

for precision measurement & control of GAS FLOW—

Hastings Mass Flow Meter/Controller

featuring Stainless Steel construction.



Mass Flow Meter/Controller

Optional
Power Supply/
Readout

- 8 ranges from 0-10 sccm to 0-50 slpm
- 0-5V inherently linear output signal
- Fast response
- 316 S.S. standard, monel optional

Request Catalog 550.

- Local or remote set point pot
- Completely self-contained
- Programmable start, stop, automatic, and soft start
- Control to $\pm .2\%$ typical
- Flowmeter without controller also available

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HASTINGS-RAYDIST

P.O. BOX 1275
HAMPTON, VA 23661 U.S.A.
TELEPHONE (804) 723-6531

Circle number 48 on Reader Service Card

CHARGE SENSITIVE PREAMPS

Hybrid Low Noise Preamps
S.M. Technology on .100" Centers.

Model No.	Application
RL721	Charge Sensitive preamplifier for detectors with capacitance C_D 0-100 pf. Large dynamic range for negative output signals (for positive input).
RL723	Grounded Base Preamplifiers for high rate applications and short pulse shaping (in order of 10 ns).
RL724	Improved version of RL721 but with large dynamic range for positive output signals (negative input) + lower noise figure.
NEW RL789	Triple Charge Sensitive Preamplifiers. Very low noise figure as low as 150 $\bar{e}$ with corresponding shaping. Intended for use with strip detectors with C_D less than 5 pf. It can be mounted on 0.100" center to center.

We invite you to contact us for detailed information on any custom Hybrid Microelectronic products and look forward to assist you with your problems.



REL-LABS, INC.
Hybrid Microelectronic Manufacturing
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Edward M. Stolper (Caltech), Robert A. Weller (Woods Hole, Oceanographic Institute) and Bradford H. Hager (Caltech) received Macelwane Awards in 1986; these are given "in recognition of significant contributions to the geophysical sciences by a young scientist of outstanding ability." Stolper went to Caltech after completing his PhD at Harvard in 1979. His interests have included lunar science and meteoritics, igneous petrology and igneous differentiation in the upper mantle. Weller received his PhD from Scripps (1978); in 1979 he went to Woods Hole, where he is now an associate scientist in the physical oceanography department. He has studied the flow response of the upper ocean to atmospheric forcing; he and Russ Davis developed a vector measuring current meter to measure horizontal velocities in the upper ocean. Weller has recently made direct observations of Langmuir circulations. Hager has focused his research attention on kinematic models of mantle convection, beginning with his PhD thesis, which he completed at Harvard in 1978. He went to Caltech in 1980 as an assistant professor of geophysics, becoming an associate professor in 1985.

in brief

Stig Hagstrum, formerly manager of the general sciences laboratory at the Xerox Palo Alto Research Center, has become professor and chairman of the Stanford materials science and engineering department.

Venkatesh Narayanamurti, formerly of AT&T Bell Labs (Murray Hill, New Jersey), has become vice president of research at Sandia National Laboratories (Albuquerque, New Mexico).

John Clarke, professor of physics at the University of California at Berkeley, has been named California Scientist of the Year by the California Museum Foundation of the California Museum of Science and Industry. He was honored for his role in developing the superconducting quantum interference device, which has been adapted for applications ranging from neurophysiology to geophysical prospecting. The \$5000 award is the highest civilian honor bestowed by the state.

B. Gale Dick, professor of physics at the University of Utah, has been named dean of the university's graduate school.