2nd International Conference on Risk Assessment
Brussels, 26-28 January 2011

Biographies Speakers

Dr. Nancy BECK

Nancy Beck is a toxicologist and science policy analyst in the Office of Information and Regulatory Affairs, within the U.S. Office of Management and Budget (OMB). Since 2002, Dr. Beck has been using her public health background and toxicology expertise to review regulations related to health and the environment and to review, inform, and improve many public health and policy decisions made by Federal Agencies. Nancy also plays a key role in overseeing the implementation of the government wide Information Quality Guidelines and the OMB/OSTP Memorandum on Principles for Risk Analysis. Dr. Beck is the OMB lead for the US-EU International dialogue on risk assessment. This dialogue began in 2007 to encourage cooperation at the scientific and technical level. Before joining OMB, Nancy was a Science and Technology Policy Fellow for the American Association of the Advancement of Science (AAAS) employed at the U.S. EPA, where her work focused on children's health issues, air toxics, and human variability. Nancy has also worked as a Toxicologist and Public Health Advisor for the Washington State Department of Health, and as a Microbiologist for the Estee Lauder Companies. Nancy has a B.S. from Cornell University and an M.S. and Ph.D. from the University of Washington.

Prof. Jim BRIDGES

Prof. Bridges has published over 380 research papers and reviews particularly on mechanisms of toxicity and risk assessment. He is Emeritus Professor of Toxicology and Environmental Health at the University of Surrey, Guildford, UK. At the University he served at various times as the Head of the European Institute of Health and Medical Sciences, Dean of Science and founding Director of the Robens Institute of Industrial and Environmental Health and Safety.

He is the current Chairman (since 2004) of the Scientific Committee on Emerging and Newly Identified Health Risks (SCENIHR), which is one of the three independent Scientific Committees advising the European Commission on issues relating to consumer safety, public health and the environment. Previously he was chairman (1997-2004) of the European Commission's Scientific Committee on Toxicity, Ecotoxicity and the Environment (CSTEE).

Prof. Bridges is a past member of a number of UK committees concerned with workplace safety, veterinary drugs, chemical residues in food and air, soil and water quality. He has served as Chairman of the British Toxicology Society, and the Federation of European Societies of Toxicology. He also founded the European Drug Metabolism Workshops. In addition, he has held visiting appointments at the University of Rochester (USA) University of Texas (South West Medical School) at the National Institute of Environmental Health Sciences (USA) and the National Research Institute (Mexico City).

Prof. Thomas A. BURKE

Thomas A. Burke is the Jacob I and Irene B. Fabrikant Professor and Chair in Health, Risk and Society and Associate Dean for Public Health Practice and Training at the Johns Hopkins Bloomberg School of Public Health. He is a Professor in the Department of Health Policy and Management, with joint appointments in the Department of Environmental Health Sciences and the School of Medicine Department of Oncology. He is also Director of the Johns Hopkins Risk Sciences and Public Policy Institute. His research interests include the development of new approaches to environmental health risk assessment and environmental health surveillance, and their applications to environmental health policy. In 2006 he was named a Fellow of the Society for Risk Analysis in recognition of his contributions to the field.

Dr. Burke is a member of the U.S. EPA Science Advisory Board. He was the inaugural chair of the Advisory Board to the Director of the CDC National Center for Environmental Health and a member of the Executive Committee of the EPA Board of Scientific Counselors. Dr. Burke has also been very active in working on national science policy issues with the National Academy of Sciences (NAS). He served two terms on the NAS Board on Environmental Studies and Toxicology. He was the Chair of the NAS Committee on Improving Risk Analysis Approaches Used by the U.S. EPA. The report of this Committee, *Science and Decisions*, provides a framework for improving the application of risk analysis to environmental decision making. He was also Chair of the NAS Committee on Human Biomonitoring for Environmental Toxicants, Chair of the NAS Committee on Toxicants and Pathogens in Biosolids Applied to Land, and was a member of the NAS Committee on the Toxicological Effects of Methyl Mercury. In 2003, he was designated a lifetime National Associate of the National Academy of Sciences.

