International Strategy
For Chemical Safety

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The Japan Section of the Society for Risk Analysis expects approximately 50 of its members to attend the 1995 SRA Annual Meeting in Hawaii, which the section is co-sponsoring.

The section’s Executive Committee for the Joint Meeting in Hawaii has organized four symposia and 38 oral and poster presentations for the meeting. The committee’s chair, Dr. Eiji Yokoyama, former dean of the Institute of Public Health, will speak on “Health Risk Assessment in Japan” at the opening plenary session on Monday, December 4.

Symposia. The section’s president, Saburo Ikeda of the University of Tsukuba, is organizing a symposium roundtable on “Environmental Policy for Reducing Human Risk in Japan,” which will focus on the scientific, research, decision process, administrative, and public risk management in Japan. Former SRA President D. Warner North of Decision Focus Inc. will join Japanese representatives on the panel.

Two symposia will address “Perceived Risks of Nuclear Power and Other Dreadful Risks,” interpreting risk perception in the socio-cultural context based on the results of questionnaire surveys taken in France, Japan, and the United States. Committee member Hirota Hori of Tokyo Women’s Christian University and former SRA President Paul Slovic of Decision Research are chairing the sessions, which will include speakers from Japan and the United States.

SRA Councilor Tohru Moroaka of Osaka University and Atsushi Takao of Kobe University are organizing the symposium “Risk Management and Crisis Management in the Kobe Earthquake,” which will include presentations on fire risk, risk management in rescue and life support, and risk perception and risk-related behaviors associated with the earthquake of January 17, 1995.

Japan Section Track. The Japan Section’s symposia and presentations will be organized in one track, which will run throughout the meeting at one location. All presentations will be made in English.

Kemp Is SRA-Europe President

The new president of SRA-Europe is Ray Kemp, who also recently became director of risk management with the London-based international environmental consulting firm EnTec UK Ltd. He was formerly a managing principal with the engineering consultants Dames and Moore in London. He specializes in controversial projects and has extensive experience in working with government and industry in the United Kingdom and Europe on major developments with environmental impact and risk implications.

President Kemp, a member of SRA-Europe since 1988, is committed to the principles and objectives of the Society for Risk Analysis and wants to see its membership develop throughout the evolving European region. “I am particularly keen to find ways of encouraging both practitioners and young scholars in the field of risk assessment to join the Society and to develop their analytic and communication skills in tackling practical environmental problems,” he said.

After receiving his doctorate in planning and the nuclear industry from the University of Wales in Cardiff, Kemp worked on the Sizewell Inquiry Review Project at the University of East Anglia in Norwich, England, and later joined the university’s Environmental Risk Assessment Unit as its first post-doctoral researcher, specializing in the public acceptance of risk, risk perception, and risk communication for a number of environmental problems. He also became a lecturer in planning and environmental risk assessment and later the coordinator of the university’s World Health Organization Collaborating Centre for Environmental Risk Assessment and Communication.

In 1992, SRA elected Kemp as a councilor, his term ending this year. SRA-Europe elected him to its Executive Committee in 1994, and he has also served on the organizing committees of three SRA-Europe conferences.

Executive Committee Members

Current members of the SRA-Europe Executive Committee include the secretary, Britt-Marie Drottz Sjöberg of the Stockholm School of Economics’ Center for Risk Research in Sweden; the treasurer, Martin Brüstlein of F. Hoffmann-La Roche AG in Switzerland; the membership chair, Catherina Zvetkoff of Faculté de Droit in Belgium; the publications and journal chair, Philippe Hubert of l’Institut de Protection et de Sûreté Nucléaire in France; Vitaly Eremenko of the Kurchatovsky Institute’s Russian Research Center in the Russian Federation; Paolo Vestrucci of NIER in Italy; and the past president, Detlef Müller of Procter & Gamble GmbH in Germany. Also on the committee are Ortwin Renn of the Center of Technology Assessment in Baden-Württemberg in Germany, who organized the 1995 SRA-Europe Annual Meeting, and Ragnar Löfstedt of the University of Surrey’s Centre for Environmental Strategy in the United Kingdom, who is organizing the 1996 Annual Meeting.
250 Participate in SRA-Europe Meeting

Featuring the theme "Risk Analysis and Management in a Global Economy," the 1995 Annual Meeting of the Society for Risk Analysis–Europe drew more than 250 participants from 30 countries. The Center of Technology Assessment in Baden-Württemberg organized the conference, which was held May 21-25 in Stuttgart, Germany.

"The conference succeeded in bringing people from different disciplines and professional backgrounds together," stated conference organizer Ortwin Renn in a special report to the RISK newsletter. Renn, a director of the Center of Technology Assessment in Baden-Württemberg, also said that most participants switched sessions from one track to another and searched for dialogue beyond disciplinary boundaries.

Attendees presented 120 technical papers and 48 posters in the following four thematic tracks:

- The contributions of professional risk analysis to risk management and policy implementation in Central and Eastern Europe: Bridging the gap between Western and Eastern practice. Chair: Adrian Gheorghe of ETH Zürich.
- Risk perception, communication, and mediation: Coping with diversity and plural values. Chair: Peter Wiedemann of the Research Center Jülich.
- New developments in risk analysis: Case studies and experiences in the environmental, ecological, food, safety, transportation, and other risk-related fields. Chair: Hans-Joachim Seidel of the University of Ulm in Germany.

