liam F. Loomis of the Loomis Laboratory will also have an appointment as professor of biochemistry. Assistant professors are Mary Ellen Jones of the Biochemical Research Laboratories at Massachusetts General Hospital, Lawrence Levine of the New York State Department of Laboratories, Lawrence Grossman of the National Institutes of Health, and William P. Jencks of the department of chemistry at Harvard University.

The department will offer a program of studies leading to the Ph.D. degree. An advanced training program for investigators with a Ph.D. or an M.D. degree is also planned. Research activities of the department will be carried out in a number of different areas, including intermediary metabolism in normal and tumor tissue, enzymology, immunochemistry, biochemical and immunogenetics, biochemical basis of chemotherapy, protein chemistry, plant and virus metabolism, radiobiology, problems in growth and differentiation, photobiology, microbial metabolism, and organic biochemistry. The department will begin its program on 1 July.

Hughes Department for Radiation Study

A new department of nuclear electronics has been announced by the Hughes Aircraft Company, Los Angeles, Calif. The department, headed by John W. Clark, will work with systems designers and manufacturers of components to measure radiation effects on materials and circuitry and to improve their performance under nuclear radiation conditions. The new group will specialize in radiation physics; dosimetry, particularly for high nuclear radiation rates; development of reliable techniques for radiation experiments, and design of radiation testing facilities.

AEC Radiation Protection Rule

The U.S. Atomic Energy Commission has amended its regulation on standards for protection of workers and the public against radiation to provide that those who are licensed shall promptly notify the commission of potentially serious accidents involving licensed material. They must now immediately notify the nearest AEC operations office of any incident involving licensed material which may have resulted in appreciable release of radioactive material or excessive exposure of individuals to radiation. This will enable the commission to assure that appropriate steps are taken to minimize the consequences of the incident, to determine its cause, and to initiate corrective action. Holders of licenses are required, also, to make a detailed report in writing, within 30 days, of all such incidents, regardless of their nature or extent, resulting in radiation exposures or concentrations of radioactive materials above permissible limits.

Spectrochimica Acta

Pergamon Press, Ltd., has announced that a reorganization of the scope of *Spectrochimica Acta* has been undertaken so as to take into account the changing emphasis in spectroscopy in recent years. The journal, which used to be mainly directed to problems of atomic emission spectroscopy and spectrographic analysis, will now reflect the impact upon chemistry, whether organic or physical, of molecular spectroscopy; problems of atomic emission spectroscopy will continue to be fully treated.

In the future, the journal will be published in four-issue volumes, containing the same number of pages as hitherto published in the six-issue volumes, and it is hoped that the journal will appear monthly. This increased rate of publication will make possible rapid publication of papers and also of short research notes, up-to-date reports on spectroscopic meetings, and general information of interest to spectroscopists. It is hoped that full-length papers can be published within 90 days of their acceptance and short communications within a maximum of 60 days.

Teacher Shortage in West Germany

The German Research Association, Bonn, has reported in its most recent survey that the shortage of science teachers in West German technical schools is "catastrophic." The report seems to indicate that some of the factors producing critical shortages in the United States are also operative in West Germany. These factors include an inadequate number of technical schools for the growing population, small teaching staffs, and poorly equipped technical schools.

The report says that there is a 60 percent shortage of engineers and assistants in the technical schools. The shortage of technical and workshop personnel in the school system has risen to 96 percent.

Further, the physical condition of the school buildings in many cases is very poor. Almost 50 percent of the schools specializing in chemistry were constructed before 1918. Between 20 and 30 percent of these institutions are described as "dilapidated." More than two-thirds of the schools are too small.

The income of science teachers compared with that of their graduates poses the same problem as in the United States. The shortage of technical personnel in engineering and chemical industries has also assumed a pattern similar to that in the United States. The Sunday editions of leading newspapers contain as many as eight and ten pages of classified advertisements for electronic, mechanical, construction, chemical, and steel engineers. Foreign concerns, including American organizations, have also been advertising for trained personnel to be employed in their German or overseas plants.

