



DIVISION VI - Chemistry and the Environment

Members' biographical notes

Rai Kookana (Australia), President - rai.kookana@csiro.au

Dr Rai Kookana is a Senior Principal Research Scientist with CSIRO Land and an Honorary Professor with the University of Adelaide. He obtained his PhD degree from the University of Western Australia (1989) and joined CSIRO as a research scientist in 1992. Dr Kookana's research over last 30 years has mainly focused on understanding the risks and minimizing non-target impact of organic contaminants in the environment. Dr Kookana's current research interests focuses on fate and behaviour of micropollutants (e.g. pharmaceuticals and personal care products - PPCPs), in the aquatic and terrestrial environments. He and his team are also working on organic chemicals associated with wastewater for water recycling and reuse. Dr Kookana has published more than 200 journal articles and 20 book chapters and edited several books on environmental chemistry, eco-toxicology and ecological risk assessment of contaminants in both terrestrial and aquatic ecosystems. His work has been cited more than 6000 times in the scientific literature. His current H-Index (ISI) is 40. Dr Kookana was offered the highest recognition by the Soil Science Society of America in 2012 by electing him a Fellow.

Petr Fedotov (Russia), Past President - fedotov_ps@mail.ru

Petr Fedotov graduated from the Chemical Faculty of Lomonosov Moscow State University with a first-class honours degree in 1991. In 1995 he successfully defended his thesis and obtained Ph.D. degree in Chemistry from Vernadsky Institute of Geochemistry and Analytical Chemistry where he is working now as a Leading Research Scientist. In 2006 he defended his second (doctoral) thesis.

Petr Fedotov speaks fluently English and French, slightly German. In 1996 he was granted by the French Ministry of Higher Education (post-doctoral fellowship) and worked during one year on the analysis of environmental samples in the High School of Industrial Physics and Chemistry (Paris, France). Then he worked many times as an invited scientist in Helmholtz UFZ Centre for Environmental Research (Leipzig, Germany) and the University of Balearic Islands (Palma de Mallorca, Spain). In the framework of international projects he also collaborated with scientists and lecturers of Italy, South African Republic, USA, and Canada. He has prepared a series of special courses for PhD students. In 2005 he established a research group at Vernadsky Institute of Geochemistry and Analytical Chemistry. Relations and contacts with foreign scientists have allowed him to submit joint applications and win international grants including individual mobility grants for PhD students and other members of the research group. Since 2014 he is also

head of the new laboratory of separation and pre-concentration in the chemical diagnostics of functional materials and environmental objects at the National University of Science and Technology "MISIS".

Since 2001 Petr Fedotov is Scientific Secretary of the National Committee of Russian Chemists, since 2010 he is Chair of the Commission for International Affairs of the Russian Scientific Council for Analytical Chemistry, he is also Executive Editor-in-Chief of "Journal of Analytical Chemistry", member of the Editorial boards of "Separation and Purification Reviews" and "Industrial Laboratory".

Hemda Garelick (United Kingdom), Vice President - h.garelick@mdx.ac.uk

Professor of Environmental Science and Public Health Education, Department of Natural Sciences, School of Science and Technology, Middlesex University. Past Secretary of IUPAC Div VI Chemistry and the Environment.

A long term interest in public health, with particular focuses on health and hygiene aspects of water and sanitation systems, investigating of health aspects of chemical and microbial pollution in water and soil. In particular, the analysis and the fate of antibiotics and antibiotic resistant microorganisms in the environment and in food, as well as the impact of solid waste disposal such as electronic waste and its effect.

My interest in pollution affecting poor societies has also led me to investigate the problem of arsenic pollution in drinking water. Arsenic currently threatens millions of people in West Bengal and Bangladesh, as a result of their exposure to contaminated groundwater. Major problems have also been identified in some areas in the USA and China and South America. The research I have carried out at Middlesex included the investigation of specific remediation technologies based on adsorption processes and a critical review of the available processes for remediation and mitigation. A number of IUPAC projects related to the above.

