

this espionage, and want to prohibit it altogether. The U.S. calls it "observation to promote national security," and regards it as a legitimate and "peaceful" use of space that promotes international stability by closing the "information gap" between Communist and non-Communist countries. Since what we call the "information gap" amounts, in fact, to the overall Soviet security system, it is hardly surprising that they failed to welcome our arguments.

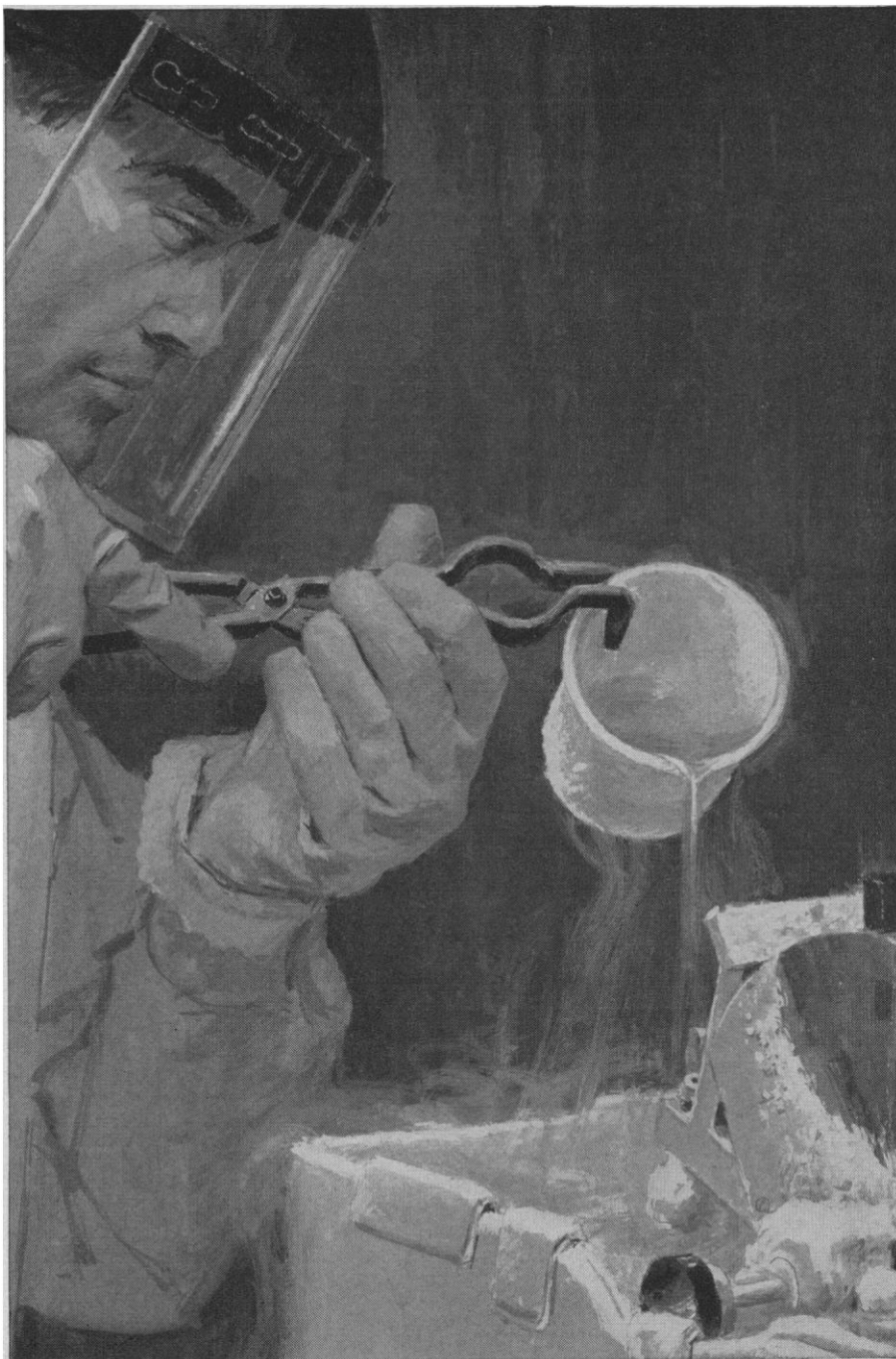
The Soviets also related reconnaissance satellites to a treaty on rescue and return of disabled astronauts and spacecraft, pointing out that no country would return an enemy intelligence satellite that fell by chance on its territory. The U.S., basically, agrees that this is a problem, but it would rather smudge over the issue, make de facto exceptions for the spy satellites, and proceed with the rescue and return treaty nonetheless. The Soviets, insisting on stark clarity, say the two are incompatible, and they won't take one without the other.

