



International Symposium on Environmental Endocrine Disruptors 2000

Saturday, December 16 - Monday, December 18, 2000

講演者一覽

List of Speakers



Theo COLBORN

[Senior Scientist and Program Director, World Wildlife Fund]

Directs the Wildlife and Contaminants Program at World Wildlife Fund. Published numerous scientific papers, testified before Congress, lectured extensively, and served in an advisory capacity to state, federal, foreign governments, and international groups. She was a recipient of the 1999 Norwegian Rachel Carson Prize and the 2000 International Blue Planet Prize. Earned a Ph.D. at the University of Wisconsin-Madison in Zoology (distributed minors in epidemiology, toxicology, and water chemistry); a M.A. in Science at Western State College of Colorado (fresh-water ecology); and a B.S. in Pharmacy from Rutgers University, College of Pharmacy.

Hiroshi HASE

[Member of the House of Representatives, Chairman of Subcommittee of Chemical Substances, Liberal Democratic Party, Japan]

1984 B.A., Senshu University. 1984 Teacher for Japanese Literature at Seiryō Senior High School. Selected and competed as Wrestler in Los Angeles Olympics, Summer, 1984. 1985 Professional Wrestler, Radio personality, and Writer. 1995 Elected as Member of the House of Councilors. Part-time Lecturer at Nippon Sport Science University Women's Junior College. 2000 Member of the House of Representatives.

Shuichi KATO

[Member of the House of Councilors, Chairperson of Joint Project Team between New Komeito and Reformers' Network Party on Environmental Endocrine Disruptors, Japan]

1981 Ph.D., Environmental Planning, Earth Environmental Science Department, Hokkaido University Graduate School. He was Assistant Professor at Kitami Engineering College, Deputy director for Research Investigation Department, Takugin Sogo Inc. Since 1993 he is the Professor of Earth Environmental Economics at Otaru Business College. Elected as Member of the House of Councilors.

Gary E. TIMM

[Senior Technical Advisor, Office of Science Policy and Coordination, U.S. Environmental Protection Agency (EPA)]

Received his B.S. in biochemistry at Louisiana State University in 1966, an M.S. in organic chemistry from the University of Minnesota in 1971 and an M.A. from the Humphrey Institute of Public Policy in 1976. In 1973 he joined the EPA as a Technical Advisor in the office of Mobile Source Air Pollution Control. He then worked in the Department of Energy from 1978 to 1979. He rejoined the EPA in 1979 in the office of toxic substances and served as a section chief and later as branch chief in the Chemical Testing Branch. He also served as a workgroup member and staff support to the Endocrine Disruptor Screening and Testing Advisory Committee (EDSTAC), a committee commissioned to develop a program to screen chemicals for their potential to disrupt the endocrine system of humans and wildlife under the Food Quality Protection and Safe Drinking Water Acts of 1996. He represents the EPA on various interagency workgroups including the National Toxicology Program's Interagency Committee for Chemical Evaluation and Coordination and the Tri-Agency Superfund Applied Research Committee. He is now co-manager of the EPA's Endocrine Disruptor Screening program, which is implementing the recommendations of EDSTAC. His main responsibilities include development of testing policy, validation of the screening and testing assays, and development of a system to select chemicals and set priorities for screening.

Birgit VAN TONGELEN

[Administrator, Environment Directorate-General, European Commission, EU]

1983-1989 Belgium-Veterinary Medicine in Ghent State University. 1989 Qualified as Doctor in Veterinary Medicine. 1989-1991 United Kingdom-Assistant Veterinary Surgeon in a Veterinary Hospital; Local Veterinary Inspector for the Ministry of Agriculture Fisheries and Food at the lairage adjacent to the Port of Dover, doing the inspection of farm livestock for "fitness to travel" as required by the British and EC welfare controls. 1992-1999 Belgium-Private Veterinary surgery; Brussels-Head Office, Ministry of Public Health and the Environment (Institute for Veterinary Inspection), dealing with food safety (meat inspection). January 2000 Brussels-European Commission, DG Environment, dealing with Health/Environment issues, such as Endocrine Disruptors, Dioxins, etc..

Geum-Su SEOG

[Head, Chemical Management Division, Ministry of Environment, Republic of Korea]

Education: Mar. 1967-Feb. 1975 B.S., Environmental Engineering, Korea University. Mar. 1990- Aug. 1993 M.S., Graduate School of Public Health, Seoul National University. Employment: Sept. 1976- Apr. 1994 Ministry of Health and Social Affairs, worked as a member of divisions for food and water hygiene. May 1994-Sept. 1998 Ministry of Environment, worked as a member of divisions for drinking water and waste management. Oct. 1998-present Ministry of Environment, working as Head of Chemicals Management Division.

Hirozo UEDA

[Director, Environmental Health and Safety Division, Environmental Health Department, Environment Agency, Government of Japan]

1978 graduated from Osaka University Medical School. 1978 Department of Public Health, Osaka Prefecture. 1984 Deputy Director, Maternal and Child Health Division, Children and Families Bureau, Ministry of Health and Welfare. Pharmaceutical and Medical Safety Bureau, Ministry of Health and Welfare; National Space Development Agency of Japan; Health Service Bureau, Ministry of Health and Welfare; Director General, Public Health Bureau, Hiroshima City(1992); Director, Office of Medical Technology and Information Department, Health Policy Bureau, Ministry of Health and Welfare; Director, Office of Health Care Business, Health Policy Bureau, Ministry of Health and Welfare (1997). 1998-1999 Director, Office of Environmental Risk Assessment, Environmental Health Department, Environment Agency. 1999-present Head, Environmental Health and Safety Division, Environmental Health Department, Environment Agency.