Roberto Terzano (Italy), Secretary - roberto.terzano@uniba.it

Researcher and lecturer in Agricultural Chemistry at the Department of Soil, Plant and Food Sciences of the University of Bari, Italy.

Graduated in Chemistry in 1999 at the University of Bari. In 2005 defended his PhD thesis in Agricultural Chemistry at the University of Bari, for which was awarded by the Italian Society of Agricultural Chemistry. Marie Curie Fellow in 2005 at MiTAC (Micro and Trace Analysis Centre) of the University of Antwerp (Belgium). Scientific Manager of the "Micro X-ray Lab" at the University of Bari. Involved in joined international projects at different European synchrotron facilities. Editor of "Environmental Science and Pollution Research" journal.

Main research interests: biogeochemistry of trace elements in the environment; soil remediation from potentially toxic elements; development of X-ray based analytical methods for agricultural and environmental applications. Task group chair of the IUPAC project: "Trace elements analysis of environmental samples with x-rays: from synchrotron to lab and from lab to synchrotron".

Annemieke Farenhorst (Canada), Titular Member - annemieke.farenhorst@umanitoba.ca

Dr. Annemieke Farenhorst is a professor in the Department of Soil Science, University of Manitoba, Canada. She also holds the Prairies Natural Sciences and Engineering Research Council of Canada (NSERC) Chair for

Women in Science and Engineering. Her PhD degree is from the University of Toronto (1998), Canada. Her research program focuses on pesticides, natural steroid estrogens and antibiotics in soil and water, and on drinking water quality in First Nations communities. Most of publications of her research team are in the area of pesticide sorption and mineralization in soil. For the past 14 years, Dr. Farenhorst has been contributing to the National Agri-Environmental Health Analysis and Reporting Program of Agriculture and Agri-Food Canada to develop and refine a pesticide indicator that consists of a stochastic model coupled to the Pesticide Root Zone Model. Dr. Farenhorst is an associate editor for the Journal of Environmental Science and Health, Part B: Pesticides, Food Contaminants, and Agricultural Wastes. Dr. Farenhorst has earned a range of teaching, research and outreach awards, including the Queen Elizabeth II Diamond Jubilee Medal for leadership in pesticide research, and she was named a WXN 2016 Canada's Most Powerful Women: Top 100 Award winner.

Nadia G. Kandile (Egypt), Titular Member - nadiaghk@hotmail.com

Professor Nadia Kandile obtained her PhD in organic chemistry at Ain Shams University (ASU), Cairo, Egypt in 1975. In 1989, she became Professor of Organic and Environmental Chemistry, Head of the Chemistry Department and 2013 president of the Egyptian Committee of Pure and Applied Chemistry until the present. She is also a member of the Egyptian committee of the International Council of Science (2016), and member of the Scientific Culture Committee in the Supreme Council of Culture (2015-2017). Her research explores green organic synthesis in designing novel bioactive agents (anticancer, antimicrobial, antifungal), smart membranes for water treatment, drug release, novel surfactants and nanomaterials for solving environmental problems in many industrial sectors. She has published more than 150 papers, authored chapters in chemistry text books. She is a member of the editorial board of Egyptian Journal of Petroleum Elsevier. She was awarded IUPAC 2015 Distinguished Women in Chemistry/Chemical Engineering Award, and the Arab Women Organization for Science and Technology Award, 2011, in 2012 the African Union Kwame Nkrumah Scientific Award for Women in Science and Technology and Ain Shams University Discretionary Award in Science and Technology (2012). Her expertise includes educational, innovative development of chemistry and environmental chemistry programs, leading projects for solving environmental problems. She has had over 75 completed MSc/PhDs. She has served on over 20 committees nationally and internationally. She is the official delegate to the National Adhering Organization of Egypt, to International Union of Pure and Applied Chemistry from 2013 until the present, member in Chemistry and Environment division. She is a scientific consultant for the Arab Science & Technology Foundation. She has refereed many international journal papers and evaluates research proposals for the Science & Technology Development Fund (STDF), Egypt. She consults on chemistry and environment projects for IUPAC, Egyptian universities and the industrial sector. She is a member in projects in Chemistry and Environment division.

