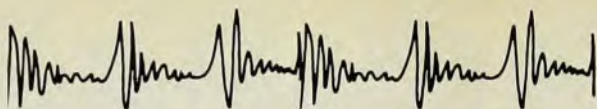
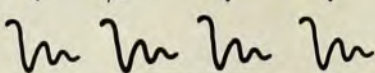


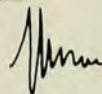
If this 
shrouds this 

use these



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Model TDH-9

to extract this  from that. 

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we hear that

mal Analysis Society. Karasz is professor of polymer science and engineering at the University of Massachusetts in Amherst. He has studied thermodynamic properties of crystalline polymers and theories of fusion. He joined the UM faculty in 1967.

The \$1000 Mettler Award is sponsored annually by the Mettler Instrument Corp in Princeton, New Jersey for work in kinetic thermal analysis; recipients are nominated and selected by an independent NATAS committee.

Brownell receives award for nuclear medicine

Gordon L. Brownell has received the Paul C. Aebersold award of the Society of Nuclear Medicine. Brownell, who specializes in medical physics, is professor of nuclear engineering at the Massachusetts Institute of Technology, research associate at Harvard Medical School and applied physicist at Massachusetts General Hospital.

Among the achievements for which SNM honored Brownell is development of a positron scanning system that was the first successfully used for detecting brain tumors. In gamma-ray dosimetry, he originated the concept of the absorbed fraction and the use of Monte Carlo techniques for calculations. He is now working on the development of positron imaging devices and true isotope tomography.

SNM also honored George V. Taplin, a physician participating in the atomic-energy project of the medical school at the University of California in Los Angeles. Taplin was awarded the Nuclear Medicine Pioneer Citation for his many years of research on radioactive tracers.

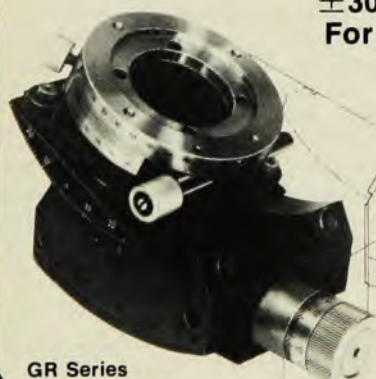
Fairchild grant goes to Lehigh University

A \$5.25 million grant from the Sherman Fairchild Foundation has enabled Lehigh University to establish two endowed professorships, a laboratory for solid-state studies (construction underway), eight graduate fellowships, ten undergraduate scholarships and a major lecture series. The university has appointed George D. Watkins, now a physicist with General Electric Co, first Sherman Fairchild Professor of Solid-State Studies; the other endowed chair, in electrical engineering, has yet to be filled.

Watkins has been with GE's research and development center in Schenectady, New York since 1952 when he received his PhD from Harvard University. He has held adjunct professorships

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at Rensselaer Polytechnic Institute and the State University of New York at Albany and has been on the editorial board of the journal *Radiation Effects*.

Carl Sagan wins Dickinson College Priestley Award

Carl Sagan, for his "contribution to the welfare of mankind through astronomy," has received the 1975 Joseph Priestley Award of Dickinson College in Carlisle, Pennsylvania. Sagan is professor of astronomy and space studies and director of the laboratory for planetary studies at Cornell University. He has been recognized by both the general public and the scientific community for his efforts to communicate news of astronomy to the public. Most of Sagan's research concerns the physics and chemistry of planetary atmospheres and surfaces, space exploration and the origin of life.

Newly-elected members of the National Academy of Sciences include **Stephen A. Adler**, Institute for Advanced Study, Princeton, New Jersey; **Frank A. Bovey**, Bell Laboratories; **Kenneth M. Case**, Rockefeller University; **Bruce Chalmers**, Harvard University; **Leon N. Cooper**, Brown University; **Edward C. Creutz**, National Science Foundation; **Wallace G. Ernst**, University of California, Los Angeles; **Eugene Feenberg**, Washington University; **George Feher**, University of California, San Diego; **Hans Frauenfelder**, University of Illinois; **Kenneth I. Kellerman**, National Radio Astronomy Observatory; **Arthur H. Lachenbruch**, US Geological Survey; **Max Vernon Mathews**, Bell Laboratories; **Erwin W. Mueller**, Pennsylvania State University; **Arno A. Penzias**, Bell Laboratories; **Paul B. Price Jr.**, University of California, Berkeley; **Calvin F. Quate**, Stanford University; **Melvin Schwartz**, Stanford; **Clifford G. Shull**, Massachusetts Institute of Technology; **John C. Wheatley**, University of California, San Diego and **Kenneth G. Wilson**, Cornell University.