Noboru TAKASUGI

[The Chair, Yokohama City Board of Education, Japan]

1951 Graduated from Tokyo University. 1951-1960 Assistant of Tokyo University. 1959 Doctor of Science. 1960-1962 Research Associate of California University (Berkeley). 1962-1970 Lecturer of Tokyo University. 1970-1973 Assistant Professor of Okayama University. 1973-1978 Professor of Okayama University. 1978-1990 Professor of Yokohama City University. 1990-1994 President of Yokohama City University. 1994 Emeritus Professor of Yokohama City University. 1997-present The Chair of Yokohama City Board of Education. 1976 Prize of Zoological Society of Japan (Studies on Persistent Effects of Perinatal Hormones).

Shinsuke TANABE

[Professor, Center for Marine Environmental Studies(CMES), Ehime University, Japan]

1975 Graduated Ehime University, Graduate School of Agriculture. 1977 Assistant Professor, Faculty of Agriculture, Ehime University. 1985 Ph.D. Nagoya University. 1987 Associate Professor, Faculty of Agriculture, Ehime University. 1995 Professor, Faculty of Agriculture, Ehime University. 1999 Professor, Center for Marine Environmental Studies. 1985 Okada Prize Award from The Oceanographical Society of Japan. 1999 Nissan Science Prize Award from Nissan Science Foundation. 2000 Citation Laureates in Japan Awarded from ISI Thomson Scientific.

John A. McLACHLAN

[Weatherhead Distinguished Professor and Director, Center for Bioenvironmental Research, Tulane and Xavier Universities, U.S.A.]

Weatherhead Distinguished Professor of Environmental Studies, Professor of Pharmacology and Director, Center for Bioenvironmental Research at Tulane and Xavier Universities in New Orleans. He has been studying hormonally active environmental chemicals for thirty years and has published over 150 scientific articles on the topic. Organized the first meeting on environmental hormones, Estrogens in the Environment, in 1979. His Center is actively involved in scientific exchanges between Japanese and American scientists. The Center has sponsored two recent US/Japan Summer Workshops on Environmental Hormones as well as two International Symposia. Travels often to Japan.

Osamu TSUTSUMI

[Professor, Department of Obstetrics and Gynecology, Faculty of Medicine, University of Tokyo Branch Hospital, Japan]

Present appointments: Professor and Chairman, Department of Obstetrics and Gynecology, Mejirodai Campus, Faculty of Medicine, Tokyo University; Head, Department of Gynecologic Surgery, Tokyo University Hospital; Investigator, CREST, Japan Science and Technology. 1976 M.D., Faculty of Medicine, Tokyo University. 1983 Ph. D., Tokyo University. 1985-1987 Research Fellow, National Institutes of Health, U.S.A.. 1992 Assistant Professor, Tokyo University. 1993 Awarded from the Japan Endocrine Society. 1994 Associate Professor, Tokyo University. Clinical and Research Interests: Reproductive Endocrinology and Infertility, Study of Endocrine Disruptors especially on Human Reproduction, Assisted Reproductive Technology, Surgical Laparoscopy, Growth Factors in Eggs and Embryo Development.

Angelina Joy Serio DUGGAN

[Director of Science Policy, American Crop Protection Association, U.S.A.]

Director of Science Policy for the American Crop Protection Association, where her responsibilities include representing the pesticide industry on human health issues and endocrine disruption risk assessment. Previously, she was the Global Registrations and Development Manager with the FMC Agricultural Products Group. She has also served as a Discovery Manager at FMC to develop new agrochemicals and as a process research chemist in the pharmaceutical industry at Merck, Smith Kline Beecham and Hoffmann-La Roche. Received a Ph.D. in organic chemistry from Rutgers University and completed an NIH postdoctoral fellowship in natural products synthesis and isolation at Cornell University. She is a member of Phi Beta Kappa and Sigma Xi, and her professional accomplishments include eighteen publications and four patents. Represented industry on the Endocrine Disruptor Screening and Testing Advisory Committee and participated in writing the final EDSTAC Report. She is continuing to work with EPA and other stakeholders to implement endocrine screening and testing priority setting and validation.



Jun SEKIZAWA

[Chief, Division of Chemo-Bio Informatics, National Institute of Health Sciences, Japan]

Graduated from the Faculty of Agronomy, Tokyo University. Worked in the Tokyo Metropolitan Research Institute on Environmental Science, the State University of New York, a private company, and the National Institute of Health Sciences. Working in collaboration with the International Programme on Chemical Safety, especially developing the Concise International Chemical Assessment Documents for triphenyltin compounds, diethylphthalate, and others. Published "Databook on Pesticide Safety Evaluation", LIC, 1997; "Dioxin and Endocrine Disruptors" (1998, Tokyo Kagaku Dojin); a Japanese translation (1997) of the NRC (1989) "Improving Risk Communication", etc..

