

# AMERICAN INSTITUTE OF PHYSICS—

## January 31 to February 4, 1956

### Exhibitors:

#### Academic Press, Inc.—Booth #15

"Solid State Physics" edited by Seitz and Turnbull, and the completing volume of the English version of Sommerfeld's "Lectures on Theoretical Physics," "Thermodynamics and Statistical Mechanics." Preliminary information on "Nuclear Science and Engineering," other texts.

#### Addison-Wesley Publishing Co.—Booth #1

Latest A-W texts and reference books in physics and related fields. Representatives will be on hand to discuss these books with physicists, and to furnish information about forthcoming publications.

#### Allegheny Instrument Company, Inc.—Booth #34

Portable potentiometers, Millivolt Sources, D.C. Amplifiers for stress analysis and bridge calibrators for wire strain gages and transducers. Also, Type C, Calibrator for the standardization of transducers and Type K-7 Error Computer which permits the calculation of errors in systems employing transducers.

#### Barnes Engineering Company—Booth #26

#### Beckman & Whitley, Inc.—Booth #13

Framing Camera, Model 189 taking 1.2 million frames per second, Drum Camera Model 224, new Pressure Recorder, Model 216.

#### Brailsford & Company, Inc.—Booth #37

Several models of sub-fractional watt D.C. miniature motors and timers, primarily used in meteorological work where low power drain is of utmost importance. Also, Commutatorless D.C. Motor using transistors.

#### Cambridge Instrument Company, Inc.—Booth #33

Lindemann-Ryerson Electrometer, Microscope for L-R Electrometer, Portable Projector, Pocket Dosimeters, Charges for Pocket Dosimeters, Flik Galvanometer, Lamp and Scale Outfit, Spot Galvanometer, Pot Galvanometer, Universal Bridge, Research Model pH Meter, Rocking Microtome, Helium Indicating Outfit.

#### Cambridge University Press—Booth #45

Many texts including latest works by Bondi, Gamow, Jeans, Jeffreys, Klemperer, Rutherford, Schrodinger, J. J. and G. P. Thomson, and A. H. Wilson.

#### Central Scientific Company—Booths #3, #4

New line of Cenco Hyvac Pumps that feature compactness and quiet operation, new unique clamps, support rods and bases; new radioactivity demonstrator with helpful teaching accessories; a new line of laboratory balances, concentrated arc lamps, the "Lab-Jack" and other apparatus of interest to physicists.

#### Ealing Corporation—Booth #46

Research and students optical benches, Courtauld Atomic models; ripple tank; spectrosopes and spectrometers; cathetometers; vernier microscopes; electroscopes; unit system of electrical measurement; research and students microscopes; galvanometers; balances; optical demonstration apparatus and other items for education and research as manufactured in Great Britain.

#### Federal Telephone & Radio Company—Booth #44

Precision Bridges for resistance and inductance. Tuned Detector amplifiers, precision attenuators for h.f. and v.h.f., Capacitance standards fixed and variable, teraohmmeters for insulation measurement up to 500 million megohms, and multiflex galvanometers.

#### Gaertner Scientific Company—Booth #30

#### General Electric Research Laboratory—Booths #27, #28, #29

Man-made diamonds, High-strength whisker crystals, 4-MEV x-ray tube (and other x-ray tubes), Ionic pump, New light amplifier and a new kind of electronic tube destined to play an important role in the future of electronics.

#### General Radio Company—Booth #22

Variac Autotransformers, Impedance Bridges, Stroboscopes, Oscillators, Sweep Drives and other electronic instruments.

#### Instruments Publishing Company—Booth #42

Publications—Instruments and Automation, Instrument and Apparatus News, the 1956 Instrument and Automation Catalog and Index, Buying Directories. Books—The Automatic Factory, An Introduction to Process Control System Design, other books on instrumentation and electronics.

#### Interscience Publishers—Booth #23

Interscience Tracts on Physics and Astronomy edited by R. E. Marshak, Methods of Mathematical Physics by Courant and Hilbert, and other books on physics and applied mathematics. Also, new Nuclear Physics journal.

#### Jarrell-Ash Company—Booth #19

Hilger Microfocus X-ray unit and the Hilger Abbe Refractometer and Hilger Photometer. Also the Jarrell-Ash Grating Monochromator and Fluorimeter for uranium assay work, and JAcO Spec Lab, a complete spectrochemical lab offered in a packaged form.

#### Kay Electric Company—Booth #2

Various instruments for recording and measuring audio and sub-audio frequency waves, including the Vibralyzer, the Sonograph, and the Echo-Vox.

#### Keithley Instruments—Booth #17

Vacuum tube electrometers, microammeters, kilovoltmeters, static detectors, meg-megohm-meters, high gain dc amplifiers, dc vacuum tube voltmeters, high input impedance ac isolation amplifiers.

#### Walter Kidde Nuclear Laboratories, Inc.—Booth #5

The display illustrates Pressurized light water power plant for moderate power range (35,000 kw to 125,000 kw), suitable as a stationary unit for use in a utility network, or as a package unit to furnish power to isolated regions. The display includes a reactor model.

#### J. Klinger Scientific Apparatus—Booth #7

Rotating mirror, Gravitation torsion balance, Franck-Hertz tube with mercury atoms, Photo-electric cell, Demountable transformer, Belt generator, Model for demonstrating group velocity, Model separator tube for isotopes, Wulf's electroscope, Apparatus for demonstrating the kinetic theory of gases.

# 25TH ANNIVERSARY MEETING

*Hotel New Yorker*

*New York City*

## Exhibitors:

### H. W. Leighton Laboratories—Booth #12

Portable type counters, metal walled GM type counter tubes, video sweep generator, count rate meter, other items.

