

**A CALL  
FOR PAPERS**

## **COMPUTERS IN PHYSICS**

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**Computers in Physics**, a combination magazine and peer-reviewed journal published bimonthly by the American Institute of Physics, is soliciting papers on computer use in physics and astronomy.

We are interested in papers which describe novel ways physicists have applied computers to their work in the lab or the classroom, as well as details of original research about computer applications in related fields such as optics, acoustics, geophysics, rheology, crystallography, vacuum science, and medical physics.

Please address all papers for this new publication to Robert R. Borchers, Editor, **Computers in Physics**, PO Box 5512, Livermore, CA 94550. Papers should be organized according to the American Institute of Physics Style Manual.

**COMPUTERS IN  
PHYSICS**

Crothers (Yale), Ernest Davidson (Indiana University), T. Kenneth Fowler (Lawrence Livermore National Laboratory), Robert B. Griffiths (Carnegie-Mellon University), Hermann A. Haus (MIT), Bela Julesz (AT&T Bell Labs, Murray Hill, New Jersey), William M. Kaula (UCLA), William Miller (Berkeley), Douglas D. Osheroff (then at Bell Labs, Murray Hill, now at Stanford University), Morton B. Panish (Bell Labs, Murray Hill), Jack Sandweiss (Yale), John P. Schiffer (Argonne National Lab), Frank Shu (Berkeley), Robert E. Tarjan (Bell Labs, Murray Hill), Patrick Thaddeus (Smithsonian Astrophysical Observatory and Harvard) and Daniel Tsui (Princeton). The academy also elected the following foreign associates: Gerd K. Binnig (IBM, Zurich), Pierre-Gilles de Gennes (École de Physique et Chimie, Paris), Charles Frank (University of Bristol, UK), Benoit Mandelbrot (IBM, Yorktown Heights), Manuel Peimbert (National University of Mexico, Mexico City), Carlo Rubbia (CERN and Harvard), Roald Z. Sagdeev (Institute for Space Research, Moscow) and Guangzhao Zhou (Institute of Theoretical Physics, Beijing).

### **NAE ELECTS NEW MEMBERS**

The National Academy of Engineering in February elected the following new members whose work is in physics or related fields: Laurence J. Adams (Martin Marietta, Bethesda, Maryland), William F. Ballhaus Jr (NASA Ames Research Center, Moffett Field, California), Robert R. Berg (Texas A&M University), Howard K. Birnbaum (University of Illinois, Urbana), Leroy L. Chang (IBM Thomas J. Watson Research Center, Yorktown Heights, New York), Praveen Chaudhari (IBM, Yorktown Heights), Hsien K. Cheng (University of Southern California), Jon F. Claerbout (Stanford University), Aaron Cohen (NASA Johnson Space Center, Houston), Neville G. W. Cook (University of California, Berkeley), H. Ted Davis (University of Minnesota, Minneapolis), Dean E. Eastman (IBM, Yorktown Heights), Helen Edwards (Fermilab), James Gould (Mueser Rutledge Consulting Engineers, New York, New York), Chieh-Su Hsu (Berkeley), George E. Keller II (Union Carbide, South Charleston, West Virginia), Louis J. Lanzerotti (AT&T Bell Laboratories, Murray Hill, New Jersey), James U. Lemke (Recording Physics, San Diego, California), Albert Macovski (Stanford), John L.

Mason (Garrett, Los Angeles), John B. Mooney Jr (US Department of the Navy, Arlington, Virginia), Clayton D. Mote Jr (Berkeley), Robert M. Nerem (Caltech), John T. Oden (University of Texas, Austin), Carel Otte Jr (Unocal, Los Angeles, California), Frank L. Parker (Vanderbilt University), Ronald R. Parker (MIT), Val P. Peline (Lockheed Missiles and Space Company, Sunnyvale, California), Enders A. Robinson (Tulsa University), Don W. Shaw (Texas Instruments, Dallas), Joanne Simpson (NASA Goddard Space Flight Center, Greenbelt, Maryland), John A. Simpson (National Bureau of Standards, Gaithersburg, Maryland), Richard Skalak (Columbia University), William J. Spencer (Xerox Corporation, Stamford, Connecticut), David A. Thompson (IBM, Yorktown Heights), Julia R. Weertman (Northwestern University), Forman A. Williams (Princeton University) and Ward O. Winer (Georgia Institute of Technology). Robert F. Legget (Canadian Academy of Engineering, Ottawa) was elected as a foreign member.

### **ROYAL SOCIETY ELECTS NEW FELLOWS**

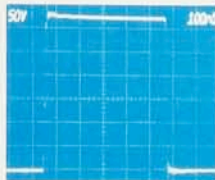
The Royal Society has elected as Fellows the following people whose work is in physics or related fields: Keith G. Cox (University of Oxford), David O. Edwards (Ohio State University), Charles T. Elliott (RSRE, Malvern), Trevor Evans (University of Reading), Alan K. Head (CSIRO, Australia), Brian J. Hoskins (Reading), Noel S. Hush (University of Sydney, Australia), George E. Kalmus (Science and Engineering Research Council, Rutherford Appleton Laboratory, Didcot), Alan L. Mackay (Birkbeck College, London), Ashesh P. Mitra (Department of Scientific and Industrial Research, India), Howard R. Morris (Imperial College of Science and Technology), William G. Price (Brunel University, Uxbridge), Philip G. Saffman (Caltech), David Smith (University of Birmingham), Robert S. J. Sparks (University of Cambridge), John W. Steeds (University of Bristol), Robert H. Symons (University of Adelaide) and Sidney van den Bergh (Dominion Astrophysical Laboratory, Victoria, BC).