Professor
Peter Calow OBE

Prof. Peter CALOW

Currently has professorial positions at both the University of Sheffield (UK) and Roskilde University (Denmark), but will move to a Research Professor position at the University of Nebraska (Lincoln), US in Spring 2011. Professional activities have focussed on ecological risk assessment and are at the science-policy interface. Has sat on numerous advisory committees; and is currently vice-chairman for environment on the European Commission's Scientific Committee for Health and Environmental Risks (SCHER). Has written more than 250 articles (including more than 20 books). Was one of the founding Presidents of SETAC Europe. Received the SETAC Europe Education Award in 2005. Was honoured with the UK Order of the British Empire in 2000 for services to the environment.

Dr. Peter CHAN

Dr. Chan obtained his Master degree in Zoology/Medical Genetics and a Doctoral degree specialized in the area of chemistry, toxicology and pharmacology from the University of British Columbia.

In 1988, he joined the former Bureau of Drug Research as a Research Fellow on an NSERC Fellowship where he began his career in Health Canada. Since then, Dr. Chan had worked in different capacities at the Environmental Directorate and Therapeutic Products Directorate within Health Canada.

In February of 2000, Dr. Chan was appointed as the Director of the Bureau of Product Review and Assessment of the newly created Office of Natural Health Products, now the Natural Health Products Directorate.

In November 2006, Dr. Chan was appointed as the Director General, Health Evaluation Directorate, of the Pest Management Regulatory Agency of Health Canada.

He has extensive experience in human health risk assessment on therapeutic products, natural health products and pesticides. Dr. Chan has written and has been a coauthor of more than 30 scientific publications. He is currently the Head of the Canadian Delegation to the Codex Committee Pesticide Residues. He is currently also a member of the Hong Kong Department of Health International Advisory Board on Chinese Medicines. He was a member of the World Health Organization Working Group on Traditional Medicines. He has also served as peer reviewer in various scientific journals.

Prof. Wolfgang DEKANT

Born 03 Januar 1954; Würzburg, Germany; two children.

Prof. Dekant has a track record of internationally acclaimed research on the biotransformation of xenobiotics and studies related to interactions of biologically reactive intermediates with cellular macromolecules and function. Part of this is based on the application of *in vitro* models (freshly isolated cell preparations, cell culture, subcellular fractions and isolated perfused organs) to study mechanisms of toxicity. The laboratory is/was funded by the European Union, the Deutsche Forschungsgemeinschaft, the Bundesministerium für Forschung und Technologie, the Umweltbundesamt, the US EPA, the US HEI, industry and a number of foundations.

Prof. Dekant was a member of the Scientific Committee on Toxicity, Ecology and the Environment (CSTEE) of the European Union, he presently is member of the Scientific Committee on Health and Environmental Risks (SCHER) and of the Food Additives Panel of EFSA. He also is Editor of Toxicology Letters, associate editor of Toxicology and Applied Pharmacology and is/was member of the editorial board of Chemical Research in Toxicology, Toxicological Sciences, and Xenobiotica. In this capacity and in activities for national and international organizations such as the WHO (ICPS, JECFA) or the US EPA, he regularly peer reviews publications and other scientific work.

Dr. Vicki L. DELLARCO

Dr. Vicki Dellarco is the Science Advisor to the Office of Pesticide Programs (OPP) at the US Environmental Protection Agency (EPA). She has led the development of several major science policies and risk assessments involving implementation of the 1996 Safe Drinking Water and Food Quality Protection Acts including the development of mode of action analyses, cumulative risk assessment methods and guidance, as well as the development of toxicity testing strategies for improving and refining approaches to health risk assessment. She has served as a senior science advisor in other EPA programs including the National Center for Environmental Assessment and the Office of Water. She is the Chair of the Human Health Oversight Committee of the EPA's Risk Assessment Forum, Co-Chair of the Pesticide Program Dialogue Committee 21st Century Toxicology/New Integrated Testing Strategies Workgroup, and the Co-Chair of the USEPA's Office of Pesticide Program's Science Policy Council. Dr. Dellarco also serves on several international committees including the Joint Meeting of Pesticide Residues. Dr. Dellarco is the 2008 recipient of the Arnold J. Lehman award from the Society of Toxicology and the 2009 recipient of the EPA Gold Medal for advances in the

development and implementation of mode of action analysis as a standard for risk assessments. Dr. Dellarco received her Ph.D. in genetics from Iowa State University in 1980.

Mr. Bernardo DELOGU

Bernardo Delogu was trained as a nuclear engineer and started his career in the nuclear industry, working on safety analysis.

He is at the European Commission since 1976, where he has worked for most of his career in the area of environmental protection, consumer safety and risk assessment. In particular, he has worked for many years on policy and regulation in the areas of air pollution, waste, environmental management systems and life cycle assessment. He has been Head of Unit responsible for consumer safety, notably the general product safety legislation, from 1998 to 2006.