1995 Award Recipient

At the opening reception, the 1995 SRA-Europe Distinguished Scientific Work Award was presented to Ben Ale of the National Institute for Health and Environment in Bilthoven, Netherlands. He was cited for his pioneering work in applying probabilistic risk assessment methods to the petrochemical industry.

Speakers

Speakers at the opening sessions included Baden-Württemberg's Prime Minister Erwin Teufel, who reviewed prominent risk-related policies in Germany and discussed the gap between rich and poor countries in actual exposure to environmental risks. Elisabeth Paté-Cornell, president of the international Society for Risk Analysis and a professor of industrial engineering and engineering management at Stanford University, talked about learning across the disciplines and stated that even more powerful assessment tools are needed to treat uncertainties in risk analysis. She expressed hope that the problems posed by traditional risk analysis could be addressed worldwide. Outgoing SRA-Europe President Detlef Müller of Proctor and Gamble in Germany expressed his hope that the meeting would help to bring together risk analysis efforts in Western and Eastern Europe.

Introducing the four tracks were Liviu Muresan, president of the European Institute for Risk, Security, and Communication Management in Bucharest, Romania, who spoke on the urgent need for Western specialists to assist Eastern European countries in cleaning up toxic materials and nuclear wastes left at former military installations; Georg Mehl, chairman of the insurance company Württembergische Versicherung AG in Germany, who discussed the role of insurances for environmental risk management, warning that insurers could not assume the burden of safety control; Josée van Eijnhoven, director of the Rathenau Institute for Technology Assessment in the Netherlands, who reviewed ongoing studies on risk perception and communication, emphasizing that risk behavior cannot be modeled on the basis of technological data alone; and Bertrand Munier, director of the Research Group (Continued on page 4.)
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difficult health risks (such as mutagenicity, carcinogenicity, and reproductive effects).

Chemical Risk Assessments

In order to use the test results effectively in chemical risk assessments, efforts are under way to develop common assessment principles and procedures. Significant progress has been made in creating the principles for the screening data being developed on the industrial chemicals produced in large volumes. However, it is recognized that activities leading to exposure vary greatly from country to country, thus precluding the possibility of assessing risks in exactly the same way for all countries.

Identified Goals

At the United Nations Conference on Environment and Development (UNCED) held in Rio de Janeiro in 1992, countries agreed that by the end of the century at least 500 chemical reviews should be completed by the international community. The United States is hosting an international consultation with the International Program on Chemical Safety, which operates under the United Nations Environmental Programme, to develop a process to set priorities and establish a work plan.

Regulatory coordination will be more difficult but must be addressed.

“Coming out of environmental and trade agreements are a host of responsibilities for nations to uphold chemical standards and maintain transparency in actions to ensure they are not infringing on international trade,” Dr. Goldman said, pointing out that the EPA has worked closely in the trade negotiations for NAFTA (North American Free Trade Agreement) and GATT (General Agreement on Tariffs and Trade) to ensure that these agreements protected the environmental and public health standards of the countries.

Dr. Goldman believes that international cooperation in chemical risk stewardship is essential, and that pollution prevention and risk reduction strategies must be applied in all countries. The imperative for such cooperation, she said, “was made tragically clear with the [1984] chemical explosion in Bhopal, India.”

SRA-Europe Meeting
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of Risk, Information and Decision at Ecole Normale Supérieure de Cachan in France, who explained the opportunities of using fuzzy logic in risk assessment and said that uncertainty coefficients can now be modeled with higher reliability.

Plenary speaker Hans Allgeier, director of the E.C. Institute for Prospective Technological Studies in Spain, focused on energy systems and communication technologies. He advised risk managers to develop more resilient strategies in regulating technologies since the future remains undetermined and it is impossible to foresee all negative consequences of any new technology.

Other meeting highlights included a report on the interdisciplinary project Risk and Safety of Technological Systems conducted by the Swiss Institute of Technology, and a panel discussion on risk communication, in which one panelist concluded that communication among communication specialists must be successful before communication with the public will be.

Eastern and Central Europe

“Many participants were particularly interested in the sessions dealing with risk problems in Central and Eastern Europe,” Renn stated.

Forty invited speakers from the two regions reported on the environmental problems that their countries face in making the transition to a market economy. Topics included the effects of the Chernobyl accident and the health problems induced by environmental pollution and rapid lifestyle changes.

“Most interesting was the finding that mortality was highly correlated with country or region, but less so with actual levels of pollution or other environmental factors,” Renn stated.

Future Plans

Future plans for SRA-Europe include finalizing plans to publish a journal and increasing communication by using the Internet, says the section’s new president Ray Kemp, who began his term at the meeting (see page 2).

The section is also planning its 1996 Annual Meeting, to be held June 3-5 at

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SRA-Europe Meeting
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the University of Surrey in Guildford,
United Kingdom. The conference
director, Ragnar Löffstedt of the
University's Centre for Environmental
Strategy, has scheduled a conference
planning session on September 7 at
the university, which will be followed by a
meeting of the section's executive com-
mittee on September 8.

President Kemp will attend the
1995 SRA Annual Meeting in Hawaii
and co-chair the symposium "Nuclear
Waste Facility Siting: Country and Cul-
tural Comparisons of Conflict and Reso-
lution" with SRA-Europe's Past Presi-
dent Marc Poumadère of Ecole Normale
Supérieure de Cachan in France (see
Member News) and member Claire
Mays of Institut SYMLOG in France,
who is organizing the symposium.

