

Frank H. Spedding will resign as director of the Iowa State University Institute for Atomic Research and the Ames Laboratory of the Atomic Energy Commission in July. After he relinquishes his administrative duties, he will continue as distinguished professor of sciences and humanities and as a principal scientist at the laboratory. He will be succeeded by **Robert S. Hansen**, chairman of the chemistry department at Iowa State and chief of the chemistry division at the laboratory.



GLENNAN

President of Associated Universities, Inc, **T. Keith Glennan** will resign sometime in July. He was former president and board member of the Case Institute of Technology and was the first administrator of the National Aeronautics and Space Administration from 1958 to 1961.

William F. Love has been appointed acting chairman of the department of physics and astronomy at the University of Colorado, replacing **Wesley F. Brittin**, who was named acting dean of the Colorado graduate school.

New assistant professors at Wesleyan University are **Bernard Bertman**, formerly at Brookhaven, and **David R. Curott** from Princeton.

Charles M. Huddleston, former director of the physics and mathematics division at the Naval Civil Engineering Laboratory at Port Hueneme, Calif., has joined the staff of the Naval Radiological Defense Laboratory in San Francisco.

Louis Witten has been named professor and head of the physics department at the University of Cincinnati.

Director of the scientific mission to the French Embassy in the US, **Maurice Lévy**, has become part-time visiting professor in the center for theoretical physics, University of Maryland.

W. Barclay Jones has become vice-

president of research and technical director at Nuclear Equipment Corp. He was formerly a senior scientist at Technical Measurement Corp.

Charles P. Slichter has become professor in the center for advanced study at the University of Illinois.

American Science and Engineering Inc has appointed **Riccardo Giacconi** senior vice-president.

Henry A. Gerardo, formerly with General Electric missile and space division, has become president of Universal Signal Corp.

John McLucas, president of the MITRE Corp, has joined the Defense Science Board of the Department of Defense. **Stephen J. Lukasik** has become deputy director of the Advanced Research Projects Agency.

The department of materials science, State University of New York at Stony Brook, has appointed **John C. Bilello** from General Telephone and Electronics assistant professor and **Herbert R. Carleton** from Sperry Rand associate professor.

Russell F. Bjorklund has received a dual appointment as associate professor of physics and of biological sciences at the University of Utah.

David L. Anderson, professor at Oberlin College, has received a science faculty fellowship from the National Science Foundation for 1968-69. He will be on sabbatical leave for the year at the University of Edinburgh in Scotland.



BREIT

At the State University of New York at Buffalo **Gregory Breit**, presently at Yale, will become distinguished professor in June. **Juergen Heberle**, formerly at Clark University, was appointed associate professor. Also appointed were **Yung-Chang Lee**, associate professor, **David A. Evans**, **Michael Ram**, **Marvin Resnikoff** and **Arvind Vaidya**, assistant professors.

Anthony P. van den Heuvel has become manager of the reliability and advanced-devices section at IIT Research Institute.

R. Kent Honeycutt has joined the Indiana University astronomy department as assistant professor.

At Aerojet-General Corp **Mani L. Bhaumik** has joined the electronics division as senior physics specialist, and **George L. Clark** has joined the laser research and development staff.

Kurt E. Shuler, senior research fellow at the National Bureau of Standards, has been named professor and head of the chemistry department at the University of California, San Diego.

John K. Major, former senior staff associate in the science development program at the National Science Foundation, has become dean of the graduate school and professor at the University of Cincinnati.



MAJOR

Richard Fedder from General Electric Research and Development Center has been appointed associate professor. Visiting professors for 1967-68 are **P. K. Kabir** of the Rutherford High Energy Laboratory and **K. Eriksson** of the University of Gothenburg.

New appointments as Los Alamos Scientific Laboratory are **Emile A. Bernard**, **Douglas W. Muir** and **Norris A. Nickols** in the weapons-physics division; **Philip M. Blood**, **James R. Nix** and **Walter D. Barfield** have joined the theoretical-physics division. **Dante Stirpe** is a member of the explosives-research division and **Barry K. Barnes** is with the reactor-development division.

Elected as officers of the Electron Microscopy Society of America for 1968 are **John H. Luft**, of the University of Washington Medical School in Seattle, president, **W. C. Bigelow** of the University of Michigan, president-elect, **John F. Hamilton** of Eastman

Rugged and small. That's a Bendix magnetic electron multiplier for you. How rugged? It's impervious to ambient atmosphere. You can even wash it with common, grit-free cleaners. That's how tough the glass field and dynode strip coatings are.

How sensitive? To the extreme ends of the electromagnetic spectrum. Including the hard ultraviolet range unattainable by other detectors. Tungsten cathodes, unaffected by visible and near ultraviolet radiation, allow broad use as a windowless, solar-blind detector for far ultraviolet and soft X-rays. Detection and counting of photons, ions, neutral particles and nuclear radiation, too.

Spectral response? 1500 Å to below 2 Å, with current gain reaching 10^8 . Rise time exceeds 5 nanoseconds. Maximum dark current is 1 picoamp.

Other models are available, too. All rugged and as compact as can be. And that makes them naturals for rocket probes.

Power supply? Our matching Bendix Model 1122 is solid state for assured constant voltage and minimum maintenance.

More questions? Write: Scientific Instruments and Vacuum Division, The Bendix Corporation, 3625 Hauck Road, Cincinnati, Ohio 45241. Or phone (513) 772-1600.

