



ACS Local Section
Chemical Society of Washington



Honorees – 50, 60, and 70 Year CSW Members

**Celebrating 50, 60 and 70 Years
of Membership in the
American Chemical Society**

December 14, 2024



ACS Local Section

Chemical Society of Washington



Honorees – 50, 60, and 70 Year CSW Members 2024

Celebrating 50 Years:

Dr John F Bobalek
Dr Terrence R Burke Jr
Ms Helen Wisner Davies
Mr Steven Michael Ferguson
Mr Glenn Hanes
Mr Harry Wen Shyong Hsieh
Mr Reggie Lester Hudson
Mr Peter F Kulkosky
Dr Daniel John Marsick
Mr Leonard Franklin Mausner
Ms Cathy Ann Nelson
Mr Paul T O'Day
Dr Robert Michael Richman
Dr Alan Michael Rulis
Mr Jeffrey David Saxe
Dr Frank Edward Scarbrough
Dr Arnold Melvin Schwartz
Dr Walter Michael Shaub
Mr Norman Howard Stepno
Dr Patricia Trzaskoma-Paulette
Dr Christopher Kent Vancantfort
Dr Robert William Woolfolk

Celebrating 60 Years:

Dr David A Bennett
Dr David Hamilton Buchanan
Mr Raymond Lloyd Cantrell
Dr Dennis Chamot
Dr Hannah Friedman Elson
Mr David Friedman
Dr Martha Louise Gay
Dr Bernard Grossman
Dr John Hanson Heidema
Dr Anne M Hudrlik
Prof Lou Thompson Hughes
Mr Hiroshi Ishikawa
Dr Robert Peter Mikulak
Dr George H Pauli
Dr Juergen L W Pohlmann
Dr Douglas j Raber
Dr M Gopala Rao
Dr Asim Bikash Ray
Dr George W Robinson
Dr Walter J Rossiter Jr
Dr Jan Vincent Sengers
Dr Ronald S Sheinson
Dr David Martin Silver
Mr Eugene E Snyder
Dr George William Swenson
Mr Clyde Asao Takeguchi
Dr Dale L Whalen
Dr Kwan Nan Yeh

Celebrating 70 Years:

Dr Robert Paul Gibson
Dr James Leverette Guthrie
Dr Robert Warren Hardy
Dr Harold Jaffe
Mr Charles Ansel Suter



Honorees Celebrating 50 Years

Dr. Terrence R. Burke Jr

Terrence R. Burke, Jr. is currently a Senior Investigator and head of the Bioorganic Chemistry Section in the Chemical Biology Laboratory, Center for Cancer Research (CCR), National Cancer Institute (NCI), National Institutes of Health (NIH). He utilizes both small molecule and peptide/peptide mimetic syntheses to advance the understanding of biological process important for the etiology and treatment of cancers and AIDS. He is a native of the Pacific Northwest, having received degrees from St. Martin's University (College), Lacey, Washington (B.S. in chemistry, 1975) and the University of Washington, Seattle (Ph.D. in Medicinal Chemistry, 1978). He undertook postdoctoral studies at the NIH, first as a Pharmacology Research Associates Training Program (PRAT) Fellow in the National Heart, Lung and Blood Institute (NHLBI) and then as a Senior Staff Fellow in the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK). In 1989 he joined the Laboratory of Medicinal Chemistry, NCI (renamed as the Chemical Biology Laboratory in 2009) as a tenured investigator and in 2003 he became a member of the Senior Biomedical Research Service (SBRS), Department of Health and Human Services (DHHS). He received the Sato Memorial International Award of the Pharmaceutical Society of Japan (1997), an NIH Merit Award for Achievements in the Design and Synthesis of Novel Anti – Cancer and Anti – AIDS drugs (2002) and the Hillebrand Prize of the Chemical of Washington (CSW) (2019). His research has been documented in more than 360 peer-reviewed publications and twenty issued U.S. patents.

Mr Peter F. Kulkosky

B.S., 1968, Fordham University

M.S., 1972, University of Massachusetts, Amherst

Career: Patent examiner at U.S. Patent & Trademark Office 1972 – 2000

in the polymer composition and ion exchange examining group.

Examiner group field trips to chemical corporation laboratories.

5 poster sessions and 4 slide lectures at ACS Regional & National meetings

on the subjects of automated patent searching systems and on US and foreign rules for drawings, figures and photographs in patent applications.

Freelance translator German – English of patient diagnosis reports and clinical trials for translation companies 2000 – present.