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833 9090.

Annual Meeting
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workshops, hotel accommodations, and
tours; a schedule of the sessions, includ-
ing topics and presenters; and registra-
tion forms and information.

Additional tracks. In order to ac-
commodate all of the paper submissions,
nine concurrent tracks have been sched-
uled—three tracks more than the 1994
SRA Annual Meeting required. One
track is devoted to the papers and sym-
posia organized by the Japan Section.

Extended sessions. The meeting's
final sessions will end Wednesday at 5
p.m., instead of earlier in the afternoon
as in previous years.

Regulatory reform session. A spe-
cial plenary session titled "Impact of
Regulatory Reform Legislation" is
scheduled for Wednesday morning,
December 6. SRA councilor Gail
Charnley of the Commission on Risk
Assessment and Risk Management will
chair the session. The speakers, includ-
ing Frederick R. Anderson of
Cadwalader, Wickersham, and Taft,

New SRA Advisory Board Established

A new Advisory Board has been established by the SRA Council to
stimulate further development of the Society.

The Advisory Board's mission is to consider the areas of risk analysis now
represented within SRA in order to evaluate the Society's coverage of the
field and to identify new areas that might usefully be added. The intent is to offer
advice to the SRA Council on how the Society might better serve its members
and the public by either continuing or modifying its emphasis on, and approach
to, these areas.

While the Advisory Board will primarily give technical and scientific
advice, it may also provide advice on philosophical, policy, educational, finan-
cial, membership, organizational, or administrative matters—provided its aim is
to improve the way SRA covers the important fields within risk analysis.

SRA members who have been appointed to the Advisory Board by SRA
President M. Elisabeth Paté-Cornell include Paul F. Deisler Jr. (chair), who is
retired from Shell Oil Company; William H. Farland of the U.S. Environmental
Protection Agency; Ann B. Fisher of the Pennsylvania State University; and B.
John Garrick of PLG Inc. These four initial members, all of whom actively
participate in SRA matters, bring to the Advisory Board a diversity of back-
grounds, with experience in the areas of academia, government, consulting, and
industry and with interests in the application of risk analysis across the disci-
plines.

The SRA president may appoint additional members from time to time
to increase the scope of the backgrounds within the Advisory Board. In addition,
each SRA sustaining member donating an annual contribution of $5000 or more
to the Society will be invited to appoint a representative to the Advisory Board.
In this way, organizations with a high level of interest in and financial commit-
tment to the Society will have an opportunity to contribute to the Advisory
Board’s work and, ultimately, to the direction of the Society.

Brett Burk of the SRA Secretariat will provide support to the Advisory
Board, which solicits and welcomes SRA members’ ideas for the Society’s
improvement and development. Please send your ideas to Paul Deisler, P.O.
Box 5819, Austin, TX 78763, fax (512) 480-9810, or Brett Burk at the Secre-
tariat (see masthead on page 12).

Lester B. Lave of Carnegie Mellon
University, Gilbert S. Omenn of the Uni-
versity of Washington, and Paul Slovic
of Decision Research, will discuss their
views and challenge one another’s views
on how U.S. regulatory reform legis-
lation will affect the risk communication,
cost/benefit, health, and judicial review
aspects of risk regulation. The audience
will also have an opportunity to debate
and question the issues.

Specialty group meetings. The five
SRA specialty groups will hold their
meetings at two different times to allow
attendees to participate in more than
one group. Two groups will meet one
day, and three groups another day.

Pre- and post-meeting opportu-
nities. For annual meeting attendees who
plan to spend a few vacation days in
Hawaii before or after the meeting, the
Secretariat has arranged for the confer-
ence rate for the hotel rooms to extend
from November 29 through December
9. The Secretariat is also arranging for
special room rates at hotels on the in-
land of Maui and the "Big Island" of
Hawaii. Attendees who would like to
visit either or both of these islands will
make their own hotel reservations, as
well as their own travel arrangements
through one of Hawaii’s inter-island air
shuttles (after arriving in Hawaii or ear-
lier through a travel agent).

For more information about the
1995 SRA Annual Meeting, read the
preliminary program or contact the Sec-
retariat in McLean, Virginia (see mas-
thead, page 12).
Nominations for 1995 SRA Elections Announced

The Society for Risk Analysis Nominating Committee, which is chaired by former SRA President James D. Wilson of the Center for Risk Management, Resources for the Future, has announced the nominations for the 1995 SRA elections to be held this fall. The committee members include Alison C. Cullen of the University of Washington, Clifford S. Duke of CommonSense Environmental, Robert G. Hetes of Research Triangle Institute, Stanley H. Levinson of B & W Nuclear Technologies, Linda-Jo Schierow of the Congressional Research Service, and Daniel R. Smith of SCIENTECH Inc.

The Society will choose a president-elect, a secretary for a two-year term, and three councilors, each for three-year terms. The nominees for these positions are introduced below.

President-elect: Kasperson vs. Zimmerman

Roger E. Kasperson has been provost at Clark University since 1992, where he is also a senior researcher at the Center for Technology, Environment, and Development (CENTED) and the George Perkins Marsh Institute. He has a B.A. from Clark University and an M.A. and a Ph.D., both in geography, from the University of Chicago. He has written numerous books and publications on technological risks, risk communication, risk policy, radioactive wastes, and global environmental change. His latest book Regions at Risk: Comparisons of Threatened Environments (United Nations University Press) will be released in September.

