

RISK *newsletter*

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SRA Sponsors Legislative Briefings

Approximately 30 congressional staff members attended the first two of a series of breakfast briefings on risk assessment that the Society for Risk Analysis is sponsoring. Proposed at the December SRA Council meeting in Baltimore and initiated on January 27, the briefings coincide with the introduction of several risk-related bills in the 104th Congress. SRA's hosts for the briefings are Representatives Dick Zimmer (R-NJ) and George Brown (D-CA).

"We want to present the issues and discuss the sources of controversy," says SRA President M. Elisabeth Paté-Cornell, who is chairing the Management Committee for the series. She pointed out that as members of an independent society, the speakers have the intellectual freedom to say what they think. The intent is to prompt two-way conversations on current topics.

The first briefing was conducted by B. John Garrick of PLG Inc. and Joseph V. Rodricks of Environ Corporation. Meeting with the staffers at 8:30 a.m. in the Rayburn House Office Building, Garrick outlined the principles of risk analysis and cited specific examples of quantitative risk assessment in the industrial sector (e.g., in the chemical, nuclear, petroleum, and transportation industries). Rodricks followed with an overview of health risk assessment.

The second briefing was given on February 3 by Lester B. Lave of Carnegie Mellon University and Paul R. Portney of Resources for the Future, both focusing on the use and misuse of cost-benefit analysis.

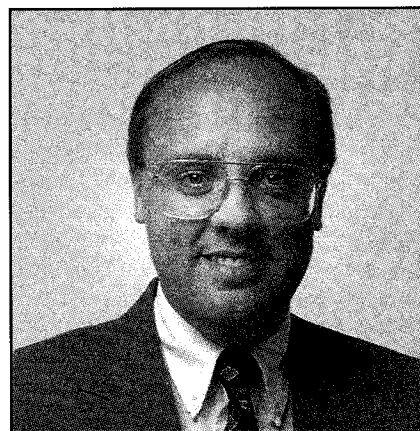
A third briefing, on comparative risk analysis and priority setting, was scheduled for February 10, with Baruch Fischhoff of Carnegie Mellon and John D. Graham of the Harvard School of Public Health as the presenters.

Garrick reported that the staffers peppered the speakers with questions, particularly as to how risk assessments incorporate uncertainty analysis and handle multiple performance measures. The group also discussed pending legislative packages and the overall impact of risk-based decisions, especially the associated costs and benefits and the potential for increasing other risks.

"They also expressed concerns," Garrick said. "They have lots of questions about data bases, the completeness of the models, the competence of risk assessors, and the need for checkpoints on risk assessment results."

Lave and Portney were queried about specific legislative language, particularly about Title III of H.R. 9, the Job Creation and Wage Enhancement Act recently introduced in the House of Representatives. Title III of the bill calls for a risk assessment and cost-benefit analysis and states that a regulation cannot be issued until the benefits exceed the costs. The SRA presenters discussed the uncertainties involved in such an analysis and also the difficulties of interpreting social values in terms of dollars.

The scheduling of additional briefings will be determined by the series' Management Committee, which includes Garrick, Graham, and SRA Councilor Gail Charnley (as deputy chair), as well as David B. McCallum of Focus Group, Hugh L. Spitzer of Environmental Network, and James D. Wilson of the Monsanto Company.



John D. Graham
SRA President-Elect

Educator Is SRA President-Elect

The Society for Risk Analysis has elected educator **John D. Graham** as its president-elect for the year 1994-95. Graham is a professor of policy and decision sciences at the Harvard School of Public Health, where he teaches risk analysis and benefit-cost analysis methods. He also is the founding director of the Harvard Center for Risk Analysis and heads the Harvard Injury Control Center.

Organizer of SRA's 1995 Honolulu Meeting

The president-elect's primary responsibility this year is to organize the 1995 SRA Annual Meeting, which will be held December 3-6 in Honolulu, Hawaii. SRA-Japan will co-sponsor the meeting.

"My goal for the 1995 annual meeting is to foster an international spirit of harmonization and collaboration," said Graham. "We understand that meeting in Honolulu will be more expensive and cumbersome for some of our members, but we also know that we can reach out

(Continued on page 2.)

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Educator to Lead

(Continued from page 1.)

to our international collaborators only through meetings of this sort."

He added that the 1995 meeting will provide insight into how various Asian countries identify, assess, and manage risk and how that compares to U.S. approaches.

Focus in 1995-96

As SRA's 1995-96 president, Graham will challenge the Society to create new ways of honoring innovative risk analysis practitioners, help evaluate and strengthen university-based training in risk analysis, broaden the range of problems on which health risk assessment focuses, and seek recognition of SRA both by the national policy community and at international levels.

As SRA approaches the 21st century, a major challenge will be risk communication, he said. "Risk communication: what works; what doesn't? One could argue that our approach to risk communication has been confusing." Graham supported his observation by describing how the risk community started out by saying that it liked risk comparisons; then, didn't like them; and currently, sometimes likes risk comparisons and sometimes does not. "The only solution will be a rigorous program of research including behavioral scientists as well as engineers and life scientists," he concluded.

Graham has a bachelor's degree from Wake Forest University, a master's degree from Duke University, and a doctorate in public policy from Carnegie Mellon University. His research interests are toxic chemicals, automobile fuel economy, HIV infection, drinking and driving, and risk analysis methodology.

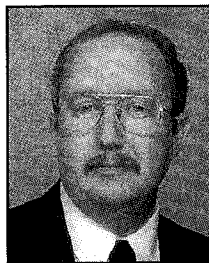
He is a charter member of SRA and served on the council in 1991-94. He also serves on the editorial board of *Risk Analysis*.