Dr. Daniel John Marsick

Dr/Professor Daniel Marsick worked in the Chemical safety and health area for more than 35 years in various government agencies, including the Occupational Safety and Health Administration and the Department of Energy (DOE). Prior to that time, he was a Vietnam-era navy veteran and certified Medical Technologist. At the DOE, he developed safety policies and procedures in chemical and nanotechnology related research fields. In addition, he was recognized as an expert in hazardous chemical waste, laser safety, respirators, and chemical use at nuclear sites. During his last fifteen years at DOE, he also taught environmental and worker safety at the University of Maryland, both online and in the classroom. Throughout his career, Dr. Marsick was an active member of the Chemical Society of Washington (CSW) and the American Chemical Society (ACS). He served as manager and President for the CSW and chairman of the ACS Division of Chemical Health and Safety.

Dr. Marsick retired in 2012 but continued his university teaching for ten more years. After retirement, he also followed his passion and became a Master Gardener. With the passing of their spouses, Dr Marsick and Dr Mary Trucksess (retired research chemist from the Food and Drug Administration) renewed their friendship from their CSW days. They now enjoy frequent travels to foreign countries and babysitting a 3-year-old grandson. Family and friends have become an increasing priority.

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Dr. Alan M. Rulis

• B. A. in Chemistry, Augustana College, Rock Island, Il, 1966 • Ph. D. Physical Chemistry, University of Wisconsin, Madison, 1972, Thesis on molecular beam studies of chemical reaction dynamics • Post Doctoral positions: o F. O. M. Institute for Atomic and Molecular Physics, Amsterdam, Netherlands, 1972-3 o Department of Chemistry, University of Waterloo, Waterloo, Ontario, Canada, 1974-6 • Assistant Professor, part-time, and research in the laboratory of Prof. John Polanyi, University of Toronto, Canada, 1976 • U.S. Food and Drug Administration, Center for Food Safety and Applied Nutrition 1977-2006; Director, FDA's Office of Food Additive Safety, 1995-2004 • Senior Managing Scientist, Exponent, Inc., 2006-2018

Dr. Walter Michael Shaub

Research scientist - Naval Research Laboratory; Member - JANNAF, DoD; Assistant Professor - George Mason University; Research Scientist - National Bureau of Standards (NBS); Head of Exploratory Fire Research Group (NBS); Science advisor - New York City government; Science advisor - US Conference of Mayors; President - CORRE, Inc.; Member - EPA Science Advisory Board; Senior Editor - ES&T, ACS; Managing Editor - ES&T, ACS; Head of Editorial Board - Resources Conservation & Recycling; Special Editor, Science & Technology of the Environment; Senior Scientist - US Chamber of Commerce; Advisor - Retired Generals (US Army, Marine Corps)

Chief current interests - Global events/geopolitics, US democracy

Advice to chemists - Be more than just a chemist! Keep the blinders off! Don't just see the trees, see the forest! If possible, see the mountains! Don't become someone who knows more and more about less and less until you know everything about nothing — you will miss so much in so many ways!

Dr Patricia Trzaskoma-Paulette

Dr. Trzaskoma-Paulette received her B.A. in Chemistry at Barnard College in New York, and her M.S. and Ph.D. in Chemistry at The American University in Washington, DC. Her research areas include: • Application of chemical principles to the development and preservation of novel materials for military applications, (transportation, equipment, infrastructure); • Fundamental investigations of the molecular level solid/electrolyte interfacial regime using second harmonic and surface plasma signal analysis, control of surface reactions; • Advanced Energy Systems (fuel cell catalytic reactions and electrolyte analysis); • Fabrication and characterization of high temperature polymeric materials; • Environmental fate assessments of metallic ship's effluents (electroanalytical); and • Microbial corrosion mechanisms; as well as over 50 publications in peer reviewed journals, active presentations at technical society symposia and conferences.

Dr. Trzaskoma-Paulette's work experience includes U.S. Department of Homeland Security, National Academies, Naval Research Laboratory, and George Mason University. Honors and recognition include: • two technical patents; • Invited Lecturer; • Member, Board of Directors, The Electrochemical Society; • Elected Officer, National Capital Section of the Electrochemical Society; • Elected Officer, Council of Local Sections, The Electrochemical Society; • Elected Officer, The Honor Society of Iota Sigma Pi; • Member, The Honor Society of Phi Kappa Phi.

Professional Memberships include The American Chemical Society, National Association of Corrosion Engineers, and The Electrochemical Society.