Fani Sakellariadou (Greece), Titular Member - fsakelar@webmail.unipi.gr

Professor in Geochemical Oceanography, Head of the Maritime Studies Department and Director of the laboratory of Geochemical Oceanography at the University of Piraeus, Greece where she is also a Member of the University Senate Board. she also served as marine geochemist consultant in Hydrex (3/2012-6/2013), researcher in Hellenic Centre for Marine Sciences (1990-1992) and national expert (in climatic change issues), European Union, DG XI (1989-2003).

She has a Ph.D. in Marine Geochemistry (Applied Geochemistry Research Group, Royal School of Mines, Imperial College, University of London, U.K., 1983-1987) an MPhil in Oceanography (University of Athens,

GR., 1981-1984), a Diploma of Imperial College (D.I.C.) in Organic Synthesis, (Imperial College, University of London, U.K., 1981-1983) and BSC in Chemistry (Dept of Chemistry, University of Athens, GR., 1976-1981). Her main research interests are in geochemical studies of marine sediments and more specifically about heavy metals, dissolved organic carbon, humic substances, marine placer deposits, pollutant studies in harbor sediments, sustainable development/management of the coastal zone, environmental impacts of shipping and marine geospatial planning. She has about 150 publications and two books.

Doo Soo Chung (South Korea), Titular Member, dschung@snu.ac.kr

Doo Soo Chung is a professor at the Department of Chemistry, Seoul National University. He has been working on a variety of topics ranging from the realization of molecule optics which controls the motion of molecules with light, to bioanalytical techniques. One of his major research areas is coupling of liquid phase microextraction techniques with capillary electrophoresis for sample cleanup and preconcentration, which enhances the performance of capillary electrophoresis of bioanalytical and environmental samples.

Full Professor of Toxicology and Environmental Hygiene Area & Director of Specialized Center in Chemical Toxicology (CEQUIMTOX) Faculty of Chemistry, University of the Republic of Uruguay (UdelaR).

Chemistry and Geosciences areas researcher of the Basic Sciences Developing Program (PEDECIBA) of Uruguay.

Research interest and expertise on Analytical Toxicology, Biomarkers and Environmental Biomonitoring of chemicals in human populations, mainly toxic metals and metalloids.

President and Executive Committees' member of National and International Scientific Societies and Networks.

Irina V. Perminova (Russia), Titular Member, iperm@org.chem.msu.ru

Prof. Perminova is actively involved in the activities of Division VI. At the moment she is a leader of the IUPAC Project 2016-015-2-600 entitled "Database on molecular compositions of natural organic matter and humic substances as measured by high resolution mass spectrometry", which was supported by the Division VI and two other IUPAC Divisions. Prof. Perminova is an expert in environmental and analytical chemistry, particularly, in molecular-level structural analysis of natural organic matter, including molecular-level analysis of humic substances and other complex natural systems using high resolution NMR spectroscopy and FTICR mass spectrometry.

Prof. Perminova is an expert in rational design of environmentally sound humics-based functional and hybrid materials, humic-contaminants interactions, and in developing nature-like agricultural and remediation technologies. She is currently a Board Member of the International Humic Substances Society (IHSS) and a Head of the Regional CIS Chapter of IHSS. Prof. Perminova has a long-standing experience in international scientific cooperation and in organizing international conferences and other events.

