

Laser Energy and Power Measuring Devices

Available from TRG

BALLISTIC THERMOPILES

One-cm-diameter aperture types

MODEL 100 — A high sensitivity, precision instrument offering direct primary calorimetric measurement of laser outputs up to 300 joules over a dynamic range of 3×10^6 .

MODEL 101 — Photodiode version of Model 100. Permits simultaneous energy measurement and observation of optical pulse waveshapes.

Two-cm-diameter aperture types

MODEL 107 — A large-aperture unit designed to meet the requirements of giant-pulse and large laser systems. Can handle energies up to 1000 joules (normal mode) and peak powers in the gigawatt range.

MODEL 108 — Photodiode version of Model 107. Permits simultaneous energy measurement and observation of optical pulse waveshapes.

DIRECT-READING ENERGY METER

MODEL 102 — A transistorized, precision microvoltmeter designed specifically for use with thermopiles having outputs from 100 to 300 microvolts per joule.

PHOTODETECTOR

MODEL 105B — An extremely fast detector containing a vacuum photodiode incorporated into a specially designed wide-band microwave structure. Permits direct observation of axial mode beating of Q-switched ruby laser or may be used to monitor low-power CW sources. Standard optical filters are available as accessories.



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For complete information write:
TRG, Inc., Section E, Route 110, Melville, L.I., New York 11749, Tel. 516-531-6343.



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physics project headed by Philip Youngner (PT, Nov. 1965, p. 101).

Organizations such as Allied Chemical Co. and Western Electric Co. are sending their physicists into the high schools to acquaint teachers with new developments in physics, help them with classroom problems, and provide teaching materials and journals. The new program also organizes gatherings at which new teachers meet with physics instructors in other schools as well as with industrial physicists. Thus far ten companies and 13 physicists are participating in the program, and the latter total is expected to grow to 20 by the end of the current academic year.

The library of physics-teaching equipment will circulate from school to school throughout the state. Welch Scientific Co., Klinger Scientific Apparatus Corp., Macalaster Scientific Corp. and Sharpe Instruments will donate such items as cathode-ray oscilloscopes, optical-bench kits, and Physical Science Study Committee kits to assist high-school teachers with their lecture demonstrations.

Student Sections awards

Another AIP activity enjoying industry participation is the Student Sections awards. For four consecutive years the Bendix Corp. has supported competitions for grants to pay for research projects by the sections. This year cash awards selected by an AIP committee and amounting to a total of \$2000 were given to student sections in the following schools:

Arlington State College
Clarkson College of Technology
Georgetown University
Manhattan College
Marshall University
Northern Illinois University
Notre Dame College
University of Pittsburgh
Southern Missionary College
Valparaiso University
Villa Madonna College

Education committee. Another member of the AIP ad hoc committee on positions in education and manpower (PT, Feb., p. 11) is Walter C. Michels, chairman of the department of physics at Bryn Mawr College.