



International Union of Pure and Applied Chemistry

Division VI - Chemistry and the Environment

Members' biographical notes

Roberto Terzano (President)



Associate Professor of Agricultural Chemistry at the University of Bari (Italy); PhD in Agricultural Chemistry; Master in Chemistry (Analytical); former Marie Curie Fellow at MiTAC of the Department of Chemistry of the University of Antwerp (Belgium); Scientific Manager of "Micro X-ray Lab" at the University of Bari; Associate Editor of "Environmental Science and Pollution Research". Involved in several international experiments employing synchrotron radiation. Teaching topics of Inorganic Chemistry, Organic Chemistry, Biochemistry and Analytical Chemistry, mainly applied to Agricultural and Food Sciences. Main research interests: biogeochemistry of trace elements in the soil-plant system, X-ray analyses, soil remediation.

URL Link to personal professional websites:

- <https://www.researchgate.net/profile/Roberto-Terzano>
- www.microxraylab.com
- <https://iupac.org/member/roberto-terzano/>
- <https://scholar.google.it/citations?user=MV3432EAAAAJ&hl=it&oi=ao>
- <https://www.scopus.com/authid/detail.uri?authorId=6507870960>

Links to publications or project websites:

- <https://www.sciencedirect.com/science/article/abs/pii/S0045653521012236>
- <https://www.gruyter.com/document/doi/10.1515/pac-2018-0605/html>
- <https://www.sciencedirect.com/science/article/pii/S0304389417307914?via%3Dihub>

About myself

After a youth spent on tennis courts, now I have redirected myself to paddle

Annemieke Farenhorst (Vice President)



Dr. Farenhorst is the Associate Vice President Research of the University of Manitoba. Research interests and projects include pesticide fate processes, First Nations drinking water security, and gender equity in the academy. Dr. Farenhorst is the co-lead of the United Nations Academic Impact Sustainable Development Goal (SDG) 6 Hub – Clean Water and Sanitation. In her capacity as the NSERC Chair for Women in Science and Engineering Prairie Region from 2011 to 2020, Farenhorst helped shape Canada's Dimension Charter for post-secondary institutions. Farenhorst led a research training program for First Nations water and sanitation security (2013-2019), as well as a program to advance food security for small-scale farmers in Central America (2005-2014). Dr. Farenhorst has been recognized for her professional contributions through a range of awards including the 2016 WXN Canada's Most Powerful Women: Top 100 Award Winner.

URL Link to personal professional websites:

- <https://www.researchgate.net/profile/Annemieke-Farenhorst>
- <https://news.umanitoba.ca/new-associate-vice-president-research-appointed/>

Links to publications or project websites:

- <https://www.sciencedirect.com/science/article/abs/pii/S0045653521014958>
- <https://www.nature.com/articles/s41598-017-02516-3>
- <https://access.onlinelibrary.wiley.com/doi/epdf/10.2134/jeq2019.02.0041>

About myself

I have been the only woman in my department to hold a tenured position since the Department of Soil Science at the University of Manitoba formed in 1927.

Hemda Garelick (Past President)



Has a long term interest in public and environmental health, with particular focuses on health and hygiene aspects of water, wastewater and sanitation systems, investigating of health aspects of chemical and microbial pollution in water and soil. Areas of particular interest include: the analysis and the fate of antibiotics and antibiotic resistant microorganisms in the environment and in food, which led to a number of local and pan European projects, as well as the impact of solid waste disposal such as electronic waste (E-Waste) and its effect. Her interest in pollution affecting poor societies has also led her to investigate the problem of arsenic pollution in drinking water and the effect of people exposure to contaminated groundwater. Similarly she became interested in the informal recycling of electronic waste (E-Waste) and its effect on the health and environment of poor societies such as the Nigerian sites near the city of Lagos.