Public Relations and the Laboratory

Leland Haworth, director of Brookhaven National Laboratory, recently warned a group of Latin-American scientists that the public relations aspect of any atomic program is of primary importance. To demonstrate his point, he described the succession of events that followed the accident that took place at Brookhaven last month, when several laboratory staff members were injured, none fatally, in a chemical explosion.

Within minutes after the news of the explosion had been made public by bulletins and radio broadcasts, the laboratory switchboard was swamped. A Detroit editor had asked how much of Long Island had been destroyed; the *Times of London* wanted all details; one report said that there had been 1000 fatalities; the Oak Ridge National Laboratory wanted to known how it could help; and Haworth's daughter in California phoned that evening to see how he had come through the disaster.

Haworth deplored any unscheduled explosion, even in a test laboratory, but he emphasized that every nuclear research center should have well-organized public relations and press information sections fully prepared to deal with such emergencies. He went on to comment as follows about news and radio people: "They do things differently from scientists, who hold accuracy first and speed second. In some quarters, matters of public information are reversed. The Wednesday [explosion] event is a case in point. When word was passed out, there was a news chain reaction that went to many parts of the world."

N.Y.U.–Bell Laboratories Program

A graduate study center will be established by New York University at the Bell Telephone Laboratories this fall. At the center certain Bell Laboratories employees will be able to earn advanced engineering degrees by attending classes during regular business hours while receiving full-time pay.

A committee of Bell scientists worked

with the administration and faculty of the College of Engineering of New York University in drawing up a program selected from regular graduate offerings of the university. These courses, emphasizing particularly mathematics, physics, and basic communications, are designed to develop a strong background for engineers embarking on careers in creative work in the field of communications. This will be the first graduate center to be established by New York University in cooperation with industry.

Mental Health Awards

The Foundations' Fund for Research in Psychiatry has announced that *15 Oct.* is the next deadline for the submission of applications for research fellowships and research teaching grants in psychiatry, psychology, sociology, neurophysiology, and other sciences relevant to mental health. Interested persons and departments are invited to write for details to Foundations' Fund for Research in Psychiatry, 251 Edwards St., New Haven 11, Conn.

Zoological Nomenclature

The International Commission on Zoological Nomenclature has announced that beginning 6 Nov. it will start voting on the following cases involving the possible use of its plenary powers for the purposes specified. Full details were published in the 6 May issue of the *Bulletin of Zoological Nomenclature* (Vol. 13, Part 5): (i) *squilla Linnaeus,* 1758 (Cancer), suppression; *adspersus* Rathke, 1837 (*Palaemon*), designation of, as type species of *Palaemon* Weber, 1795 (Cl. Crustacea, Order Decapoda); (ii) *Dracunculus* Reichard, 1759, validation of, with *Gordius medinensis* Linnaeus, 1758, as type species (Cl. Nematoda); (iii) *Mansonia* Blanchard, 1901 (Cl. Insecta, Order Diptera), validation. Comments should be sent as soon as possible and in duplicate to the secretary of the commission, Francis Hemming, 28 Park Village East, Regent's Park, London, N.W.1.

Rare Chemicals

The following chemicals are wanted by the Registry of Rare Chemicals, Armour Research Foundation of Illinois Institute of Technology, 35 W. 33 St., Chicago 16, Ill.: alpha-Thujene; Trimethyl arsine; 2,4,6-Trimethylheptane; Perfluoroisovaleric acid; Perfluoro-n-heptane; Pentaiodobenzene; Pyrazinecarboxamide; 3,4-Lutidine; Sabinene; Santene; Tri-iso-butyl phosphate; Tri-n-hexyl phosphine oxide; 1,2,3,4-Tetraiodobenzene; 1,3,5-Triiodobenzene; 2,2′,4,4′-Tetramethyldiphenylamine; Potassium picrate; 1-Methylcyclohexanol; Ovalene; Isomenthone; Cadinene.

Proposed Legislation

Of the many bills introduced in Congress, some have a special relevance to science and education. A list of such bills introduced recently follows:

HR 6895. Discharge more effectively obligations of U.S. under certain conventions and protocols *re* institution of controls over manufacture of narcotic drugs. Karsten (D Mo.) House Ways and Means.