### McGraw-Hill Book Company—Booth #20

Titles in the International Series in Pure and Applied Physics, the six volumes in the U. S. Atomic Energy Commission series, the third and final volume on Radiation Biology, and the commemorative volume for Niels Bohr.

### NRD Instrument Company—Booth #21

Detectors and circuits covering a wide variety of industrial and research uses. Scintillation counters of many types for gammas, as well as beta counters and windowless alpha counters. Circuits include scalars, precision count rate meters, and combinations with both instruments in one cabinet. Single channel pulse height analyzers will also be shown, plus shields and counting accessories.

### National Radiac, Inc.—Booth #25

Complete scintillation methods. Scintillation crystals, including largest crystal ever grown, scintillation counter heads, power supplies and count rate meters, detection equipment, aerial scintillation counter, and other items.

### North American Aviation, Inc.—Booths #35, #36

### North American Philips Co.—Research and Controls Division—Booths #38, #39

New Flame Photometer, the X-ray Microradiograph, the Dual Decade Scaler and Timer, and Scintillation and Proportional Counter Equipment. The Norelco EM-75 Electron Microscope will be exhibited and a complete line of Norelco X-ray Analysis Units comprising the Wide-Range Diffractometer, 90-degree Diffractometer, the Spectrograph and Wide-Range Goniometer plus Powder Cameras and Accessories.

### Nuclear Development Corporation of America—Booth #14

Reactor Model—one of the first to be designed for the chief purpose of research in neutron therapy.

### Oplem Company, Inc.—Booth #47

Oplem Time Lapse Cine-Photomicrographic Apparatus with provision for High Speed Photomicrography, and accessories for Micro-Schlieren and Multiple beam Interferometry, also, High Precision Nuclear-Track Microscopes and accessories.

### Optical Film Engineering Company—Booth #24

A complete line of high vacuum equipment, vacuum metallizing systems, packaged pumping system and portable power supplies. Also, dichroic filters, front surface mirrors with reflectance of 95%, electrically conductive transparent coatings on glass and plastics, ultra low reflection films and specialized thin films of descriptions.

### The Perkin-Elmer Corporation—Booth #48

### Prentice-Hall, Inc.—Booth #43

"Elements of Physics," 2nd Ed. by Shortley & Williams, "Introduction to Physics" by Durbin, "Elements of Atomic Physics" by Peaslee, "Electricity and Magnetism" by Winch, "Fundamental Formulas of Physics" by D. H. Menzel, et al; other P.H. texts.

### RMC Associates, Inc.—Booths #8, #9, #10

Representing the following:

- Beta Electric—Low, high, ultra high voltage power supplies
- Budd-Stanley—Microwave transmission equipment
- John Fluke Mfg—VAW Meters, precision supplies, differential voltmeter
- Hewlett-Packard—Complete Electronic Measuring Instruments
- Kay Lab—Absolute Supplies, Microvoltmeters, Industrial TV Systems
- Pimex—Reflecting galvanometers, bridges, decade boxes
- Sorenson & Co.—Electronic Voltage Regulators, Nobatrons, Frequency Changers
- Varian Associates—Klystrons, Laboratory Magnets, Graphic Recorders

### Rubicon Co.—Booth #32

Precision electrical measuring instruments consisting of Resistance Standards and Bridges, Potentiometers and Galvanometers. New equipment will be the laboratory type High Precision Kelvin Bridge, a radical departure from the older classical form; and a Portable Precision Thermocouple Potentiometer.

### Sound Apparatus Company—Booth #31

Model SL-4, Frequency Response Recorder, utilizing a sliding-coil for operation of the pen movement and a feed-back coil to assure stability and accuracy, and other special features. Model PR-1, Polar Recorder, is designed especially for recording of antenna and other directional device patterns.

### Springer Publishing Co.—Booth #6

New Encyclopedia of Physics (S. Fluegge, Editor), published in 54 volumes by Springer-Verlag, Germany. All completed volumes will be shown plus other important Springer books in physics.

### Tracerlab, Inc.—Booths #40, #41

Complete new line of radiation research equipment built on building block principle, including alpha gridded ionization chamber, gamma scintillation spectrometer detector, new non-overloading linear amplifier, and many other components. This new line of radiation research equipment represents Tracerlab's experience of 10 years in providing research physicists with these tools.

### Vacuum-Electronic Engineering Company—Booth #11

Full line of high vacuum equipment, including the model MS-8 Mass Spectrometer Leak Detector. On display will be Veeco Diffusion Pumps; Thermocouple Ionization Gauges (featuring the non-burnout ionization gauge type RG75; Phillips Gauge; Bellows Sealed Valves; Vacuum Solenoid Valves; Veeco Leak Detector; and a group of vacuum accessories.

### D. Van Nostrand Company, Inc.—Booth #18

Pioneer titles in many branches of physics, including Glasstone's Principles of Nuclear Reactor Engineering, Locke's Guidance, the initial volume in the series Principles of Guided Missile Design; and a revised edition of Timoshenko's Strength of Materials, Volume II.

### W. M. Welch Manufacturing Company—Booth #16

New high vacuum Duo-Seal pump with vented exhaust for pumping condensable vapors; Densichron Transmission Densitometer for measuring optical density of glass, photographic film, plastics, paper; Welch stainless steel laboratory balances, and Welch Master portable electric meters.

### John Wiley & Sons, Inc.—Booth #49

Displaying a wide range of technical, reference, and textbooks by specialists in the field of physics and related sciences.