URL Link to personal professional websites:

- https://iupac.org/who-we-are/divisions/division-details/?body_code=600
- <https://www.mdx.ac.uk/about-us/our-people/staff-directory/profile/garelick-hemda>
- <https://www.researchgate.net/profile/Hemda-Garelick>
- <https://www.linkedin.com/in/hemda-garelick-231a3bb/>
- <https://orcid.org/0000-0003-4568-2300>

Links to publications or project websites:

- <http://doi.org/10.1016/j.aquatox.2016.02.020>
- <https://doi.org/10.1016/j.envint.2020.106035>
- <https://doi.org/10.1515/pac-2019-0502>

About myself

I like dancing

Fani Sakellariadou (Secretary, Project Coordinator)



Education & qualifications:

- Ph.D. in Marine Geochemistry, Royal School of Mines, Imperial College, London, U.K., 1987.
- M.Phil. in Oceanography, University of Athens, Gr., 1984.
- D.I.C. in Organic Synthesis, Imperial College, London, U.K., 1983.
- B.Sc. in Chemistry, University of Athens, Gr., 1981.

Current position:

- Prof. in Geochemical Oceanography, Maritime Studies dept, University of Piraeus, Gr.
- Dir. Oceanography & Marine Geochemistry Lab, Maritime Studies dept, University of Piraeus, Gr.
- Dir. MSc course "Sustainability and Quality in Marine Industry", Maritime Studies dept, University of Piraeus, Gr.

Previous positions:

- Head of the Maritime Studies Dept, University of Piraeus, Gr.
- Member of the University of Piraeus Senate Board.
- University departmental coordinator for the Erasmus+ program (2013-2018).

Main research interests:

- Geochemical studies in marine sediments (heavy metals, DOM).
- Sea-bed mining and environmental impacts.
- Pollutant studies in harbor sediments.
- Blue growth.

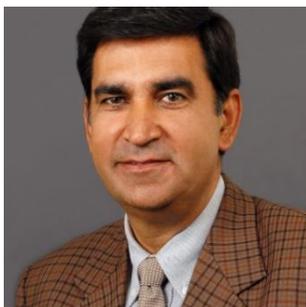
URL Link to personal professional websites:

- https://maritime-unipi.gr/didaktiko_prosopiko/sakellariadou-fani/
- <https://www.linkedin.com/in/fani-sakellariadou-b917a337>
- <https://www.researchgate.net/profile/Fani-Sakellariadou>
- <https://twitter.com/FSakellariadou>
- <https://orcid.org/0000-0002-7489-4153>

Links to publications or project websites:

- [DOI: 10.1016/j.chemosphere.2021.130752](https://doi.org/10.1016/j.chemosphere.2021.130752)
- https://iupac.org/projects/project-details/?project_nr=2018-039-3-600
- <https://doi.org/10.1007/s12665-018-7446-y>

Rai Kookana (Titular Member)



Dr Rai Kookana is a Chief Research Scientist with CSIRO and is affiliated as Professor with The University of Adelaide. Since his PhD from the University of Western Australia (1989), he has been conducting research and development on the fate, effects and risks of organic contaminant in the environment. Dr Kookana's current research interests include understanding and managing ecological risks of emerging contaminants in the aquatic and terrestrial environments. The recent focus of his research work is on: Per- and Poly-fluoro Alkyl Substances (PFAS), Pharmaceuticals and personal care products (PPCPs), and Nanopesticides.

He has published more than 250 peer reviewed journal papers, with an H-Index of 51 and total citations more than 10,000. He has been on the editorial boards of several international journals.

Dr Kookana worked as a Science Fellow of Australian Pesticides and Veterinary Medicines Authority (APVMA) for a decade (2005-2015). Currently he is a member of The Scientific Committee on Antarctic Research (SCAR).

Dr Kookana has served as the President of IUPAC Division of Chemistry and The Environment for the biennium 2018-2020. He was elected Fellow of the Soil Science Society of America in 2012. In 2016, he was chosen as the recipient of the prestigious Prescott Medal, awarded by Soil Science Australia.

URL Link to personal professional websites:

- <https://orcid.org/0000-0002-0477-3284>
- https://scholar.google.com.au/citations?hl=en&user=kIVED_8AAAAJ
- <https://au.linkedin.com/in/rai-kookana-b776a318>

Links to publications or project websites:

- <https://doi.org/10.1038/s41565-018-0131-1>
- <https://doi.org/10.1016/j.scitotenv.2018.01.167>
- <https://doi.org/10.1016/j.scitotenv.2018.08.084>

About myself

I love poetry and write in Hindi, including Haiku - a three-line poem with a 5-7-5 syllable pattern. Haiku form of poetry originated in Japan.

