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Nuclear Science Division

Cynthia Ortiz

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NUCLEAR SCIENCE DIVISION

The division has a special interest in Nuclear Science and in advanced energy systems such as nuclear, solar, wind, geothermal, and tidal. Its concern in these fields includes, but is not limited to, research, policy and analysis, development and production.

FROM THE CHAIR

CYNTHIA ORTIZ



GREETINGS

By the time you read this column, the holidays will have come and gone. I certainly hope each and every one of you and your families and friends had happy ones and

that your new year is off to a fabulous beginning.

Diane Mirvis and I will be on our way to Clearwater, Florida, for 1992 and 1993 conference planning in late January 1992, as I wrote in the last column. This is just a reminder for those of you with ideas for Diane for the 1993 conference in Cincinnati that it is time for you to contact her with your ideas. I may have her write up some of her own ideas for you for the next issue of *Sci-Tech News*.

1992 CONFERENCE SCHEDULE

To help you with your planning for the 1992 conference in San Francisco, the following is our schedule of Division activities. We hope that you will support the Nuclear Science Division by attending as many of these functions as possible.

San Francisco is an exciting and elegant city to visit. We hope you will have time during the busy SLA conference to take in some of the sights of the city, too.

Monday, June 8: 7:30-9:00 a.m.—Dutch Treat Breakfast and Executive Board Meeting. Officers and others who need to attend will be informed of the location.

Monday, June 8: 12:00-1:30 p.m.—Annual Business Meeting and Luncheon. John Reid of SilverPlatter will give a short presentation on their new CD-ROM INIS product.

Monday, June 8: 1:30-4:00 p.m.—Seismic Mapping. This session will be cosponsored by Geography & Map (the lead Division), Engineering, and Petroleum & Energy Resources. This is a crucial topic for those of us working in the nuclear industry.

Tuesday, June 9: 8:00 p.m.-12:00 a.m.—Open House. This is cosponsored by the Aerospace, Engineering, and Transportation Divisions. Since this is the special day devoted to Pacific Rim topics, we may have some oriental food served. This, though, is not set yet.

Wednesday, June 10: 1:00-2:30 p.m.—
Strategic Planning. The cosponsors of this session are Business & Finance (the lead Division), Publishing, Social Science, and the SLA Strategic Planning Committee. We hope you can be at this dynamic meeting. The subject is very important in these days of trying to emphasize cost containment efforts and the value added by our services.

The Nuclear Science Division will have no separate tour on Thursday this year. So many of the other divisions are planning intriguing adventures to such places as Silicon Valley, the wine country, a railroad museum, among others that your Chair thought that you would like to have the opportunity to go on one of these tours instead. There will be so many of these tours to choose from, I trust a few of us will get to see each other on the one we select.

MERGER

At the 1991 conference in San Antonio, a few of your officers were approached by officers of the Public Utilities Division regarding starting to think about the possibility of merging our groups. The idea is at best tentative. What I am writing to you about is to request that you contact me either in writing or by telephone or fax to let me know what you feel about such a move. A decision is not close, but I wanted all of you to have the opportunity to voice your opinions on this matter. Your officers and I welcome your thoughts and advice to us. There are many pluses and minuses we can all recognize. So please let me hear from you. I value your ideas.

TAPES

Please remember the 1991 conference tapes that are available to borrow from Diane Mirvis's office at Brookhaven.

MEMBERSHIP NEWS

**By Alice Hassett
Membership Chair**

NUCLEAR SCIENCE DIVISION NEW MEMBERS

The Nuclear Science Division of SLA is pleased to add the following colleagues to our membership list:

Benjamin F. Bauer
SilverPlatter Information Inc.
Environmental Publishing Group
100 River Ridge Drive
Norwood, MA 02062

Ruth L. Elder
Baltimore Gas & Electric Co.
Calvert Cliffs Nuclear Power Plant
Training Resource Center 20TF
Lusby, MD 20657

Eun Joo Lee
ABB Combustion Engineering Inc.
Library
1000 Prospect Hill Road
Windsor, CT 06095

Haekyoung K. Lee
Nuclear Assurance Corp.
Information Center
6251 Crooked Creek Road
Norcross, GA 30092

We sent out copies of the Fall 1991 Membership Directory for the Nuclear Science Division. If there are corrections, please let me know, and we will include the information in the Spring 1992 issue.

We have found that Fax numbers facilitate the exchange of information, so if yours is lacking, we would appreciate being updated. Our final plea is that the overseas members furnish complete international country and city codes.

Note the membership form included as a centerfold in the Membership Directory. Please share this opportunity with others.

We look forward to seeing all of you at the SLA Annual Conference, June 6-11, 1992, in San Francisco.