Taisen IGUCHI

[Professor, Center for Integrative Bioscience, Okazaki National Research Institutes, Japan]

1974 B.Sc.; 1976 M.Sc., Biology, Okayama University. 1981 Ph.D., Zoology, University of Tokyo. 1978-1979 Researcher in Cell Biology, Shigei Medical Institute, Okayama. 1979-1987 Research Associate, Biology, Yokohama City University. 1981-1983 Postdoctoral Fellow, Department of Zoology and Cancer Research Laboratory, University of California, Berkeley. 1987-1991 Associate Professor, Biology, Yokohama City University. 1989 Visiting Endocrinologist, Department of Zoology and Cancer Research Laboratory, University of California, Berkeley. 1989-1991 Associate Professor, Graduate School of Integrated Science, Yokohama City University. 1992-2000 Professor, Biology and Graduate School of Integrated Science, Yokohama City University. 2000-present Professor, Center for Integrative Bioscience, Okazaki National Research Institute.

Louis J. GUILLETTE Jr.

[Professor of Zoology, Distinguished Alumni Professor, University of Florida, U.S.A.]

Received his doctorate in Reproductive Biology from the University of Colorado in Boulder in 1981. He is an award winning teacher and researcher at the University of Florida. Recognized for his research examining the hormonal influences during embryonic development. He has also examined the role of endocrine-disrupting contaminants during embryonic development in various wildlife species. His current work examines the effects of embryonic exposure to low doses of mixtures of modern use and "old" pesticides as well as examining the endocrine disruptive effects of chemicals commonly found in nutrient rich ecosystems.

Hyeon-Seo CHO

[Associate Professor, Department of Oceanography, Yosu National University, Korea]

Education: 1982 Bachelor, National Fisheries University of Pusan. 1984 Master, National Fisheries University of Pusan; Major subjects: Heavy metal pollution. 1993 Doctor of Philosophy, Osaka University; Thesis: Evaluation of environmental exposure to hazardous chemicals based on quantitative risk analysis. Positions held since graduation: 1987-1989 Research assistant, Yosu National University. 1993-1999 Assistant professor, Yosu National University. 1995-1996 Visiting researcher, National Institute for Environmental Studies, Japan. 1999-present Associate professor, Yosu National University. Major research field: Contaminations, fate modeling and risk assessment of organotin and other hazardous chemicals in marine ecosystem.

Koji ARIZONO

[Professor, Environmental and Symbiotic Sciences, Prefectural University of Kumamoto, Japan]

1979 received M. of Sc., from Graduate School of Nagasaki University; majored in Hygienic Chemistry. 1986 received Ph.D. from Graduate School of Kyusyu University. 1999-present Professor, Laboratory of Toxicological Sciences, Faculty of Environmental and Symbiotic Sciences, Prefectural University of Kumamoto. Specialty: Environmental and Molecular Toxicology, Food hygiene, Health Science.

Susan JOBLING

[Research Lecturer, Department of Biological Sciences, Brunel University, U.K.]

Qualifications: Oct. 1991 B.Sc., Honors Degree (2:1) Zoology with Marine Zoology, University of Wales, Bangor. Mar. 1995 Ph.D., "Environmental oestrogenic chemicals and their effects on sexual development in male rainbow trout", Brunel University. Career: Apr. 1995-Nov. 1999 Postdoctoral researcher, Brunel University. Nov. 1999-present Research Lecturer. Her early research publications document the oestrogenic activity of two groups of environmental contaminants (the alkylphenolpolyethoxylates and the phthalates) in fish both in vitro and (in the case of alkylphenols) in vivo. These findings led to increased concern about the presence of these substances in both freshwater and terrestrial environments. Subsequent broader studies, using in vitro systems spanning the vertebrates, confirmed the hormonal activity of these chemicals in other vertebrates (including mammals) and thus emphasised the significance of endocrine disruption from a much broader perspective. Current studies have focused on wild fish populations, rather than molecular and cellular studies in vitro, or laboratory studies in vivo. Her most recent publications document widespread sexual disruption (caused by exposure to sewage effluents) in wild fish and attempt to define when and at what concentrations these effluents exert their effects. Her current research efforts are aimed at understanding both the causes and the consequences of sexual disruption in wild fish, both to the individual and to the population. Author or co-author of 18 Publications.

Caren Christiane HELBING

[Assistant Professor, Department of Biochemistry and Microbiology, University of Victoria, Canada]

Obtained her B.Sc. (Hons.) in Biological Sciences in 1988 at the University of Windsor and Ph.D. (Zoology) at the University of Western Ontario, Canada working on the molecular control of amphibian metamorphosis. In 1993, she joined Dr. Randal Johnston at the University of Calgary to do postdoctoral work in cancer research. In 1999, she became Assistant Professor in Biochemistry at the University of Victoria. She has won numerous awards including a NSERC University Faculty Award. Her research program focuses on the role of cell cycle regulators in amphibian metamorphosis and the use of amphibian indicators for endocrine disruption.

John P. GIESY

[Distinguished Professor of Zoology, Professor of Veterinary Medicine, Michigan State University; Faculty member of the Institute for Environmental Toxicology and National Food Safety and Toxicology Center, U.S.A.]

Received his B.S. degree *Summa cum laude* with honors in biology from Alma College, Alma Michigan in 1970, an M.A. and Ph.D. in Limnology from Michigan State University in 1971 and 1974 respectively. 1974-1981 he was affiliated with the Savannah River Ecology Laboratory and a faculty member in the Institute of Ecology and Department of Zoology at the University of Georgia. He has done extensive research in the areas of metal speciation, multispecies toxicity testing, biochemical indicators of stress in aquatic organisms, fate and effects of polycyclic aromatic hydrocarbons and photo-enhanced toxicity of organic compounds. Research interests include studying the toxicity and reproductive effects of organic compounds on fish and fish-eating birds and mammals in the Great Lakes region with a special interest in mink and raptors. He is also active in the development and application of methods for the assessment of the toxicity of contaminated sediments, especially in the North American Great Lakes. In addition, he has written four books and edited six including the classics, "Microcosms in Ecological Research and Sediments: The Chemistry and Toxicology of In-Place Pollutants". He has served as a member of several US EPA Science Advisory Boards and a member of four National Academy of Sciences panels, including those on Endocrine Disruptors and remediation of PCB-contaminated sediments. He was the Chairman of the Board of Directors of the Society of Environmental Toxicology and Chemistry Foundation for Environmental Education in 1992-1993 and is currently the Vice-President.

