

## LABORATORY Temperature Controller



### Model 5301-E

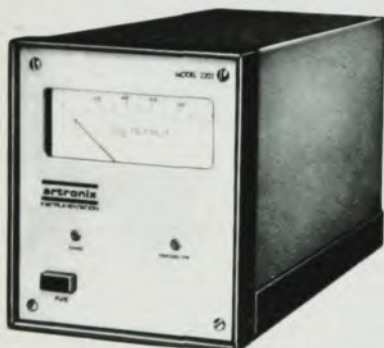
With an input circuitry designed to accept resistance or voltage generating temperature sensors such as GaS-diodes, thermocouples, Ge & Pt Sensors, Carbon Resistors and Thermistors. The 5301-E, three mode controller offers temperature regulation to better than  $0.01^\circ\text{K}$  (or  $^\circ\text{C}$ ) in Vacuum chambers, Cryogenic dewars, Optical ovens, Tensile strength test apparatus, etc. for physics, metallurgy, chemistry and other scientific fields where the control and temperature range requirements are broad or change frequently. Set point readout is either directly in mV or Ohms (4-terminal measurement), with unlimited temperature range. Proportional, rate and reset modes are all internally adjustable, allowing to tune the controller to the thermal time constants of the process. 100 Watts, DC output or up to 5KW with Model 2202.

**artronix**

INSTRUMENTATION

716 Hanley Industrial Court, St. Louis, Mo. 63144  
Area Code 314 Phone 644-2456

## POWER MODULE



### Model 2202

To regulate an AC-line connected load by means of a small DC signal from an automatic control instrument. It supplies large amounts of power for control of resistive heaters, thermo-electric elements, light sources, etc. in temperature controlled ovens, vacuum deposition equipment, infrared heat sources, temperature baths and other applications. The instrument features a pulse-width-modulated zero crossing - fires TRIAC circuit to minimize RF Interference, electronic protection against current overloads and voltage transient, and provides linear control to a AC power line up to 25 Amp. (110 V or 220 V).

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## we hear that

The new director of the Argonne National Laboratory is **Robert G. Sachs**. A former associate director of Argonne, Sachs is also director of and professor at the Enrico Fermi Institute and professor in the physics department of the University of Chicago.

**Wesley N. Mollard**, the former director of program management at ITT Electro-Physics Laboratories, Inc. in Columbia, Maryland, has been made director of advanced development at the Labs.

President Nixon intends to nominate **Gerald F. Tape**, a former member of the Atomic Energy Commission, as the US representative to the International Atomic Energy Agency in Vienna. Tape will continue as president of Associated Universities, Inc.

Itek Corp has promoted **L. Curtis Foster**, formerly vice-president of advanced development in the applied technology division, to the newly created post of vice-president and general manager of the division, which is located in Sunnyvale, California.

The physics department of the University of Illinois, Chicago Circle has promoted **Arthur Licht** to associate professor. **Ram R. Sharma** and **David Vezzetti** have been promoted to professor.

**Robert H. Tanner**, formerly director of information for Bell-Northern Research in Ottawa, Canada, has become director of industrial research and de-

velopment for the Department of Communications.

Coherent Radiation in Palo Alto, California has appointed **Steven M. Jarrett** as product manager for scientific lasers. He was formerly president of Quantum Systems in Menlo Park, California.

This fall **Richard E. Michel**, senior research physicist at the General Motors Research Laboratories in Warren, Michigan, will become director of the Technical Institute of Lawrence Institute of Technology.

**Phillip Lu** has been promoted to chairman of the earth and space sciences department at Western Connecticut State College in Danbury.

In the physics department at Lehigh University **Yong Wook Kim** has been promoted to associate professor.

**Scott O. Graham**, of Stanford University, has joined the scientific staff of RCA Laboratories at the David Sarnoff Research Center in Princeton, New Jersey.

**Kearny Q. Robert Jr.**, a research physicist at the Gulf South Research Institute in New Orleans, Louisiana, has been promoted to manager of the physics department there.

**Albert Gold**, the former special assistant to the president and director of post-doctoral affairs at Rockefeller University, has been named vice-president for academic resources.

## obituaries

### Paul W. Gast

Paul W. Gast, professor of geology at Columbia University and chief of the division of planetary and earth sciences at the Lyndon B. Johnson Space Flight Center in Houston, died on 16 May at the age of 43. He was in charge of the investigation of the lunar rock samples gathered by the Apollo flights to the moon.

Among other accomplishments, Gast was a leader in the development and application of the rubidium-strontium and uranium-lead isotope methods of dating moon rocks. He also conducted studies of trace elements in the terrestrial and lunar crust that have been credited with altering generally accepted ideas about the origin of volcanic fluids.

After receiving his doctorate in geol-

ogy from Columbia in 1957, Gast taught at the University of Minnesota until 1965, when he returned to Columbia as professor of geology. He was on leave from Columbia at the time of his death.

### Eugene Rabinowitch

Eugene Rabinowitch, senior chemist and a section chief on the Manhattan Project, died in Washington on 15 May. At the time of his death Rabinowitch was on leave from his post as professor emeritus of chemistry and biology at the State University of New York at Albany, serving as a Woodrow Wilson fellow at the Smithsonian Institution. He was 71 years old.

His sense of involvement in the development of the first atomic bomb led