

CALENDAR

Information in the calendar is compiled from a file maintained in the PHYSICS TODAY office. Readers are invited to write or telephone for information beyond what we print. The date at the end of each item refers to the issue of PHYSICS TODAY in which the item is listed with more detail than appears in subsequent issues.

ABBREVIATIONS: APS, American Physical Society; OSA, Optical Society of America; ASA, Acoustical Society of America; S of R, Society of Rheology; AAPT, American Association of Physics Teachers; ACA, American Crystallographic Association; AAS, American Astronomical Society; AEC, US Atomic Energy Commission; IEEE, Institute of Electrical and Electronics Engineers; IUPAP, International Union of Pure and Applied Physics; NBS, National Bureau of Standards; ORNL, Oak Ridge National Laboratory.

CODING of each item is as follows: date subject ☐ HOST ☐
Location (Contact) [submission deadline] PT ref.

• new listing ♦ new information

NOVEMBER 1967

1-3 Plasmas in Open-Ended Geometry ☐ ORNL ☐ Gatlinburg, Tenn. (Conference Chairman, ORNL) 6/67

1-3 Northeast Electronics Research and Engineering Meeting ☐ IEEE ☐ Boston (E. Witche) 10/67

1-3 Diffraction ☐ MELLON INSTITUTE ☐ Pittsburgh (S. Diamond) [9/11] 6/67

1-3 Circuits and Systems ☐ IEEE ☐ Pacific Grove, Calif. (S. R. Parker) [9/1] 7/67

3, 4 ☐ AAPT TEXAS SECTION ☐ Sherman, Tex. (V. E. Bottom) 7/67

4 ☐ AAPT-MICHIGAN SECTION ☐ Grand Valley State College, Allendale, Mich. (D. W. Stebbins) 10/67

4 Midwest Solid State Conference ☐ U. OF MISSOURI ☐ Columbia, Mo. (E. B. Hensley) 9/67

6, 7 Photopolymers ☐ SOCIETY OF PLASTIC ENGINEERS ☐ Ellenville, N. Y. (J. M. Schiller) 6/67

6-8 Applied Superconductivity ☐ AEC ☐ Austin, Tex. (W. H. Hartwig) [8/7] 6/67

6-8 Reliability Physics ☐ IEEE ☐ Los Angeles (G. T. Jacobi) [6/15] 7/67

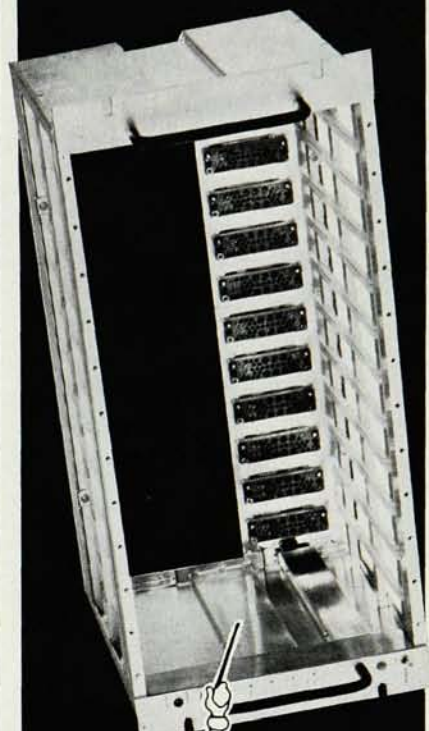
8-10 Characterization of Materials ☐ U. OF ROCHESTER ☐ Rochester, N. Y. (G. J. Su) 9/67

8-11 Plasma Physics ☐ APS ☐ Austin, Tex. (W. E. Drummond) [9/30] 8/67

13-15 Thermal Conductivity ☐ NBS ☐ Gaithersburg, Md. (D. R. Flynn) 10/67

14-16 Computers ☐ AMERICAN FEDERATION OF INFORMATION PROCESSING SOCIETIES ☐ Anaheim, Calif. (H. T. Larson) [4/14] 7/67

Maximized Value... Instrument Bins



WITH NYLON
GLIDE GUIDES

- Model 150 Instrument Bin \$74.00
- Model 151 Instrument Bin wired with connectors \$245.00
- Model 152 Instrument Bin and Class B Power Supply \$560.00

Quantity Discounts Available
Delivery from Stock

Interested?