Bradley Miller (Titular Member)



Currently, serve as Project Manager and Principal Analytical Chemist in criminal and civil investigations for US EPA National Enforcement Investigations Center (NEIC) on difficult and novel matrices including geologic materials such as soils, sludges, waste from clandestine smelting, powdered geologic samples, polyester fabrics, swine bones, consumer colloidal silver solutions, firing range debris, copper pipes and others. The elemental data generated has been used in judicial proceedings for criminal and civil enforcement. Advise US EPA Superfund program on long-term fate and bioavailability of metals in polluted soils that require remediation. Interest and background in analytical chemistry, soil chemistry, fungal biogeochemistry, PFAS in soils, PFAS remediation, and synchrotron speciation of metals.

URL Link to personal professional websites:

- <https://www.linkedin.com/in/bradley-warren-miller-a915221b/>

Links to publications or project websites:

- <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3226497/>
- <https://www.degruyter.com/document/doi/10.1515/pac-2018-0605/html>

About myself

I have refereed professional, college, and amateur Fútbol (soccer) matches since 2014. I operated a whole hog barbeque catering business while in graduate school and during my post doctorate studies. Hiked the 3200+ kilometer long Appalachian Trail in 1999. I also have an amazing wife Shelly and two children Christian and Terra.

Diane Purchase (Titular Member)



Diane's association with IUPAC began in 2015 as a task group member in a Division VI funded project. As a lead organiser, she has been awarded several IUPAC-funded projects. Diane is currently a Titular member of IUPAC and the co-chair of the Chemical and Biophysical Processes in the Environment subcommittee within Division VI. She represented the Division in a Keynote presentation: "Creating a common language for chemistry: looking beyond IUPAC's 100th anniversary" in The World Mycotoxin Forum in 2019. She is a Fellow of the Royal Society of Biology, the Institution of Environmental Sciences (IES), the Higher Education Academy and a member of the Royal Society of Chemistry. Diane's

research interest focuses on the role of biotechnology in safeguarding the environment. She has published widely and supervised many PhD students in this area. She is member of the editorial boards of the two international journals published by Springer.

Top three research interests: pollution remediation e-waste ecotoxicology

URL Link to personal professional websites:

- <https://www.mdx.ac.uk/about-us/our-people/staff-directory/profile/purchase-diane>
- <https://www.researchgate.net/profile/Diane-Purchase>
- <https://orcid.org/0000-0001-8071-4385>

Links to publications or project websites:

- <https://doi.org/10.1515/pac-2019-0502>
- <http://dx.doi.org/10.1007/s11356-015-4257-5>
- <https://doi.org/10.1016/j.biortech.2021.125192>

About myself

I was born left-handed but I write with my right hand.

Bipul Behari Saha (Associate Member)



I am at present Director – R&D of NACL Industries Limited, India. Earlier I was General Manager of Monsanto. I have been member of the editorial advisory board of “Agri Business Global”, “Farm Chemicals International”, “ACS Agricultural Science and Technology Journal”, and editor of “Indian Society for Environmental Science & Technology Newsletter”. I am currently Bureau member of IUPAC, Secretary of COCI and Associate member of Division VI. I have been promoting IUPAC activities extensively and have been able to build cooperation between IUPAC and (a) Indian Chemical Council (b) Association of Chemistry Teachers of India and (c) Indian

Chemical Society. I have been invited as Chairman, Discussion Leader and Invited speaker in various International and National seminars. I was Visiting Professor in IIT and other reputed Institutes. I did research with Nobel Laureate Professor Derek Barton and have been awarded Homi Bhabha Gold Medal by Government of India. My interests are: (a) Measurement of pesticide residue (b) Biopesticides (c) Synthesis of safer pesticides.

