

Aid to Education: House Group Cites Need for More Technicians, Research on Learning Process

The House Education and Labor Committee is expected to hold public hearings this session on proposals for two new undertakings in federal aid to education: expansion of technical training facilities and basic research into the learning process.

The proposals are among several produced by the committee's specially appointed Advisory Group on Higher Education, which formulated them after a series of private meetings with educators and scientists. In developing the proposals emphasis was placed on harmonizing the needs of higher education with the political realities of the House's conservative leanings. The advisory group, composed of three Democrats and two Republicans, has laid stress in its public announcements on its bipartisan makeup and the unanimity of its findings. The prospects for the proposals are deemed to be fairly bright.

The advisory group's recommendations on technical training facilities come at a time when manpower specialists have noted that the nation's science and engineering manpower could in many instances be employed far more productively if it were supported by properly trained technicians. According to committee members, there are fewer than 40 institutions in this country that provide high-level technical training. The best way to stretch the nation's science and engineering manpower, it suggests, would be through federal grants to assist the states in establishing and expanding 2-year technical institutes above the high-school level. No price tag was attached to the recommendation, but it is understood that the advisory group believes that at least \$25 million is needed for a minimum program.

The proposal on research into the learning process was accompanied by the observation that "at least until very recently, basic research in the learning process has apparently not attracted the attention of the most able behavioral scientists." The recommendation called for the stimulation of "high quality" research; several persons associated with the advisory group's report say that this is a polite way of indicating that it would be well to have the research conducted outside schools of education.—D.S.G.

Announcements

Documentary material on the **formulation of quantum physics** and related scientific developments (1898–1938) is being solicited for use in a joint project of the American Physical Society and the American Philosophical Society. Of particular interest is information about letters, manuscripts, meeting records, photographs, and films on the history of quantum physics; and recollections of seminars where critical steps were discussed, of moments at which an important concept emerged, and of occasions when the outlook of one investigator was dramatically changed by another. The project, supported by a National Science Foundation grant, aims to preserve all such materials and to record commentary of the surviving participants in the development of quantum physics. [Thomas S. Kuhn, 224 Stephens Memorial Hall, University of California, Berkeley 4 (prior to Sept.); Universitetets Institut for Teoretisk Fysik, Blegdamsvej 17, Copenhagen, Denmark (thereafter)]

A revised edition of a Soviet study of **ferroalloy thermodynamics**, used in the U.S.S.R. as a university textbook, is available in English through the U.S. Department of Commerce. The book, revised "in the light of new physical and chemical data . . . [and] Soviet and foreign achievements in the field . . .," includes separate chapters on silicon alloys, manganese alloys, ferrochromium, and ferrotungsten. (USDC, Office of Technical Services, Washington 25, D.C. Order No. 61-11429 \$4.50)

The government of Madras (India) has established an **Institute of Mathematical Sciences** to promote advanced study and research in all branches of mathematics and theoretical physics. The institute, under the direction of Alladi Ramakrishnan, former professor of theoretical physics at the University of Madras, will invite visiting scientists to participate as professors or members, working in collaboration with permanent staff members. (Alladi Ramakrishnan, IMS, Madras 4, India)

Material on the **procurement and maintenance of monkeys** is being solicited for inclusion in a bimonthly publication, *Laboratory Primate Newsletter*, to be offered free of charge to interested researchers. Useful informa-

tion includes new drugs and drug dosages, treatment and handling techniques, diets, novel aspects of cage design, product evaluations and new products, summaries of articles, and experiences with the procurement of monkeys. Also acceptable will be short descriptions (not published previously) of current psychological, psychophysiological, or physiological research in the field. (Allan M. Schrier, Psychology Department, Brown University, Providence 12, R.I.)

Meeting Notes

The 3rd international symposium on **rarefied gas dynamics** will be held from 26 to 29 June in Paris. Registration deadline: *1 April*. [E. A. Brun, Laboratoire d'Aerothermique, 4 ter, route des Gardes, Meudon (S & O), France]

Deadline for receipt of 1000- to 2000-word abstracts (in English or French): *1 March*. (J. A. Laurmann, Dept. 53-22, Bldg 202, Lockheed Missiles and Space Co., Palo Alto, Calif.)

A symposium on **inborn errors of metabolism** will be held from 12 to 14 February in Oakland, Calif. The symposium, sponsored by the National Vitamin Foundation, will cover fundamental aspects of medical genetics; carbohydrate, lipid, and amino acid abnormalities; and thyroid disorders. (Laurance W. Kinsell, Institute for Metabolic Research, Highland-Alameda County Hospital, 2701 14 Ave., Oakland 6)

An international conference on **image formation and vision** will be held in Munich, Germany, from 19 to 26 August. The conference, sponsored by the International Commission for Optics, will emphasize image structure and receivers, and the behavior of the visual organ in relation to perception. (W. Lewis Hyde, U.S. National Committee for the ICO, 4709 Baum Blvd., Pittsburgh 13, Pa.)

Courses

A 6-week advanced course in the modern aspects of **vertebrate morphology**, with emphasis on paleontology, functional anatomy, and neurology, will be offered at Harvard from 2 July to 10 August. Participants, limited to 40 college and university teachers of

comparative anatomy, may apply for National Science Foundation fellowships of \$450, plus fees, travel, and dependency allowances. Deadline: 28 February. (Harvard Summer Institute in Comparative Anatomy, 626 Holyoke Center, Cambridge 38, Mass.)

