

Chemistry survey task forces and their assignments

Members and affiliation

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William A. Lester Jr. (Berkeley)

Executive Secretary

William Spindel (National Research Council)

*Task Force cochairman

Key areas

high-temperature chemistry and combustion, chemistry and the environment, synthetic inorganic chemistry and inorganic minerals, nuclear chemistry, electrochemistry and corrosion, and analytic chemistry

supermolecular, synthesis, organic materials, polymers, physical organic and physical inorganic chemistry and organic energy sources

chemistry as it applies to the life sciences: biological macromolecules; receptor-ligand interactions; human health, animal health and agricultural chemistry

physical chemistry: catalysts and surfaces; molecular structure; reaction rates; condensed phases; intra- and inter-molecular energy transfer

instrumentation for chemistry: the laser revolution; computers in chemistry; molecular and ion beams; synchrotron radiation; surface-science techniques

future?

- ▶ What techniques and facilities are employed?
- ▶ How does this field interact with other academic fields?
- ▶ What human and institutional resources are needed to achieve fully the potential?

Pimentel, a former deputy director of the National Science Foundation, is now with the chemistry department at Berkeley. He received his PhD in

chemistry from the University of California in 1949 and has been on the faculty at Berkeley since 1949, except for the period from 1977 to 1980 that he spent at NSF. His research interests include infrared spectroscopy and molecular structure, chemical lasers, hydrogen bonding, matrix isolation spectroscopy, infrared studies of planetary atmospheres, rapid-scan infrared and the thermodynamic properties of hydrocarbons. —JC

ducted research in electronic materials processing and etching and deposition of thin films.

AIP publishes two new directories

New editions of two directories published by the American Institute of Physics are available.

The 1982-83 *Directory of Physics & Astronomy Staff Members*, which costs \$60.00 prepaid, lists over 30 000 scientists in 3000 North American institutions—colleges and universities, Federally funded R & D centers, government laboratories and industrial laboratories. Its 375 pages also contain appendices concerning educational programs.

The 1982-83 *Graduate Programs in Physics, Astronomy and Related Fields*, 920 pages, provides information about some 300 departments in the US and Canada. It costs \$15.00 prepaid (\$7.50 for students, for their personal use, also prepaid).

Both books may be ordered from Department M/N, AIP, 335 East 45th Street, New York, N.Y. 10017.

Petition advocates international SETI

Sixty-eight scientists have called for an international effort to detect radio signals coming from space in a search for extraterrestrial intelligence (SETI). Carl Sagan originated the petition; signers include Stephen Hawking, Fred Hoyle, Linus Pauling, Edward Purcell, Grote Reber, Roald Sagdeev and Kip Thorne.

The statement asserts that a search one million times more thorough than all previous ones can be conducted by using current radioastronomical technology, for only a few million dollars per year for the next one or two decades.

Vacuum Science journal splits in two

The *Journal of Vacuum Science and Technology* has been divided into two journals. *JVST A*, subtitled Vacuum, Surfaces, and Films, deals with vacuum technology, vacuum metallurgy, surface science, thin films, and fusion technology. *JVST B*, subtitled Microelectronics, Processing and Phenomena, deals with vacuum processing, plasma processing, microlithography, the physics and chemistry of interfaces, and submicron devices.

Each journal will have four issues per year. Members of the American

Vacuum Society receive both journals. They are edited at the same office, whose new address is the Microelectronics Center of North Carolina, PO Box 12889, Research Triangle Park, N.C. 27709.

Gerald Lucovsky, who had been editor of *JVST*, is now editor-in-chief of both journals and editor of *JVST A*. He is a University Professor of Physics at North Carolina State University. Thomas M. Mayer, associate professor of chemistry at the University of North Carolina at Chapel Hill, is the new editor of *JVST B*. A graduate of Pennsylvania State University (PhD in physical chemistry, 1975), he has con-

the physics community

in brief

Copies of *Women and Minorities in Science and Engineering* are available from Nancy Conlon, Division of Science Resource Studies, NSF, 2000 L Street N. W., Washington, DC 20550.

Polymer Science and Engineering: Challenges, Needs, and Opportunities is available from the National Academy Press, NAS, 2101 Constitution Avenue N. W., Washington, DC 20550. It was prepared by the *ad hoc* Panel on Science and Engineering of the National Research Council. □