### **IN BRIEF**

**Daniel J. McCleese**, formerly manager of the Jet Propulsion Laboratory's atmospheric and cometary sciences section, has been appointed



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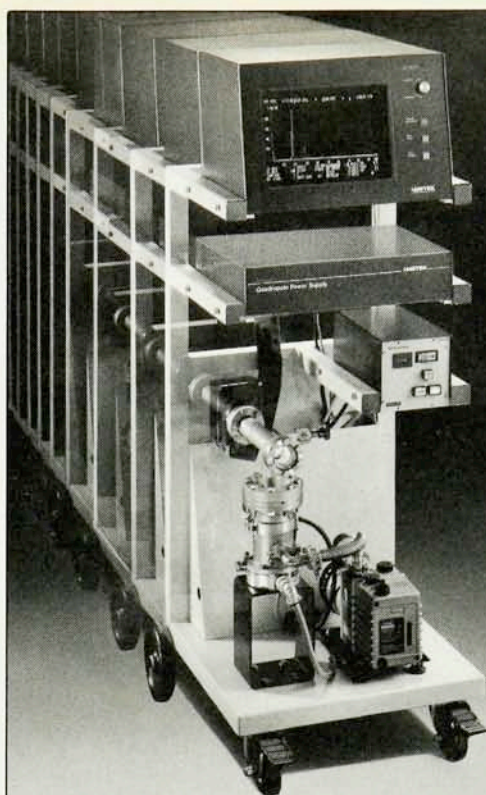
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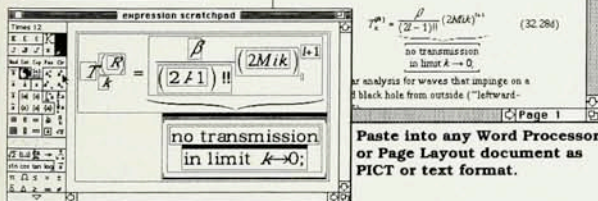
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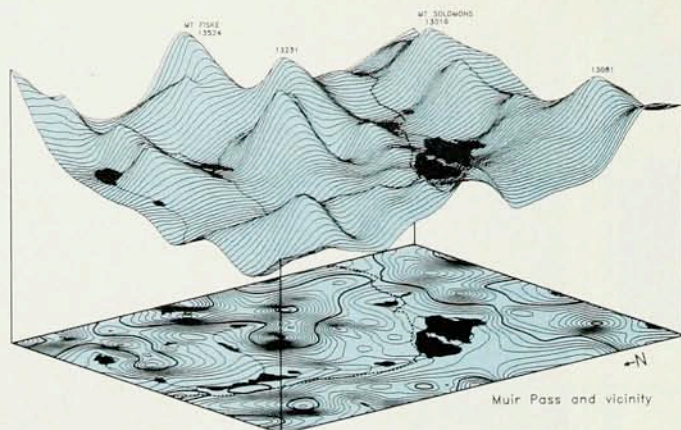
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manager of the lab's earth and space sciences division.

## OBITUARIES

### Edward L. Brady

Edward L. Brady, who had recently retired from his position as associate director for international affairs at the National Bureau of Standards, died on 20 September 1987.

Born in Charleston, South Carolina, in 1919, Brady was educated at the University of California at Los Angeles, where he received a BA (1940) and MA (1942) in chemistry, and at the Massachusetts Institute of Technology, where he received a PhD in physical chemistry in 1948.

From 1942, when he began his professional career at the University of Chicago in one of the major laboratories of the wartime atomic bomb project, until 1963, when he went to NBS, Brady was involved with nuclear energy research. From 1943 until after World War II, he was at Clinton Laboratories in Oak Ridge, Tennessee (the forerunner of the present Oak Ridge National Laboratory), where he was a member of the group that designed and operated the first large-scale hot laboratory facilities.

In 1947 Brady, then a graduate student at MIT, published with Martin Deutsch pioneering measurements of the angular correlations of successive nuclear gamma radiations. This and a series of subsequent publications established an important technique that is still used for spectroscopy in nuclear and elementary physics.

After receiving his PhD, Brady spent ten years in various capacities at General Electric Company. While at the company's Knolls Atomic Power Laboratory, he led research groups working on coolant chemistry and on developing equipment for in-pile tests of reactor materials.

Brady served as the US Atomic Energy Commission's representative to the United Kingdom from 1956 until 1958. Later, he was the senior scientific adviser of the US mission to the International Atomic Energy Agency in Austria.

He left Vienna in 1961 to go to General Dynamics (San Diego, California), where he was responsible for various projects connected with chemical and materials problems in nuclear power plants.

In 1963 NBS, acting on a recommendation of the Federal Council for Science and Technology, established the National Standard Reference