Bendix makes rugged electron multipliers this small.

Who could ask for anything less?



Specifications	Model M 306	Model M 308	Model M 310/310B	Model M 303	Model M 312-1/312-R
Direction of view	side	end	side	end	side
Spectral response	10^8	10^8	10^8	10^8	10^8
Operating press. max. torr	5×10^{-4}	1×10^{-4}	1×10^{-4}	1×10^{-4}	1×10^{-4}
Length, max. inches	4	$2\frac{1}{2}$	$2\frac{1}{2}$	5	$2\frac{1}{2}$
Height, max. inches	.81	.93	.80	1.62	1.05
Width, max. inches	1.32	1.29	.69	$4\frac{1}{8}$	.69
Weight, nom. oz.	$4\frac{1}{2}$	2	$2\frac{1}{2}$	16	3



Kodak, treasurer and **Thomas P. Turnbull**, membership secretary.

McElroy Receives Award For Geophysical Discoveries

The Seventh James B. Macelwane Award was presented to Michael B. McElroy of Kitt Peak National Observatory near Tucson, Arizona, at the annual meeting of the American Geophysical Union. This award is given each year to a young scientist who gives outstanding promise with regard to geophysical research.

McElroy's studies have involved the physics of the atmospheres of four of the planets of the solar system. From his general theory of planetary atmospheres that successfully describes features of the upper atmosphere of the earth, Venus, Mars and Mercury, he discovered a new ionization process utilizing a metastable state of oxygen. He predicted the presence of unstable CO_2 molecules in the atmosphere of Venus that would prevent the buildup of free oxygen; initial results of the Mariner V flyby confirm this prediction.

James B. Macelwane was president of the American Geophysical Union at the time of his death in 1956, as well as dean of the Institute of Technology at St. Louis University.

R. Norman Jones Honored with Spectroscopy Society Award

R. Norman Jones of the National Research Council, Ottawa, Canada, has won the 1968 Spectroscopy Society of Pittsburgh Award. Jones received this award for his outstanding research in ultraviolet and infrared absorption

spectroscopy and its use in the elucidation of the molecular structure of organic materials. He has introduced computer techniques for the recording and interpretation of spectra.

Astronomical Society Prize Presented to Frank J. Low

The council of the American Astronomical Society has awarded the 1968 Helen B. Warner Prize for Astronomy to Frank J. Low. Awarded annually for a significant contribution to astronomy during the previous five years, the



LOW

prize honors Low for developing and putting into operation new and improved detection devices. It also recognizes his fundamental observations in the radiometry and spectroscopy of planets from 4 to 20 microns, of subluminescent star-like objects and of quasistellar objects in the infrared, and the extension of stellar photometry to 20 microns. Low is part-time research professor at the Lunar and Planetary Laboratory of the University of Arizona and part-time professor of space science at Rice University. He will present a paper on the subject for which the prize was granted at a meeting designated by the council.

Ohio State Spectroscopist Robert V. Zumstein Dies

Robert V. Zumstein, emeritus associate professor at Ohio State University, died of a heart attack on 28 Dec. at the age of 72. After receiving his PhD from the State University of Iowa in 1924, he was a National Research Council fellow at the University of Michigan until 1926. Zumstein, who was active in atomic, molecular and x-ray spectroscopy, joined Ohio State as an instructor in 1927. He was promoted to assistant professor in 1932

and was associate professor from 1942 until his retirement last June.

Nicholas Mostovych Worked With Thin Metallic Films

Nicholas Mostovych of the University of Louisville physics department was killed in an automobile accident 19 Jan. near Shelbyville, Kentucky. He was returning from Paris, where on sabbatical he had been doing research in high-pressure solid-state physics at the Sorbonne.

Mostovych was a native of the

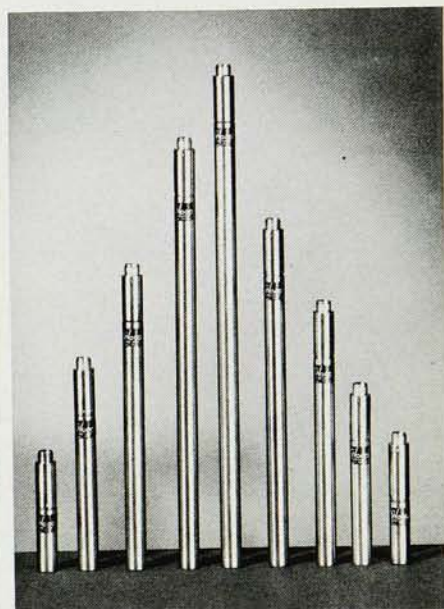
N. WOOD RADIATION DETECTORS

TWENTY YEARS OF DESIGNING
AND MANUFACTURING

BF₃ FILLED NEUTRON PROPORTIONAL COUNTER TUBES

GM-COSMIC RAY COUNTER TUBES

LONG LIFE PROPORTIONAL GAMMA COUNTER TUBES



1/4" to 2 1/2" Diameter,
Active Lengths 1/4" to 45",
As Specified

Specifications vary with size
and fill pressure and can be
provided upon request.

Our unqualified guarantee
speaks for the quality and
dependability of our
counter tubes.

Send for our brochure

N. WOOD
COUNTER LABORATORY, INC.
1525 E. 53rd ST. • CHICAGO, ILL. 60615