Laura McConnell (United States of America), Titular Member - laura.mcconnell@bayer.com

Dr. McConnell is an analytical chemist with more than 20 years of experience in environmental science research with a focus on agricultural topics. She currently serves as a Senior Scientist and Environmental Fate Coordinator in the Environmental Safety Department of Bayer CropScience in Research Triangle Park, North Carolina. Prior to 2013, she was a lead scientist in the USDA-ARS where she specialized in the

investigation of the chemical and physical processes controlling the environmental fate of agriculturally-relevant pollutants. A primary focus of her research was the development of improved conservation practices to mitigate pollutant transport and to provide ecosystem services; innovative approaches to assess and reduce the bioavailability of pollutants in soil and water; development of sustainable farming systems to address challenges at the agriculture-urban interface. Dr. McConnell was elected the President of the Chemistry and the Environment Division of the International Union of Pure and Applied Chemistry in 2011. She has authored more than 80 peer-reviewed journal articles, and mentored 9 graduate students and 3 post-doctoral/visiting scientists. She remains in an adjunct research faculty role at the University of Maryland, College Park. She has served on science-related advisory panels for the US EPA, European Food Safety Authority, and the American Chemical Society. She has received awards for her research including the Presidential Early Career Award for Scientists and Engineers, and in 2014 was appointed Fellow of the American Chemical Society.

John B. Unsworth (United Kingdom), Associate Member - unsworjo@aol.com

Dr Unsworth has worked in the agrochemical industry for over 45 years in the areas of analytical chemistry, environmental fate, herbicide research, fungicide research and to some extent biotechnology. The analytical chemistry experience covered analysis of formulations, including storage stability, crop residue analysis at the ppb level and soil/water analysis at the sub ppb level. Environmental fate studies built on this experience and involved determining the fate of agrochemicals in soil, water and air. As most of the studies were for regulatory purposes, this also involved contact with regulatory officials and gave an insight into environmental issues concerning governments. The research areas were centered on the discovery of new herbicides and fungicides and involved leading multidisciplinary teams of chemists, biochemists, biologists etc. this experience gave a better understanding of the basic research needed to find new solutions for weeds and fungi as well as techniques which are advancing rapidly in this area, including collaborative projects with universities in the UK, France etc. This also brought contact with issues involving biotechnology in the development of genetically modified organisms, specifically herbicide resistant crops. An active member within IUPAC as Chair of the Advisory Committee on Crop Protection Chemistry, as well as being involved in several IUPAC projects. Now working as an independent consultant covering all major areas of crop protection chemistry and the impact of pesticides on the environment.

Baoshan Xing (United States of America), Associate Member - bx@umass.edu

Prof Xing is a full Professor of Environmental & Soil Chemistry at Stockbridge School of Agriculture/College of Natural Sciences, University OF MASSACHUSETTS, AMHERST, USA. His research area is Environmental & SOIL CHEMISTRY. His current research includes environmental behavior and toxicity of engineered nanomaterials, interfacial processes in the environment, sorption and fate of organic chemicals in soils and sediments, biochar characterization and use, food safety, and application of spectroscopic techniques in environmental and soil sciences.

Diane Purchase (United Kingdom), Associate Member - d.purchase@mdx.ac.uk

Diane Purchase is an Associate Professor in Environmental Health/Biology at Middlesex University, London. She is the Honorary Secretary of the Committee of Heads of Environmental Sciences in the UK, a Fellow of the Institution of Environmental Sciences and a Fellow of the Higher Education Academy (HEA). She has a

long-held interest in the environmental applications of microorganisms. Diane has over 60 publications in peer-reviewed journals, conference papers and book chapters. She is the coordinating editor of Environmental Geochemistry and Health, a Springer Nature journal, the co-editor of Microbial Applications – Recent Advancements and Future Developments (published by De Gruyter) and the editor of Fungal Application sin Sustainable Biotechnology (to be published by Springer Nature). Diane currently chairs an International Union of Pure and Applied Chemistry (IUPAC) task group to examine the environmental and health challenges of E-waste and its management.

Bradley Miller (United States of America), Associate Member - miller.bradleyW@epa.gov

Forensic environmental chemist at the United States Environmental Protection Agency's National Enforcement Investigations Center. HIS RESPONSIBILITIES INCLUDE: assistance in the planning and execution of environmental investigations, serving as expert witness in legal proceedings, inorganic and trace metal(loid)s chemistry in soil, wastes, waters, and other environmental media. Dr. Miller also serves on National Work groups such as the US EPA Technical Review Workgroup for Metals and Asbestos (TRW): Bioavailability Committee & Dioxin & PAH Subcommittees, the US EPA Forum on Environmental Measurements, and Soil Science Society of AMERICA EDUCATION COMMITTEE. Lastly Dr. Miller has served on a variety of Chemistry and the Environment Division projects and Chair of the Division VI Chemistry and the Environment Poster Judging Committee since 2015.

