

SIMPLIFY PULSED SIGNAL MEASUREMENTS



Save frustration and valuable time. Use our Model 162 Boxcar Averager to measure pulse intensities and to recover waveforms from obscuring noise. We provide single and dual-channel operation. Four types of Gated-Integrator plug-in modules are available, including the low-cost 2-ns, variable sensitivity Model 166. Our new 24-page catalog has specifications and applications information on fiber-optic testing, Raman Spectroscopy, DLTS, fluorescence, ultrasonics and more. Get your FREE copy by contacting us directly, or by circling the number below on the readers service card.



EG&G PRINCETON APPLIED RESEARCH
P.O. BOX 2565 • PRINCETON, NJ 08540, U.S.A. • 609/452-2111 • TELEX: 843409

519A

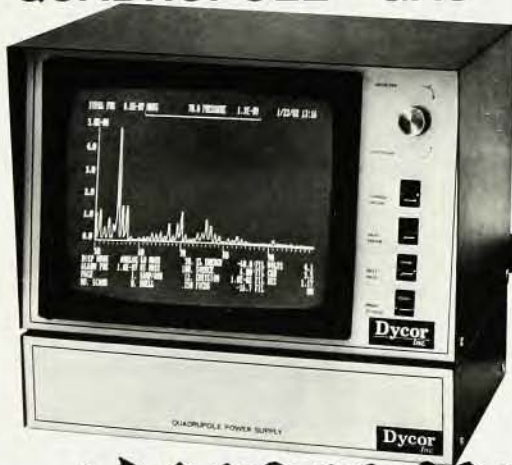
Circle number 31 on Reader Service Card

QUADRUPOLE GAS ANALYZER

COMPLETE INSTRUMENT

\$4995.00

(MADE IN U.S.A.)



Now Available with Particle Multiplier

STANDARD FEATURES

- 1-100 AMU
- Faraday Cup Detector
- Dual-Filaments
- 100% Front Panel Control
- 12" High Resolution Display
- Graph or Tabular Data Display
- RS232 Computer Interface
- 10^{-4} to 5×10^{-12} Torr Pressure Range
- Background Subtraction

OPTIONAL FEATURES

- Pressure vs. Time Display
- 1-200 AMU
- Graphics Printer For Hard Copy
- Sample System For Higher Pressures

With Dycor's Quadrupole Gas Analyzer you will no longer have to guess about what's in your Vacuum System. A glance at the screen will tell you exactly what is there. Our engineers would be happy to discuss your application.

Dycor
Inc.

1023 Wm. Flynn Hwy • Glenshaw, PA 15116 • (412) 486-4700

Circle number 32 on Reader Service Card

particle accelerators. Ernest Lawrence received the Fermi Award in 1957.

Steacie Prize for 1983 to William G. Unruh

The E.W.R. Steacie Memorial Fund and the National Research Council of Canada have announced that William G. Unruh, of the University of British Columbia, has received the Steacie Prize for 1983. The prize recognizes distinguished research in natural sciences by someone under 40 years of age.

Unruh was educated at the University of Manitoba and Princeton, from which he received his PhD in 1971. He subsequently held fellowships at Birkbeck College, University of London, and at the University of California, Berkeley, before joining the faculty at McMaster University in Hamilton, Ontario, in 1974. He has been at the University of British Columbia since 1976.

In his research, Unruh has focused on problems involving black holes and quantum gravity. He was the first to demonstrate rigorously that a Kerr black hole emits particles spontaneously. He also showed that an accelerated detector behaves as if it were bathed in blackbody radiation at a temperature that depends on the acceleration. Unruh's current work involves questions relating to the effects of gravitational fields on quantum processes, such as particle creation and particle detection.

Revelle receives Vannevar Bush Award

Roger R. Revelle, a major contributor to several fields of science and public policy, is honored this year with the National Science Board's Vannevar Bush Award. Revelle is Richard Saltonstall Professor of Population Policy, Emeritus, at Harvard, emeritus director of the Scripps Institution of Oceanography, which he ran from 1950 to 1964, and emeritus dean of research at the University of California, San Diego, which he helped found. While he was director at Scripps, Revelle led a number of Pacific Ocean expeditions to study deep oceanic processes and the geology of the sea floor. He was a founder of the Intergovernmental Oceanographic Commission and the Scientific Committee on Ocean Research of the International Council of Scientific Unions.

In the early 1960s, as science adviser to Secretary of the Interior Stewart Udall, Revelle became interested in problems connected with world population growth, poverty and economic development. He has worked on stud-