Peter MATTHIESSEN

[Head of Environmental Quality, Centre for Environment, Fisheries and Aquaculture Science (CEFAS), U.K.]

An ecotoxicologist, and Head of Environmental Quality at the Centre for Environment, Fisheries and Aquaculture Science (CEFAS) in the United Kingdom. He has worked in the field of aquatic ecotoxicology for over 25 years, and has been involved in the study of endocrine disruptors since 1988. His recent work has focused on the presence and effects of oestrogenic and androgenic substances in the United Kingdom marine environment, and he is project manager of a large Government- and Industry-funded research programme (EDMAR) which is studying the potential that these contaminants may have for interfering with the reproductive success and population survival of marine and estuarine organisms.

Yoshimasa SHISHIBA

[Director, Toranomon Hospital Kajigaya Campus, Toranomon Hospital, Japan]

Mar. 1959 Graduated from University of Tokyo, School of Medicine. July 1965 Research Endocrinologist, UCLA. Aug. 1973 Chief, Division of Endocrinology and Metabolism, Endocrine Research Laboratory, Toranomon Hospital. Oct. 1984 Invited Research Scientist, NIH, USA. Apr. 1992 Director, Toranomon Hospital Kajigaya Campus. June 1997 President, 70th Annual Meeting, Japan Endocrine Society. Nov. 1999 Chairman, Board of Directors, Japan Thyroid Association. Rewards: June 1978 Shichijo Prize, Japan Thyroid Association; Feb. 1980 Ohtsuka Prize, International Thyroid Congress; Oct. 1992 Miyake Prize, Japan Thyroid Association.

Walter J. ROGAN

[Epidemiologist, National Institute of Environmental Health Sciences (NIEHS), U.S.A.]

Received an M.D. from the University of California, San Francisco, and his M.P.H. from UC Berkeley. He came to NIEHS in 1976, and was Chief of Epidemiology 1986-1991, and Acting Clinical Director from 1993-1997. In fall, 2000, the Institute for Scientific Information listed him as author of 78 papers with 967 citations. Studies environmental chemicals and the growth and development of children, including background exposure to PCBs and DDE in North Carolina, the effects on lactation of higher exposures to DDE in Mexico, a PCB-poisoning episode in Taiwan, and a clinical trial of oral chelation therapy to prevent lead-induced disorders cognitive development in toddlers.

Ernst Rudolf BOERSMA

[Professor, University Hospital Groningen, University of Groningen, the Netherlands]

Pediatrician with 30 years of clinical, research and teaching experience internationally and in Holland. Currently he is attached to the Departments of Paediatrics and Obstetrics at the University of Groningen as Professor in Human Nutrition, in particular the nutrition of mother and child in developing countries, including active research in the Aral Sea Area (Uzbekistan). Further fields of interest include clinical aspects of neonatology and perinatal nutrition (epidemiology, etiology, clinical pathology, patho-fysiology, symptomatology, laboratory investigations, management and prevention). Research interests, which resulted in over 100 peer-reviewed papers, include: maternal and perinatal nutrition and metabolism and their effects on the offspring, perinatal care with special emphasis on the effects of (marginal) nutrition on pregnancy outcome and lactation, perinatal exposure to environmental toxic compounds and their effects on long-term growth and (neuro)development of the child and transcultural aspects of maternal and child health. Teaching and training interests include all cadres of health personnel, dealing with the care of mother and child. He has long-term expertise in the organization of in-service postgraduate perinatal workshops all over the world. Other activities include membership and consultancy work with many organizations in Holland and internationally.



Pavel LANGER

[Research Professor, Institute of Experimental Endocrinology, Slovak Academy of Sciences, Slovakia]

Main fields of interest were search for new goitrogens in plants, their analysis, metabolism and thyroid disrupting effects as related to endemic goitre. Later short-term effects on pituitary-thyroid axis (e.g. stress, neurotransmitter manipulations, sympathetic gangliectomy etc.) and interrelations between glucose metabolism and T4 to T3 conversion. Recently epidemiology of subclinical signs of thyroid disorders in adolescents, thyroid disrupting and general toxic effects of organochlorines. Visiting scientist repeatedly in U.S.A. (Oregon Health Sciences University, Portland), Japan (Gunma University, Maebashi) and Europe, Vice President of 7th International Thyroid Conference (Boston, 1975).

Yue-Liang Leon GUO

[Professor, Department of Environmental and Occupational Health, National Cheng Kung University Medical College, Taiwan]

1999-present Director, Division of Occupational Medicine, National Cheng Kung University Hospital. President, Taiwan Environmental and Occupational Medicine Association. 1996-present J Occupational Health (Japan Society for Occupational Health), Member, Editorial Review Board. Educational Background: 1982 M.D., National Taiwan University School of Medicine. 1983 M.P.H., Harvard University School of Public Health. 1987 Ph.D., Johns Hopkins University, School of Hygiene and Public Health, Department of Environmental Health Sciences. 1986-1989 Internal Medicine Residency, Texas Tech University Health Sciences Center, Lubbock, Texas. 1989-1990 Occupational Medicine Fellow, University of California, San Francisco.