Price Is Treasurer

Paul S. Price of ChemRisk, A Division of McLaren/Hart, is SRA's treasurer for the next two years. He has more than 15 years of experience in exposure and risk assessment, including

a tenure with the U.S. Environmental Protection Agency. He currently performs joint research with the agency to evaluate noncarcinogenic risks.

Price has a bachelor's degree in chemistry and a master's degree in civil engineering from the University of Maryland, and a graduate degree in religious studies from Regent College in British Columbia.



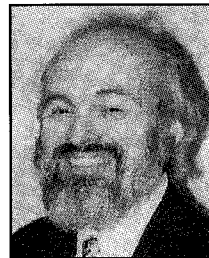
Price

A charter member of SRA, he founded the Society's Exposure Assessment Specialty Group and has helped organize sessions and workshops for the last four annual meetings. He is also a reviewer for *Risk Analysis* and a member of the SRA/ISEA Residential Exposure Assessment Project's Management Committee (see page 7).

Burmester, Charnley, and McKone Join Council

SRA has three new councilors who will serve through 1997:

David E. Burmester, president of Alceon Corporation, specializes in the fate and transport of contaminants, exposure and risk assessments, hazardous waste management, and Monte Carlo simulations.



Burmester

He has two bachelor's degrees, in biophysics and electrical engineering, from the Massachusetts Institute of Technology, a master's degree in public policy from Harvard University's Kennedy School of Government, and a doctorate from MIT's Water Quality Laboratory.

Burmester joined SRA in 1985. He is a former president of the New England Chapter and a steering committee member for the Boston Risk Assessment Group, which meets with the chapter.

Gail Charnley, Executive Director of the President's Commission on Risk Assessment and Risk Management, has 20 years of experience in environmental toxicology and risk assessment and human health risk assessment.



Charnley

She was formerly with the National Academy of Sciences, where she was acting director of the Human Toxicology and Risk Assessment Program and project director for several NAS committees. She has also chaired several U.S. Army Science Board committees that evaluated health risk assessment practices in the Army.

Charnley has a bachelor's degree in biochemistry from Wellesley College and a doctorate in toxicology from the Massachusetts Institute of Technology. She has been an SRA member since 1991.

Thomas E. McKone is leader of the Exposure Assessment Group in the Lawrence Livermore National Laboratory's Health and Ecological Assessment Division. He is also a lecturer and research environmental engineer with the Environmental Toxicology Department at the University of California, Davis. His most recent work in risk/exposure assessment involves the development of the CalTOX model process for the California Department of Toxic Substances Control.



McKone

McKone has a doctorate in engineering from the University of California, Los Angeles. A charter member of SRA, he chairs the SRA Exposure Assessment Specialty Group and serves on the editorial board of *Risk Analysis*. He has served as treasurer and secretary of SRA's Northern California Chapter.

1994-95 SRA Officers and Councilors

President: **M. Elisabeth Paté-Cornell**, Stanford University, Department of Industrial Engineering and Engineering Management, Stanford, California, telephone (415) 723-3823, e-mail ng.mep@forsythe.stanford.edu, fax (415) 725-8799¹

President-elect: **John D. Graham**, Harvard School of Public Health, Center for Risk Analysis, Boston, Massachusetts, telephone (617) 432-4343, fax (617) 432-0190, e-mail jgraham@hsph.harvard.edu

Secretary: **W. Gary Flamm**, Flamm Associates, Reston, Virginia, telephone (703) 620-3572, fax (703) 620-1565

Treasurer: **Paul S. Price**, ChemRisk, A Division of McLaren/Hart, Portland, Maine, telephone (207) 774-0012, fax (207) 774-8263, e-mail paul_price@mclnrhrt.uucp@netcom.com

Past President: **Robert G. Tardiff**, EA Engineering, Science & Technology Inc., c/o Vienna, Virginia, telephone (703) 893-7475, fax (703) 893-3737

Councilor, 1995: **Vicki M. Bier**, University of Wisconsin, Department of Industrial Engineering, Madison, Wisconsin, telephone (608) 262-2064, fax (608) 262-8454, e-mail bier@ie.engr.wisc.edu

Councilor, 1995: **Thomas A. Burke**, The Johns Hopkins University, Department of Health, Policy, and Management, Baltimore, Maryland, telephone (410) 955-1604, fax (410) 614-2797, e-mail tburke@phnet.sph.jhu.edu

Councilor, 1997: **David E. Burmaster**, Alceon Corporation, Cambridge, Massachusetts, telephone (617) 864-4300, ext. 222, fax (617) 864-9954, e-mail deb@alexandria.lcs.mit.edu

Councilor, 1996: **Caron Chess**, Rutgers University, Cook College, Center for Environmental Communication, New Brunswick, New Jersey, telephone (908) 932-8795, fax (908) 932-7815, e-mail chess_c@aesop.rutgers.edu

Councilor, 1997: **Gail Charnley**, National Commission on Risk Assessment and Risk Management, Washington, D.C., telephone (202) 334-2689, fax (202) 334-2752, e-mail gcharnle@nas.edu

Councilor, 1996: **Yacov Y. Haimes**, University of Virginia, Center for Risk Management of Engineering Systems, Charlottesville, Virginia, telephone (804) 924-3803, fax (804) 924-0865, e-mail yyh4F@virginia.edu

Councilor, 1995: **Ray Kemp**, Dames & Moore International, Twickenham, United Kingdom, telephone 44-81-891-6161, fax 44-81-891-4457, telex 929861

Councilor, 1996: **Tohru Morioka**, Osaka University, Department of Environmental Engineering, Osaka, Japan, telephone 81-6-879-7676, fax 81-6-876-5094

Councilor, 1997: **Thomas E. McKone**, Lawrence Livermore National Laboratory and University of California, Davis, California, telephone (916) 754-8757, fax (916) 752-3394, e-mail tmck@llnl.gov

Executive Secretary: **Richard J. Burk, Jr.**, SRA Secretariat, McLean, Virginia, telephone (703) 790-1745, fax (703) 790-2672, e-mail sraburkmg@aol.com

¹Please note correction of President Paté-Cornell's e-mail address from that published in SRA's 1994 *Membership Directory*.

