicists, will be offered at Boston College from 16 to 27 July. (James J. Devlin, Department of Physics, Boston College, Chestnut Hill 67, Mass.)

Graduate training courses in **biological and medical information storage and retrieval** have been established at American University in Washington, D.C. In addition to the formal courses, selected candidates will receive on-the-job training for 1-, 2-, or 3-year periods, beginning immediately or with the 1962 summer session (25 June). Applicants must possess at least a B.S. degree with a scientific major. (Biological Sciences Communication Project, American Institute of Biological Sciences, 2000 P St., NW, Washington 6, D.C.)

The Institute for Rational Living is sponsoring a series of workshops during 1962-63 in rational-emotive **psychotherapy**. The workshops will be held in Atlantic City, N.J. (29 Apr.); Toronto, Can. (12 May); St. Louis, Mo. (2 Sept.); and Washington, D.C. (10 Mar. 1963). Applications, accompanied by the \$20 registration fee, should be mailed at least 1 month prior to the date of the workshop. (Albert Ellis, Institute for Rational Living, Inc., 333 West 56 St., New York 19)

Two-week courses in **germfree technology** will be offered by the University of Notre Dame's Lobund Laboratories during June and July. Topics will include the history of gnotobiotics and its applications to biologic research; construction, operation, and testing of flexible film isolators; and production and maintenance of axenic animals. (Morris Pollard, Lobund Laboratories, University of Notre Dame, Notre Dame, Ind.)

Courses in **plant communities, taxonomy of vascular plants, and field zoology** will be offered at West Virginia University's recently completed Terra Alta Biological Station, located in the Allegheny Mountains (elev. 2575 ft). The station, scheduled to begin its first session on 23 July, will also provide opportunities for the study of special topics and for geological and biological research particularly facilitated by the locale. (Herald D. Bennett, Department of Biology, West Virginia University, Morgantown)

Meeting Notes

A conference on educational and research problems in **tropical biology**, sponsored by the University of Southern California in cooperation with the University of Costa Rica, will be held from 23 to 27 April in San Jose, Costa Rica. (J. M. Savage, Department of Biology, University of Southern California, Los Angeles 7)

The American Institute of Electrical Engineers, **Pacific Energy Conversion Conference** will be held from 13 to 16 August in San Francisco. The conference, intended to bridge the gap between scientific investigation and practical application, will cover thermionic, photovoltaic, and thermoelectric conversion; fuel cells; energy storage; and magnetohydrodynamics. (Paul H. Leech, c/o McGraw-Hill Publishing Co., 255 California St., San Francisco 11)

A symposium on **cellular and subcellular replication** will be offered by the University of Michigan from 9 to 13 July. (David G. Shappirio, Department of Zoology, University of Michigan, Ann Arbor)

Oak Ridge National Laboratory is sponsoring a symposium on **solvent extraction chemistry**, to be held at Gatlinburg, Tenn., from 23 to 26 October. Invited papers will be presented on recent studies and developments in the field relating to nuclear energy. (K. B. Brown, ORNL, P.O. Box X, Oak Ridge, Tenn.)

Films

The World Within; 27 minutes, color. Rental fee: \$155. Traces the history of man's knowledge of parasitology; an overall concept of the subject and its relation to biology and medicine. (Public Film Rental Library, University of California Extension, Berkeley 4)

Effects of Acceleration on Visual Brightness Discrimination; 8 minutes, black and white, free loan. A standard psychophysical task is adapted for use during centrifuge runs. (E. B. Chester, Cornell Aeronautical Laboratory, Buffalo 21, N.Y.)

Resuscitation of the Newborn; 25 minutes, color, free loan. Shows necessary procedures and apparatus, and includes photographs of live-action de-

livery-room resuscitations. The physiology of pre- and postnatal oxygenation and the factors that may contribute to producing respiratory depression in the newborn are described. (Medical Film Center, Smith Kline & French Laboratories, 1500 Spring Garden St., Philadelphia 1, Pa.)

Chlorpromazine in Anesthesia; 24 minutes, color, free loan. Clinical report of anesthesiological technique based on experience obtained in a series of 3100 patients given chlorpromazine (Thorazine) as an adjunct to premedication in surgical anesthesia. (Medical Film Center, Smith Kline & French Laboratories, Philadelphia, Pa.)

The Development of Bacteriophage Plaques; 1½ minutes, black and white. Rental fee: \$15. Time-lapse study of bacteriophage attack on a bacterial carpet growing in a petri dish. (Public Film Rental Library, University of California Extension, Berkeley 4)

Mind and Medicine; 45 minutes, black and white, free loan. Illustrates the biochemical and socioenvironmental approach to therapy and research. Shows experiments in which schizophrenia is artificially induced, demonstrates the effect of drugs in group and individual therapy, and examines the use of environment as a therapeutic tool in mental hospitals. (Film Center, Smith Kline & French Laboratories, Philadelphia, Pa.)

New Journals

Bioastronautics Report (introductory issue), Jan. 1962. A. Kranish, Ed. Bioastronautics Report, 998 National Press Bldg., Washington 4, D.C. Bimonthly. \$72 per year.

Horticultural Research, vol. 1, No. 1, Nov. 1961. C. A. Wood and W. W. Fletcher, Eds. Scottish Horticultural Research Institute, Mylnefield, Invergowrie, Dundee, Scotland. Semi-annually. \$4 per year.