The failure to reach any agreement on legal principles does not augur well for international cooperation on scientific projects in outer space. The technical counterpart of the U.N. legal subcommittee opens meetings in Geneva next week, and the U.S.-U.S.S.R. bilateral agreements on weather and communications satellites are scheduled to go into effect on 20 May. These do not seem directly threatened by the legal stalemate, but the work of the scientists would be a good deal easier, and their positions less tenuous, had the politicians been able to record some progress.—ELINOR LANGER

## Announcements

The National Cancer Institute and the U.S. Atomic Energy Commission have begun a joint project to investigate the roles of radiation, viruses, and chemicals as **causes of cancer**. The research is being conducted at Oak Ridge National Laboratories, Tennessee.

Films and other educational materials on **dermatology** may be bought or rented from the new Institute for Dermatologic Communication and Education. The institute was established in response to recommendations made last September at a meeting of the International Committee of Dermatology and the house of delegates of the

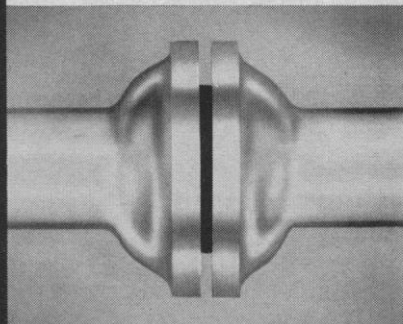


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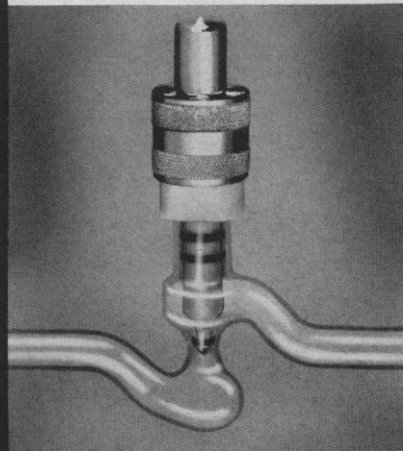
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International League of Dermatological Societies. The institute's president is **Marion B. Sulzberger**, technical director of research for the U.S. Army Research and Development Command.

Detailed descriptions and price lists of the films are available from the institute's headquarters, 630 Ninth Ave., New York 36.

Massachusetts Institute of Technology will establish an advanced study center for practicing engineers and **engineering** professors under a \$5 million grant from the Alfred P. Sloan Foundation. The first classes are scheduled to begin next year. Plans call for formal study courses on recent advances in science and engineering concepts, designed to provide advanced education beyond formal degree programs. The center will be part of the M.I.T. school of engineering.

A standard method for evaluating **radiological health specialists** is being developed by the U.S. Public Health Service's radiological health division. A contract to set up a complete set of examinations has been assigned to the Professional Examination Service of the American Public Health Association. The project is expected to take 2 years to complete; it will provide basic standards by which federal, state, and local agencies may evaluate workers in radiological health. Further information is available from the Professional Examination Service, 1790 Broadway, New York 19.

### Courses

The School of Mines and Metallurgy at the University of Missouri, Rolla, plans two consecutive programs in polymer chemistry:

A **polymer orientation** course is scheduled for 3-14 June and will cover basic organic and physical polymer chemistry. Laboratory and classroom sessions are planned. Applicants must have college-level knowledge of organic chemistry, and at least 1 year's experience in a chemical laboratory. Registration fee is \$100.

A conference on the **chemistry and physics of polymers** will take place 17-21 June at the university. Topics covered will include physical, chemical, and mechanical structure and properties of polymers; chemistry and physics of polyesters and polyamides; and addition polymers. Practical knowledge

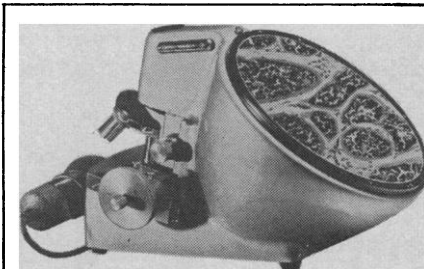
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of polymers is required for this program. Registration fee is \$40.

Campus housing and dining facilities are available for both programs. (W. Bosch, Missouri School of Mines and Metallurgy, Rolla)

A 12-month course in **reactor operations supervision** will begin 23 September at Oak Ridge National Laboratory, Oak Ridge, Tenn. The program is sponsored by the U.S. Atomic Energy Commission, and is designed for international participation. It provides basic instruction in nuclear engineering, with emphasis on reactor operation.

The course is open to U.S. and foreign graduate students. Applicants must have at least a bachelor's degree in chemistry, physics, metallurgy, mathematics, engineering physics, or engineering. Tuition is \$2000.

