

SENIOR PHYSICISTS

The physics section of the Advanced Materials Research and Development Laboratory of Pratt and Whitney Aircraft, a scientific laboratory located in the New Haven, Connecticut area, is presently seeking several scientists with advanced degrees who can carry on company-funded research in any one of the following areas . . .

- SOLID STATE
- SURFACE PHYSICS
- PLASMAS

. . . in connection with energy conversion and propulsion. Directly related experience, although not required, would be highly desirable.

We believe these career positions will be of unusual interest to the scientist who desires a professional atmosphere of growth and accomplishment. Ample opportunity will be given for publication of papers.

If you wish to discuss this opportunity during the New York meeting, contact Mr. W. M. Walsh through the Placement Register or write in full professional confidence, including resume, to Dr. H. D. Vasileff, Pratt & Whitney Aircraft, North Haven, Connecticut.

**Pratt &
Whitney
Aircraft**

**U
A**

DIVISION OF UNITED AIRCRAFT CORP.

An Equal Opportunity Employer, M & F

WE HEAR THAT

Julius A. Stratton has been elected chairman of the Ford Foundation board of trustees. Dr. Stratton will retire this June as president of the Massachusetts Institute of Technology,



STRATTON

where he has previously served as professor of physics, provost, and chancellor. A trustee of the Ford Foundation since 1955, he is also a member of the National Science Board.

Santiago Polo, formerly with the technical staff at RCA Laboratories, has been appointed a professor in the Physics Department at the Pennsylvania State University. New associate professors in the department include Harry A. Atwater, formerly associate professor of electrical engineering at Penn State, Thumas E. Feuchtwang, formerly assistant professor of physics at University of Minnesota, Clifford R. Schumacher, previously post-doctoral fellow at University of Chicago, and George D. Whitfield, formerly assistant professor of physics at Princeton University. Daniel R. P. Eastman, formerly professor of physics at Houghton College, Gordon N. Fleming, formerly research assistant professor at University of Washington, Norman Freed, previously post-doctoral fellow at the Institute of Theoretical Physics in Copenhagen, and Reinhard Graetzer, formerly instructor of physics at the University of Wisconsin, have been named assistant professors in the Penn State Department.

Joseph T. Ratau, formerly associated with the City University of New York, has been named professor of physics and chairman of the Division of Physical Sciences at the State University College at New Paltz, N. Y.

Helmuth E. Dost, who recently received his PhD in physics from the University of California, has joined the staff of the Center for Naval Analyses.

Julius L. Jackson and Harold Mendlowitz, formerly of the National Bureau of Standards, have joined the Howard University Department of Physics as professors. Solomon J. Glass and Lewis S. Klein, also formerly with NBS, have been named associate professors in the department, and Solomon Kendrick and Joseph C. Paige have been promoted from instructors to assistant professors.

James A. Dreesen, previously assistant professor of physics at Carnegie Institute of Technology, has joined the University of Wyoming Physics Department as an associate professor. Juergen M. Schroeder, formerly of the School of Electrical Engineering of Cornell University, has been named an assistant professor in the Wyoming department.



KRUSKAL



PYLE

Martin D. Kruskal of Princeton University and Robert Pyle of Lawrence Radiation Laboratory have been named by the US Atomic Energy Commission to conduct research in the USSR under the Soviet-US exchange program. Dr. Kruskal, a theoretical physicist on the staff of Princeton's Plasma Physics Laboratory, is spending three months at the

Lebedev Physics Institute in Moscow, while Dr. Pyle, an LRL experimental physicist, is spending six months at the Physico-Technical Institute at Kharkov.

Glover S. Colladay, formerly assistant technical director and head of the Weapons Planning Group at the US Naval Ordnance Test Station, has joined the Center for Naval Analyses as director of the surface effects ships project.

Completely New Model 550 Scintiscope 100-Channel Analyzer

(A complete nuclear laboratory)



30 YEARS
OF SCIENTIFIC
ACHIEVEMENT

Priced from \$4595.

Featuring:

- Spectrum Stabilization*
- Dual Single-Channel Analyzers*
- Three Digital Integration Channels*
- 5-inch Oscilloscope Screen
- Built-in High Voltage Power Supply

* (optional)

5" OSCILLOSCOPE
with Polaroid camera attachment for making permanent records of displayed data; large, easy to view, visual display.

