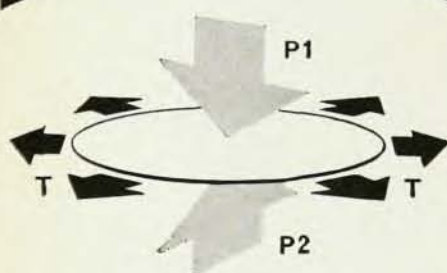


# MEASURE PRESSURE AND VACUUM WITH TENSIONED DIAPHRAGM GAGE

For Mass Spectrometry,  
Precision Gas Analyses, Mixing,  
Metering or Reaction Monitoring,  
Backfill Operations, and  
as Calibration Standard



A thin metal membrane is stretched mirror-flat under tension "T" and clamped forming an extremely sensitive diaphragm. Differential pressure,  $P_1 - P_2$ , is measured by variation of capacitance to adjacent electrodes as diaphragm deflects.

## 0.0000001 psi

sensitivity is achieved by the new BARATRON™ pressure gages using the tensioned diaphragm technique.

- **RANGE** —  $10^{-5}$  mm Hg to 1000 mm Hg
- **ACCURACY** — 0.05%
- **VACUUM MEASUREMENT** — independent of Gas Composition
- **DC VOLTAGE OUTPUT** — Fast Response
- **INDICATOR** — with 5-place digital readout and expanded scale
- **CORROSIVE or HIGH TEMPERATURE DESIGNS** — on special quotation

BARATRON gages and pressure readout meters are effectively measuring ultra-low pressure and vacuum on other critical applications involving: rocket stands, space chambers, cryogenics, leak detection, flow, nucleonics and medicine. Standard equipment, available from stock, consists of a Precision Indicator and six interchangeable Heads with capacities ranging from  $10^{-5}$  mm Hg to 1000 mm Hg ( $10^{-7}$  to 20 psi).

Illustrated technical brochure and actual application examples sent by return mail

PRECISION PRESSURE  
MEASUREMENT



## MKS INSTRUMENTS

45 Middlesex Turnpike Burlington, Mass.  
617-272-9255

## MEETINGS

### Radiation protection

The inaugural congress of the International Radiation Protection Association will be held in Rome at the Cavalieri Hilton Hotel from September 5 to 10. Local arrangements are being handled by the Italian Association for Health Physics and Radiation Protection. The program (in English, French, German, and Italian) will deal broadly with the following topics: radiation effects, operational health physics and contamination of working areas, spectrometry and instrumentation, dosimetry, environmental contamination (including fallout and food chains), public health and waste disposal, hazard evaluation, internal emitters, radiochemical analysis, applied radiation biology, medical aspects of radiation protection, and permissible doses and radiation guides.

Abstracts of 200 to 300 words are due by March 31, and should be sent with other correspondence to Dr. C. Polvani, Secretary General, First International Congress of the International Radiation Protection Association, Casella Postale 2359, Rome, Italy.

### Electron and laser beams

The University of Michigan and the Institute of Electrical and Electronics Engineers will cosponsor the eighth annual symposium on electron- and laser-beam technology. Meeting April 6 to 8 on the University's Ann Arbor campus, the symposium will have as principal topics the physics of electron, ion, and light beams, application of energetic beams (micro-miniaturization and thin films, welding and materials, melting and evaporation, microcircuit fabrication, integrated devices, analysis of bombardment problems, materials study, new effects and techniques), new energetic-beam equipment and processes, and holography. Fifty- and 500-word abstracts of contributions should

be sent by Jan. 15 to Dr. G. I. Haddad, Electrical Engineering Department, University of Michigan, Ann Arbor, Mich. Cochairmen for the meeting are Dr. J. E. Rowe of the University of Michigan and Dr. A. B. El-Kareh of Pennsylvania State University.

### OSA 50th anniversary

The Optical Society of America will celebrate its fiftieth anniversary March 15 to 18 at the Shoreham Hotel in Washington, D. C. On the first day there will be a special session entitled "Reviews of Modern Optics" on topics ranging from lasers, communication theory, and space optics to physiological optics. The speakers will be C. H. Townes, G. Toraldo di Francia, J. Blamont, and others. Instead of the usual collection of modern optical instruments, there will be an exhibit of historic equipment, manuscripts, photographs, and other rare items. The traditional banquet will be supplemented by special luncheons, a social hour, a buffet, and a historical talk at the Smithsonian Museum. The Society's 1966 Adolph Lomb Medal will be presented to Dr. C. K. N. Patel for his work on the far-infrared spectra of gases and other substances. Additional details can be obtained from Mary E. Wurga, Executive Secretary, Optical Society of America, 1155 Sixteenth Street, NW, Washington, D.C. 20036.

### Spectroscopy

Britain's Institute of Physics and Physical Society is arranging a conference on the automation of spectroscopy for July 7 and 8 at the University of Bristol. Sessions will cover data handling and reduction, automation of conventional spectrometers, and on- and in-line analysis and sample handling. Details and application forms will be available in April