International Journal of Production Research, vol. 1, No. 1. N. A. Dudley, Ed. Institution of Production Engineers, 10 Chesterfield St., Mayfair, London W.1. Quarterly. Members, £4 4s. per year. Nonmembers, £5 5s. per year.

Irish Journal of Agricultural Research, vol. 1, No. 1, Oct. 1961. D. Murphy, Ed. An Foras Talúntais (Agricultural Institute), 33 Merrion Rd., Dublin 4, Ireland. Semi-annually. \$3 per year.

Scientists in the News

Sidney Udenfriend, chief of the National Heart Institute's laboratory of clinical biochemistry, has won the Hillebrand award of the Chemical Society of Washington for his work in neuro-regulatory substances in health and disease.

James H. Zumberge, professor of geology at the University of Michigan, has been appointed the first president of Grand Valley State College in Grand Rapids, Mich. The new liberal arts college, created by the Michigan state legislature in 1960, expects to accept its first class of freshmen in the fall of 1963.

G. Halsey Hunt, retiring chief of the National Institutes of Health's division of general medical sciences, will become associate executive director of the Educational Council for Foreign Medical Graduates in Evanston, Ill. He will become executive director in January 1963, upon the retirement of **Dean F. Smiley**.

Irving H. Sher, senior scientist at Smith Kline & French Laboratories, has been named director of research at the Institute for Scientific Information in Philadelphia.

Harry M. Yakabe, of the Food and Drug Administration, has joined the National Bureau of Standards' Radiation Physics Division.

John R. Barry, associate professor of psychology at the University of Pittsburgh Medical School, has been appointed professor of psychology and research coordinator for the University of Florida's recently inaugurated Regional Rehabilitation Research Center.

Donald C. Lawrence, formerly with Atomics International's radiation measurements unit, has been appointed head of the health physics section at Hazleton-Nuclear Science Corporation in Palo Alto, Calif.

Recent staff appointments at Stanford University:

Lars V. Hormander, of the University of Stockholm, will become professor of mathematics in March 1963.

Norman A. D. Parlee, professor of metallurgical engineering at Purdue, will become professor of extractive metallurgy in the fall, 1962.

Gertrude Blanch, research mathematician at the Air Force's Aeronautical Research Laboratory in Ohio, is the first woman to be appointed a senior scientist in the Department of Defense.

Clifford V. Allen, former chief of radioisotope service and radiotherapy at the Veteran's Administration Hospital in Portland, Ore., has been named professor of radiology at the University of Oregon Medical School.

Manley St. Denis, a former project leader for the Institute for Defense Analyses, has been appointed to the staff of Operations Evaluation Group's naval warfare analysis group in Washington, D.C.

Adrian Klinkenberg, of Shell Development Company in The Hague, Netherlands, is serving as visiting professor of chemical engineering at the University of Texas during the spring semester.

Arthur B. Bronwell, who recently resigned as president of Worcester Polytechnic Institute, will become dean of engineering at the University of Connecticut on 1 April.

Jean Hiernaux, rector of the State University in Elisabethville before the secession of Katanga Province, is visiting professor of physical anthropology at Harvard during the spring term. Hiernaux, who went to Belgium to protest the secession after Katanga took over the university, was ordered by the Katanga Government not to return to the university.

B. F. Landrum, of Minnesota Mining and Manufacturing Company's central research laboratory, has been appointed manager of polymer research at Food Machinery and Chemical Corporation's research and development center in Princeton, N.J.

Carl E. Taylor, associate professor of preventive medicine and public health at Harvard, has been appointed professor of public health administration in the Johns Hopkins School of Hygiene and Public Health.

Gilbert C. Larson, former engineering manager of Raytheon Company's commercial apparatus and systems division, has joined Whitehall Electronics, in Minneapolis, as director of engineering and research.

Recent staff appointments at the University of Chicago:

Jack Halpern, inorganic chemist at the University of British Columbia in Vancouver, and **Donald S. McClure**, physical chemist with Radio Corporation of America's research laboratories in Princeton, N.J., will be professors in the department of chemistry. McClure will also be a professor in the university's Institute for the Study of Metals.

Ronald Singer, anatomist and anthropologist at the University of Cape Town (South Africa), will become professor of anatomy.

Thomas F. Jones, dean of Purdue's School of Electrical Engineering, has been elected president of the University of South Carolina. He succeeds Robert L. Sumwalt.

Frederick H. Kanfer, associate professor of psychology at Purdue, has been appointed professor of medical psychology at the University of Oregon Medical School.

Robert L. Hall, associate professor of sociology at the University of Minnesota, has been appointed program director of sociology and social psychology for the National Science Foundation.

Recent Deaths

Oscar S. Adams, 88; mathematician with U.S. Coast and Geodetic Survey from 1910 until his retirement in 1944; 4 Mar.

Victor M. Cutter, Jr., 45; head of the department of biology at the Woman's College of the University of North Carolina; 26 Feb.

James G. Dickson, 71; professor and former head of the department of plant pathology at the University of Wisconsin, and former president of the American Institute of Biological Sciences; 28 Feb.

Carney Landis, 65; head of the department of psychology at New York State Psychiatric Institute; 5 Mar.

Joseph Pérès, 51; professor of rational mechanics and dean of the science faculty at the University of Paris, and president of the International Astronautical Federation; 12 Feb.

Paul Warttman, 66; emeritus professor of chemistry at Mississippi State University; 20 Feb.