Kasperson chairs the International Geographical Union’s Commission on Critical Environmental Situations and Regions, which has over 200 members in 42 countries, and is a member of the Social Science Research Council Committee on Global Environmental Change Research. He is a fellow of the American Association for the Advancement of Science and has been honored for his work on environmental hazards by the Association of American Geographers. He has served on numerous committees of the National Research Council and the National Science Foundation, as well as the subcommittee on risk reduction strategies for the Science Advisory Board’s report to the U.S. Environmental Protection Agency, Reducing Risk: Setting Priorities and Strategies for Environmental Protection (1992).

A charter member of SRA, Kasperson served on the SRA Council in 1989-93 and was general program chair of the 1986 SRA Annual Meeting. He has also served on the editorial board of Risk Analysis.

Rae Zimmerman is professor of planning and public administration at New York University, where she has been a member of the faculty since 1973. She initiated and directs the university’s Summer Institute in Risk Management in Environmental Health and Protection, including quantitative risk assessment. She has a B.A. in chemistry from the University of California at Berkeley, a master’s degree in city planning from the University of Pennsylvania, and a Ph.D. in planning from Columbia University. She has conducted research in and teaches environmental management, risk communication, public perceptions of environmental risk, water quality, hazardous wastes, chemical usage, and transportation. Her recent research has focused on socioeconomic characteristics of communities with inactive hazardous waste sites and their implications for environmental equity policy, and she will be directing an environmental and transportation infrastructure performance project that includes safety and health risk issues of engineered systems. She has been a consultant with engineering firms and government, including the EPA. Her publications include Governmental Management of Chemical Risk (Lewis Publishers Inc., 1990) and, most recently, "When Studies Collide: Meta-analysis and Rules of Evidence for Environmental Health Policy Applications to Benzene, Dioksin, and Formaldehyde" (Policy Studies Journal, 1995), as well as articles on the 1993 Mississippi floods in The Sciences (1994) and environmental equity in Fordham Urban Law Journal (1994) and Risk Analysis (1993).

Among her professional activities, Zimmerman has served on panels for the Risk Science Institute of the International Life Sciences Institute, Harvard Center for Risk Analysis, the U.S. Congress Office of Technology Assessment, and the American Arbitration Association. Currently, she is on an advisory panel of the National Science Foundation’s Decision, Risk, and Management Science Program.

A charter member of SRA, Zimmerman served as a councilor in 1991-94, has chaired the Sections and Chapters Committee since 1992, and is a member of the Gifts and Grants Committee. Her participation in SRA annual meetings includes organizing panel sessions and coordinating a social science track. She is a co-founder and a former president of the SRA Metropolitan Chapter (CT-NJ-NY).

Secretary: Flamm vs. Hakkinen

W. Gary Flamm is president of Flamm Associates, consultants in toxicology and food and drug regulations (see Member News). He holds a B.S. in pharmacy, an M.S. in pharmaceutical chemistry, and a Ph.D. in biochemistry from the University of Cincinnati Medical School. His career in the U.S. Public Health Service spanned 25 years at the National Institutes of Health and the Food and Drug Administration, where he was involved in health and safety evaluation of chemicals and their regulations and held several high-level positions. He is an internationally recognized authority in risk and safety evaluation of carcinogens and other toxic agents and several times has given testimony on the safety of substances in the food supply before the U.S. Congress. In addition, he has held academic appointments in several major universities.

In 1985 Flamm was named one of the first two fellows of the American College of Toxicology, for which he is a former president. He is also a past president of the International Society for Regulatory Toxicology and Pharmacology. He serves on the editorial boards of seven journals addressing toxi-

Flamm, a charter member of SRA, was elected SRA secretary in 1993 and will complete his two-year term in December. He is a former SRA councilor (1987-90) and has served on the editorial board of Risk Analysis.

Perri J. (Bert) Hakkinen is a senior scientist in toxicology and risk assessment with Procter & Gamble Company in Cincinnati, Ohio, where he conducts human exposure and risk assessments for numerous consumer products. He has a B.A. in biochemistry and molecular biology from the University of California at Santa Barbara and a Ph.D. in comparative pharmacology and toxicology from the university’s San Francisco campus. Before joining Procter & Gamble, he was a postdoctoral investigator in toxicology and in exposure and risk assessment at the Oak Ridge National Laboratory.

Hakkinen has chaired the Chemical Manufacturers Association’s Exposure Assessment Task Group since 1991. He has been an invited expert at several U.S. Environmental Protection Agency-sponsored workshops to develop or revise human exposure assessment guidance and resource documents and is a lecturer on exposure and risk assessment at the University of Cincinnati. He was on the editorial board of Toxicology for eight years and has been invited to be a co-editor of Information Resources in Toxicology, Third Edition.

A charter member of SRA, Hakkinen is a councilor and former president of SRA’s Ohio Chapter. In 1991, he originated the SRA Exposure Assessment Specialty Group’s “Reference House” effort and, in 1992 and 1993, co-organized two SRA Annual Meeting workshops related to that effort. This led to the Residential Exposure Assessment Project for which Hakkinen is an editorial committee member (see REAP, page 8).