INFORMATION
displayed can be viewed during build up or statically after it has been accumulated.

DWELL Times (multi-scaling mode)
A wide range of dwell time choices are available from 0.6ms to 1000 minutes determined by a front panel switch.

PRESET Count Mode
A choice of four preset count ranges determined by a front panel switch

PRESET Count & Preset Time
Override feature

CHANNEL SELECTION

3 DIGITAL
Integration Channels

The area under the accumulated curve can be integrated in any three arbitrary areas. A simple set of front panel thumbwheel switches sets the areas to be integrated.

SPECTRUM STABILIZER

DIGITAL Spectrum Stabilizer eliminates the need for day-to-day recalibration. Set the stabilizer for the isotope to be counted and be assured of reproducibility without recalibration.

SINGLE CHANNEL ANALYZER #1

BOTH inputs accumulated simultaneously and displayed on 5" oscilloscope individually or overlapped. Both can be plotted on a single pen recorder. (multi-scaling mode)

SINGLE CHANNEL ANALYZER #2

DUAL
Amplifiers with individual coarse and fine gain controls

DUAL
Analyzers with individual lower level and window controls

HIGH VOLTAGE

DUAL Output High Voltage Supply designed with the stability required for precise scintillation counting.

SPECTRUM EXPANDER

Multi-Channel Mode

— Obtains energy spectra from a radiation detector; can be operated in single cycle or recycle mode.

Multi-Scaler Mode

— Counts and stores the number of pulses that fall within a preselected energy range as a function of time.

Read-out Mode

— In both the multi-channel and multi-scaler mode, the readout can be destructive or non-destructive.

Read-out Options

— 8 column paper tape printer, paper tape punch, strip chart recorder, x-y plotter.

Scale Expander

— Four ranges of X1 — X2 — X5 — X10. In the X2-mode, any 50% region of spectrum can be reaccumulated and stored in 100 channels, X5 — any 20% region, X10 — any 10% region. Automatic sweep mode allows analyzer to accumulate in a 10% region, readout, advance to next region, and repeat the cycle automatically to give effectively up to 1000 channel resolution, stepped 100 channels at a time.

Read-in Options

— Data accumulated and stored on paper tape punch can be read back into the memory and redisplayed for further investigation. The read-in mode can also be used for automatic background subtract.

SYSTEM MODE



SCINTISCOPE
MODEL 550 100-CHANNEL ANALYZER

15 3/8"

ATOMIC AND LABORATORY INSTRUMENTS DIVISION

33 UNIVERSITY ROAD, CAMBRIDGE, MASSACHUSETTS 02138, Telephone: 617 864-7420

OFFICES: ATLANTA BOSTON CHICAGO DALLAS DETROIT LOS ANGELES NEW YORK PHILADELPHIA PITTSBURGH SAN FRANCISCO WASHINGTON, D.C.
EUROPE: BAIRD-ATOMIC (EUROPE) N.V. 26-27 VEENKADE, THE HAGUE, HOLLAND



BAIRD-ATOMIC

Photographic Scientists / Photogrammetrists

Our client, a leader in its field, offers excellent opportunities in the following categories:

Optical, Photographic, Photo-Optical Research Scientists

Work on fundamental and applied problems in all aspects of photographics, physical and geometrical optics, and those areas of scientific interface relating optics and the photographic process. Qualified persons should be strong in theoretical aspects, yet familiar with experimental procedures.

Photographic Scientists and Photo Systems Analysts

For these positions, a familiarity with microdensitometry, photochemistry and photo-optics is desired.

Photogrammetrists

Math through Calculus desired. Experience in Analytical Photogrammetry particularly desirable.

Salary Commensurate with Qualifications.

U.S. Citizenship required.

Please send resume to Mr. P.A. James.

GAYNOR & COMPANY, INC.
Management Consultants
850 Third Avenue,
New York, N.Y. 10022

Stephen F. Jacobs, formerly senior physicist with TRG, Inc., has become a research professor at the Optical Sciences Group at the Steward Observatory in the University of Arizona. Robert H. Noble and Roland V. Slack, former senior engineers with Perkin-Elmer Corporation, have been named research professor and associate professor, respectively, in the Arizona Group.