Wenlin Chen (United States of America), Associate Member - Wenlin.chen@syngenta.com

Principal scientist at Syngenta Crop Protection, LLC, Greensboro, North Carolina, USA. My area of work focuses on mathematical descriptions of pesticide environmental fate and transport and applications to water quality and ecological risk assessments. I hold a Ph.D. in Soil Science from Cornell University, Ithaca, USA, and have authored/co-authored over 70 publications/presentations, and original mathematical models/tools. I have been involved in the development of pesticide exposure models, scenarios, and risk assessment methods in the U.S. and internationally through several scientific work groups including the FIFRA Environmental Model Validation Task Force, FQPA Drinking Water Exposure Work Group, and IUPAC Advisory Committee on Crop Protection Chemistry. My current interests include data-informed modeling, bioavailability and rate-limited metabolism, and environmental sampling design and statistics.

Edgar Resto (Puerto Rico), Associate Member - restoe@mcc.com.pr

Graduate of the University of Puerto Rico (UPR) at Río Piedras where he obtained a Doctoral Degree in Chemistry with major in Biochemistry and a minor in Analytical Chemistry (1988). During 1988-90, he was a Research Associate at the University of Virginia. In 1989 he was awarded the "National Research Service Award" by the NIH-GMS. He has over 27 years of experience teaching science and technology as a faculty member at several Puerto Rico's universities. Actually, he is full Professor at the UPR, Rio Piedras Campus. In July 2000, he joined the UPR, and selected member of the Academic Senate (2006-15), Faculty Delegate in the University Board of UPR System from 2012-15 and elected as Faculty Member of UPR's Government Board (2015-16).

Simultaneously, in the industry sector, he was partner and co-founder of the High Technology Laboratory, Inc., the second largest contract laboratory dedicate to providing chemical and environmental services to industry (1990-2000). Also, he is the Executive Director of Materials Characterization Center, Inc. (MCC), a

research center (www.mcc.com.pr), non for profit corporation affiliate to UPR system, from 2002 to present.

Also as licensed professional chemist, he was the President 1996-97 of the “Colegio de Químicos de Puerto Rico (CQPR)”, vice-president and President of PR’s Chemist Examination Board, nominated by the Governor of Puerto Rico (2002-2010). He was the Vice-Chair of the Organizing Committee of IUPAC World Chemistry Congress of 2011 (www.iupac2011.org) held successfully at Puerto Rico as part of the celebration of the International Year of Chemistry (www.chemistry2011.org). IUPAC Fellow and Delegate, selected to be member of Board of Delegate of Puerto Rico NAO to International Union of Pure and Applied Chemistry (IUPAC); (2001-16) and as National Representative to Division Chemical and Environment (DCE) since 2002-10 and actually from 2016 to 2018.

Yong-Chien Ling (China/Taiwan), National Representative - ycling@mx.nthu.edu.tw

Received his Ph.D. degree from Florida State University at USA in 1983. Currently, he is a professor in the Chemistry Department and jointly appointed professor in the NanoEngineering & MicroSystems Institute at National Tsing Hua University, Taiwan. He has held positions as committee member of environmental impact assessment of Taiwan EPA, Food safety consultation of Food and Drug Administration of Taiwan Ministry of Health and Welfare, Higher Education Evaluation and Accreditation Council of Taiwan, Chair of Environment and Chemistry Committee of Chemical Society located in Taipei, Chief Inspector & Testing Officer, Taiwan Consumer Foundation. Prof. Ling’s green chemistry and mass spectrometry analytical laboratory is well-known for problem-solving and public-issue oriented activities. He has been the supervisor for 7 Postdoctoral Research Associates, 55 Ph.D., and 81 MS. Prof. Ling’s research achievements include 164 publications in SCI-journals, 4 book chapters, 16 patents. He was the recipient of Excellence in Teaching Award from Ministry of Education, Academic Environmental Protection Award form Environmental Protection Administration, Society Award form Chinese Environmental Analysis Society, Chemical Technology Award and various awards on excellence in teaching, research, green chemistry, environmental protection, environmental analysis, and mass spectrometry from various Chemical Society Located in Taipei, and Excellent Scholar Award from Taiwan Society for Mass Spectrometry.