HR 6548. Amend Universal Military Training and Service Act, as amended, as regards persons in medical, dental and allied specialist categories. Vinson (D Ga.) House Armed Services.

HR 6719. Provide adjustments in organization and salary structure of Department of Medicine and Surgery in Veterans' Administration. Long (D La.) House Veterans' Affairs.

HR 6897. Provide that persons who have filed petitions for naturalization be employed as doctors in Medical Service of Department of Medicine and Surgery of Veterans' Administration. Knutson (D Minn.) House Veterans' Affairs.

HR 6126. Amend Civil Service Retirement Act to provide certain service in Coast and Geodetic Survey and Public Health Service be considered to be military service for purposes of such act. Broyhill (R Va.) (by request) House Post Office and Civil Service.

S 1862. Establish the Patent Office as an independent agency in executive branch of Government. O'Mahoney (D Wyo.), Wiley (R Wis.) Senate Government Operations.

HR 6602. Provide for establishment of a commission to study shortage of doctors of medicine in U.S. Dorn (R N.Y.) House Interstate and Foreign Commerce.

S 1863. Provide for limiting the life of a patent to a term commencing with date of application. O'Mahoney (D Wyo.), Wiley (R Wis.) Senate Judiciary.

S 1621. Amend act of Dec. 24, 1942 (56 Stat. 1086, 43 U.S.C., sec. 36b), entitled "An act to authorize Secretary of Interior to acquire lands or interest in lands for Geological Survey." Murray (D Mont.) Senate Interior and Insular Affairs.

HR 5817. Authorize for each fiscal year an appropriation into migratory bird conservation fund equal to all moneys received for Federal migratory-bird hunting stamps during next preceding calendar year. Dingell (D Mich.) House Merchant Marine and Fisheries.

HR 6541. Provide that Secretary of Commerce be authorized to furnish weather reports to air-pollution-control agencies. Roosevelt (D Calif.) House Interstate and Foreign Commerce.

S 1918. Amend P.L. 31, 84th Congress, 1st session, to increase authorization for appropriation to Atomic Energy Commission for construction of modern office building in or near D.C. to serve as its principal office. Pastore (D R.I.) Joint Committee on Atomic Energy.

H Con Res 163. Express sense of Congress that Atomic Energy Commission should establish an experimental nuclear reactor in state of Washington. Pelly (R Wash.) Joint Committee on Atomic Energy.

HR 5889. Authorize appropriations for Atomic Energy Commission for acquisition or condemnation of real property or any facilities, or for plant or facility acquisition, construction or expansion. Durham (D N.C.) Joint Committee on Atomic Energy.

HR 5954. Provide for an experimental research program in cloud modification. Baring (D Nev.) House Interstate and Foreign Commerce.

HR 6005. Make evaluation of recreational benefits and wildlife development resulting from construction of any flood control, navigation, or reclamation project an integral part of project planning. Trimble (D Ark.) House Interior and Insular Affairs.

HR 6571. Provide for establishment of a Federal Nuclear Science Academy. Patterson (R Conn.) Joint Committee on Atomic Energy.

HR 6691. Authorize a 10-year program for acquiring national migratory bird refuges and areas. Reuss (D Wis.) House Merchant Marine and Fisheries.

HR 6807. Provide for establishment of a fish hatchery in state of Wisconsin. Withrow (R Wis.) House Merchant Marine and Fisheries.

HR 6959. Authorize Secretary of Interior to cooperate with Federal and non-Federal agencies in augmentation of natural food supplies for migratory water-fowl. Boykin (D Ala.) House Merchant Marine and Fisheries.

HR 5877. Amend Internal Revenue Code of 1954 to allow additional income tax exemption for dependent who is student. Jennings (D Va.) House Ways and Means.

HR 6105. Amend Internal Revenue Code of 1954 to allow deductions for amounts paid by teachers for further education. Teague (R Calif.) House Ways and Means.

Scientists in the News

EDWIN C. KEMBLE, director of the Institute for Teachers of Science and Mathematics which Harvard University will conduct during the coming aca-