He is now Head of the Unit in charge of Risk Assessment at the Health and Consumers Directorate General. His unit ensures the technical support and co-ordination for three Scientific Committees in charge of health, environmental, consumer and new or emerging risks in the non-food area.

Dr. Michael FITZPATRICK

Michael Fitzpatrick currently serves as the Associate Administrator of the Office of Management and Budget's Office of Information and Regulatory Affairs (OIRA), where he helps to lead the Obama Administration's development of regulatory policy and White House review of significant Executive Branch regulatory actions. Earlier this year, President Obama appointed Mr. Fitzpatrick to fill one of the 10 seats on the governing Council of the recently reconstituted Administrative Conference of the United States (ACUS). Mr. Fitzpatrick serves as the Executive Branch liaison to the ABA's Administrative Law Section and has led several U.S. delegations in meetings on regulatory issues with the European Union, Canada, Mexico and the OECD (in Europe, Canada, and the U.S.). During the Presidential Transition, Mr. Fitzpatrick served as deputy lead of the Executive Office of the President and Government Operations Agency Review Teams. From 2001 to 2009, Mr. Fitzpatrick was in the Washington, DC office of Akin Gump Strauss Hauer & Feld LLP, where he was a partner in the Litigation Practice Group, specializing in white collar, complex civil, and regulatory matters. Before joining Akin Gump, Mr. Fitzpatrick served as an Assistant United States Attorney in Washington, DC and as a Senior Advisor to the Administrator of the Office of Information and Regulatory Affairs at the Office of Management and Budget. Mr. Fitzpatrick clerked for Judge William Norris on the U.S. Court of Appeals for the Ninth Circuit after graduating, with distinction, from Stanford Law School. He received his M.A. in American History from the University of Virginia and his

B.A. from Brown University (Magna Cum Laude, Phi Beta Kappa). Mr. Fitzpatrick has written several articles, and appeared on numerous panels, on the regulatory process. Currently, he serves on the Executive Committee for the Public Private Partnership for Justice Reform in Afghanistan and on the Board of Directors of Cultural Tourism DC.

Mr. John GIRALDEZ

John C. Giraldez is an Associate Director at the Red Tape Reduction Commission Secretariat at the Treasury Board of Canada Secretariat (TBS). He has led the development of several major regulatory initiatives including: the Triage Statement, Regulatory Impact Analysis Statement, Performance Measurement and Evaluation Handbook, the Cost-Benefit Analysis Guide, the cost-benefit section of the Cabinet Directive on Streamlining Regulation, the Trans-Atlantic Risk Dialogue, the Canada/US/Mexico Regulatory Impact Analysis Forum and the Instrument Choice Framework, as well as reviewing regulatory proposals as a subject matter expert. He also worked for four years at the Regulatory Affairs group of the Canadian Food Inspection Agency (CFIA) where he led the cost benefit analysis of regulatory proposals. Before working in the Government of Canada, he was a Research Associate at the University of Guelph and a Management Consultant with Deloitte & Touche. John obtained his M.Sc. from the University of Guelph and his B.Sc. from McGill University in economics.

Prof. George GRAY

George M. Gray, Ph.D. is Professor of Environmental and Occupational Health and Director of the Center for Risk Science and Public Health at the George Washington University School of Public Health and Health Services. From 2005 to 2009 he served as the Assistant Administrator for the Office of Research and Development and the Science Advisor at the U.S. Environmental Protection Agency. Prior to joining EPA George was Executive Director of the Harvard Center for Risk Analysis and a member of the faculty of the Harvard School of Public Health.

George's primary research interests are risk characterization, risk communication and the role of science in policy-making. He has published on both the scientific bases of human health risk assessment and its application to risk policy with a focus on risk/risk tradeoffs in risk management.

George holds a B.S. degree in Biology from the University of Michigan, and M.S. and Ph.D. degrees in Toxicology from the University of Rochester.