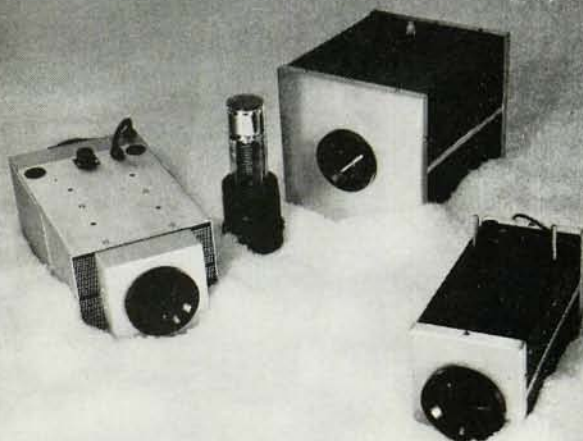
CALL COLLECT

Area Code 312 344-2212

MECH-TRONICS NUCLEAR CORP.

1723 North 25th Avenue
Melrose Park, Illinois 60160

Some like it cold!



Low-light-level specialists* use our Thermoelectric and Dry-Ice PM Tube Coolerators.

Completely interchangeable tube sockets permit end window tube type and custom dynode networks to be used with any PFR cooling chamber. In astronomy, spectrophotometry, scintillation counting and biology applications, these versatile chambers permit maximum dark current reduction for optimum data.

Continuous cooling and automatic temperature stabilizer circuitry (TE-102TS) allow remote station operation. The water cooled TE-104 is

ideal for laboratory use and a dry-ice unit (TE-200) loads from top to eliminate need for disassembly when adding coolant. Continuous operation plus gain stability and dew-free, frost-free operation is available in the series shown above.

Whatever your requirements for PM tube cooling, Products for Research offers a well-designed, readily available solution. Design specifications, performance data and prices sent on request.

*We call them customers

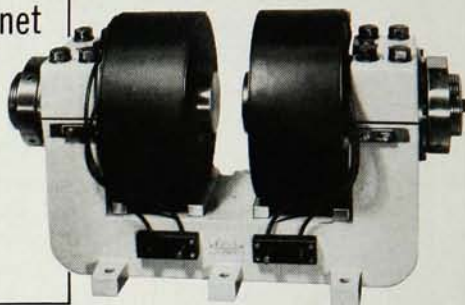


Products for Research, Inc.
57 North Putnam Street Danvers, Massachusetts
(617) 774-3250

Laboratory Electromagnets

4 in. Electromagnet Type A

In use
all over
the world
for every type
of application.



Also available

1½ in. and 7 in. Electromagnets
Magnet Power Supplies
Magnetometers
Magnetic Susceptibility
Measuring Systems

Sole distributors for Continental U.S.A.

NORTH HILLS ELECTRONICS INC.
ALEXANDER PLACE, GLEN COVE,
LONG ISLAND, N.Y. 11542 U.S.A.
Telephone (516) OR 1-5700



Newport Instruments

Full details from

Newport Instruments Ltd.
Newport Pagnell, Buckinghamshire, England

NAME _____

ADDRESS _____

FOR PURITY OF SPECTRA FROM YOUR DIFFRACTION EQUIPMENT

...the **DUNLEE**
4-PORT BERYLLIUM
WINDOW X-RAY
DIFFRACTION TUBES
cannot be surpassed



Dunlee recognizes that purity of spectra is a prime criterion of quality in diffraction study. The design of the DUNLEE diffraction tube is such that the x-ray spectrum remains free of contamination throughout the life of the tube. This tube also allows closer camera work to any of eight different target materials.