1995 SRA Committees

The 1995 Society for Risk Analysis committees and their chairs are as follows:

1995 Annual Meeting: **John D. Graham***

Awards: **D. Warner North** (see address on page 8)

Conferences and Workshops: **Yacov Y. Haimes***

Executive: **M. Elisabeth Paté-Cornell***

Finance: **Paul S. Price***

Future Structuring of the Society: **Robert G. Tardiff**

Gifts and Grants: **Elizabeth L. Anderson**, Sciences International Inc., Alexandria, VA, telephone (703) 684-0123, e-mail sciences@access.digex.net, fax (703) 684-2223

Meetings: **John D. Graham***

Membership: **Caron Chess***

Nominating: **James D. Wilson** (see address on page 7)

Publications: **Robert G. Tardiff***

Publicity: **Steven C. Lewis**, Exxon Biomedical Sciences Inc., East Millstone, NJ, telephone (908) 873-6063, fax (908) 873-6009

Sections and Chapters: **Rae Zimmerman**, New York University, New York, NY, telephone (212) 998-7432, fax (212) 995-3890, e-mail zimrmnr@acflcluster.nyu.edu

Specialty Groups: **W. Gary Flamm***

*Contact numbers are provided in roster at left. For complete addresses, see SRA's recently published 1994 *Membership Directory*.

Index Available

To request a *free*, five-year index of the quarterly journal *RISK — Health, Safety & Environment*, contact Carol Ruh at e-mail nhsnappa@aol.com; telephone (603) 228-1541, extension 108; fax (603) 228-0388 or 224-3342; or Franklin Pierce Law Center, 2 White Street, Concord, NH 03301.

Report from 1994 SRA Business Meeting

President Robert G. Tardiff opened the Society's 1994 business meeting on December 6 by announcing the results of the recent election (see story on page 1).

Annual Meeting Report. President-elect M. Elisabeth Paté-Cornell reported that the annual meeting program included 325 papers with 617 authors and that the attendance was a record 680.

Treasurer's Report. Treasurer Raymond F. Boykin said that the Society's finances had improved after many years of covering the costs of past commitments. He referred the membership to the financial report published in the fourth quarter issue of the newsletter and said that a financial report would be published annually hereafter.

Boykin pointed out that without gifts and grants and income from the annual meetings, workshops, etc., the annual dues would be \$120 to \$140, rather than the current \$75.

The dues are used to help support the journal (about \$37 per member), the newsletter, and the SRA Secretariat.

During the coming year the Finance Committee, chaired by Treasurer Paul S. Price, will review the dues structure and ask for input from the membership.

The long-range plans are to have at least one year of expenses in reserves

within five years. The Society now has about three months in reserves, and it has generated a positive cash flow the last two years. (Editor's Note: The 1994 expenses were estimated to be \$312,000 in 1994, down from \$361,000 in 1993.)

Workshop Report. Yakov Y. Haimes, chair of the Conferences and Workshops Committee, reported that five annual meeting workshops were conducted, with attendance varying from nine participants to about 80 (in the Monte Carlo workshop). He announced that new operational guidelines for workshops had been developed (see guidelines on page 10).

Outgoing President's Report. In conclusion, President Tardiff gave an overview of the Society's 1994 activities and goals (see below). Finally, President Tardiff introduced incoming President Paté-Cornell, as the "one who will take us into the future."

Incoming President's Remarks. President Paté-Cornell's first official act in her new office was to present a plaque of appreciation to the outgoing president and to thank him on behalf of the



Presidents M. Elisabeth Paté-Cornell (1994-95) and Robert G. Tardiff (1993-94).

entire membership. She said she hoped to build on the advances that had been made during 1994. In particular, she wants SRA to emphasize its multidisciplinary format and reattract those engineers, social scientists, and economists who seem to have left the Society. As diversity increases within the Society, she said, it will be reflected in the journal. She also requested suggestions for improvements from the current membership, urging all those present to fill out a form evaluating the annual meeting.

A town meeting to obtain feedback from the membership immediately followed the business meeting.

State of the Society—1994

Editor's Note: The following paragraphs are paraphrased highlights from the report given to the Society by departing President Robert G. Tardiff at the 1994 SRA business meeting.

I would like to bring you up to date on where things have gone this past year and where we think they are going in the future.

International Activities. Our Society was founded with an international focus, and this year we have tried to bring closer together our various geographic components. From the beginning, our goal has been to form international partnerships that will lead to greater advances in risk analysis.

We have two sections, SRA-Europe and SRA-Japan, both with representatives on the council who have been elected by the full SRA membership. Beginning next year, these sections will be electing their own representatives to the council.

SRA-Japan publishes its own journal, and in the future that journal and the Society's U.S. journal, *Risk Analysis*, will

begin publishing each other's table of contents. SRA-Europe is working to launch its own journal, and we hope to have similar exchanges with them.