Garman Harbottle, previously of Brookhaven National Laboratory, has been named director of the Division of Research and Laboratories at the International Atomic Energy Agency.

Everett D. Palmatier, former chairman of the Department of Physics at the University of North Carolina at Chapel Hill, has been named vice chancellor for advanced studies and research. Professor Eugen Merzbacher has been appointed acting chairman for 1965-66 of the UNC Department. Recent promotions include C. V. Briscoe, formerly assistant professor, and E. N. Mitchell, previously visiting associate professor, to associate professors, and T. W. Noonan, formerly visiting assistant professor, to assistant professor in astronomy. G. S. Khandelwal, previously a graduate student in the UNC Physics Department, has been appointed an instructor. New research associates are Michel F. Baud, a former graduate student at Florida State University, and Klaas de Groot, former instructor at Ryks University in Holland. New research associates at the UNC Institute of Field Physics include Peter W. Higgs, former lecturer at the Tait Institute of the University of Edinburgh, and Heinz R. Pagels, a recent PhD from Stanford University.

B. S. Chandrasekhar, professor of physics at Western Reserve University, has been appointed chairman of the Department. John D. McGervey has been promoted from assistant professor to associate professor in the Department. New appointments at Western Reserve include Donald K. Robinson, associate physicist at Brookhaven National Laboratory, who will join the Department in July as an associate professor, Mitsuo Muraoka, associate professor of physics

at the University of Osaka, who is a visiting professor this year, J. G. Adler, a former postdoctoral fellow at Western Reserve, and Jonathan F. Reichert, former postdoctoral fellow at Harvard University, who have joined the Department as assistant professors, and James C. Erskine of Western Reserve, who was named an instructor. Postdoctoral appointments include Virginia F. Walters and Clyde B. Bratton of Western Reserve, Walter Carnahan of New York University, David E. Farrell of the University of London, Peter J. Iano of the University of Pittsburgh, and Dharendra P. Mathur of the Franklin Institute. On sabbatical leave this year are professor John K. Major, who is with the National Science Foundation Division of Institutional Programs, and professor Gerald E. Tauber, who is visiting professor at Tel Aviv University. Professor Paul R. Ziesel will return in January from a year's sabbatical at Princeton University.

Jean J. H. Berlijn and James W. Ryan of Los Alamos Scientific Laboratory and University of Rochester, respectively, have joined the Idaho State University Physics Department as assistant professors.

Edward I. Salkovitz, former head of the Metal Physics Branch at the Naval Research Laboratory, has been appointed professor of physics and metallurgical engineering at the University of Pittsburgh. Frank Tabakin, previously research associate at Columbia University, has been named assistant professor of physics at Pittsburgh. Visitors to Pittsburgh's Physics Department in 1965-66 include visiting associate professors Stanley Clough (University of Nottingham) and Ernst W. Hamburger (University of Sao Paulo); and visiting assistant professors Moo-Young Han (Syracuse University) and Raymond S. Willey (University of Washington, Seattle).

The following appointments have been made in the Brown University Department of Physics. John J. Quinn, former visiting professor at Purdue University, has been named professor. New assistant professors include Yong-Son Jin of the Institute

for Advanced Study, **Joseph T. Masimo**, recently returned from a year of research at the University of Padova, **T. N. Truong**, former research associate at Columbia University, **Robert A. Schwartz** of the Institute for Space Studies, and **Humphrey J. Maris**, former research associate at Case Institute of Technology. New research associates at Brown include **Gilbert Barton** (PhD, University of Utah, 1964), **Stephen G. Bishop** (PhD, Brown, 1965), **Michael P. Greene** (PhD, University of California at La Jolla, 1965), **Konrad Hayek** (PhD, University of Innsbruck, 1963), **David Kline** (PhD, Brown, 1964), **Emilio Metatagui** (PhD, Universidad de Buenos Aires, 1965), and **Rajandar K. Mohindra** (PhD, Aligarh Muslim University, 1963). Visitors to the Brown Physics Department during 1965-66 include Dr. **M. J. Sparnaay** of Philips Laboratories, associate professor **John B. Brackenridge** of Lawrence University, and assistant professor **Peter D. Jarman** of the University of Western Australia. **George M. Seidel** has been promoted from assistant professor to associate professor in the department.