*Descriptive literature is
available on request.*



CORPORATION

DEPT. K, 1023 S. CERNAN DRIVE • BELLWOOD, ILLINOIS 60104
Telephones: Bellwood: Linden 7-9535 • Chicago: Columbus 1-6931

1066

NOVEMBER 1967

- 14-17 ☐ ASA ☐ Miami, Fla. (J. C. Steinberg) 12/66
- 16-18 ☐ APS ☐ New York City (W. W. Havens Jr) 12/66
- 18 ☐ AAPT IOWA SECTION ☐ Iowa City (G. W. Bowen) 7/67
- 18 ☐ AAPT NORTHERN CALIFORNIA SECTION ☐ Arcata, Calif. (L. M. Clendenning) 9/67
- 20-22 Fluid Dynamics ☐ APS ☐ Bethlehem, Pa. (P. S. Klebanoff) [10/5] 7/67
- 20-22 Beam Foil Spectroscopy ☐ U. OF ARIZONA ☐ Tucson, Ariz. (S. Bashkin) [9/15] 10/67

DECEMBER 1967

- 1, 2 ☐ AMERICAN ASSOCIATION OF PHYSICISTS IN MEDICINE ☐ Chicago (J. R. Cameron) [10/1] 6/67
- 1, 2 π N Scattering ☐ U. OF CALIF. ☐ Irvine, Calif. (G. L. Shaw) 7/67
- 4 (through 20 Jan.) Quantum Chemistry, Solid-State Physics and Quantum Biology ☐ U. OF FLORIDA-U. OF UPPSALA ☐ Gainesville, Fla. (Winter Institute, U. of Florida) [10/1] 8/67
- 5-7 ☐ AAS ☐ Philadelphia (G. C. McVittie) 2/67
- 18-20 ☐ APS ☐ Pasadena, Calif. (W. Whaling) 9/67
- 18-20 • Nature of the Excited States of Organic Molecules ☐ U. OF CALIFORNIA ☐ Riverside, Calif. (Symposium on Nature of Excited States, Chem. Dept., U. of California, Riverside, Calif. 92502) [11/20] 11/67

Topics for discussion include: development of new spectroscopic methods for characterizing the properties of triplet-state molecules, new types of electric transitions in composite electronic systems, application of quantum chemistry to the prediction of the reactivity of electronically excited molecules, chemical transformations of electronically excited molecules, and relation between excited-state chemical reactions and spectroscopic characterization of excited states.

- 26-30 ☐ AAAS ☐ New York (R. L. Taylor) 9/67

JANUARY 1968

- 3-6 Solid-State Physics ☐ IPPS ☐ Manchester, England (Meetings Officer, IPPS) [10/27] 8/67
- 24, 25 Health Physics ☐ HEALTH PHYSICS SOCIETY ☐ Augusta, Ga. (J. H. Horton) [10/16] 8/67
- 29-31 Laser Safety ☐ US PUBLIC HEALTH SERVICE-CHILDREN'S HOSPITAL RESEARCH FOUNDATION ☐ Cincinnati, Ohio (Mrs. M. S. Runck) 10/67
- 29-31 Photosensitization in Solids ☐ AIR FORCE CAMBRIDGE RESEARCH

LABORATORIES ☐ Tucson, Ariz. (N. F. Yannoni) 10/67

- 29-1 ☐ APS ☐ Chicago (R. G. Sachs) 12/66
- 29-1 ☐ AAPT ☐ Chicago (S. S. Ballard) 2/67
- 29-2 Measurement Engineering ☐ ARIZONA STATE U. ☐ Tempe, Ariz. (P. Stein) [1/19] 10/67

FEBRUARY 1968

- 1-3 Solar Astronomy ☐ AAAS ☐ Tucson, Arizona (N. Sheeley) [12/7] 9/67
- 4-7 ☐ ACA ☐ Tucson, Ariz. (D. H. Templeton) 9/67
- 5-7 ☐ S of R ☐ San Diego, Calif. (J. F. Johnson) 9/67
- 14-16 Solid State Circuits ☐ IEEE ☐ U. of Pennsylvania, Philadelphia (R. Webster) [10/23] 10/67
- 23,24 • Nuclear Conference ☐ U. OF SASKATCHEWAN ☐ Regina, Saskatchewan, Canada (Physics Dept., U. of Saskatchewan, Regina, Saskatchewan, Canada) 11/67
- 26,27 • Gas Phase Molecular Structure U. OF TEXAS ☐ Austin, Tex. (H.P. Hanson, Center for Structural Studies, U. of Texas, Austin, Tex. 78712) [12/15] 11/67

Emphasis will be on studies of molecular structures and dynamics by electron diffraction and microwave spectroscopy.