U.S. citizens must be sponsored by the AEC, its contractors, or other appropriate government agencies. Applications may be sent to the Director, Education Division, Oak Ridge National Laboratory, P.O. Box X, Oak Ridge, Tenn.

Applicants from other countries must have their government's approval. Financial assistance, if needed, may be obtained through the Agency for International Development, the International Atomic Energy Agency, the Organization of American States, or the World Health Organization. Application must be made through the candidate's embassy or legation in Washington, to the AEC. Deadline for receipt of applications: **15 June**.

A laboratory course in **histochemistry** will be presented 10-22 June at the University of Kansas Medical Center. It will include principles, techniques and applications of histochemistry. Tuition is \$75 per week; fellowships are available. (Department of Postgraduate Medical Education, University of Kansas School of Medicine, Kansas City 3)

Applications are being accepted for participation in the University of Oklahoma's conferences on advanced **computer science and related mathematics** or on **biostatistics and computer science**. The courses are scheduled for 27 June to 23 July, and are open to college professors who have a knowledge of computer programming. Forty-six stipends of \$405, plus partial travel allowances will be provided. The courses will include work on advanced program



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techniques, numerical analysis, Monte Carlo methods, logical programming, compiler construction, linear programming, mathematical models, and computability. (R. V. Andree, Department of Mathematics, University of Oklahoma, Norman)

The chemical division of the American Society for Quality Control will present a course 20-22 June, at the University of Rochester, N.Y. It will review **control techniques** now in use, and will introduce new techniques that use cumulative sum charts, exponentially weighted means, and methods of adaptive quality control. The fee for the course is \$120. (R. J. Malach, Color Technology Div., Kodak Park, Bldg. 65, Eastman Kodak Co., Rochester 4, N.Y.)

A graduate course in **marine science** will be held 4 June to 17 August at the University of Texas Institute of Marine Sciences. The program will include general marine science, microbiology, geology, ichthyology, and research problems. The course will conclude with an 8-day trip to the coral reefs at Veracruz, Mexico, to study tropical marine life. Ten NSF stipends of \$300 will be awarded, plus dependent and travel allowances. Part-time research assistantships are also available. (H. T. Odum, Director, University of Texas Marine Institute, Port Aransas)

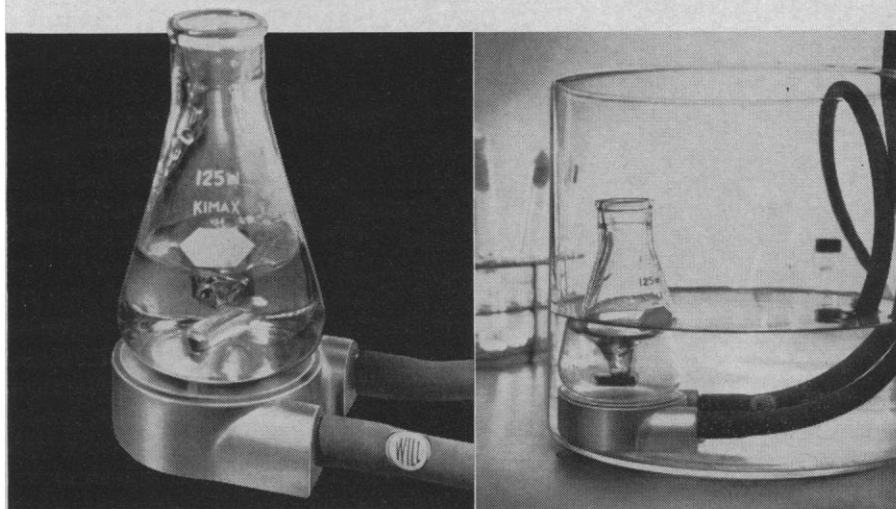
### Meeting Notes

Papers are invited in all branches of **applied spectroscopy** for a symposium scheduled 16-18 September, in Ottawa, Ontario, Canada. The meeting is sponsored by the Canadian Association for Applied Spectroscopy. Deadline for receipt of titles and abstracts: **3 June**. (J. Kelly, The Steel Company of Canada, Metallurgical and Chemical Laboratory, Wilcox St., Hamilton, Ont.)

The date of the 1964 annual meeting of the **Electron Microscope Society of America**, to be held in Detroit, has been changed to 13-17 October to avoid conflict with the Third European Regional Conference on Electron Microscopy, which will be held in Prague, in August 1964.

