

Services Administration at Boulder, Colorado where he worked on optical propagation as it relates to atmospheric and geophysical problems. **Calvin D. Salzberg** of Kodak will spend this year at Stanford University.

Formerly with CBS Laboratories, **Andrew L. Dalisa** has joined the research group at Philips Laboratories, North American Philips Corp, Briarcliff Manor, N. Y.

Duane N. Sunderman is now assistant director for technical development at Battelle Memorial Institute, Columbus. He was formerly coordinator of basic research at Battelle-Columbus. Sun-

derman, a chemical physicist, has worked on a variety of problems including nuclear-fuel reprocessing and radiotracer techniques.



CHOPRA

Kuldip P. Chopra has been named professor of physics at Old Dominion University, Virginia. He was formerly professor of applied physics at Nova University in Florida.

Additions to the Los Alamos Scientific Laboratory staff include **William S. Bennett III**, **John J. Malanify**, **John E. Foley** and **Chester F. Hwang**.

Harry Hess, Space Board Chairman, Dies Suddenly

Harry H. Hess, chairman of the Space Science Board, died this August in Woods Hole, Massachusetts, where he was heading a board conference. Hess, 63, was professor of geology and curator of mineralogy at Princeton. His research interests were unusually varied, and he made important contributions in several fields: Hess was among the first proponents of the ocean-floor spreading hypothesis, contributed to the planning of the Apollo 11 scientific program and was influential in the design of the Houston Lunar Receiving Laboratory.

Among the honors Hess had received were the Feltrinelli medal of the Italian Accademia dei Lincei and the Penrose Medal of the Geological Society of America. The National Aeronautics and Space Administration recently cited him for his contributions to the space program.

Kenichi Watanabe Dies at 58; Studied Upper Atmosphere

Kenichi Watanabe, a University of Hawaii physicist, died in August at the age of 58. Watanabe, a native of Honolulu, studied at Caltech and received his PhD there in 1940. After teaching at both Cal Tech and Wabash College, he became a physicist at the US Naval Research Laboratory and in 1961 was made head of the Air Force Cambridge Research Center atmospheric-composition section. Wata-

nabe joined the Hawaii physics department as professor in 1954 and in 1961 was promoted to senior professor, the position that he held until his death.

Watanabe, a pioneer in the use of rockets to study the upper atmosphere, measured ozone concentration in that region, and his group was the first to measure in detail vacuum-ultraviolet absorption coefficients of several important upper-atmospheric gases. He established a vacuum-ultraviolet lab at Hawaii and this past spring received the Hawaii University award for excellence in research. Watanabe was a member of the National Aeronautics and Space Administration Planetary Atmospheres Panel and of the editorial advisory board of the Planetary and Space Science Journal and was a fellow of both the American Physical Society and the American Optical Society.

Cecil Powell, Cosmic-Ray Physicist, Dies in Italy

Cecil F. Powell died on 9 August in Bellano, Italy. At the time of his death he was visiting the summer institute at Varenna.

Born in 1903, Powell had worked under Charles T. Wilson and Ernest Rutherford at Cambridge, where he received his PhD in 1927. He then went to the University of Bristol to do work with A. M. Tyndall, and for the rest of his life he remained at Bristol where he became Melville Wills Professor of Physics in 1948 and

Frequency stabilize your CO₂ laser

with the Lock-in Stabilizer and a piezoelectric translator.



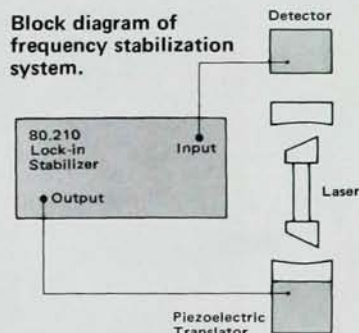
80.210
Lock-in Stabilizer
\$1410

The stabilizer, a translator, and a detector form a closed loop, negative feedback control system which compensates for thermal drift. A unique mode jump circuit permits continuous automatic operation in spite of unidirectional thermal drift. The Lock-in Stabilizer can be used with any gas laser having an operating wavelength of 24 microns or less.



Piezoelectric Translators are available with extensions of 1 to 12 microns.
\$185 to \$335

Block diagram of frequency stabilization system.



We will be happy to send you complete information about frequency stabilization. Fill in this form and mail it today — or call us at 607-272-3265.

Lansing Research Corporation, 705 Willow Avenue, Ithaca, New York, 14850.

☐ Please send complete free catalog.

Name _____
Dept. or MS. _____
Company _____
Street _____
State _____
City _____ ZIP _____

Lansing