Councillor: Evans vs. Jarabek

John S. Evans is senior lecturer on environmental science and directs the environmental health and public policy program at the Harvard School of Public Health. He is also a core faculty member at the Harvard Center for Risk Analysis. Previously he was a bioenvironmental engineer in the U.S. Air Force and a fellow with the U.S. Nuclear Regulatory Commission’s Advisory Committee on Reactor Safeguards. He has a B.S.E. in industrial engineering and an M.S. in water resources management from the University of Michigan at Ann Arbor and both an S.M. and a Sc.D. in environmental health sciences from Harvard. His research has focused on characterizing uncertainty in estimates of environmental exposure and risks and on analyzing the value of improved information in support of environmental health decisions. Evans has sought to expand the role of risk assessment in environmental decision making outside the United States through his involvement with courses, workshops, and risk assessment activities in several countries.

A charter member of SRA, Evans has served on the Risk Analysis editorial board since 1988, was the SRA New England Chapter president (1988-89), and is a 1995 SRA Annual Meeting Committee member.

Annie M. Jarabek is a toxicologist for the U.S. Environmental Protection Agency’s Office of Research and Development in Research Triangle Park, North Carolina, with a B.S. in biology from the University of Notre Dame and graduate work in inhalation toxicology at the University of Cincinnati Medical Center. She is the principal author of the EPA methods to derive inhalation reference concentrations (RfC’s) that incorporate dosimetry modeling of inhaled particles and gases to improve characterization of dose and has written over 20 publications on the topic of dose-response assessment. She served six years as co-chair of EPA’s intra-agency work group on noncancer dose-response assessment. She is now working on implementation of the benchmark approach and has developed a Bayesian approach that allows for statistical combination of dose-response estimates.

Jarabek, an SRA member since 1989, is a past president of the SRA Research Triangle Chapter. She has also served as a chapter councilor and as the organizer of its 1993 and 1994 annual symposia. In addition, she was a member of the organizing committee of the 1993 SRA Annual Meeting, for which she also organized the symposium on biological markers in exposure-dose-response assessment.

Councillor: Menzie vs. Starr

Charles A. Menzie is founder and president of Menzie-Cura & Associates Inc., Chelmsford, Massachusetts, which is internationally recognized in human health and ecological risk assessment. He holds a B.S. in biology from Manhattan College, an M.A. in biology from College of New York, and a Ph.D. in environmental science from City University of New York. With over 20 years of professional experience, his work has included managing large-scale risk assessments relating to chemical manufacturing plant siting, new energy technologies, synfuel facilities, landfills, radioactive and mixed waste disposal, land redevelopment, no-migration petitions, hazardous waste and Superfund sites, and natural resource damage. He has also developed risk assessment guidance for the Gas Research Institute and the Electric Power Research Institute, facilitated peer reviews of risk assessment case studies for the U.S. Environmental Protection Agency’s Risk Forum, and presented numerous seminars on conducting risk assessment for the mining, utility, and oil and gas industries.

Menzie joined SRA in 1987, is a past president of the SRA New England Chapter, and has organized several SRA annual meeting sessions on ecological risk assessment. He is a liaison between SRA and the Society of Environmental Toxicology and Chemistry.

Thomas B. Starr is a principal in the health sciences division of ENVIRON Corporation in Raleigh, North Carolina. He has a B.A. in theoretical physics from Hamilton College and an M.S. and a Ph.D., both in theoretical physics, from the University of Wisconsin at Madison, where he also held National Science Foundation postdoctoral and faculty appointments in the university’s Institute for Environment-
mental Studies. Before joining ENVIRON, he served on the staff of the Chemical Industry Institute of Toxicology, first as a senior scientist in the epidemiology department and then as the director of the risk assessment program. His research interests have focused on the means for explicitly incorporating knowledge of toxic mechanisms into the quantitative risk assessment process and on improving epidemiologic methods for assessing effects of chemical exposure on worker health. He has also served as an adjunct faculty member at the University of North Carolina at Chapel Hill and in an advisory capacity on panels and committees at both national and state levels. He currently is on the Secretary’s Scientific Advisory Board on Toxic Air Pollutants for the North Carolina Department of Environmental Health and Natural Resources.

Starr, a member of SRA since 1982, is past president of SRA’s Research Triangle Chapter. Among his activities in numerous professional societies, he served as the first president of the Society of Toxicology’s Specialty Section on Risk Assessment.

Counselor: Mulvihill vs. Stamataklos

Robert J. Mulvihill of PRC Inc., El Segundo, California, has 39 years of experience in technical management and in mechanical, industrial, nuclear, and marine engineering, including industrial and military safety, quality assurance, reliability/availability/maintainability, and cost-effectiveness applications. He has a B.S. in marine engineering from State University of New York, an M.S. in mechanical engineering from Massachusetts Institute of Technology, and a Ph.D. in engineering from California Coast University.

For 25 years Mulvihill has pioneered the use of reliability and risk assessment techniques, which he has recently applied to the architect-engineering design process. Currently he is directing a support effort for the Lockheed Martin Denver probabilistic risk assessment for the Titan and Centaur launch vehicles as part of the CASSINI mission safety analysis. Previously he has served as the manager of probabilistic risk assessments for several National Aeronautics and Space Administration (NASA) projects, including the Galileo and Ulysses space missions, the Langley 8-foot High Temperature Wind Tunnel, the Liquid Hydrogen Structural Test Facility, and the Advanced Solid Rocket Motor Propellant Manufacturing Facility.

Mulvihill, an SRA member since 1987, has chaired SRA’s Engineering Specialty Group since 1992 and is a former president of SRA’s Southern California Chapter. He also chaired a short course for the 1994 International Conference on Probabilistic Safety Assessment and Management—PSAM-II. (Also see Member News, page 11.)