Recent graduates with an M.D. or Ph.D. degree are eligible to apply for a 1-year advanced training program in **steroid biochemistry theory and techniques**, offered by the University of Minnesota. The course, sponsored by the National Cancer Institute, will begin in September. (Frank Ungar, Department of Physiological Chemistry, University of Minnesota, Minneapolis)

Grants, Fellowships, and Awards

The Southeast Asia Treaty Organization (SEATO) is offering a limited number of fellowships for study and research on the present needs and future development of **Southeast Asia and the Southwest Pacific** in the social, economic, political, cultural, scientific, and educational fields. Candidates must be nationals of Australia, France, New Zealand, Pakistan, the Philippines, Thailand, the United Kingdom, or the United States, and must have a doctoral degree or its equivalent. Recipients will receive a monthly allowance of \$400, for periods of 4 to 10 months, and travel expenses. Deadline: 1 March. (Conference Board of Associated Research Councils, Committee on International Exchange of Persons, 2101 Constitution Ave., Washington, D.C.)

The Manufacturing Chemists' Association is accepting nominations for the \$1000 **College Chemistry Teacher awards** for 1962. Applicants for the six awards must have had a minimum of 10 years' undergraduate teaching in chemistry, chemical engineering, or other allied courses. Deadline: 1 April. (MCA, 1825 Connecticut Ave., NW, Washington 9, D.C.)

Two fellowships in **clinical oral pathology** are available at the University of Pennsylvania, beginning 1 July. The 1-year fellowships, open to graduates of a U.S. dental school, carry tax-free stipends of \$3600. (Lionel Gold, Department of Pathology, University of Pennsylvania, 4001 Spruce St., Philadelphia 4)

Scientists in the News

Harrison S. Brown, professor of geochemistry at California Institute of Technology, has been appointed foreign secretary of the National Academy of Sciences. Brown, a member of the AAAS Board of Directors, will fill the unexpired term of the late **H. P. Robertson**.

Recent staff appointments in the National Institutes of Health's Division of General Medical Sciences:

Clem O. Miller, formerly with the National Academy of Sciences' division of chemistry and chemical technology, has been appointed an executive secretary in the research fellowships section.

Eugene Byrd, former coordinator for Chronic Illness Project, Inc., in Miami, has been appointed scientist administrator in the center for aging research.

Robin Farquharson, of the University of the Witwatersrand in Johannesburg, South Africa, and **George A. Talland**, of Massachusetts General Hospital and Harvard Medical School, won the American Academy of Arts and Sciences' \$1000 monograph prizes in the social sciences and the physical and biological sciences, respectively.

Rufus Oldenburger, director of Purdue's Automatic Control Center, has received the annual Automatic Control Division award of the American Society of Mechanical Engineers.

Piero P. Foa, former professor of physiology and pharmacology at the Chicago Medical School, has been appointed director of research at Sinai Hospital of Detroit and professor of physiology at Wayne State University Medical School.

William F. Ashe, professor and chairman of Ohio State University's department of preventive medicine, has received the Chilean government's Bernardo O'Higgins award for his services as chief of a U.S. committee which surveyed the country's nutritional status in 1960.

Ross Leonard, director of the Idaho Department of Fish and Game since 1953, has resigned to become fish and wildlife manager of the Department of the Navy's natural resources management division.

Joseph R. McProuty, a radiologist who has been in private practice since 1958, has been appointed associate professor of radiology at West Virginia University.

Joseph F. Shea, former space program director at Space Technology Laboratories in Los Angeles, has joined National Aeronautics and Space Administration's Office of Manned Space Flight as deputy director for systems engineering.

Norman Ellen, of General Precision Laboratory's microwave components section, has been appointed senior project engineer for PRD Electronics' products and components division in Brooklyn.

Vincent P. Guinn, former head of Shell Development Company's radiochemistry group, has joined General Dynamics Corporation's general atomic division as technical director of the firm's activation analysis program.

Recent Deaths

Frank Brawley, 86; eye surgeon and former president of the American Academy of Ophthalmology and Otolaryngology; 19 Jan.

Jean Deming, 66; pediatrician on the staff of the Child Research Council in Denver, Colo., since 1932; 15 Jan.

A. W. C. T. Herre, 93; biologist and retired faculty member of the University of Washington School of Fisheries; 16 Jan.

Albert Johannsen, 90; emeritus professor of petrology at the University of Chicago; 11 Jan.

Alexander Loveday, 74; member of the secretariat of the League of Nations and former member of Princeton's Institute for Advanced Study; 19 Jan.

H. N. MacKechnie, 87; former head of surgery at Loyola University's Stritch School of Medicine; 17 Jan.

Arthur R. Moore, 79; biologist-physiologist and retired staff member of the University of Portland (Ore.); 21 Jan.

Pierre Nobécourt; specialist in the microscopy of paper-making and professor at the University of Grenoble (France); 12 Nov.

Théodore Simon, 88; co-author of the Binet-Simon intelligence tests and former chief of psychiatric medicine at Saint Anne Hospital in Paris; 4 Sept.