- 26-28 ☐ APS ☐ Boston (W. W. Havens Jr) 9/67
- 26-29 Elementary Particles ☐ INSTITUT FÜR THEORETISCHE PHYSIK DER UNIVERSITÄT GRAZ ☐ Schladming, Styria, Austria (H. Kühnelt) 10/67
- 26-1 Lasers and Their Engineering Applications ☐ U. OF CALIFORNIA EXTENSION ☐ Berkeley, Calif. (Head Engineering Extension) 10/67
- 28-1 Scintillation and Semiconductor Counters ☐ AEC-IEEE ☐ Washington, D. C. (G. A. Morton) [11/7] 8/67

MARCH 1968

- 4-7 Neutron Cross Section and Technology ☐ APS-AEC-NBS ☐ Washington, D. C. (D. T. Goldman) [12/1] 8/67
- 5-8 Nuclear Electronics and Radioprotection ☐ CENTRE DE PHYSIQUE ATOMIQUE ET NUCLÉAIRE DE LA FACULTE DES SCIENCES ☐ Toulouse, France (Faculté des Sciences) [10/15] 10/67

Maximized Value... Preamplifiers



Consider:

- Model 401 FET Preamplifier: Noise contribution-Gas Detectors 2×10^{-16} coulomb rms; X-Ray Scintillation—for 6 Kev X-Ray less than 1 Kev; Silicon Detectors—13 Kev FWHM at 10 p^f (slope 0.25 Kev/p^f) \$115.00
- Model 402 Lo-Noise Preamplifier: Noise contribution—For Ge(Li) 1.8 Kev at 10 p^f capacitance (slope of 0.04 Kev/p^f); Rise-time change $< 70 \text{ ns}$ from $0-1000 \text{ p}^f$; Gain change $< -4\%$ from $0-1000 \text{ p}^f$ \$275.00
- Model 450 Series: Probe assemblies for Gamma and X-Ray Scintillation Detectors—ask for details.

Interested?

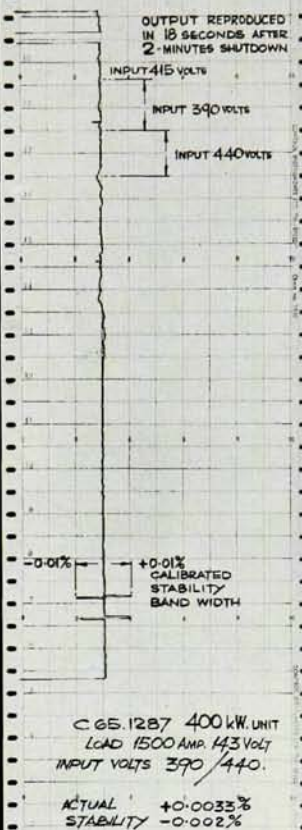
CALL COLLECT



AREA CODE 312

344-2212

MECH-TRONICS NUCLEAR CORP.
1723 North 25th Avenue
Melrose Park, Illinois 60160



BRENTFORD REGULATED RECTIFIERS

NINA, the latest 4 GEV Synchrotron at the Daresbury Nuclear Physics Laboratory, England, demands DC supplies of up to 400 KW capacity stabilised long term to within 0.01% over an output range from 20% to 100%. BRENTFORD ELECTRIC have met this requirement by combining a DC Transistor Trimmer with their AC Voltage Regulating Transformer and producing an equipment with the following inherent features:—

ULTRA FAST RESPONSE—no excursion in DC output for AC step changes of 1%

CLOSE REPRODUCIBILITY—to within 0.01% twenty seconds after two minute shut down.

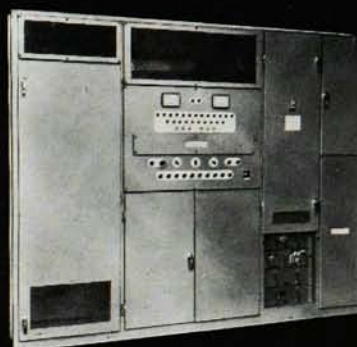
NEGLECTIBLE DC RIPPLE—500 milli volts at any setting.