Prof. Helmut GREIM

Chairman and director of the Institutes of Toxicology at the Technical University (1987 - 2003) and at GSF-Forschungszentrum für Umwelt und Gesundheit (1975 - 2000) in Munich. After receiving his M.D. degree in Berlin, associate professor of pharmacology and toxicology at the University of Tübingen and research associate professor of Pathology at the Mount Sinai School of Medicine, New York (1970 - 1973). Chairman of the German Society of Pharmacology and Toxicology (1982 - 1985), the Advisory Committee on Existing Chemicals (BUA, 1998 - 2007), the DFG-Senate Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (MAK, 1992 - 2007), chairman of the EU Scientific Committee on Health and Environmental Risks (SCHER), member of the EU Scientific Committee on Occupational Exposure Limits (SCOEL) and member of the Risk Assessment Committee of the European Chemicals Agency (ECHA), Enquète-Commission Environment and Health of the German Parliament (1992 - 1994). Arnold J. Lehman Award of the Society of Toxicology (1998). Over 300 publications in scientific journals.

Prof. Tony HARDY

Currently Chair the Plant Protection Products and their Residues Panel of the European Food Safety Authority (EFSA) and also a member of EFSA's Scientific Committee. Throughout a career in public science at the Central Science Laboratory in the UK, working in agricultural science and environmental impact Professor Tony Hardy has been involved in national and international pesticide risk assessment committees for more than 30 years. He lead EFSA's Working Group on terminology as part of the transatlantic risk assessment dialogue.

Dr. Andy HART

Dr Hart is at the Food and Environment Research Agency (Fera), York, UK, a research agency of the UK Department for Environment, Food and Rural Affairs (Defra). He leads Fera's Risk and Numerical Sciences team, which undertakes research in the areas of risk and uncertainty analysis, and also provides expertise in statistics, spatial analysis and informatics to customers both inside and outside Fera. A key focus is developing improved qualitative and quantitative approaches for dealing with variability and uncertainty in human and

environmental risk assessment. The team has applied probabilistic methods to a number of problem areas including ecological risks of pesticides, plant health risks from invasive species, animal disease, human exposure to food contaminants, and the net health impact of dietary choices (risk-benefit analysis). Dr Hart's personal interests include developing practical methods for expression of unquantified uncertainties in risk assessment and policy advice. Dr Hart is a member of the European Food Safety Authority (EFSA) expert panel on pesticides (PPR Panel). He was a member of the EFSA Working Group that developed EFSA's guidance on uncertainty in exposure assessment, and lead author of a 2007 report to the European Commission on the terminology and expression of risk and uncertainty in scientific committee opinions. During 2009-10 he has been closely involved in the EU-US-Canadian initiative on evaluating uncertainty, as a follow up to the First International Conference on Risk Assessment in 2008.

Dr. Margaret HARTLEY

Margaret Hartley has been Chief Executive Officer of the Australian Academy of Technological Sciences and Engineering (ATSE) since January 2009. She leads the Academy in delivering its strategic goals of driving technological science and engineering solutions to key problems facing Australia today.

Dr Hartley's background in regulatory toxicology and population health policy and epidemiology has led to an extensive career with the Australian Government prior to joining ATSE. Her responsibilities have included Principal Scientific Adviser to the Australian Government Department of Health and Ageing, Director of the Office of Chemical Safety, and nine years as Australia's Chemical Regulator, leading and managing risk assessment of chemicals and cosmetics. She was also an expert advisor to the Government on chemical security and chemical diversion control regulations.

Margaret is an advisor to World Health Organization and chaired the Harmonisation of Chemicals Risk Assessment Methodologies Project. She has represented the Australian Government at the WHO, OECD, UNEP, APEC and in establishing bilateral regulatory cooperative arrangements between Australia and Canada, NZ and the USA. She has served on many regulatory and advisory committees in Australia and overseas including the National Drugs and Poisons Scheduling Committee and the UK Health Protection Agency's Scientific Advisory Group of the Global Health Protection Forum.

Dr. Charles KLEIBER

Charles Kleiber was born in Moutier, Canton Bern, 9th December 1942.

He obtained a diploma (MA) in architecture at the Federal Institute of Technology in Lausanne in 1968 and went on to work as an architect until the end of the 1970s, both as an independent and as a consultant specialising in hospital architecture. At the same time, he became involved in problems relating to economic incentives in the field of health. In 1981 he was appointed head of Service for Public Health and Health Planning of the Canton Vaud.

In 1990, he switched full time to the health care domain and presented his PhD thesis on the impact of economic incentives on performance in medical care. The thesis was awarded the Hauser Prize of the University of Lausanne and was published in 1991 by Payot Lausanne under the title “Questions des soins” (Questions of medical care). The following year, he was appointed director general of the university hospitals of Lausanne. He also taught at the Institute for Economy and Health Management at the University of Lausanne.