We look forward to the 1995 joint U.S.-Japan meeting in Honolulu next December. The program plans presented to the council by SRA-Japan for their portion of the meeting deal broadly with engineering, the social sciences, and health questions. They have been very insightful and ambitious in putting their program together.

We have begun negotiations with SRA-Europe about the possibility of having a major symposium or workshop next fall that will deal with the similarities and differences in the underlying philosophy of risk assessment in the two parts of the world.

Finally, we have ongoing activities with our Russian colleagues. This year the RISK *newsletter* staff provided three-months training for a Russian intern. Efforts are under way to help groups in other countries, especially the Eastern European groups who are interacting with SRA-Europe.

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Domestic Activities. This annual meeting is a great success with a high-quality program, thanks to our new president and her committee. It has been especially gratifying to see the focus on interdisciplinary activities, as opposed to simply multidisciplinary descriptions, and to see the expansion of engineering topics.

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Our workshops have also been extremely successful this year. Curtis Travis resumed the introductory course on risk analysis, and we have had five workshops with a total of 163 participants at this annual meeting. This year we set in place a workshop-approval process that will help us maintain the quality of our workshops at the highest level.

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Our journal, *Risk Analysis*, is operating well. Since we have gone to six issues per year, we are continuing to maintain a backlog of papers but not so many that papers can't get published within a reasonable time. This next year we will have more representation on the editorial board from both engineering and the social sciences. This should increase the number of contributors and broaden the readership.

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We have about 2,100 members, including about 100 new members added at this meeting. Approximately 12% are non-U.S. members. Twelve countries are represented at this meeting.

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The Society has acquired several grants and we are negotiating for others. One grant is for residential exposure assessment and another is for developing distributions for exposure analysis. We are close to signing a cooperative agreement with the U.S. Environmental Protection Agency for multiyear support on a variety of different things within a workshop context. This is an excellent funding mechanism that will allow us to respond quickly to new topics without having to negotiate each time.

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We made a special effort this year to get volunteers involved in Society activities; 66 people signed up. We also established procedures for identifying and welcoming new members and provided an open forum for feedback to the council through a town meeting. We are pleased to see positive results from all these actions.

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We are also happy to be giving awards for the best student papers for the second year. This is a practice we plan to continue.

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Finally, Jim Wilson, the chair of the Nominating Committee, is accepting nominations for officers and councilors (see Call for Nominations, page 7).

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New SRA Committees. The Society has had four new committees at work during this past year. One is called Future

Structuring of the Society, and it deals with our interrelations with our Japanese and European colleagues, as well as those individuals and groups who want to form chapters or sections within their own countries. Jim Wilson as the immediate past president headed the committee last year, and I will be assuming that position this next year.

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Another new committee is Government Relations chaired by Don Barnes. This committee works to keep the Society aware of what is going on in the agencies and in Congress with regard to risk assessment.

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The Publicity Committee has been reestablished with Steve Lewis as the chair. That committee made special mailings in the Baltimore-Washington area to stimulate participation in this meeting and to gain the attention of the media.

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The fourth new committee is the Specialty Group Committee chaired by Gary Flamm. This committee is charged with finding all kinds of venues and opportunities for the specialty groups to work together.

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Support Groups. The Society could not function well without its two support groups: the SRA Secretariat and the RISK *newsletter* staff.

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The Secretariat has an extremely multitalented, dedicated, and energetic group, and I want to thank them all for making sure that those of us who serve in positions for only one year don't make too many mistakes.

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No less deserving is the newsletter staff at Tec-Com Inc. The high quality of the newsletter is attributable to their hard work and insight.

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Financial Status. The last issue of the newsletter contained a substantial article about the financial status of the Society. The intent of the article was to point out where we may have some weaknesses and where we need to try to control our financial destiny. The key determinant to this is managing our net revenues. As Ray Boykin pointed out, our cash reserves are weak. We're at about 25% of where we need to be in order to weather any possible downturns or to undertake some important research activity. We think we're going to make about \$25,000 this next year.

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A special thanks goes to Ray Boykin, our outgoing treasurer, for the tremendous job he has done over the past six years in trying to get us back on the road to financial health. Thanks also go to Betty Anderson, chair of the Gifts and Grants Committee. The committee brought in \$15,000 last year and \$16,000 this year.

SRA's 1995 Annual Meeting

The Society's 1995 Annual Meeting, co-sponsored by SRA-Japan, will be held December 3-6 in Honolulu, Hawaii.

Society Honors Six New Fellows

The Society for Risk Analysis honored six members as Fellows of SRA during the 1994 annual meeting. The honorees are as follows:

Halina Szejnwald Brown, who is a professor of environmental health, chair of the Program in Environment, Technology and Society, and director of the Environmental School at Clark University. Her current research areas are cancer epidemiology, molecular mechanisms of toxicity, environmental and occupational health in Eastern Europe, environmental public health policy, management of risks from toxic substances, transfer of hazardous technologies to developing countries, and pharmacokinetics of dermal absorption of chemicals. She has a doctorate in chemistry from New York University.

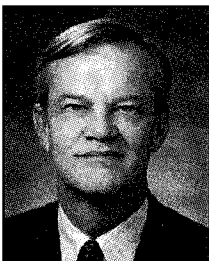


Brown

Before joining Clark University in 1985, Brown directed the Office of Research and Standards at the Massachusetts Department of Environmental Protection. She has served on numerous national and state advisory committees and is the governor's appointee to the Science Advisory Board of the Massachusetts Toxic Use Reduction Institute. Her many publications include the book *Corporate Environmentalism in a Global Economy; Societal Values in International Technology Transfer* (Greenwood Publishing, 1993).