Michael G. Stamataklos is vice president of SCIENTECH Inc., San Diego, California, and manager of its Western Region, as well as its international and risk assessment and management programs. He has a B.S., M.S., and Ph.D. in nuclear science and engineering from Columbia University. In his 31-year professional career, he has held numerous industry, national laboratory, and university positions and has become a recognized expert in safety and risk and reliability assessment. He has managed assessment programs for a number of nuclear power plants, both in the United States and in other countries, as well as for research, space, and defense reactors; chemical installations; and chemical munitions demilitarization facilities. He has also participated in the review of the Probabilistic Risk Assessment (PRA) Procedures Guide, the development of a PRA procedures guide for advanced reactors, the National Science Foundation review of PRA methods (NUREG-1050), and the review of the Nuclear Regulatory Commission probabilistic safety document NUREG-1150. In addition, he has served as a safety, risk, and reliability expert for the International Atomic Energy Agency.

Stamatelatos, a charter member of SRA, is a former president and counselor of SRA’s Southern California Chapter. Among his many professional activities, he chaired PSAM-II in 1994 and was a co-organizer of PSAM-I in 1991.

Residential Exposure Assessment Project Update

The Residential Exposure Assessment Project (REAP), a joint effort of the Society for Risk Analysis, the International Society of Exposure Analysis, and the U.S. Environmental Protection Agency, has progressed to the point that the writing of the residential exposure assessment reference textbook has begun. A progress report outlining a detailed schedule for completion of the project has been prepared by SRA members David B. McCallum of the Focus Group Research and Training Center, who chairs the project’s Management Committee; Jeffrey H. Driver of Technology Sciences Group Inc. and P.J. (Bert) Hakkinen of Proctor & Gamble Inc., both of whom serve on the Editorial Committee; and Gary K. Whitmyre of Technology Sciences Group Inc.

The chairs of the working groups that are writing the individual chapters for the textbook have submitted formal drafts of the chapter outlines. The working group members have been selected, have been given writing assignments, and are organizing meetings or conference calls to coordinate their efforts. Several groups, as well as the REAP Editorial Committee, met in conjunction with and participated in the 1995 U.S. EPA Exposure Factors Handbook Workshop in July.

A meeting of the REAP Editorial Committee and the working group chairs will be scheduled within the next few months, possibly in conjunction with the 1995 SRA Annual Meeting.

Collaboration efforts with other parties interested in REAP continue. An information package about the project will be presented at a meeting of the European Community, for example, whose members may be interested in working with REAP.

(Continued on page 9.)
The REAP committee is considering the development of a site about REAP on the Internet as a means of facilitating communication and information exchange among residential exposure assessors.

For more information on the project, contact McCallum at telephone (410) 886-2850 or Driver at telephone (202) 828-8968.

SRA Dues Structure Reviewed

Last December, the SRA Council asked Treasurer Paul S. Price and Councilor Caron Chess to review the current SRA dues structure to determine whether the structure discouraged participation by individuals working for organizations that historically offered lower salaries, such as environmental groups, community organizations, and academics in small colleges. A specific question was whether to develop a dues structure based on income. To help address this issue, a review was performed of ten professional societies similar to SRA. This review found that SRA’s dues are lower than the dues of similar societies and that the Society’s current system of offering reduced rates for students is consistent with other professional societies. In addition, the one society that does base dues on income had rates higher than $75, the current SRA rate, for its lowest income category. These results were reported to the Council at its March 1995 meeting. Based upon this report, the Council recommended against restructuring the dues based on income at this time. It also recommended a number of actions that will result in increased dues over the next three years for some portions of the Society. More information will be given in a future newsletter article.

SRA To Organize Speakers Bureau

The Society for Risk Analysis is organizing a speakers bureau for its sections and chapters to use as a resource in planning their programs.

The SRA Secretariat, who will manage the bureau, requests SRA members to provide any ideas they may have for organizing and maintaining an effective speakers bureau.

Send your suggestions to Richard J. Burk Jr. at the SRA Secretariat (see masthead on page 12 for address).

Dose Response Specialty Group. The 1995 SRA Annual Meeting will include nine sessions on the theme Dose-Response Assessment: Theory and Application. Under theory, there will be two sessions on the biological bases for dose-response, including mechanisms, mode of action, and dose, and three sessions on quantitative dose-response modeling—one for cancer and two for effects other than cancer. Under application, there will be one session on established approaches to dose-response assessment, two sessions on mechanisms to refine dose-response assessment, and a fourth session on international harmonization of dose-response methods.

At the Dose Response Specialty Group’s meeting in Hawaii, attendees will continue to conceptualize a program on the examination of time as a dose-response variable for the 1996 SRA Annual Meeting in New Orleans. For more information, contact the group’s secretary-treasurer, Scott Baker of EA Engineering, Science, and Technology Inc., Silver Spring, Maryland, telephone (301) 565-4216, fax (301) 587-4752, e-mail sb@eaeng.mhs.com@serve.com.

Exposure Assessment Specialty Group. Exposure assessors will find many topics of interest on the program of the 1995 SRA Annual Meeting, including sessions on regional and cultural variability in exposure and risk factors, food-chain exposure, comparative risk assessment in data-sparse situations, and application of Monte Carlo methods. In addition, one of the pre-meeting workshops will address practical methods for dealing with variability and uncertainty in exposure and risk assessment.