In October 1997, Charles Kleiber was appointed State Secretary for Education and Research. He held this post for more than ten years. During his tenure, scientific research and higher education were significantly strengthened; new centers of excellence were established, international cooperation was intensified, resources for science were greatly increased, and a constitutional amendment was adopted, paving the way for a national area for science and research.

Charles Kleiber published several pleas in favour of the knowledge economy, and held numerous conferences on this theme (many collected in “Créer”, Favre ed., Lausanne, 2006).

Charles Kleiber continues his action in favour of science and culture. He is president or member of different scientific and cultural institutions, in Switzerland and in Europe. He received several academic distinctions.

He has two children and six grandchildren. When he is not devoting himself to his work and his family, he is indulging his interest in music and literature.

Prof. Andreas KORTENKAMP

Andreas Kortenkamp is professor and head of the Centre for Toxicology at the University of London. His research focuses on exploring the effects of multi-component mixtures of endocrine active chemicals and other substances. The thrust of his work is to assess

whether the effects of mixtures of chemicals can be predicted quantitatively on the basis of information about their individual potency. Dr. Kortenkamp's research interests lie in environmental pollutants that have the potential to cause cancer. More recently, he has concentrated on endocrine active chemicals in the environment and their potential role in the rising incidences of breast cancer and testicular cancer. His earlier work was on the mode of action of chromium (VI) compounds, which are well recognized occupational carcinogens. Dr. Kortenkamp has served on the US National Research Council Panel on cumulative risk assessment for phthalates, and is currently a member of the US Consumer Health Advisory Panel on the assessment of phthalates. He has produced the State of the Art Report on Mixture Toxicology for the European Commission, DG Environment. Recently, he has been called on to the World Health Organisation panel for updating the Global Assessment of Endocrine Disrupters. Dr. Kortenkamp has coordinated the EU CREDO cluster of endocrine disrupter projects and is currently charged with coordinating the EU cluster on reproductive health, NECTAR. He earned his Ph.D. from Bremen University, Germany.

Prof. Gérard LASFARGUES

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Present position: Gérard LASFARGUES is currently the Deputy Director General for Scientific Affairs of ANSES (French Agency for Food, Environmental and Occupational Health Safety) as well as a university hospital physician and professor of medicine and occupational health.

Education and professional career: After studying medicine in Paris, Dr. Lasfargues worked as a physician and professor at the University Hospital of Tours. While training in occupational health research, he specialized in industrial toxicology in the Toxicology unit of the Louvain Catholic University in Belgium, headed by Professor Lauwerys.

For the last 20 years, Dr. Lasfargues has directed clinical, teaching, research and assessment work in the occupational and public health fields. Beginning in 2007, he set up and directed the Department of Environmental and Occupational Health Assessment of the French Agency for Environmental and Occupational Health Safety (AFSSET), before being appointed in 2009 as the Deputy Director General for Scientific Affairs of AFSSET, and now of ANSES.

Publications: Dr. Lasfargues is the author of many French and international papers, articles and other publications in the various occupational health fields. The majority of his work deals with the respiratory toxicology of metals, epidemiology and the assessment of the major occupational risks, including chemicals, physical agents, psychosocial risks, work hardness and ageing, long term effects (cardiovascular disease, cancer…).

Dr. Bette MEEK

Dr. Meek has a background in toxicology receiving her M.Sc. in Toxicology (with distinction) from the University of Surrey, U.K. and her Ph.D. in risk assessment from the University of Utrecht, the Netherlands. She is currently the Associate Director of Chemical Risk Assessment at the McLaughlin Centre for Population Health Risk Assessment, University of Ottawa, completing an interchange assignment from Health Canada. She has extensive experience in the management of chemical assessment programs within the Government of Canada, most recently involving development and implementation of process and methodology for the health assessment of Existing Substances under the Canadian Environmental Protection Act (CEPA) and previously, programs for contaminants in drinking water and air.

With colleagues within Canada and internationally, she has contributed to or led initiatives to increase transparency, defensibility and efficiency in health risk assessment, having convened and participated in initiatives in this area for numerous organizations including the International Programme on Chemical Safety, the World Health Organization, the International Life Sciences Institute, the U.S. Environmental Protection Agency, the U.S. National Academy of Sciences and the U.S. National Institute for Environmental Health Sciences. Relevant areas have included frameworks for weight of evidence analysis including mode of action, chemical specific adjustment factors, physiologically-based pharmacokinetic modeling, combined exposures and predictive modeling. She has also authored over 175 publications in the area of chemical risk assessment and received several awards for contribution in this domain.