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Mr Raymond Lloyd Cantrell

Ray is a native of West Tennessee and holds a Bachelor of Science in Chemistry degree from the University of Tennessee, Knoxville. Following graduation in 1964, his serendipitous career as a “journeyman chemist” over the ensuing 60 years, resulted in 25 years of employment with 3 firms in the private chemicals sector engaged in the production of commercial fertilizers, plastics and rubber products, followed by a 35 year career in public government service in aggregate with the U.S. Bureau of Mines, and currently with the U.S. International Trade Commission in Washington, DC, where he has served as an International Trade Analyst for the past 28 years.

Ray has maintained a continuing 60 year membership with ACS and C&EN News since joining in 1964, and affiliations with the ACS Rubber Division. Most memorable ACS highlight event includes honor of attendance of ACS Centennial Meeting and Banquet in New York City, April 1976, in which Linus Pauling, Nobel laureate in Chemistry and Senator Edward M. Kennedy were featured speakers. Senator Kennedy disclosed exciting news of the imminent appointment of a White House Science Advisor post to be formed at the Executive Level under a new Office of Science and Technology Policy (OSTP).

Ray and his wife Marge are residents of the Mount Vernon area near Alexandria, VA, and the proud parents of a son and daughter and grandparents of a grandson, residents of Pittsburgh, PA, and Huntsville, AL.

Mr David Friedman

Work History includes American Council of Independent Laboratories (ACIL); U.S. Environmental Protection Agency; U.S. Food and Drug Administration; Webco Enterprises; Union Carbide Corp.

I have been involved in establishing and upgrading microbiological and chemical testing laboratories in Malaysia, India, Russia, and especially in Kazakhstan. For example, for five years, I managed the United States effort to redirect the former Soviet biological weapons experts in Kazakhstan by training them and helping them to establish an environmental and commercial analytical services laboratory. The laboratory was needed both to help the government of Kazakhstan address its many environmental problems, and industry in Kazakhstan to comply with environmental regulations and to demonstrate to customers that their products meet international quality standards. I am proud of the fact that the laboratory, that I helped establish and train, became the first laboratory in Kazakhstan to be accredited by the Kazakhstan National Center for Accreditation (NCA) against the ISO 17025 standard. Through its accreditation by A2LA, it will soon be the first laboratory, in Kazakhstan, to gain internationally recognized ISO accreditation.

I have also been instrumental in helping strengthen the capabilities of the Kazakhstan National Center for Accreditation and in assisting them in their efforts to attain full membership in the International Laboratory Accreditation Cooperation (ILAC) and international recognition.

The Government of India asked the World Bank for help in upgrading the capabilities and quality of their regional environmental laboratories. As a result, EPA was contacted and I was asked to assist in addressing the need. As a result, I arranged for and oversaw the development of a new quality management system for use by the Indian regional environmental laboratories and for training presented to policy makers and senior scientists on laboratory quality management.

As the Senior Advisor on Monitoring in the Office of Research and Development (ORD) and as the Executive Director of the Agency’s Forum on Environmental Measurements (FEM), the Agency’s senior policy making body dealing with monitoring and quality assurance, I have been responsible for managing the EPA program to develop and implement a national environmental laboratory accreditation program in the United States. In order to accomplish this goal, I served on and have guided a number of the groups that were responsible for developing the accreditation standards currently

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being employed in the National Environmental Laboratory Accreditation Conference (NELAC) program. I also serve as an advisor to the EPA National Lead Laboratory Accreditation Program and serve on the Board of Directors of the non-governmental, American Association for Laboratory Accreditation (A2LA). I played a major role in developing and implementing the transfer of the Agency's water laboratory proficiency testing programs from one that was conducted by the EPA to one that is now conducted by the private sector. Not only did this save the Agency more than a million dollars a year but also allowed the program to expand from its previous focus on water media to a program that now include media such a sediments, soils, and wastes.

A significant part of my work includes developing and presenting training courses and providing consultive services to EPA, state governments, and the private sector to assist in implementing FEM policies and to help them to improve their laboratory accreditation and environmental monitoring programs. Examples of such training programs include evaluation of monitoring data to determine its suitability for a particular application, developing monitoring study data quality objectives, developing laboratory quality management systems, and developing regulatory standards.