Papers are being solicited by the Institute of Electrical and Electronic Engineers for the 1963 **Northeast Electronics Research and Engineering**

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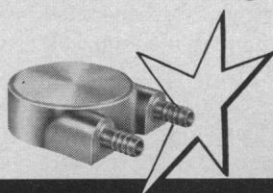


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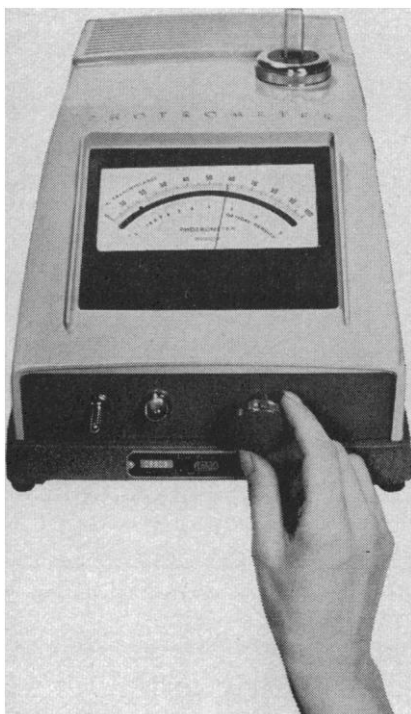
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Meeting (NEREM), 4-6 November, in Boston, Mass. The papers should describe significant original advances in engineering research and development. Speakers are requested to submit a 35- to 50-word abstract and a summary of 600 to 1000 words. Deadline: 7 June. (A. O. McCoubrey, 313 Washington St., Newton 58, Mass.)

## Scientists in the News

**Charles C. Sprague** has been appointed dean of the Tulane University School of Medicine. Sprague, professor of medicine and director of the hematology laboratory at Tulane, succeeds **M. E. Lapham**, who was named provost of the university.

At the University of Michigan:

**Margaret J. Hunter**, research biophysicist at the Institute of Science and Technology, has been appointed associate professor of biological chemistry.

**Kenneth E. Jochim**, head of the biodynamics section, defense research laboratories at General Motors Corp., has been named professor of physiology.

**John P. Dawson**, of the Harvard University law school, will be visiting professor of law for the fall semester.

**Kenneth S. Pitzer**, president of Rice University, has been awarded the 12th Priestly Memorial award of Dickinson College for "contributions to the welfare of mankind through chemistry."

**Frederick Coulston** has been appointed professor of experimental pathology and toxicology at the Albany Medical College of Union University. He previously served at the Sterling-Winthrop Research Institute as director of experimental pathology and toxicology and as assistant director of the biology division.

**Rachmiel Levine**, chairman of the department of medicine at New York Medical College has been elected 1963 president of the Association for Research of Nervous and Mental Diseases.

**Frederick B. Llewellyn** has been appointed science adviser to and deputy for the director of the University of Michigan Institute of Science and Technology. Llewellyn, who joined the institute in 1961, previously served as executive secretary to the President's Science Advisory Committee.

New president of the National Society of Professional Engineers is **John H. Stufflebean**, chief engineer at Blanton and Cole, Tucson, Ariz.

**Franz Sondheimer**, head of the organic chemistry department at the Weizmann Institute of Science, New York, has been named recipient of the Corday-Morgan medal for his "contributions to the chemistry of natural products." The Chemical Society of London's award includes a silver medal and an honorarium of 400 guineas (\$1176).

New director of the Dounreay Experimental Reactor Establishment, United Kingdom Atomic Energy Authority, is **Roy R. Matthews**, formerly a deputy director in the Authority's reactor group. He succeeds **R. Hurst**, who will become director of research of the British Ship Research Association.

## Recent Deaths

**Wilfred H. Crook**, 75; retired chairman of the department of economics, Colgate University; 16 April.

**James A. Doull**, 73; director of the Leonard Wood Memorial for the Eradication of Leprosy, Washington; 6 April.

**Scott V. Eaton**, 77; associate professor emeritus of botany at the University of Chicago; 16 February.

**Frank G. Helyar**, 80; retired director of resident instruction and professor of animal husbandry, Rutgers University; 15 April.

**Helen Stephens Noble**, 70; retired associate professor of higher mathematics, Fairleigh Dickinson University; 29 April.

**Louis A. Pardue**, 62; former vice president and director of graduate studies at Virginia Polytechnic Institute; 27 April.

**William H. R. Shaw**, 38; chemistry professor at Arizona State University; 24 April.

**Abraham Segal**, 63; former director of urology, Jewish Hospital of Brooklyn; 19 April.

**Gilbert L. Stout**, 64; chief of the bureau of plant pathology, California Department of Agriculture; 19 April.

**Theodore Von Karman**, 81; space and aeronautical engineer, Aachen, Germany, 6 May.

**Carl J. Wiggers**, 79; professor emeritus at Western Reserve University's department of physiology; 28 April.