Dr. Halûk ÖZKAYNAK

Dr. Halûk Özkaynak is a Senior Scientist at U.S. EPA's National Exposure Research Laboratory (NERL) in the Office of Research and Development (ORD). Principal responsibilities of his position include, developing and applying new exposure analysis and modeling methods for improved assessment of population health risks. Currently he is the Project Officer of an EPA/NERL funded air pollution and health program with multiple universities. Prior to joining EPA in 1998, Dr. Özkaynak was a Lecturer at the Department of Environmental Health of Harvard School of Public Health in Boston. His research at Harvard included, directing a multi year environmental epidemiology study in Russia funded by the World Bank, and participating in various exposure assessment and community studies, including the National Human Exposure Assessment Survey (NHEXAS) and the Kanawha Valley Health Studies, both sponsored by the U.S EPA. Dr. Özkaynak is a former President of the International Society of Exposure Science (ISES).

Prof. Michel PETIT

After about 20 years of research at the National Center for Telecommunication Studies (Centre national d'études des télécommunications), Michel Petit held various management positions in diverse research organizations: director of the National Institute of Astronomy and Geophysics (Institut national d'astronomie et de géophysique), scientific director of the Earth, Ocean, Atmosphere, and Space department at the National Center for Scientific Research (Centre national de la recherche scientifique, CNRS), adviser on science and technology for the Permanent Representation of France to the European Communities, director of international affairs at the ministry in charge of research, managing director of space affairs at the ministry in charge, director of research and economic and international affairs at the Ministry of the Environment, and deputy Director General in charge of research at Ecole Polytechnique.

Since retiring in 2000, he has continued to work for the Intergovernmental Panel on Climate Change (IPCC), for which he was a bureau member from 1992 to 2002 and co-anchor of the cross-cutting issue "scientific uncertainty and climate risk management" for the Fourth Assessment Report (2007).

Prof. Ortwin RENN

Ortwin Renn serves as full professor and Chair of Environmental Sociology and Technology Assessment at Stuttgart University (Germany). He directs the Interdisciplinary Research Unit for Risk Governance and Sustainable Technology Development (ZIRN) at Stuttgart University and the non-profit company DIALOGIK, a research institute for the investigation of communication and participation processes in environmental policy making. Since 2006 Renn has been elected Deputy Dean of the Economics- and Social Science Department. He also serves as Adjunct Professor for "Integrated Risk Analysis" at Stavanger University (Norway) and as Contract Professor at the Harbin Institute of Technology and Beijing Normal University.

Ortwin Renn has a doctoral degree in sociology and social psychology from the University of Cologne. His career included teaching and research positions at the Juelich Nuclear Research Center, Clark University (Worcester, USA), the Swiss Institute of Technology (Zuerich) and the Center of Technology Assessment (Stuttgart). His honours include an honorary doctorate from the Swiss Institute of Technology (ETH Zurich) and the "Distinguished Achievement Award" of the Society for Risk Analysis (SRA). Among his many political advisory activities the chairmanship of the State Commission for Sustainable Development (German State of Baden-Württemberg) is most prominent. Renn is primarily interested in risk governance, political participation and technology assessment. His has published more than 30 books and 250 articles, most prominently the monograph "Risk Governance" (Earthscan: London 2008).

Prof. Geoffrey L. SMITH

Geoffrey Smith is a Wellcome Trust Principal Research Fellow and the Head of the Section of Virology and Division of Infectious Diseases at Imperial College London. He graduated in Biochemistry and Microbiology from the University of Leeds in 1997 and obtained his PhD in 1981 working with Alan J. Hay on influenza virus at the National Institute for Medical Research, Mill Hill, London. As a postdoctoral fellow in Bernard Moss's laboratory at the National Institutes of Health, USA (1981-84) he developed vaccinia virus as an expression vector and pioneered the use of genetically engineered viruses as live vaccines, a principle applied subsequently to many other viruses and micro-organisms. He continued working with poxviruses after returning to UK, first in Cambridge (1985-89), then in Oxford (1989-2000) and now at Imperial College London. His research group studies the interactions of poxviruses (particularly vaccinia virus) with the host cell and immune system.