Paolo MOCARELLI

[Director, Department of Laboratory Medicine, University Milano-Bicocca, Hospital of Desio-Milano, Italy]

Professor of Clinical Biochemistry at the Medical School, University Milano Bicocca, Italy, Director of the University Department of Laboratory Medicine, Hospital of Desio-Milano, Italy. Coordinator of Clinical Laboratory Studies for monitoring health of population of Seveso area since the dioxin (TCDD) accidental pollution in 1976. WHO expert for effects of Dioxin on humans. Author of more than 140 papers chiefly on international journals. President in 1995 of the Italian Society of Clinical Biochemistry and Clinical Molecular Biology. President in 1999 of the "19th International Symposium on Halogenated Environmental Organic Pollutants" with more than 1000 experts.

Masatoshi MATSUO

[Senior Research Fellow, Sumitomo Chemical Co., Ltd.; Professor of CRCast, Osaka University, Japan]

Education: 1965 Completed the courses of The Graduate School of Tokyo University and received Ph.D.. Professionals: 1965 Joined Sumitomo Chemical Co., Ltd.; 1984 Senior Research Associate; 1996-present Senior Research Fellow. 1997-present Professor of CRCast, Osaka University. 1974-1977 Research Associate of Rutgers-The State University of New Jersey, U.S.A.. Selected publications: "Environ. Health Criteria 133" (WHO IPCS, 1992, co-author); "Ecological Issues & Environ. Impact Assessment" (Gulf Publ. Co., 1997, co-author); "Prediction of Mammalian Toxicities of Chemicals by QSAR" (LIC, 1997); "Prediction of Ecotoxicities of Chemicals by QSAR" (LIC, 1999).

Thomas H. HUTCHINSON

[Senior Research Scientist, AstraZeneca Global Safety, Health and Environment, Brixham Environmental Laboratory, U.K.]

1986 B.Sc. Environmental Science, University of London (King's College) and 1996 Ph.D. Marine Biology, University of Plymouth. Since joining Brixham Environmental Laboratory in 1986, he has worked in ecotoxicology and the ecological risk assessment of pharmaceuticals, pesticides and industrial chemicals and process effluents. His expertise includes aquatic toxicology of freshwater fish, invertebrates and algae, development of genotoxicity bioassays with marine invertebrates, and the evaluation of immunotoxicity in marine fish. In addition to his laboratory based research, he has also conducted field work in the Caribbean and the North Sea. Currently, his major focus is on developing tests for endocrine disruption in aquatic life, with an emphasis on reproductive health and ecological risk assessment. He is an active member of several international ecotoxicology activities, including the American Chemistry Council, European Chemical industry (CEFIC-EMSG) and the OECD endocrine disruptors working group. He has published 35 peer-reviewed papers and book chapters, together with 70 technical research reports.

Hirofumi YOKOTA

[Kurume Laboratory, Chemicals Evaluation and Research Institute (CERI), Japan]

1991-1993 Hiroshima University Graduated School of Biosphere Science, master's course. 1998-present Kyushu University Graduate School of Bioresources and Bioenvironmental Science, doctorate course. 1993-present Chemicals Evaluation and Research Institute (CERI), Japan.

Jun KANNO

[Section Chief (Senior Scientist), Cellular & Molecular Toxicology Division, Biological Safety Research Center, National Institute of Health Sciences, Japan]

Received his M.D. from School of Medicine, Tokyo Medical and Dental University Graduate School for Medicine, Tokyo, Japan. 1986-1997 had been the teaching profession at School of Medicine, Tokyo Medical and Dental University. 1991-1993 Visiting Scientist, Cancer Genetics and Molecular Pathology, National Institute of Environmental Health Sciences, RTP, NC, U.S.A.. 1997-present engaged at present position, specialize in General pathology, Endocrine pathology (thyroid), Toxicology, Experimental pathology. Research includes molecular toxicity focused on studies on Endocrine Disrupting chemicals, carcinogenesis, general/molecular-based toxicology and OECD/EDTA Uterotrophic Assay project as the lead laboratory testing research of EDCs.

Paul Matthew David FOSTER

[Research Program Director, Chemical Industry Institute of Toxicology (CIIT), U.S.A.]

Currently the Director of the research program in endocrine, reproductive and developmental toxicology at the Chemical Industry Institute of Toxicology in Research Triangle Park, NC. Joined the Institute in Dec. 1995 after a 13 year career at Zeneca's (formerly Imperial Chemical Industries) Central Toxicology Laboratory in Cheshire, England, where he was Head of Reproductive and Developmental Toxicology. He was responsible for all aspects of the Company's activities in this field in both the research and regulatory arenas. Research interests span from understanding the potential human health effects of endocrine disruptors, mechanisms of testicular toxicity, the study of early testicular Leydig cell dysfunction induced by chemicals as a prelude to hyperplasia and tumours, the use of rat whole embryo culture techniques for the study of structure - activity (developmental toxicity) relationships, and toxicokinetic and dynamic parameters affecting the induction of developmental toxicity. He was presented with the European Society of Toxicology's young scientist award in 1988 for his work on testicular toxicity and has served on numerous national and international committees (NTP, NIEHS, EPA, WHO, IPCS, ECETOC, OECD, INSERM, MRC, NRC/ NAS, SETAC) dealing with reproductive toxicology and endocrine disruption. Member of a number of learned Societies dealing with toxicology and reproduction and is a former Chair of the Continuing Education Committee and President of the reproductive and developmental toxicology specialty section of the Society of Toxicology. He is currently serving on the editorial board of Reproductive Toxicology and as an Associate Editor of Toxicological Sciences.