FINANCIAL SUMMARY **By Juanna I. Shin, Treasurer**

The annual financial statement for 1990 was presented to the Division members at the 1991 business luncheon in San Antonio. The closing balance on December 30, 1990, was \$1,871.23. Since submitting our annual financial report to the Association, we have had an income of \$1,273.71 and disbursements of \$1,277.30. Our current balance at Connecticut National Bank as of November 12, 1991, is \$1,867.64.

FROM YOUR BULLETIN REPORTER **By Mary O'Brien**

Please let me know what you would like to read in your bulletin. Your ideas for columns or articles would be very welcome. Even more welcome would be your contributions. For example, you might write profiles of your libraries, you've attended, or articles on topics such

reports on workshops or conferences as library management. Personality profiles, bibliographies, book reviews, product reviews, and letters to the editor would also be welcome. Please submit your ideas or articles to:

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Portland General Electric Co.
Trojan Nuclear Plant, TNB-2
71760 Columbia River Highway
Rainier, OR 97048
Phone: (503) 556-5673
Fax: (503) 556-5405

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The second edition of this library-school text covers management techniques, user services, technical services, library-facility planning, networking, and employment in special libraries.



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This important book presents a comprehensive account of heat pipe design, technology, and operation. Emphasis is on high-performance liquid metal heat pipes, although nonliquid metal heat pipes are treated, as well. Of interest to engineers, professors, and engineering managers involved in heat transfer, heat exchange, and thermal management of aerospace vehicles, the nonmathematical overview is equally valuable to nonspecialists in these fields.

July 1992 • 550pp • Hardcover 0-89116-859-1 \$149.50

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Edited by T. J. Chung

Selections in this book are on the cutting edge of knowledge in finite element methodology and application, representing a major contribution to the field. Presented here are 18 invited lectures and expanded versions of selected papers from the Seventh International Conference on Finite Element Methods in Flow Problems, conducted in 1989. The book addresses a wide range of topics concerning adaptive methods in computational fluid dynamics, the streamline diffusion finite element method, algebraic grid generation, mixed finite element methods, Navier-Stokes equations, and more.

June 1992 • 520pp • Hardcover 0-89116-850-8 \$195

GLOBAL ENVIRONMENTAL PROTECTION STRATEGY THROUGH THERMAL ENGINEERING: COUNTERMEASURES

Edited by K. Hatta and Y. Mori

This unique book contains the proceedings of a seminar on Energy Consumption and Thermal Engineering Studies of Global Environmental Problems, conducted in May 1990 in Japan. Rather than present reports of problems, discussions focused on concrete measures, models, and methodologies in thermal engineering designed to address world energy consumption and global environmental problems, such as the greenhouse effect and depletion of the ozone layer.

1991 • 350pp • Hardcover 1-56032-146-6 \$79.50

FREEZING AND MELTING HEAT TRANSFER IN ENGINEERING Selected Topics on Ice-Water Systems and Welding and Casting Processes

Edited by K. C. Cheng and N. Seki

This volume of contributed papers was conceived in memory of Professor R. R. Gilpin, a pioneering contributor to the field of freezing phenomena in ice-water systems. Topics include ice formation, convective heat transfer in ice-water systems and convective instability, frazil ice, ground freezing and frost heave, and atmospheric and marine icings.

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RISK MANAGEMENT Expanding Horizons in Nuclear Power and Other Industries

Edited by Ronald A. Knief

This book contains the proceedings of a symposium addressing a major issue of worldwide concern: safety and risk management in the nuclear power, airline, and chemical industries. Recognized experts presented papers at the Risk Management Symposium, conducted in 1989 in New Jersey. Topics included risk management control systems, airline industry safety, management and quality in accident prevention, use of probabilistic risk assessment, and power plant applications of PRA.

1991 • 288pp • Hardcover 1-56032-231-4 \$49.50

BASE BLEED

First International Symposium on Special Topics in Chemical Propulsion

Edited by K. K. Kuo and J. N. Fleming

Featuring an Invited Paper by Dr. G. V. Bull

This book includes papers presented at a conference of the same name conducted recently in Athens, Greece. Contributions represent the state of the art in the development of base bleed projectiles and related research. Base bleed technology is of growing importance in the aerospace industry and among military contractors.

1991 • 314pp • Hardcover 0-89116-937-7 \$95

THE DIFFERENTIAL EQUATIONS OF THERMODYNAMICS

V. V. Sychev

Intended to meet the needs of students and graduates majoring in thermal physics, physical engineering, and physicochemical specialties, this book systematizes mathematical tools of thermodynamics, and emphasizes questions that are often a source of error in thermodynamic calculations. Chapters focus on thermodynamic characteristic functions, differential equations for a one-phase region, discontinuities of thermodynamic functions on boundary curves, equations for a two-phase region, peculiarities of the mathematical description of the critical point, and equations for complex systems.

1991 • 264pp • Hardcover 1-56032-121-0 \$85



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