Currently, he is President-Elect of the International Union of Microbiological Societies, Chairman of the WHO Advisory Committee for Variola Virus (smallpox) Research, Chairman of the Royal Society Committee for Scientific Aspects of International Security, and a Governor of the Lister Institute of Preventive Medicine. He is also a member of the UK Defence Scientific Advisory Council and the Royal Society Science Policy Advisory Group. In 2002 he was elected a Fellow of the Academy of Medical Sciences and the Institute of Biology. In 2003 he became Editor-in-Chief of the Journal of General Virology and was elected a Fellow of the Royal Society. In 2005 he was awarded the Feldberg Foundation Prize in Medical and Biological Science to promote Anglo-German Friendship. In 2009 he was elected a Founding Member of the European Academy of Microbiology, and in 2010 was elected a Corresponding Member of the Gesellschaft für Virologie (GfV).

Dr. José V. TARAZONA

Doctor in Veterinary Medicine with a Ph.D. in Toxicology by the University Complutense of Madrid, Dr. Tarazona started his scientific career on mammalian toxicology at the Veterinary Faculty of Madrid and moved to ecotoxicology and environmental risk assessment as staff researcher of the Spanish National Institute for Agriculture and Food Research and Technology (INIA), serving as Head of the Division of Environmental Toxicology, Director of the

Department of the Environment and Scientific Director of the Spanish REACH Reference Centre. In August 2009, he moved to the European Chemicals Agency as Chair of the Committee for Risk Assessment.

Co-author of over 250 scientific papers including 18 books/monographs, he has been involved in the scientific advisory board of the European Union since 1992; as member of the CSTE, and vice-chair of the Scientific Committee on Toxicity, Ecotoxicicity and the Environment (CSTEE) and of the Scientific Committee on Health and Environmental Risks (SCHER), where he is still acting as member. He has also provided scientific support to the Spanish delegations at the ECB, OECD Task Force on chemicals, and UNEP programmes on POPs and GHS; chairing the OECD Expert Group on Chronic Aquatic Hazards and the OECD and UN Expert Groups on Terrestrial Hazards within the GHS strategy, and appointed as member of the UNEP POPs Review Committee under the Stockholm Convention.

Mrs Paola TESTORI COGGI

Paola Testori Coggi is Director General in the Directorate-General for Health and Consumers of the European Commission since April 2010.

In July 2007 she became Deputy Director General for Health and Consumers with specific responsibility for food safety and animal health, inspections and scientific matters.

Since 2000, as Director for the Safety of the food chain, she has been responsible for the White Paper on food safety and the legislative action programme as well as the management of emergencies.

She was previously Advisor for consumer health in the Cabinet of Commissioner Emma Bonino and she worked on the definition of the new EU policy on consumer health after the food safety crisis.

Paola Testori Coggi joined the European Commission in 1983 in the Directorate-General for Environment where she worked until 1989 in the field of the control of dangerous chemicals and industrial risks. Afterwards, she served as Member responsible for the research programmes on life sciences, environment and energy in the Cabinet of the Vice-President of the European Commission, Filippo Maria Pandolfi. She also worked in the EU Joint Research Centre where she was responsible for administrative coordination.

Paola Testori Coggi is a biologist from the University of Milan, Italy, with a Master degree in Ecotoxicology. In 2008 she received a Doctor Honoris Causa in Veterinary Medicine at the University of Cluj, Romania.

Mr. Benoit D. TURCOTTE

Benoit D. Turcotte was called to the Bar of Ontario in 1998 after completing his legal studies at the University of Ottawa. He briefly practiced insurance law before beginning work with the federal government at the Office of the Superintendent of Bankruptcy (OSB) within the Department of Industry. During his time with the OSB, he also taught Bankruptcy and Insolvency Law at the Faculty of Law at the University of Ottawa in both the Common Law and Civil Law sections. A brief stint at the Corporate Law Policy Directorate of the Department of Industry was followed by work at the Privy Council Office, Regulatory Affairs Division, where he managed the Cabinet Committee Operations group that advises the Treasury Board Cabinet Committee on various regulatory matters and submissions. During his time at the Privy Council Office, he was involved in the development of various initiatives under the Federal Government's Smart Regulation Initiative. More recently, he was Manager of the Regulatory Policy Group for the Assisted Human Reproduction Implementation Office at Health Canada. In 2007 he was invited to establish and lead the Centre of Regulatory Expertise within the Regulatory Affairs Sector of the Treasury Board of Canada Secretariat. Since November 2009 he has been the Director of the Policy Division within the same office.