Yoshitaka NAGAHAMA

[Professor, Laboratory of Reproductive Biology, National Institute for Basic Biology, Japan]

1966 B.Sc., Faculty of Fisheries, Hokkaido University. 1968 M.Sc., Fisheries, Faculty of Fisheries, Hokkaido University. 1971 Ph.D., Fisheries, Faculty of Fisheries, Hokkaido University. 1970-1971 Postdoctoral Fellow, Faculty of Fisheries, Hokkaido University. 1972-1974 Postdoctoral Fellow, University of British Columbia, Vancouver, Canada. 1977 Research Assistant Endocrinologist, Department of Zoology, University of California, Berkeley. 1977-1986 Associate Professor, Laboratory of Reproductive Biology, National Institute for Basic Biology. Holds current position since 1996.

Hajime NAWATA

[Professor and Chairman, Department of Medicine and Bioregulatory Science, Graduate School of Medical Sciences, Kyushu University, Japan]

1960-1966 Kyushu University Medical School (MD). 1966-1967 Intern, Kyushu University Hospital. 1976-1980 Research associate, National Cancer Institute, National Institute of Health (USA). 1980-1983 Associate Professor, Third Department of Internal Medicine, Faculty of Medicine, Kyushu University. 1999-present Professor and Chairman, Department of Medicine and Bioregulatory Science, Graduate School of Medical Sciences, Kyushu University. Membership: Society of Internal Medicine; Endocrine society (Member of executive committee); Diabetes Society (Japan & USA); Society of Metabolism & Nutrition; Society of bone metabolism; Society of obesity and atherosclerosis; Geriatric society; Association for cancer Research; Society of gastroenterology and hepatology; International Society of Endocrinology (Member of executive committee); The American Endocrine Society (Member of membership committee). Editorial Board: Clinical Science (England); Endocrine Journal (Chief editor, Japan); Internal Medicine (Japan). Award: 1986 Prize of 59 th Japan Endocrine Society.

Masaru NAKAMURA

[Professor, University of The Ryukyus, Tropical Biosphere Research Center, Japan]

1978 Ph.D., Hokkaido University. 1976-2000 Teikyo University, Assistant Professor, Associate Professor. 2000-present University of The Ryukyus, Professor. Award: 2000 Progress Award, The Japanese Society of Fisheries Science. Specialty: Sex Differentiation and Sex Change in fish, Fish Endocrinology.

Ken-ichirou MOROHASHI

[Professor, Department of Developmental Biology, National Institute for Basic Biology, Japan]

1978-1981 B.Sc., Faculty of Science, Kyushu Univ.. 1981-1986 Ph.D., Department of Biology, Graduate School of Science, Kyushu Univ.. 1986-1987 Research Associate at the Department of Biology, Kyushu Univ.. 1987-1996 Instructor at the Department of Molecular Biology, Graduate School of Medical Sciences, Kyushu Univ.. 1996- present Professor at National Institute for Basic Biology ; Professor at The Graduate University for Advanced Studies. He has received the Young Investigator Award from Japanese Biochemical Society in 1994.



Douglas Michael STOCCO

[Grover E. Murray Distinguished Professor of Cell Biology and Biochemistry; UMC Endowed Chair; Robert A. Welch Endowed Chair in Biochemistry, Department of Cell Biology and Biochemistry, Texas Tech University Health Sciences Center, U.S.A.]

Education: 1967 B.Sc., University of Windsor, Canada; 1969 M.Sc., University of Windsor, Canada; 1972 Ph.D., University of Toronto, Canada. Professional Record: 1972-1974 University of California at Los Angeles, Postdoctoral Fellow in Department of Biology; 1974-1980 Texas Tech University Health Sciences Center, Assistant Professor of Biochemistry; 1980-1990 Associate Professor of Biochemistry; 1990-1994 Professor of Biochemistry and Molecular Biology; 1994-present Professor of Cell Biology and Biochemistry; 1974-present Graduate Faculty; 1997-present Grover E. Murray Distinguished Professor; 1998-present UMC Endowed Chair; 2000-present Robert A. Welch Endowed Chair in Biochemistry. Recent Honors and Awards: 1985-1990 NIH Research Career Development Awardee; 1993 Presidents Academic Achievement Award; TTUHSC; 1996-2006 NIH MERIT Grant Awardee; 1997 Achievement Rewards for College Scientists (ARCS) Distinguished Scientist Award for 1997 (Lubbock Chapter); 1997 Grover E. Murray Distinguished Professorship; 1997 William A. Sadler Lecture; 1997 Society for the Study of Reproduction Research Award for 1997; 1998 UMC Endowed Chair; 1999 British Endocrine Society Transatlantic Lecture Award; 2000 Association for Women in Communications: Headliner Award.

Kenneth S. KORACH

[Scientific Program Director, Environmental Diseases and Medicine Program; Chief, Laboratory of Reproductive and Developmental Toxicology; Chief, Receptor Biology Section, National Institute of Environmental Health Sciences(NIEHS), National Institute of Health(NIH), U.S.A.]