Since joining SRA in 1984, she has been a co-organizer of the 1986 annual meeting and a member of the Nominating Committee (1990-91). She also is active in SRA's New England Chapter.

Peter Barton Hutt, a partner in the Washington, D.C., law firm of Covington & Burling. He received law degrees from Harvard University and New York University and is a member of the New York, District of Columbia, and Supreme Court Bars.



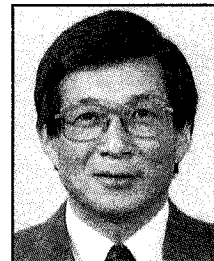
Hutt

Hutt specializes in food and drug law and is a lecturer on law at the Harvard Law School. He served as chief counsel for the Food and Drug Administration from 1971 to 1975. While there, he prepared the first federal regulations adopting quantitative risk assessment in regulating carcinogens, establishing safe levels for secondary carcinogens, and controlling environmental carcinogens.

His current activities include membership in the National Academy of Sciences' Institute of Medicine and serving on numerous boards and committees. He is legal counsel to the American College of Toxicology. He has co-authored a legal casebook on *Food and Drug Law: Cases and Materials* (Foundation Press, 2nd edition, 1991) and serves on several editorial boards.

A charter member of SRA, Hutt has twice served on the SRA Council and currently serves as the Society's legal counsel. He received SRA's Outstanding Service Award in 1993.

Saburo Ikeda, who is a professor and chair of the graduate program of socio-economic planning at the University of Tsukuba in Ibaraki, Japan. He received his doctoral degree in applied mathematics and physics from Kyoto University.



Ikeda

As a visiting fellow in 1980, Ikeda studied air pollution control policy at London University's Imperial College of Science and Technology. Later, as a Fulbright research scholar he worked on risk issues of advanced technology/biotechnology at Clark University's Center for Technology and Development. In 1984 he coordinated the first Japan-U.S. workshop on "Risk Management in the U.S. and Japan: A Comparative Perspective" (report in *Risk Analysis*, VIII, 2, 1988).

He completed a report on "Ecological and Economic Vulnerability and Resilience to Global Climate Change in the Case of the Japan Sea Rim" for Japan's Ministry of Science and Education in 1993. He currently is involved with several government committees associated with risk management of air pollution, wastes disposal, and global warming.

Ikeda is president of the SRA-Japan Section. He is a charter member and has served as secretary of the section since it began in 1988. Since joining SRA in 1985, he has served one term on the SRA Council.

Milton Russell, who is the director of the Joint Institute for Energy and Environment, a collaborative partnership between the University of Tennessee, Oak Ridge National Laboratory, and the Tennessee Valley Authority. He is also a professor of economics at the university and a collaborating scientist at the laboratory. He has a doctorate in economics from the University of Oklahoma.



Russell

Russell served as an assistant administrator of the U.S. Environmental Protection Agency in 1983-87. He led the agency's efforts to communicate, popularize, and implement a risk basis for its regulatory processes and actions and also initiated EPA's risk communication program.

Continuing in these efforts, he has consulted extensively with Chinese environmental authorities and has held numerous training seminars on risk-based decision making and risk management processes in China. He also was a member of the National Research Council's Committee on Risk Perception and Communication.

He has written and lectured extensively on energy and environment policy and served on numerous government and

private sector advisory committees. Currently he chairs the Oversight Review Board for the National Acid Precipitation Assessment Program.

Russell joined the Society in 1987 and has served as president of SRA's East Tennessee Chapter.

Lennart Sjöberg, who is a professor of psychology, head of the department of economic psychology, and founder of the Center for Risk Research at the Stockholm School of Economics in Sweden. His current research is in the risk perception of nuclear waste, food, and ultraviolet radiation. He has a doctorate from the University of Stockholm.

Prior to his work in Stockholm, Sjöberg was a professor at the University of Göteborg for several years, a visiting professor at Stanford University in 1987-88, and a research consultant for the U.S. Environmental Protection Agency at the Research Triangle Institute in 1988-89.

He is a member of the Royal Swedish Academy of Engineering Sciences, the New York Academy of Sciences, and the Scientific Council of the Swedish Air Force. A consultant in cognitive and social psychology, he is currently a member of Sweden's Royal Academy of Sciences' sub-committee on radiation protection research. He was part of the Swedish delegation to the United Nations Scientific Committee on the Effects of Atomic Radiation meetings in Vienna in 1990-92.

An SRA member since 1988, Sjöberg also is a member of SRA's European Section and a reviewer for *Risk Analysis*.

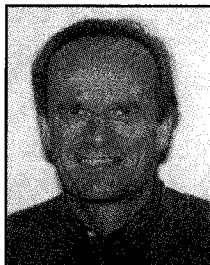
Detlof von Winterfeldt, who is a professor of systems management at the University of Southern California in Los Angeles and the president of Decision Insights Inc. His research interests are in the foundation and practice of decision analysis as applied to technology and risk management problems. He has a doctorate in mathematical psychology from the University of Michigan.

As a consultant, he has applied decision and risk analysis to many government and private industry management problems, such as managing risks from nuclear power plants or electromagnetic fields, siting waste disposal facilities, and choosing a technology for tritium production. He has also served as a member of the National Academy of Sciences' Committee on Risk Perception and Risk Communication and the Advisory Panel of the National Science Foundation's Decision and Risk Management Science Program, as well as a consultant to the NAS Board on Radioactive Waste Management.