NO AC HARMONICS

Send for further details and leaflet L21/66 to

BRENTFORD ELECTRIC LTD

Manor Royal, Crawley, Sussex, England. Phone CRAWLEY 27755. Telex 87252. Cables: BRECO CRAWLEY
A member of the GHP Group.



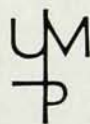
Erwin Schrödinger

An Introduction to His Writings

William T. Scott

Erwin Schrödinger is almost as well known for his speculative essays such as "What is Life?" as he is for his theory of wave mechanics, for which he won the Nobel Prize in 1933. In the first comprehensive study of Schrödinger's writings, Dr. Scott deals with both aspects of this broadly cultivated man, the scientist who opened a new era of physics and the philosopher who pondered deeply on the nature of man.

192 pages, cloth, \$6.50



**The University of
Massachusetts Press**
Munson Hall, Amherst, Mass.
01002

Research and Development

research engineer

Our Supercon Division is a leader in developing and producing superconductor niobium alloys for application in the field of physics research. Your degree may be in physics, chemical engineering, and your interest in applied R & D. Responsibilities include development of superconductive materials and processes, cryogenic and electrical testing and analysis, and applied research programs.

Reply in confidence, including a summary of your qualifications and salary requirements, to Mr. David Bohy, Personnel Officer.



NATIONAL RESEARCH CORPORATION
A SUBSIDIARY OF NORTON COMPANY
160 Charlemont Street, Newton, Massachusetts • 02161



An Equal Opportunity Employer.

MARCH 1968

- 12-15 ☐ OSA ☐ Washington, D. C. (M. E. Wurga) 9/67
- 18-21 ☐ APS ☐ Berkeley, Calif. (W. Whaling) 9/67
- 28-30 Low Luminosity Stars ☐ NATIONAL SCIENCE FOUNDATION-AAS ☐ U. of Virginia, Charlottesville, Va. (S. Kumar) 10/67

APRIL 1968

- 1-3 Heavy Particle Collisions ☐ IPPS ☐ Belfast, Ireland (Meetings Officer, IPPS) [9/29] 9/67
- 2-3 Semimetals and Narrow Gap Semiconductors ☐ IPPS ☐ Durham, England (Meetings Officer, IPPS) [1/5] 9/67
- 2-4 ☐ AAS ☐ Charlottesville, Va. (P. M. Routly) 9/67
- 3-5 Magnetism ☐ IEEE ☐ Washington, D. C. (J. M. Lommel) [12/15] 9/67
- 3-5 • Engineering Aspects of Magneto-hydrodynamics ☐ U. OF TENNESSEE SPACE INSTITUTE ☐ Tullahoma, Tenn. (L.E. Ring, MHD Symposium, ARO, Inc., Arnold Air Force Station, Tullahoma, Tenn. 37389) [11/27] 11/67

Areas of interest to this meeting include magneto-hydrodynamic power generation, magneto-hydrodynamic propulsion and accelerators, applications of superconductors, controlled thermonuclear plasmas, properties of plasmas, magneto-fluid mechanics, electromagnetic wave interactions with magnetoplasmas.

- 17-19 Structure Analysis ☐ IPPS ☐ U. of York, York, England (Meetings Officer IPPS) [1/5] 10/67
- 22-24 Thin Films ☐ IPPS ☐ U. of Southampton, England (Meetings Officer IPPS) [1/19] 10/67
- 22-24 Frequency Control ☐ US ARMY ELECTRONICS COMMAND ☐ Atlantic City, N.J. (M. F. Timm) [12/15] 10/67
- 22-25 ☐ APS ☐ Washington, D. C. (W. W. Havens Jr) 9/67

MAY 1968

- 8-10 Electronic Components ☐ IEEE-ELECTRONIC INDUSTRIES ASSOCIATION ☐ Wash., D. C. (F. M. Collins) [10/10] 10/67
- 8-11 • Technical Communications ☐ SOCIETY OF TECHNICAL WRITERS AND PUBLISHERS ☐ Los Angeles (B.P. Sauer, STWP-1968, International Hotel, 6211 West Century Blvd., Los Angeles, Calif. 90045) 11/67

Topics will be technical writing and editing, graphics and publication, data management and information science, and education and training.