Dr. Theo VERMEIRE

Theodorus Gabriël (Theo) Vermeire (1953) studied chemistry and toxicology at the University of Utrecht. He received his MSc and teaching qualifications in 1978 and in 2009 he obtained his PhD in the area of risk assessment and uncertainty analysis. From 1978 - 1981, he lived in Zambia for three years, working as teacher chemistry. Following this experience, he started his career in risk assessment as toxicologist at the Ministry of Housing, Physical Planning and the Environment contributing to projects of the WHO International Programme on Chemical Safety (IPCS) and UNEP International Register of Potentially Toxic Chemicals (currently: UNEP Chemicals). In 1987, he was employed by the National Institute for Public Health and the Environment (RIVM) and has served in a good number of scientific and managerial functions up to this day. Major projects were the development of the Netherlands' Uniform System for the Evaluation of Substances (industrial chemicals, plant protection products and biocides) and the European Union System for the Evaluation of Substances (industrial chemicals and biocides). His present position at RIVM is deputy head of the RIVM Expertise Centre for Substances SEC. He manages a group within SEC preparing risk assessments and related products for mainly industrial chemicals and working on risk assessment methodology. As an expert with a wide knowledge on toxicology and risk assessment, he has been involved in many expert groups developing guidance and tools for risk assessment (e.g. for IPCS/WHO, EU, OECD) and in a substantial number of training courses in this area in and outside Europe. Recently, he has co-edited, and contributed to, the

standard risk assessment volume "Risk assessment of Chemicals, an Introduction". He is a member of the Scientific Committee of the European Environment Agency and the Scientific Committee on Emerging and Newly Identified Health Risks (SCENIHR) of the European Commission and the WHO/IPCS Steering Group for the Harmonisation of Approaches to the Assessment of Risk from Exposure to Chemicals.

Dr. Hans H. YU

Hans Yu is the Director of the Bioethics, Innovation and Policy Integration Division in the Strategic Policy Branch at Health Canada. He received his MSc in Microbiology and Immunology at Queen's University through research on the replication and gene expression of baculoviruses. In 1990, Mr. Yu joined the federal government as an evaluator of biotechnology products and has occupied many and varied scientific and management roles since then. These included assignments as Associate Director in the Biologics and Genetic Therapies Directorate at Health Canada, responsible for pre-market review and authorization of biotechnology drugs, as Director in the Marketed Health Products Directorate at Health Canada, responsible for post-market surveillance of biotechnology and natural health products, as Director of Health Effects Division 1 at the Pest Management Regulatory agency, responsible for pre-market review of pest control products. Prior to coming to Health Canada, Hans was responsible for scientific risk assessments of biological fertilizers at the Canadian Food Inspection Agency.

In his current position, Hans has responsibilities for policy developments related to science and technology discoveries. He is also responsible for bioethical issues, including those related to research involving humans, and for enhancing the science and policy interface within the department. He chairs Health Canada's Task Force on Scientific Risk Assessment, aimed to enhance the coordination and coherence of the department's scientific risk assessment activities.

Dr. Valerie G. ZARTARIAN

Dr. Valerie Zartarian received her Ph.D. and Masters degrees in environmental engineering from Stanford University, and a B.S. in civil engineering from Princeton University. She joined EPA's Office of Research and Development (ORD), National Exposure Research Laboratory (NERL) in 1998, and is now a senior research environmental engineer.

Dr. Zartarian's areas of expertise as a principal investigator in ORD/NERL's human exposure modeling program and communities exposure research program are the development and application of probabilistic human exposure models (Stochastic Human Exposure and Dose Simulation (SHEDS) models) to address regulatory issues (e.g., pesticides), and developing exposure tools to advance the science of community-based cumulative risk assessments (e.g., Community-Focused Exposure and Risk Screening Tool (C-FERST)). She is also known for

her work in the areas of quantifying children's activity patterns for exposure modeling, and international harmonization of exposure-related terminology.

Dr. Zartarian has published EPA technical reports and over 20 peer-reviewed journal articles; given over 100 presentations; co-chaired national and international conference sessions; served as an officer and committee chair of the International Society for Exposure Science (ISES); and collaborated with various groups in government, academia, and industry.

Dr. Zartarian has received numerous awards, including EPA's Gold and Bronze Medals and EPA's Children's Environmental Health Excellence Award.

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