Von Winterfeldt is the co-author of *Decision Analysis and Behavioral Research* (Cambridge University Press, 1986) and has written many articles on these topics. He has served on several editorial boards, including *Risk Analysis*. He joined SRA in 1982.



Sjöberg



Von Winterfeldt

Progress Report on REAP

The Editorial Committee of the Residential Exposure Assessment Project (REAP) met during the 1994 SRA Annual Meeting to finalize an outline for its reference textbook on residential exposure assessment, which has an expected completion date in 1996.

The committee also considered nominees for the expert working groups, which will meet in workshops and write textbook chapters on the following subjects: indoor consumer products, outdoor consumer products, sources of biological agents, building design and construction, physical agents, environmental sources, inhalation exposure assessment methods, dermal exposure assessment methods, ingestion exposure assessment methods, uncertainty analysis, exposure characterization/communication, human exposure factors, residential exposure factors, and supplemental data/information.

The committee will contact the nominated working group members and send queries to the REAP questionnaire survey respondents who said that they had data useful to the project.

REAP is a joint effort of SRA, the International Society of Exposure Assessment, and the U.S. Environmental Protection Agency, with funding provided by the EPA, the Chemical Manufacturers Association, the Chemical Specialties Manufacturers Association, Responsible Industry for a Sound Environment, and the Procter & Gamble Company.

For more information, contact REAP Management Committee Chair David McCallum at telephone (202) 828-8982, or Editorial Committee Member Jeffrey Driver at telephone (202) 828-8968.

Call for Nominations for SRA Officers

The SRA Nominating Committee invites nominations for the following offices in the Society's 1995 elections:

**President-elect
Secretary**

Councilor (three positions)

The secretary serves for two years and may be reelected to a second term. Secretary Gary Flamm is eligible for reelection.

Councilors serve for three years and are ineligible for reelection until one year has elapsed following the completion of their terms. Councilors Vicki Bier, Thomas Burke, and Ray Kemp will complete their terms in 1995.

Please submit nominations with a brief paragraph supporting each **by May 31** to the Nominating Committee chair:

James D. Wilson
10021 Springwood Dr.
St. Louis, MO 63124

Call for Nominations for SRA Awards

The Society for Risk Analysis Awards Committee invites nominations for the following annual awards:

The **SRA Distinguished Achievement Award** honors any person for extraordinary achievement in science or public policy relating to risk analysis.

The **SRA Outstanding Service Award** honors SRA members for extraordinary service to the Society.

The **Fellow of the Society for Risk Analysis** award recognizes and honors up to one percent of the Society's membership whose professional records are marked by significant contributions to any disciplines served by the Society and may be evidenced by one or more of the following: (a) recognized original research, application, or invention; (b) technical, scientific, or policy analysis leadership in an enterprise of significant scope that involves risk analysis in a substantial way; (c) superior teaching or contributions to im-

prove education and to promote the use of risk analysis that are widely recognized by peers and students; or (d) service to or constructive activity within the Society of such a quality, nature, or duration as to be a visible contributor to the advancement of the Society. Nominees must have been SRA members for at least five years and must now be members in good standing.

The Awards Committee members are Past Presidents D. Warner North (chair), Paul F. Deisler, Paul Slovic, and Chris G. Whipple. Please submit nominations and a brief paragraph supporting each **by May 31** to:

D. Warner North
Decision Focus Inc.
650 Castro Street, Suite 300
Mountain View, CA 94041-2055
Telephone (415) 960-3923, Fax (415) 960-3656

SRA International Reports

News from SRA-Europe

The Executive Committee of the Society for Risk Analysis-Europe met in Stuttgart, Germany, at the end of January. The 10-member committee includes new members Britt-Marie Drotz-Sjöberg of the Stockholm School of Economics' Center for Risk Research in Sweden and SRA Councilor Ray Kemp of Dames and Moore International in the United Kingdom.

The committee's agenda included electing a new president, reviewing the section's organizational structure, and considering ways to establish a better financial base, increase membership, and cooperate with other European groups active in risk analysis. A possible joint SRA/SRA-Europe workshop on the principles of risk analysis in Europe and the United States was also to be discussed.

1995 Annual Meeting, May 21-25. The committee finalized plans for the section's 1995 Annual Meeting to be held May 21-25 in Stuttgart, Germany. Participants may register for a post-conference workshop on "Management Strategies for Eco-Efficiency and Cooperation," which the University of Pennsylvania's Wharton School is co-organizing with the Center of Technology Assessment in Baden-Württemberg. It will begin the afternoon of May 24 and end the evening of May 25.

For information on the workshop, contact Sigrun Gmelin-Zudrell in Stuttgart at telephone 49-711-9063-161, fax 49-711-9063-299, or e-mail sra.95@afta-bw.de.

1996 Annual Meeting, June 3-5. The section has begun preparations for its 1996 annual meeting on June 3-5 at the University of Surrey in the United Kingdom. The conference director is Ragnar E. Löfstedt of the university's Centre for Environmental Strategy. To receive information and the call for papers, send your name, address, and fax number to the conference administrator, Jean Libaert, Centre for Environ-

News from SRA-Japan

The Society for Risk Analysis-Japan has scheduled its Spring Annual Meeting and Seminar on the topic "Risk Communications in Product Liability Problems" at the University of Tokyo on June 3, 1995.

The section's Eighth Annual Meeting and Symposium will be held in conjunction with the 1995 SRA Annual Meeting on December 3-6 in Honolulu, Hawaii.