- 12-18 Universal Aspects of Atmo-

spheric Electricity ☐ AIR FORCE CAMBRIDGE RESEARCH LABORATORIES ☐ Tokyo (Capt. J. H. Shock) 10/67

- 13-17 Applied Spectroscopy ☐ SOCIETY FOR APPLIED SPECTROSCOPY ☐ Chicago (E. Lanterman) [1/15] 10/67

- 14-17 Quantum Electronics ☐ JOINT COUNCIL ON QUANTUM ELECTRONICS ☐ Miami, Fla. (R. W. Terhune) [1/8] 10/67

- 27-31 Thermionic Electrical Power Generation ☐ EUROPEAN NUCLEAR ENERGY AGENCY ☐ Stresa, Italy (European Nuclear Energy Agency) [12/15] 10/67

JUNE 1968

- 3-6 • Atomic Physics ☐ NEW YORK U ☐ New York (V. W. Hughes, Physics Dept., Yale U., New Haven, Conn. 06520) (by invitation) 11/67
- 10-13 • Vacuum Metallurgy ☐ AMERICAN VACUUM SOCIETY ☐ Beverly Hills, Calif. (L. W. Sink, AMRDL, Building 290, Pratt & Whitney Aircraft, Middletown, Conn. 06458) 11/67
- 16-20 ☐ HEALTH PHYSICS SOCIETY ☐ Denver, Colo. (W. R. Hendee) [2/1] 10/67
- 17-19 ☐ APS ☐ Los Alamos, N. M. (W. Whaling) 10/67

JULY 1968

- 15-18 Electrical Contact Phenomena ☐ IPPS ☐ University College of Swansea, Wales (Meetings Officer, IPPS) [2/1] 10/67
- 15 • (through Sept. 8) Nuclear Physics ☐ U. OF NORTH CAROLINA ☐ Chapel Hill, N.C. (C. Dewitt, Physics Dept., U. of North Carolina, Chapel Hill, N.C. 27514) [3/1] 12/67
- 22-26 • Rarefied Gas Dynamics ☐ MASSACHUSETTS INSTITUTE OF TECHNOLOGY ☐ Cambridge, Mass. (Symposium secretary, Rm. 37-412 aeronautics and astronautics dept., Massachusetts Institute of Technology, Cambridge, Mass. 02139) [12/31] 11/67

AUGUST 1968

- 6-15 • Medical Radioisotope Scintigraphy ☐ INTERNATIONAL ATOMIC ENERGY AGENCY ☐ Salzburg, Austria, (G.J. Hine & H. Vetter, Section of Nuclear Medicine, IAEA, Vienna I, Austria) [3/1] 11/67

The symposium will explore recent advances of methods employed for investigating the distribution of radioactivity in vivo. New types of moving-detector scanners and stationary detector scintillation cameras will be discussed.

- 7-9 Ellipsometry ☐ U. OF NEBRASKA

Maximized Value... High Voltage Supplies



In accordance
AECTID-20893

Consider:

- Model 250 Dual Bias Supply: Dual 0-1.5 KV continuously variable Bias outputs; Pos or Neg polarity internally selected to prevent accidental reversal—front panel lights indicate polarity; Output rate of change limited to prevent detector/preamp damage; rms noise < 500 microvolts; stability 0.007%/°C; jacks provided to monitor leakage current\$375.00
- Model 251 Scintillation H.V. Supply: 500-1500 volts in 100 volt steps with 125 volt vernier between steps; Pos or Neg polarity internally selected to prevent accidental reversal—front panel lights indicate polarity; 1 ma output current at < 10 mv ripple; stability 0.005%/°C.....\$250.00

Interested?

CALL COLLECT



AREA CODE 312

344-2212

Mech-Tronics Nuclear Corp.

1723 North 25th Avenue
Melrose Park, Illinois 60160

- PHOTOELECTRONICS
- ELECTRON & ION PHYSICS
- SPACE INSTRUMENTATION

PHYSICISTS PHYSICAL CHEMISTS ELECTRON TUBE SPECIALISTS

for expansion of a laboratory concerned with the development of new techniques and research leading to new devices.