Bulent Mertoglu (Turkey), National Representative - bulent.mertoglu@marmara.edu.tr

Professor of bioengineering. His research activities have been focused on environmental biotechnology and molecular ecology. He has a wide and rich experience on solid waste management, wastewater and leachate treatment and molecular ecology. He has published more than 30 research papers in SCI journals and more than 20 conference proceedings and abstracts. He has been taking many national projects supported by Marmara University and the Scientific and Technical Research Council of Turkey. He has also provided technical assistance to support the Central Finance and Contracts Unit (CFCU) and the Ministry of Environment and Forest.

Weiguo Song (China), National Representative - wsong@iccas.ac.cn

Professor in the Institute of Chemistry at the Chinese Academy of Sciences (ICCAS) with a joint position at the University of Chinese Academy of Sciences (UCAS). He obtained his BSc. from Peking University in 1992, and his PhD from University of Southern California in 2001. He joined ICCAS in 2005.

His research group focuses on the design of nano porous materials and their properties in adsorption and catalysis. More specifically, he is interested in using nano porous materials as adsorbents for inorganic pollutants, and as heterogeneous catalysts for catalytic degradation of organic pollutants. He is also interested in developing high performance catalysts including noble metal catalysts, solid acid/base catalysts, non-metal catalysts, etc. for fine chemical and pharmaceutical industries.

Michal Galamboš (Slovakia), National Representative - michal.galambos@uniba.sk

Associate professor, member of Slovak National Committee of IUPAC.

Titles and academic degrees acquired at Faculty of Natural Sciences, Comenius University in Bratislava (FNS CU): Bc. in Chemistry in 2004, Mgr. in Nuclear chemistry and radioecology in 2005, RNDr. in Nuclear chemistry and radioecology in 2006, PhD. in Nuclear chemistry in 2010. Associate professor in Nuclear chemistry from 2014. Currently he is in the position of an associate professor at Department of Inorganic Chemistry FNS CU in Bratislava. His research activity focused on the back-side of the nuclear-power plant fuel cycle is divided into two areas. The first one – studies of the sorption properties of the natural and synthetic sorbents, which should find their use either as molecular sieve or as a sealing component in multi-barrier deep geological repository systems for radio-active waste and spent nuclear fuel. The second area includes the synthesis and extraction-property studies of ionic liquids, which can fulfill the role of a solvent as well as an extractant for the ecotoxicologically significant radionuclides.

He is supervisor of 8 bachelor's as well as 8 diploma and 5 dissertation works in the field of nuclear and inorganic chemistry, and radio-ecology. The results of his scientific and pedagogical engagement were published in 1 monograph, 4 university text books, 30 CC articles. His publication activity includes 117 papers published in international as well as local reviewed journals and collections, 2 short announcements in an international CC journal and 25 posters and abstracts. As a part of science popularisation activity he published 30 articles. His publications recorded a total of 417 citations, of which 279 are SCI/SCOPUS.

Bipul Behari Saha (India), National Representative - drbsaha@rediffmail.com

Director – R&D of L.R. research Lab, Nagarjuna Agrichem Limited, India. Prior to this, he was Director in Gharda Chemicals, Vice President in Lalbhai Group, General Manager in Monsanto and Manager in Pfizer. He is in the editorial advisory board of "Agri Business Global". He was editor of "Indian Society for Environmental Science & Technology Newsletter" and "Editorial advisory Board Member of "Carbohydrate Newsletter". He was also a Principal Investigator and member of the steering committee of Government of India sponsored "New Millennium Indian Technology Leadership Initiative Project".