SRA-Japan also will co-sponsor the Second Japan-China Symposium on Traffic Safety and Health in Tokyo on April 18-20 and the International Conference on Probabilistic Safety Assessment—Methodology and Applications in Seoul, Korea, on November 26-30.

The *Japanese Journal of Risk Analysis*, Volume 6, Number 1, was published in December 1994 and is available through the SRA-Japan Secretariat. It includes a table of contents and summary in English. The section intends to publish two volumes of the journal in 1995, one in Japanese and the other in English.

For further information on SRA-Japan, contact Saburo Ikeda, Society for Risk Analysis-Japan Section Secretariat, University of Tsukuba, Institute of Socio-Economic Planning, Tsukuba, Ibaraki 305, Japan, telephone 81 2 98 53 5380, fax 81 2 98 55 3849, e-mail ikedas@shako.sk.tsukuba.ac.jp

mental Strategy, University of Surrey, Guildford, Surrey, GU2 5XH, United Kingdom, fax 44 (0) 1 483 259394.

For further information on SRA-Europe, contact W. Leyens-Wiedau, Society for Risk Analysis-Europe, Procter & Gamble Company, Postfach 2503, Sulzbacher Strasse 40, D-65818 Schwalbach a. T., Germany, telephone 49 6196 89 4398, fax 49 6196 89 4476.

SRA Specialty Groups

Highlights from the Society's specialty group meetings during the 1994 SRA Annual Meeting in Baltimore are reported as follows:

The **Ecological Risk Assessment Specialty Group** elected William Alsop of Harding Lawson Associates as the 1994-95 chair. The members reaffirmed the group's goals to assist with the next SRA annual meeting, to act as a clearing-house or resource for ecological risk assessment information, and to provide liaison between SRA and the Society for Environmental Toxicology and Chemistry.

The group discussed how the multidisciplinary SRA could support ecological risk assessment development in ways that a society which focuses on one discipline cannot, and many of the topics suggested for the 1995 Annual Meeting demonstrate that premise. The topics include ecological risk communication, Monte Carlo applications to ecological risk assessment, the ecological risk assessment process, conceptual site models, holistic risk assessments, natural resource damage assessments, water resource management, multiple competing risks, and international ecological risk assessments—particularly from the Japanese/Asian perspective.

To suggest other annual meeting topics or request information about the group, contact Bill Alsop at telephone (415) 884-3136 or fax (415) 884-3300.

The **Engineering Specialty Group** discussed a charter, changing its name, and engineering participation in SRA. Ralph F. Miles of the University of Southern California's Institute for Safety and Systems Management chaired the meeting and also volunteered to draft a charter and distribute it to the group for comment.

The group proposed changing its name to Engineered Systems Analysis Specialty Group and has requested the SRA Council's approval of this action.

Although the group did not resolve the issue of low engineering participation in SRA, they agreed that it was primarily the choice of the engineers and not due to discrimination on SRA's part. They noted that it is no doubt due, in part, to the difficult time engineers in the aerospace, defense, and nuclear power industries are having.

To receive a copy of the proposed charter, contact Ralph Miles at telephone (818) 798-7096, fax (818) 798-5066, or e-mail rmiles@mizar.usc.edu.

The **Exposure Assessment Specialty Group** elected John C. Kissel of the University of Washington as secretary/chair-elect. He serves with the 1994-95 chair Thomas E. McKone of Lawrence Livermore National Laboratory.

The group discussed potential topics for future annual meeting symposia, including exposures to consumer products, occupational and residential exposures to pesticides, application of structure-activity relationships in exposure assessment, differences in exposure assessment practices across international boundaries, and a competitive comparison of available exposure models. In addition, McKone enlisted volunteers to

Dose-Response Specialty Group Approved by SRA Council

The Society for Risk Analysis Council chartered the Society's new **Dose-Response Specialty Group** on December 4, 1994. According to the bylaws that the group ratified on January 3, its mission is to facilitate the exchange of ideas on dose-response assessment, encourage collaborative research, provide leadership, and play an active role in advancing issues related to dose-response assessment.

The group's recently elected officers are President Michael Dourson of Toxicology Excellence for Risk Assessment and Secretary-Treasurer Scott Baker of EA Engineering, Science & Technology Inc. The Executive Committee members-at-large are Helen Goeden of the Minnesota Pollution Control Agency; Bradley Schwab of Ogden Environmental & Energy Services; Bonnie Stern of EA Engineering, Science & Technology Inc.; Vickie Tatum of the National Council of the Paper Industry for Air & Stream Improvement; and John Vandenberg of the U.S. Environmental Protection Agency's Health Effects Research Laboratory.

The group is soliciting ideas and proposals for symposia and track topics at the 1995 and 1996 SRA annual meetings. Some of the topics which they are considering include distributional, multivariate, uncertainty, and variability analysis; ecological risk assessment benchmark doses and their relation to human benchmark doses; severity factors; safety factors; international harmonization; globalization of an IRIS-like system; and a comparative analysis of different methods for establishing safety by various organizations, such as the EPA and the Agency for Toxic Substances and Disease Registry.

The group meets via a telephone conference on the first Tuesday of every month. For more information on the group or its conference calls, or to offer ideas for the annual meeting programs, contact Scott Baker at e-mail sb@eaeng.mhs.compuserve.com, telephone (301) 565-4216, or fax (301) 587-4752.

serve on a planning committee for the proposed joint meeting of SRA and the International Society of Exposure Analysis in 1996.