The nature of the problems solved by this laboratory varies widely, so that the principal qualifications required are an inquiring intelligence and a sound background in physics, electrical engineering or physical chemistry. Positions are available both for recent graduates at all academic levels, and experienced people capable of accepting primary responsibility for specific programs. Present programs include activities in the following areas:

- SPACE INSTRUMENTS
- OPTICS
- PHOTOELECTRON EMISSION
- PHOTOMULTIPLIERS
- SIGNAL GENERATING IMAGE TUBES
- SURFACE PHYSICS
- GLASS TECHNOLOGY
- MASS SPECTROMETRY

The work is stimulating and satisfying and located in comfortable and pleasant surroundings in suburban Detroit.

Excellent opportunities for academic advancement.

Write or wire A. Capsalis
Research Laboratories
The Bendix Corporation
Southfield, Michigan 48075

Bendix Research Laboratories

An equal opportunity employer

CAN YOU ASSUME A MORE RESPONSIBLE POSITION

Our clients, leading national scientific organizations, are seeking scientists of proven ability to assume research and management positions. As these are extremely responsible positions, interested scientists must be able to demonstrate significant scientific accomplishment in one of the following areas:

*infrared . . . nuclear physics . . . thermodynamics
. . . radar systems . . . communications theory
. . . plasma physics . . . semi-conductor research
. . . magnetism . . . thin films . . . inorganics
. . . satellite systems . . . acoustics . . . optics
. . . cryogenics . . . or thermionics.*

Fees and relocation expenses paid by client companies.

If you qualify for these positions offering remuneration up to \$30,000, you are invited to direct your resume in confidence to:

Mr. Vincent A. Nickerson
Dept. PT-11



"EMPLOYMENT SPECIALISTS"

Serving the scientific community for over 40 years.

150 Tremont Street
Boston, Massachusetts 02111
HAncock 6-8400

PHYSICISTS-SCIENTISTS

KEY PERSONNEL is a National organization devoted exclusively to the selective search for competent careerists among the technical disciplines.

Working closely with clients Coast to Coast, it is our policy to provide a professional service to scientists and engineers, that is ethical, knowledgeable and confidential. Our service is designed to provide YOU with a convenient focal point from which to explore, easily and efficiently, the numerous career opportunities existing anywhere in the U. S.

Our service to you—the individual scientist or engineer—is WITHOUT COST since our search fees are assumed by our organizational clients, who are Industrial, Defense and nonprofit organizations engaged in the advancement of the state-of-the-art.

We are currently searching to fill a broad spectrum of positions from semi-junior to General Manager across the entire continent.

If you would like to explore for yourself, our unique approach, write for our confidential summary form or forward a copy of your current résumé as soon as possible:

John F. Wallace
Executive Vice President



KEY PERSONNEL CORP.

218 Tower Bldg.

Baltimore, Md. 21202

☐ Lincoln, Neb. (N. M. Bashara) 9/67

12-16 ☐ ACA ☐ Buffalo, N. Y. (D. Harker) 10/67

21-23 • ☐ AAS ☐ University of Victoria, Victoria, B. C., Canada (G. C. McVittie, University of Illinois Observatory, Urbana, Ill. 61801) 11/67

21-23 Applications of X-Ray Analysis
☐ DENVER RESEARCH INSTITUTE
☐ U. of Denver, Colo. (J. B. Newkirk) 10/67

21-28 Low Temperature Physics ☐ U. OF ST ANDREWS ☐ St Andrews, Scotland (D. M. Finlayson) 10/67

26-31 Applied Mechanics ☐ STANFORD U. ☐ Stanford, Calif. (C. R. Steele) [2/2] 10/67

26-30 Reactivity in Solids ☐ INTERNATIONAL UNION OF PURE AND APPLIED CHEMISTRY ☐ Schenectady, N. Y. (R. W. Roberts) 10/67

SEPTEMBER 1968

10-15 Magnetic Oxides ☐ INSTITUTE OF PHYSICS OF THE ACADEMY OF SR ROMANIA ☐ Bucharest, Romania (M. Rosenberg) 10/67