Foreign associates of the Academy include **Kunihiko Kodaira**, Tokyo University, Japan; **Devendra Lal**, Physical Research Laboratory, Ahmedabad, India; **Ernst J. Öpik**, Armagh Observatory, Northern Ireland; **Alfred E. Ringwood**, Australian National University, Canberra and **Sir Martin Ryle**, Mullard Radio Astronomy Observatory, Cambridge University, England.

Among the Fellows elected to the American Academy of Arts and Sciences this Spring are **Alan H. Barrett**, Massachusetts Institute of Technology; **Raymond Bowers**, Cornell University; **Gerald E. Brown**, State University of New York at Stony

Brook; **John W. Cahn**, MIT; **Sidney R. Coleman**, Harvard University; **N. Bruce Hannay**, Bell Laboratories; **John J. Hopfield**, Princeton University; **Gerry Neugebauer**, California Institute of Technology; **Jeremiah P. Ostriker**, Princeton; **Arno A. Penzias**, Bell Laboratories; **Carlo L. Rubbia**, Harvard; **Richard B. Setlow**, Brookhaven National Laboratory; **Lubert Stryer**, Yale University; **Samuel C. C. Ting**, MIT and **Kenneth G. Wilson**, Cornell.

Foreign honorary members include **Martin Rees**, University of Cambridge, England; **Sin-Itiro Tomonaga**, Tokyo University of Education, Japan and **Yakov B. Zeldovich**, Institute of Chemical Physics, USSR Academy of Sciences.

The Alfred P. Sloan Foundation has awarded two-year research fellowships to 86 young scientists, 25 of whom are physicists: **Robert R. Alfano**, City College of the City University of New York; **Tanya M. Atwater**, Massachusetts Institute of Technology; **Stephen M. Curry**, University of Texas at Dallas; **Kris Davidson**, University of Minnesota; **Marc Davis**, Harvard University; **Glennys R. Farrar**, California Institute of Technology; **Peter J. Gierasch**, Cornell University; **Robin P. Giffard**, Stanford University; **Paul K. Hansma**, University of California at Santa Barbara; **C. Wendell Horton Jr.**, University of Texas at Austin; **Michael S. Isaacson**, University of Chicago; **Robert L. Jaffe**, MIT; **Bruce C. Knapp**, Columbia University; **Marc D. Levenson**, University of Southern California; **Tom Lubensky**, University of Pennsylvania; **Oscar J. Lumpkin Jr.**, University of California at San Diego; **Alan H. Luther**, Harvard; **Peter Molnar**, MIT; **Lon M. Rosen**, University of Toronto; **Christopher H. Scholz**, Columbia; **Arnold J. Sierk**, California Institute of Technology; **Stuart A. Solin**, University of Chicago; **Anthony F. Starace**, University of Nebraska at Lincoln; **Beatrice Tinsley**, University of Texas at Austin and **Clifford M. Will**, Stanford.

Kuldip P. Chopra, professor of physics at Old Dominion University, has been named chairman of the new section on environmental science of the Virginia Academy of Science. Chopra is also the recent recipient of the VAS Horsley Research Award for his work on atmospheric and ocean flow problems caused by islands.

Richard A. Moyle has been appointed research associate at the University of Maryland cyclotron laboratory.

The National Academy of Engineering has announced the election of 86 new members, including **Betsy Ancker-Johnson**, US Department of Commerce; **William O. Baker**, Bell Laboratories; **Andrew H. Bobeck**, Bell Laboratories; **Ivar Giaever**, General Electric Co; **John J. Gilman**, Allied Chemical Corp; **William E. Gordon**,

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