A major part of my work involves organizing and guiding groups of people, both inside and outside of government, to address technical and policy issues. Such efforts have included establishing a public and private sector committee to develop a national standard for determining and documenting the quality of environmental monitoring data, establishing and directing the federal and state team that developed the EPA collection of environmental monitoring methods known as SW-846, helping to establish and direct the effort that led to the establishment of the EPA Laboratory Competency Policy that strengthened the quality systems under which EPA's own laboratories operate and that established the requirement that the EPA laboratories obtain accreditation or be subjected to assessment by outside organizations; guiding the public/private sector working group to develop performance based measurement standards for gasoline; and facilitating the effort to improve the national lead laboratory accreditation program.

As the Executive Director, I manage the team that supports the policy making activities of the FEM and am responsible for developing or overseeing the development of issue papers and policy recommendations for the FEM to adopt. In addition to the aforementioned laboratory competency policy, examples of such activities include whether and how to establish a national, internet accessible, database and index to available environmental measurement methods; the development of new method validation guidelines to improve the quality of EPA published measurement methods; and changing EPA's compliance monitoring regulations from the current required method system to one that focuses on the performance to be achieved. I am responsible for explaining policy options to the senior managers who comprise the FEM.

Earlier in my EPA career, I played a major role in the development of the hazardous waste management standards used in the United States; specifically, those for hazardous waste identification. I was responsible for developing: the Toxicity Characteristic and its testing protocols; the lists of chemicals which, when disposed of, are characterized as hazardous wastes; and many of the methods and standards for environmental characterization and analysis that are used in implementing the hazardous waste management program.

As part of my efforts to bring government and the private sector together to address environmental measurement science issues facing the United States and other countries, in 1980, I established **National Environmental Monitoring Conference** and have served as its general chair since its inception. Under my leadership the conference has grown from one that focused only on issues related to hazardous waste characterization and monitoring to one that addresses all environmental programs and covers both United States and international issues.

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Dr George H Pauli

I received a Bachelor of Science in Chemistry degree from the University of Michigan in 1961. The degree has a long and unique name for those bachelor degrees that met the standards for ACS certification.

I attended graduate school at Indiana University, majoring in physical chemistry and joining ACS. I was awarded a Ph.D. in 1968. I completed a teaching internship at Earlham College, Richmond, IN, during 1966-67. I then accepted a teaching position at Lafayette College, Easton, PA, serving from 1967-1976. I became a research associate in the emulsion polymer lab at Lehigh University in 1976-77.

I came to the Washington area to join the FDA in its Division of Food and Color Additives in 1977, where I served as a regulatory scientist. I retired in 2006 as the Associate Director for Policy in the Office of Premarket Approval. After retirement, I consulted occasionally on regulatory issues until 2010.

Dr Jan Vincent Sengers

Distinguished University Professor Emeritus, Institute for Physical Science and Technology and Department of Chemical and Biomolecular Engineering, University of Maryland, College Park, MD. Born Heiloo, The Netherlands; Married Dr. Johanna Maria Henrica Levelt; Immigrated to USA: December 29, 1963; U.S. citizen since May 20, 1977.

EDUCATION: University of Amsterdam, Candidate Physics and Mathematics; Doctorandus, Major Physics, Minors Mathematics, Mechanics; Ph.D. Physics, Van der Waals Laboratory, University of Amsterdam; Advisor Prof. Dr. A.M.J.F. Michels.

AREAS OF EXPERTISE: Thermodynamics; Chemical Physics; Statistical Physics; Kinetic theory; Critical phenomena; Transport phenomena; Fluctuation Phenomena; Non-Equilibrium Thermodynamics.

Dr Kwan Nan Yeh

I was born in February, 1938 in Taichung, Taiwan. Received a BS in Chem. Eng. 1961 from the National Taiwan University; a MS in Chem. 1963 from Tulane University; a Ph.D. in Phys. Chem. 1970 from the University of Georgia; post-doctoral research fellow, Clemson University 1969-70. Following that, I spent two years as a Research Associate at the Office of Flammable Fabrics, National Bureau of Standards (currently known as National Institute of Standards and Technology) with a fellowship from the Cotton Foundation. In 1973, I joined the faculty of the University of Maryland in College Park. as an Assistant Professor in a small Fiber and Textiles Program. I moved through the ranks and was promoted to full professor in 1985. The Textiles Program was dissolved In 1993 and I became a Professor of Materials Science and Engineering in the College of Engineering. I retired from that position in 2003 after 30 years at Maryland. Where at Maryland, I have directed to completion, eighteen(18) Ph.D.s and twelve(12) MS.s; and have published numerous technical papers/articles.