Dr. Saha has been taking active part in IUPAC activities since last few years. He was invited speaker in "IUPAC Congress of Pesticide Chemistry, 2014" in San Francisco and Discussion Leader of the Session: "Developing Global Leaders of Crop Protection Chemistry in the 21st century: Industry Perspectives". He was speaker in IUPAC World Congress of Chemistry, Busan 2015 and was inducted as Associate Member of IUPAC Committee on Chemistry and Industry". Dr. Saha was also invited speaker in IUPAC Workshop on "Chemical Industry and Sustainable Development", Beijing, 2016. Information about these conferences have been published in leading Indian journals.

Dr. Saha has been Chairman and invited speaker in various International and National seminars such as: "Agrochemex, 2015", Vietnam, 2015; International seminar Agrochemex, Shanghai, 2011; China Crop Protection Society seminar, Shanghai, 2012. Chairman of Crop World India 2011 and Crop World India 2012. Dr. Saha has been Visiting Professor in reputed Institutes including IIT. He carried out research with

Nobel Laureate Professor Derek Barton. Dr. Saha was awarded Homi Bhabha Gold Medal by BARC, Government of India.

Cristina Delerue-Matos (Portugal), National Representative - cmm@isep.ipp.pt

Full Professor of Chemistry at the Instituto Superior de Engenharia do Porto (ISEP). At ISEP she taught chemical and environmental classes. She is a member of REQUIMTE, the largest network in Chemistry and Chemical Engineering established in Portugal. Her scientific expertise allowed dealing with the topic Green Chemistry – Clean Technologies and Processes with a wide range of tools and from different perspectives. She is the Coordinator of the research group: Grupo de Reação e Análises Químicas (www.graq.isep.ipp.pt) from 2001. Besides working on various research projects she was the coordinator of one FP7 project (FP7-PEOPLE-2013-IRSES-612545, GMOsensor-Monitoring Genetically Modified Organisms in Food and Feed by Innovative Biosensor Approaches and more recently she is the coordinator of the ERA-NET Cofund WaterWorks2015: REWATER - Sustainable and safe water management in agriculture: Increasing the efficiency of water reuse for crop growth while protecting

Tiina Sikanen (Finland), National Representative - tiina.sikanen@helsinki.fi

Dr. Tiina Sikanen is a docent (adjunct professor) in pharmaceutical chemistry at the Faculty of Pharmacy, University of Helsinki. She is running the Chemical Microsystems research group with expert profile in implementation of microchip-based technology for mass spectrometry-based bioanalysis and drug metabolism research. The group focuses on developing new in vitro technology for studying the molecular level interactions between the environmental/household chemicals and clinically used drugs. Sikanen has received several young researchers' awards including the prestigious European Research Council Starting Grant (2012-2019). She has so far published ca. 40 original research papers and >70 conference proceedings. Sikanen also coordinates the Generation Green initiative of the Faculty of Pharmacy, which cooperates with the Finnish Environment institute and aims at implementing sustainability in higher education and research in pharmacy and facilitating international cross-disciplinary discussion in green pharmacy: <http://blogs.helsinki.fi/generationgreen/>.

Stefka Tepavitcharova (Bulgaria), National Representative - stepav@svr.igic.bas.bg

Assoc. Prof. in Bulgarian Academy of Sciences, Institute of General and Inorganic Chemistry, Laboratory for Salt Systems and Natural resources.

Expertise in the field of: Environmental chemistry - analysis and thermodynamic modeling for assessment of sweet, salty and hyper-salty waters and soils; Marine chemistry - analysis and thermodynamic modeling for utilization of marine inorganic chemical resources; Solubility phenomena; Predicting the crystallization/precipitation processes in water-salt systems; Thermodynamics of phase equilibrium; Inorganic materials synthesis for medical application; Clean products; Green chemical technologies.

Leading research scientist in different projects financed by EC, NATO, IUPAC, national funds.

Gloria Obuzor (Nigeria), National Representative - lalinaters@yahoo.com