After receiving his Ph.D. in 1974, he held a postdoctoral at Harvard Medical School. He joined the National Institute of Environmental Health Sciences in 1976 to head a research group investigating some basic mechanisms of estrogen hormone action. He also studied the role of estrogen receptors in mediating hormonal responses; characterized estrogen receptors and hormonal responsiveness during early development; described the coupling of growth factor and nuclear receptor signaling pathways; investigated estrogen carcinogenesis and toxicity; and created mouse lines using different transgenic technologies and gene targeting strategies for evaluating the role of the estrogen receptor in endocrine regulation and hormonal carcinogenesis. He had been an Editor for "Endocrinology", the flagship journal of the American Endocrine Society and is now the Editor-in-Chief of the journal. He holds adjunct professorships and was appointed into the Senior Biomedical Research Service (SBRS) at NIH. He has been the recipient of numerous distinguished awards for his work.

Tohru INOUE

[Chairman, Cellular & Molecular Toxicology Division, Biological Safety Research Center, National Institute of Health Sciences, Japan]

M.D. and Ph.D. from Yokohama City University (YCU) and the YCU-Graduate School in 1970 and 1974, respectively. Post-doctoral research involved hemopoietic stem cell biology as a Principal Investigator at the Tokyo Metropolitan Institute of Gerontol (1974-1984). In 1979, a visiting investigator, and later a research collaborator at the Medical Department, Brookhaven National Laboratory, NY, involved radiation and chemical toxicology in molecular biological aspects for 15 years. 1984-1994 Associate Professor in Pathol, at YCU, with a research program on cytokines and cytokine receptors. After an appointment as a Head at the National Institute of Radiological Sciences, he is engaged with the present position since 1995.

Robert J. KAVLOCK

[Director, Reproductive Toxicology Division, National Health & Environmental Effects Research Laboratory, U.S. Environmental Protection Agency (EPA), U.S.A.]

Received his Ph.D. in 1977 and for the past eleven years has been the Director of the Reproductive Toxicology Division in the National Health and Environmental Effects Research Laboratory, EPA located in Research Triangle Park, NC. His research interests lie in the development of improved risk assessment approaches for adverse reproductive outcomes. He has been widely published and for the past five years has held a variety of responsibilities for the EPA's research program on endocrine disruptors. He has also been active as a member or officer in a number of organizations such as the Society of Toxicology, the Teratology Society, and the ALTX4 Study Section of NIH. He is the current President of the Teratology Society, and holds adjunct appointments at Duke University and North Carolina State University.

Ronald L. MELNICK

[Senior Toxicologist, National Institute of Environmental Health Sciences (NIEHS), U.S.A.]

Group Leader of Toxicokinetic and Biochemical Modeling in the Laboratory of Computational Biology and Risk Analysis at the National Institute of Environmental Health Sciences. Obtained his undergraduate degree from Rutgers University and his Ph.D. from the University of Massachusetts. He was a postdoctoral research fellow in the Department of Physiology-Anatomy at the University of California in Berkeley and then an assistant professor of life sciences at Polytechnic Institute of New York. At NIEHS he has been involved in the design, monitoring and interpretation of NTP toxicity and carcinogenesis studies, as well as mechanistic studies of environmental and occupational agents. Spent one year in the White House Office of Science and Technology Policy working on interagency assessments of health risks. He is Chair of the Toxicokinetic Faculty at NIEHS and is a member of the review group for the NTP Report on Carcinogens. In 1996, he was elected into the Collegium Ramazzini.

Rochelle W. TYL

[Research Director, Center for Life Sciences and Toxicology, Research Triangle Institute, U.S.A.]

1968 Received her Ph.D. in Developmental Genetics. 1989-present Research Director in Reproductive and Developmental Toxicity at Research Triangle Institute. Certified as a Diplomate with the American Board of Toxicology, the author/co-author of 50+ papers in peer-reviewed journals, eight book chapters, 60+ abstracts, and 35+ governmental reports. She is a lecturer in many courses and symposia, participant in governmental/commercial work groups and peer-review panels, was a member of the EDSTAC (1996-1998), is an editorial board member and manuscript reviewer for various journals, and a member of national toxicology organizations.

Ping C. LEE

[Professor, Department of Pediatrics, Medical College of Wisconsin, U.S.A.]

Ph.D., Professor, Department of Pediatrics, Department of Pharmacology and Toxicology. Director, Pediatric Gastroenterology Laboratory. Investigator, NIEHS marine and Freshwater Biomedical Core Center, University of Wisconsin-Milwaukee. External reviewer for Canadian CF Foundation, Hong Kong Research Grant Council. Panelist for NIEHS and NTP Peer Review Work Shop for "Endocrine Disruptor". Member of American Society for Biochemistry and Molecular Biology, International Society for the Study of Xenobiotics, Society of Toxicology, American Gastroenterology Association, Society of Experimental Biology and Medicine. Research interests: reproductive and endocrine toxicology of xenoestrogens particularly nonylphenols, alcohol toxicity in Zebra fish, neonatal hypoxia on functional and developmental changes in the gastrointestinal tract.

Chiharu TOHYAMA

[Director, Environmental Health Sciences Division, National Institute for Environmental Studies, Japan]

Obtained Ph.D. (toxicology) from the University of Rochester in 1981, and has been working at the NIES since then. Research interests range from basic research to health risk assessment, focusing upon dioxins, environmental endocrine disruptors and heavy metals. He also co-serves as Professor at the Graduate School of the University of Tsukuba.