16-21 ☐ 15TH AMPERE COLLOQUIUM ☐ St Martin d'Hères, France (P. Averbuch) 9/67

16-18 Laser Measurements ☐ INTERNATIONAL SCIENTIFIC RADIO UNION ☐ Warsaw, Poland (S. Hahn) [2/1] 10/67

23-27 • Vacancies and Interstitials in Metals ☐ IUPAP ☐ Jülich, Germany (W. Schilling, Kernforschungsanlage Jülich, Institut für Festkörper und Neutronenphysik, 5170 Jülich, Postfach 365, Germany) [5/15] 11/67

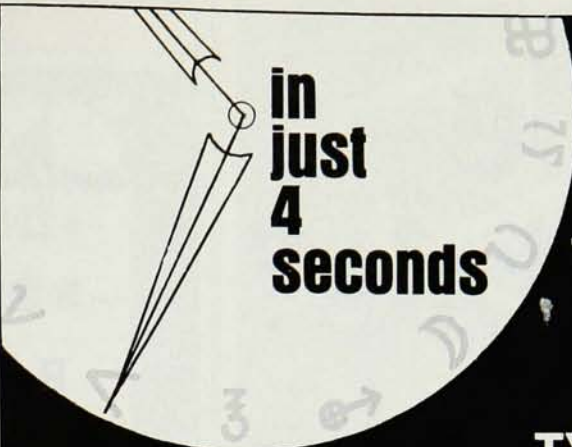
The scope of the conference will include experimental and theoretical work on the generation and properties of vacancies and interstitials, work that gives information on the fundamental physical properties of the defects (atomistic, electronic, and magnetic structure, formation energy, vibrational behavior), on their mobility, their interactions with each other or with impurities and dislocations.

OCTOBER 1968

8-11 • ☐ OSA ☐ Pittsburgh, Pa. (M. E. Warga, OSA, 2100 Pennsylvania Ave., N.W., Wash., D.C. 20037) [7/8] 11/67

DECEMBER 1968

16-20 Relativistic Astrophysics ☐ SOUTHWEST CENTER FOR ADVANCED STUDIES ☐ Dallas (I. Robinson) 9/67



in just 4 seconds

with **typit[®]**

TYPE ANY TECHNICAL SYMBOL ON ANY TYPEWRITER

EASY! NEAT! ECONOMICAL!

OVER 1200 SYMBOLS

the patented attachment that adds the symbols you use most to any typewriter . . . office, portable, electric.

FREE CATALOG!

typit[®] manufactured by Mechanical Enterprises Inc.
3127 Colvin St., Alexandria, Va. 22314

☐ Please send free catalog. Dept. 3311B

☐ Give me a demonstration soon at no obligation.

Name _____ Title _____

Company _____

Address _____

City _____ State _____

NEW!

Gold and aluminum foils – thinner than any previously available

GOLD FOILS
in the range
100–400 micrograms/cm²

ALUMINUM FOILS
in the range
12–45 micrograms/cm²

The foils are evaporated on to specially prepared glass slides from which they may readily be floated and mounted to form self-supporting films.

We continue to supply carbon foils in the range of thickness of 2–200 micrograms/cm².



YISSUM RESEARCH DEVELOPMENT CO.
HEBREW UNIVERSITY,
JERUSALEM, ISRAEL

Electronics for Light Measurement

PHOTOMETERS

A complete line of photometers for such applications as:

- integration and digitizing by means of current to frequency conversion
- demodulation of chopped light signals
- accurate and stable current measurement for recorder drive

COOLABLE PMT HOUSINGS



New, inexpensive (from \$245) COOLABLE photomultiplier housing to operate S-1 cathodes, such as 7102, at dry ice temperature, with quartz window, top loading, fog-free operation and 12 hour run on one load of dry ice.

Also—

STANDARD HOUSINGS for all leading photomultipliers, **SPECIAL HOUSINGS** for larger tubes and **VOLTAGE DIVIDER NETWORKS**.

PACIFIC PHOTOMETRIC INSTRUMENTS

3024 Ashby Ave. Berkeley, Calif.
(415) 848-1141