When the Exposure Assessment Specialty Group meets at the annual meeting in Hawaii, it will choose a new chair-elect and discuss business items, including the joint 1996 annual meetings of the SRA and the International Society of Exposure Analysis in New Orleans, the status of REAP (see page 8), and revisions to the U.S. Environmental Protection Agency’s Exposure Factors Handbook. For more information, contact the group’s chair, Thomas E. McKone of the University of California, Davis, telephone (916) 754-8757, fax (916) 752-3394, e-mail tmck@llnl.gov; or its secretary/chair-elect, John C. Kissel of the University of Washington, e-mail jkissel@dehpost.sphcm.washington.edu, telephone (206) 543-5111, fax (206) 543-8123.

Risk Communication Specialty Group. The group’s secretary-treasurer Ann Botstrom of the Georgia Institute of Technology is coordinating the risk communication sessions for the 1995 SRA Annual Meeting. She is a member of the 1995 Annual Meeting Committee and attended its July 7 meeting to organize the annual meeting program. For more information, contact the group’s chair, Branden B. Johnson of the New Jersey Department of Environmental Protection in Trenton, telephone (609) 633-2324, fax (609) 292-7340, e-mail brandenj@ehsi.rutgers.edu.

For information about the other SRA specialty groups, contact the following:


Engineering Specialty Group, Chair Robert J. Mulvihill of PRC Inc., El Segundo, CA, telephone (310) 640-1050 or (619) 721-2540, fax (310) 640-2207, e-mail mulvihill@aol.com.
East Tennessee Chapter has begun to reorganize with some 30 past members who have expressed an interest in future programs. The chapter plans to hold monthly meetings with two presentations at each meeting to encourage communication among different risk disciplines. In June, Curtis C. Travis of the Center for Risk Management at Oak Ridge National Laboratory discussed risk-based issues associated with government-sponsored environmental cleanup efforts, and chapter President Joseph W. Minarick of Science Applications International Corporation described the analysis of near-miss (incident precursor) events. Elections for new officers will be held in the fall.

Metropolitan Chapter (Connecticut–New Jersey–New York) sponsored a seminar titled "Low Level Chemical Sensitivity: Possible Origins, Clinical Presentations, and Interviews" with the Mount Sinai Irving J. Selikoff Center for Occupational and Environmental Medicine. The chapter's past president, Miriam de Saliegui, and the center's director of education, Stephen Mooser, co-organized the seminar, which was attended by some 75 medical practitioners, attorneys, health scientists, environmental consultants, and multiple chemical sensitivity sufferers. Subsequent to the seminar, approximately 25 new members joined the chapter.

Michigan Chapter elected new officers this spring, including a new president, John L. Nelson of Ford Motor Company. He is hoping to broaden the scope of the chapter meetings to include topics relating to technological advancements in risk analysis, the role of the judiciary in risk assessment, and improvements in risk assessment methodologies. The officers will meet in August to establish new directions for the chapter and to begin planning the fall meeting. One of their goals is to improve communications between the chapter and other professional societies.

New England Chapter is taking a summer break from its monthly meeting schedule, which will resume in the fall. Michael Hutcheson of the Massachusetts Department of Environmental Protection has begun his term as chapter president for 1995-96. The chapter recently elected officers, including a new president-elect, Dale B. Hattis of Clark University's Center for Technology, Environment, and Development.

Northern California Chapter is co-sponsoring a symposium at the 1995 SRA Annual Meeting in Hawaii with the University of California Toxic Substances Research and Teaching Program. The symposium, titled "California’s Road to Risk-Based Regulation: Potholes and Progress on Route 65," will review the state's attempts to rationalize its risk-based regulatory policy and will propose guidelines for the current national debate.

Philadelphia Chapter annually sponsors three dinner meetings, which are held at the University of Pennsylvania's Faculty Club and are open to the public. The 1995-96 meetings will feature speakers who are involved with risk assessment reform legislation. In October or November, a key Republican with scientific expertise will speak on risk assessment legislation. In January, a key Democrat with scientific expertise will give an alternative perspective on the issue. At the spring meeting, around Earth Day, an expert in ecological risk assessment will speak. To place your name on the mailing list for meeting announcements, contact the chapter secretary, Linda M. Burg of Rohm and Haas Company (see box).

Research Triangle Chapter most recently met in June. Daniel J. Guth of the U.S. Environmental Protection Agency's National Center for Environmental Assessment spoke on "Exposure Response Analysis of Acute Inhalation Exposure Using Stratified Ordinal Regression and Benchmark Concentration Techniques." The chapter's president is David A. Kramer of the Chemical Industry Institute of Toxicology.

Southern California Chapter is using the summer months to plan its program year from September 1995 through June 1996. The chapter is also preparing to incorporate. As a part of incorporation, the chapter's past president, Douglas D. Orvis of Accident Prevention Group Inc., is heading an effort to revise the chapter's by-laws.
Ph.D. Risk Assessment Specialist

Philip Environmental needs a Ph.D. Senior Risk Assessment Specialist in Pittsburgh, Pennsylvania. Responsibilities include managing and preparing human health and ecological risk assessments, expert testimony, proposal and project management, and client interaction and business development.

Qualifications: 7 to 10 years experience in evaluating environmental risks, preferably as a consultant; Ph.D. in environmental toxicology, public health, risk assessment, or related field; knowledgeable of federal guidelines; experience in providing expert testimony; excellent written and oral communication skills.