The group discussed the status of its ongoing projects, including the Residential Exposure Assessment Project (see page 7) and the U.S. Environmental Protection Agency-sponsored distribution development document.

In response to a discussion about Internet resources, Clifford S. Duke of Common Sense Environmental volunteered to compile a directory of exposure assessment information already accessible via the Internet, suggestions for materials the group may want to add, and guidance on how to access Internet information. *(Continued on page 10.)*

Guidelines Approved for Workshops and Conferences

SRA Councilor Yacov Y. Haimes, chair of the Conferences and Workshops Committee, reports that the committee and the SRA Council have approved the following operational guidelines for all conferences and workshops sponsored or co-sponsored by the Society except the SRA Annual Meeting.

Classifications. The Society has three classifications for conferences and workshops:

Class 1. SRA organizes and runs the event with complete technical, logistical, and financial responsibilities.

Class 2. SRA co-sponsors and co-organizes the event with other organizations and with financial responsibility.

Class 3. SRA co-sponsors the event without technical or financial responsibility.

Procedures for Requesting Sponsorship. A request for sponsorship of a Class 1 or 2 event should include the following: (1) title of activity, (2) names of organizers with complete address and telephone and fax numbers, (3) goals, objectives, and importance of the proposed activity, (4) intended audience, (5) outline of the activity, (6) names of principal partici-

pants, and (7) a detailed budget. Item 7 must include the number of expected attendees, the fee to be charged, itemized cost for all projected expenditures (including any honoraria), and expected amount of subsidy or financial responsibility to be requested from SRA.

The request for sponsorship of a Class 3 event should include items (1) through (6) above plus the following: names of other sponsoring societies, if any, and a request for access to SRA's mailing list. (SRA should be compensated for the costs associated with providing the mailing labels.)

The organizer of an approved Class 3 event should clearly acknowledge SRA for its sponsorship.

Committee Reviews. All requests for sponsorship should be sent to the SRA Secretariat, who will distribute them to the committee members. The members will have two weeks to communicate directly to the committee chair whether they approve, reject, request further clarification of, or suggest modifications to a request.

A committee member who votes to reject a request for sponsorship may specify whether he will accept the
(Continued on page 12.)

Call for Proposals

The SRA Committee on Conferences and Workshops is soliciting proposals for tutorial workshops to be conducted in conjunction with the Society's 1995 Annual Meeting in Honolulu, Hawaii, December 3 - 6. All proposals should be submitted to the SRA Secretariat.

Specialty Groups

(Continued from page 9.)

To make other activity suggestions, contact Tom McKone at telephone (916) 754-8757, fax (916) 752-3394, or e-mail tmck@lnl.gov, or John Kissel at telephone (206) 543-5111, e-mail jkissel@dehpost.sphcm.washington.edu, or fax (206) 543-8123.

The **Risk Communication Specialty Group** elected Branden B. Johnson of the New Jersey Department of Environmental Protection as the 1995 chair. Steven Lewis of Exxon Biomedical and Ragner E. Löfstedt of the University of Surrey were elected to the group's executive committee.

Secretary-Treasurer Ann Bostrom of the Georgia Institute of Technology and Löfstedt will coordinate risk communication sessions for the 1995 SRA Annual Meeting. Submit ideas to Bostrom at telephone (404) 894-9629, fax (404) 853-0535, or e-mail ab51@hydra.gatech.edu or to Löfstedt at e-mail r.lofstedt@surrey.ac.uk.

The working group that is compiling an annotated bibliography of risk communication materials suitable for industry use expects to complete their work early in 1995. For further information on the project, which is funded by the Chemical Manufacturers Association, contact Lewis at telephone (908) 873-6063 or fax (908) 873-6009.

B. Jon Klauenberg of the Armstrong Laboratory is studying the feasibility of a risk communication newsgroup on the Internet and requests those who are interested to contact him at e-mail klauenberg@rfr.brooks.af.mil.

The chair is accepting nominations for the 1996 chair, a secretary-treasurer, and three executive committee members. To place nominations on the ballot or request information, contact Branden Johnson at telephone (609) 633-2324, fax (609) 292-7340, or e-mail brandenj@cohsi.rutgers.edu.

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Risk Policy Analyst

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Newsletter Contributions: Send to Editor, RISK newsletter, Tec-Com Inc., 1303 Wilson Road, Knoxville, TN 37912; office numbers: Mary Bryant, telephone (615) 689-5315; fax (615) 688-9888, e-mail bryant@usit.net; Lorraine Abbott, Amy Reed, and Katie Ingersoll, telephone (615) 691-0176, fax (615) 691-0229, e-mail abbott@usit.net

Workshop Guidelines *(Continued from page 10.)*

committee's majority vote or believes that the reasons for rejection are strong enough to merit a discussion. If the chair cannot reach a consensus with the member, then the committee will decide on the request via a conference telephone call. Unless rejections with strong reasons exist, a majority vote will prevail.

If a request receives approval with a weak majority, the chair may delay or withhold the decision until more committee members are willing to approve it. The chair may also initiate a peer review of a request if the committee needs additional expertise.

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SRA Conferences and Workshops Associated with Funded Projects. If an SRA project funded by an outside agency requires that a workshop or conference be conducted as part of the project, the workshop or conference will fall under Class 1.

Committee Members. Committee members serving with the chair are George Apostolakis of the University of California, Los Angeles; Allison Cullen of the Harvard School of Public Health; Robert B. Cumming, Consultant; Adam Finkel, formerly of Resources for the Future; Stanley Kaplan of PLG Inc.; and Ruby Reed of the California Environmental Protection Agency.

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