James C. LAMB IV

[Vice President, BBL Sciences, A Division of Blasland, Bouck & Lee, Inc., U.S.A.]

Vice President of BBL Sciences in Reston, Virginia, USA, he was Special Assistant to the Assistant Administrator for Pesticides and Toxic Substances at EPA, and head of Fertility and Reproduction for the National Toxicology Program. He received his A.B. in Chemistry and Ph.D. in Pathology from the University of North Carolina-Chapel Hill, and a J.D. from the North Carolina Central University School of Law. He is a board-certified toxicologist and past-President of the American Board of Toxicology. He served on two NAS Committees: the Committee on Risk Characterization and the Committee on Hormone-Related Toxicants in the Environment.

Frederick S. vom SAAL

[Professor of Biology, Division of Biological Sciences, University of Missouri-Columbia, U.S.A.]

Professor of reproductive biology and neurobiology in the Division of Biological Sciences at the University of Missouri-Columbia. After receiving his bachelors degree from New York University, he taught biology in the Peace Corps in Somalia and Kenya, and received a Ph.D. in 1976 from Rutgers University in neuroscience. His postdoctoral training was in reproductive physiology at the University of Texas at Austin. He has served on grant review panels at the National Institutes of Health as well as other governmental and nongovernmental organizations, and he served on the National Academy of Sciences Committee on Hormonally Active Agents in the Environment. He is a fellow of the American Association for the Advancement of Science. His research concerns the long-term consequences of exposure during fetal life of the brain and reproductive organs to natural hormones, and both man-made and naturally occurring endocrine disrupting chemicals.

Makoto EMA

[Section Chief, Division of Biological Evaluation, National Institute of Health Sciences, Osaka Branch, Japan]

1970 Graduated from Faculty of Agriculture; Major: Veterinary Medicine, Osaka Prefecture University. 1970-1972 Graduate School of Agriculture, Osaka Prefecture University. 1984 Ph. D., Osaka Prefecture University. 1972 Researcher, Division of Biological Evaluation, National Institute of Health Sciences, Osaka Branch. 1993-present Section Chief.

James P. KARIYA

[Environmental scientist, Office of Science Coordination and Policy, U.S. Environmental Protection Agency, U.S.A.]

M.S.E.S. (Indiana University) in environmental impact assessment; additional graduate work in toxicology at the Massachusetts Institute of Technology. Served as Executive Secretary for the Subcommittee on Toxics and Risk of the National Science and Technology Council. Co-chairman of the USEPA's Risk Characterization Implementation Team. Section Head of the Dietary Risk Evaluation Section of EPA's Office of Pesticide Programs. Main staff-level liaison between the USEPA and the Agency for Toxic Substances and Disease Registry for the production of Toxicological Profiles, with additional experience in Pre-Manufacture Notification review and Long-Term Assessment of chemicals.

Tsuguyoshi SUZUKI

[President, Japan Society of Endocrine Disrupter Research, Japan]

1955 M.D., School of Medicine, University of Tokyo. 1960 Ph.D., Graduate School of Medicine, University of Tokyo. 1968-1971 Associate Professor, Human Ecology, University of Tokyo. 1971-1979 Professor, Public Health, Tohoku University. 1979-1992 Professor, Human Ecology, University of Tokyo. 1992-1996 Director General, Deputy Director General, National Institute for Environmental Studies. Specialty: Human Ecology, Public Health.



Shinichi SAKAI

*[Associate Professor, Environment Preservation Center,
Kyoto University, Japan]*

1976-1981 B.S., M.S., Kyoto University, Environmental & Sanitary Engineering. 1982-1984 Ph.D., Environmental & Sanitary Engineering. 1984-1985 Assistant Professor, Department of Applied Mathematics & Physics, Faculty of Engineering, Kyoto University. 1985 Assistant Professor, Environment Preservation Center, Kyoto University. 1989 Ph.D., Kyoto University. 1995-present Associate Professor, Kyoto University, Environment Preservation Center. Specialized field is an environmental engineering and his research field is "Formation and control of persistent chemical substance", "Material cycles and waste management" and "Hazardous waste management". Member of the expert committee of the Environment Agency, the Ministry of Health and Welfare, and the Ministry of International Trade and Industry. As a member of the editorial board of the Japan Society of Waste Management Experts, he edits "Journal of Material Cycles & Waste Management".

Kathleen CAMERON

*[Head of Priority Chemicals Branch, Department of the
Environment, Transport and the Regions(DETR), U.K.]*

Trained as a toxicologist. Worked formerly in the Department of Health and the European Commission Environment Directorate. Currently Head of the Priority Chemicals Branch in the Department of the Environment, Transport and the Regions and Chairman of the Government's Interdepartmental Group on Endocrine Disruptors.

Masatoshi KANAI

*[Director, Office of Environmental Risk Assessment,
Environmental Health and Safety Division,
Environmental Health Department, Environment Agency,
Government of Japan]*

1982 graduated from Niigata University Medical School. 1982 Department of Public Health, Niigata Prefecture. 1985 Office of Health Studies, Environmental Health Department, Environment Agency. 1990 Deputy Director, Planning Division, Water Supply and Environmental Sanitation Department, Ministry of Health and Welfare. 1994 Deputy Director, Office of Environmental Chemicals Safety Planning Division, Environmental Health Bureau, Ministry of Health and Welfare. 1996 Director, Environmental Health Department, Saga Prefecture. 1999 Director, Office of Environmental Risk Assessment, Environmental Health Department, Environment Agency, Government of Japan.