Competitive compensation package, including incentive compensation, stock options, and 401K. Send resume to: Philip Environmental Services Corporation 10 Duff Road, Suite 500 Pittsburgh, Pennsylvania 15235-3205

An Equal Opportunity Employer

Community Outreach/Risk Communication Specialist

The University of Washington NIEHS Center for Ecogenetics and Environmental Health invites applications for a half-time position (50%) to serve as primary contact between the Center and the general public, including the news media; develop innovative approaches to environmental risk communication; develop an information service responsive to community needs; M.D. or Ph.D. in the health sciences required; experience in environmental risk communication and/or community outreach highly desirable. Letters of application with resume and the names and addresses of three references should be sent by October 16, 1995 to Dr. Richard Fenske, COEP Director, Dept. of Environmental Health, Box 357234, University of Washington, Seattle, WA 98195-7234. The University of Washington is an Equal Opportunity/Affirmative Action Employer.

Member News

Robert L. Deshotels of Fluor Daniel Inc., Irvine, California, and Mardy Kazarians of Kazarians & Associates, Glendale, California, members of the SRA Southern California Chapter, are among the authors of Cost-Effective Risk Assessment for Process Design (McGraw-Hill, 1995).

SRA Secretary W. Gary Flamm has moved his company Flamm Associates to 4861 North A1A, Vero Beach, FL 32963, telephone (407) 234-0096, fax (407) 234-0026.


Ray Kemp, SRA councilor and SRA-Europe president, has begun a new position as director of risk management at EnTec UK Ltd. (see pages 2 and 5).

Rao V. Kolluru, the SRA Metropolitan Chapter (Connecticut–New Jersey–New York) president-elect, of CH2M Hill in Parsippany, New Jersey, is the editor of Risk Assessment and Management Handbook for Environmental, Health, and Safety Professionals (McGraw-Hill, 1995). Contributing authors include SRA members Steven M. Bartell of SENES Oak Ridge Inc. in Oak Ridge, Tennessee; Vincent T. Covello of Columbia University, New York; Jeffrey H. Driver of Technology Sciences Group Inc., Washington, D.C.; David B. McCullam of Focus Group, Tilghman, Maryland; Susan L. Santos of Focus Group, Medford, Massachusetts; and Roy L. Smith of the U.S. Environmental Protection Agency, Region III, Philadelphia.

David McCullam of Focus Group Research and Training Center has a new office address: P.O. Box 356, Tilghman, MD 21671, telephone (410) 886-2850, fax (410) 886-2852.

Robert J. Mulvihill of PRC Inc. was the keynote lecturer on energy systems safety for both conventional and nuclear power plants for the third week (July 8 to 13) of the Pakistan International Nathiagali Summer College on Physics and Contemporary Needs, which included the U.S. National Science Foundation among its sponsors.

Glenn Paulson, formerly a research professor at Illinois Institute of Technology, is now president of the environmental and energy consulting firm Paulson and Cooper Inc., with offices in Jackson Hole, Wyoming, and Chicago, Illinois. He also headed a technical team, which included Frank Parker of Vanderbilt University in Nashville, Tennessee, to review the waste storage need for new double-shell tanks at the U.S. Department of Defense's Hanford facility. The team's report (April, 1995) is available from Paulson's office, P.O. Box 1541, Jackson Hole, WY 83001, e-mail 74403.3330@compuserve.com, telephone (307) 734-0350, fax (307) 734-0248.

Marc Poumadère, SRA-Europe's past president, has been appointed associate professor at the Ecole Normale Supérieure de Cachan. His address is Groupe de recherche sur le Risque, l'Information et la Décision; 61, avenue du Président Wilson; 94235 Cachan cedex; France; telephone (33) 1 47 40 21 47; fax (33) 1 47 40 23 48; e-mail pmr@grid1.ens-cachan.fr.

Paul Slovic, former SRA president, of Decision Research in Eugene, Oregon, was recently appointed the scientific vice president for public decision making of the National Council on Radiation Protection and Measurements.
SRA Council Launches Search for a Successor To Journal Editor

Risk Analysis: An International Journal, with its broad multidisciplinary content and incisive analyses, has provided a major contribution to the success of the Society for Risk Analysis. Vital to the journal’s quality and appeal has been its editor, Curtis C. Travis, whose commitment has been a mainstay of its operation.

After more than 12 years of devoted service as editor, Travis is looking toward eventually handing over the reins of the journal to a worthy successor. The Society has launched a two-year effort to find a new editor with the formation of a committee, chaired by SRA Past President Robert G. Tardiff, which will develop criteria and search the halls of academia, government, and industry for someone who will follow in the journal’s tradition and also expand its content to reflect the SRA membership’s broadening interests. Serving on the committee are SRA President M. Elisabeth Paté-Cornell; former Presidents Elizabeth L. Anderson, B. John Garrick, Lester B. Lave, and Curtis C. Travis; and Fellow M. Granger Morgan.

The SRA Council requests the SRA membership to recommend candidates to be considered for the editor’s position. Recommendations should include the candidate’s affiliation, address, telephone and fax numbers, e-mail address, and a brief (200 words or less) description of what makes the individual a desirable candidate. Please send your recommendations in writing by November 17, 1995, to the Society’s executive secretary, Richard J. Burk Jr., at the address listed in the box to the left.