Julius S. Miller, professor of physics at El Camino College in California, recently recorded for the British Broadcasting Corporation a 40-minute TV memorial lecture on Isaac Newton.

Charles W. Misner, associate professor of physics at the University of Maryland, has been named the state's "outstanding young scientist" by the Maryland Academy of Sciences. Dr. Misner was cited for his contributions to general relativity theory and its applications to astrophysical problems.

Morris E. Rose has been named Robert C. Taylor Professor of Physics and **John W. Mitchell** named William Barton Rogers Professor of Physics at the University of Virginia. Promotions in the Virginia Physics Department include **Judah M. Eisenberg**, from assistant to associate professor, and **Jean LeTourneux**, from research associate to assistant professor. New appointments include **Bascomb S. Deaver, Jr.**, formerly Research Institute physicist at Stanford Univer-

sity, as associate professor; and **Hugh P. Kelly**, formerly lecturer at the University of California, and **Martin J. Zuckermann**, previously research associate at the University of Chicago, as assistant professors. New research associates are **Hans L. Acker** of the University of Freiburg, **Davy L. Bernard** of Rice University, and **Varadarajn Devanathan** of the University of Madras.

Ta-You Wu, former research professor of physics at Polytechnic Institute of Brooklyn, has been appointed professor of physics at the State University of New York at Buffalo. **Robert P. Hurst** has been promoted from assistant professor to associate professor in the Buffalo Physics Department.

John T. McCormack, formerly professor of metallurgical engineering at Clemson University, has been named visiting professor of physics at Indiana State University.

J. T. Fourie, former chief research officer at National Physical Laboratory, Pretoria, South Africa, has joined the Physics Department of General Motors Research Laboratories as senior research physicist.

Frederick Rothwarf, research physicist at Frankford Arsenal, has received a US Army Research and Study Fellowship for a year at the University of Paris, Orsay, France.

William L. Kraushaar, former professor of physics at the Massachusetts Institute of Technology, has joined the University of Wisconsin Department of Physics as professor and head of its space science group. **Loyal Durand III**, former assistant professor of physics at Yale University, has been named professor in the Wisconsin department and head of its theoretical physics group. **Frank Scherb**, previously assistant professor of physics at MIT, has been appointed an associate professor in space physics at Wisconsin. New assistant professors include **William M. Yen**, former research associate at Stanford University, and **Paul R. Moran**, former research associate at the University of Illinois. **James J. Griffin**, on a year's leave of absence from Los Alamos Scientific Laboratories, is serving as a

visiting lecturer. Promotions in the Wisconsin Physics Department include **John R. Cameron**, **Marvin E. Ebel**, **Albert R. Erwin**, and **Maurice B. Webb**, from associate to full professors; **Robert H. March**, from assistant to associate professor; **Vernon D. Barger** and **David B. Cline**, from research associates to assistant professors; and **David L. Huber**, from instructor to assistant professor.

Robert Warnock and **Earl Zwicker** have been promoted from assistant to associate professors in the Illinois Institute of Technology Physics Department. New appointments at IIT include **Ray Burnstein** and **Harold Weinstock**, previously assistant professors of physics at the University of Maryland and Michigan State University, respectively, as associate professors. **Arthur Harris**, a recent graduate of Northwestern University, as assistant professor, **Esther Segel**, formerly of Argonne National Laboratory, as visiting assistant professor, **James Boyd**, a recent graduate of the University of Wisconsin, as instructor, **S. Matthew Prastein**, a recent IIT graduate, as visiting assistant, and **H. Latal**, formerly of the University of Graz, **G. Jirgal**, formerly a graduate student at IIT, and **J. Chrysochoos**, previously a postdoctoral fellow at Harvard University, as research associates.

Walter J. C. Grant, formerly of Bell Telephone Laboratories, has joined the Wayne State University Physics Department as an associate professor. New assistant professors include **David M. Fradkin**, formerly a NATO postdoctoral fellow at the University of Rome, **Richard M. Spector**, previously with the University of Rochester and the National Science Foundation, and **David J. Tanner**, formerly of the University of Chicago.

Joseph V. Martinez, formerly of the Xerox Corporation, has been appointed associate professor of physics at St. John Fisher College in Rochester, N. Y.

General **Ernest A. Pinson** has been promoted from deputy commander to commander of the Air Force Office of Aerospace Research.