URL Link to personal professional websites:

- <https://www.linkedin.com/in/bipul-saha-26b11020>

Links to publications or project websites:

- http://rasayanjournal.co.in/admin/php/upload/965_pdf.pdf
- <https://pubs.acs.org/doi/full/10.1021/acs.jchemed.1c00284>
- <https://link.springer.com/article/10.1134%2FS1070363219040303>

About myself

Although I am a scientist, my "Unique Audiovisual Recitation of Poems" has been broadcast from different TV Centres and staged in different countries.

Cristina Delerue-Matos (Associate Member)



Coordinator of the scientific research group of Environmental Chemistry of LAQV (www.laqv.requimte.pt/research/research-groups/) and of the Grupo de Reação e Análises Químicas (www.graq.isep.ipp.pt). Scientific expertise allowed dealing with the topic Green Chemistry – Clean Technologies and Processes with a wide range of tools and from different perspectives. Besides working on various research projects, the expertise is, especially in environmental monitoring (pesticides, pharmaceuticals, nanoplastics, PAHs, metals...) and remediation techniques for wastewaters and soil, analytical chemistry, electrochemistry development of sensors. Author of about 420 publications in international peer journals.

URL Link to personal professional websites:

- www.graq.isep.ipp.pt
- www.laqv.requimte.pt/research/research-groups/

Links to publications or project websites:

- <http://www2.isep.ipp.pt/gmosensor/>

- <https://www2.isep.ipp.pt/rewater/index.php>
- <https://www.terramaterpocstep.eu/>

Weiping Wu (Associate Member)



Dr. Weiping Wu is a Professor at Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Sciences (CAS). He graduated with a Bachelor's degree in Material Science and Engineering at Shanghai Jiao Tong University in 2004. He received his Ph.D. in chemistry from the Institute of Chemistry, Chinese Academy of Sciences in 2010 under the supervision of Professor Daoben Zhu and Professor Yunqi Liu. From 2010 to 2013 he was as a research associate at the University of Cambridge. He was a research fellow at the Optoelectronics Research Centre (ORC), the University of Southampton from 2013 to 2015. He took the George Daniels Lectureship at City, University of London in 2015 and worked in the UK till 2020. He has published more than 50 papers with total citations over 4000 and an h-index of 33. He was the chairman of Chinese UK Group of Society of Chemical Industry (SCI) from 2015-2020. He is a member of the Royal Society of Chemistry (RSC) since 2012 and a Senior Member of OSA (The Optical Society) since 2020. He is one of the young observers of the International Union of Pure and Applied Chemistry (IUPAC) 47th Congress, 50th General Assembly and Centenary, Paris in 2019.

RESEARCH INTERESTS: Green chemistry, Sustainable materials, Optical sensors and spectroscopy

URL Link to personal professional websites:

- <http://orcid.org/0000-0003-1462-6402>
- <https://scholar.google.com/citations?user=VbQtMe0AAAAJ&hl=en>
- <https://www.researchgate.net/profile/Weiping-Wu-2>
- <https://www.linkedin.com/in/weiping-wu-982b3837>
- <http://peopleucas.edu.cn/~wuweiping?language=en>

Links to publications or project websites:

- https://iupac.org/projects/project-details/?project_nr=2019-026-2-600
- https://iupac.org/projects/project-details/?project_nr=2019-029-1-600

About myself

I studied chemistry during my Bachelor and PhD, then moved to electronics and photonic research fields, end up with get professorship establishing a chemistry research group in a laser institute.

Walter Ruggeri Waldman (Associate Member)



He holds a Bachelor Degree, a Master, and a Ph.D. in Chemistry from the State University of Campinas. He is currently an Associate Professor at the Federal University of São Carlos, working on the environmental impact, detection, and monitoring of microplastics.

URL Link to personal professional websites:

- <https://publons.com/researcher/340939/walter-ruggeri-waldman/>
- <https://www.researchgate.net/profile/Walter-Waldman>

- <https://scholar.google.com/citations?user=ke0UuY9YJFoC&hl=en>

Links to publications or project websites:

- <https://pubs.acs.org/doi/10.1021/acs.est.0c07781>
- <https://pubs.acs.org/doi/10.1021/acs.est.0c04641>
- <https://pubs.acs.org/doi/10.1021/acs.est.0c02194>

About myself

I love to cook, mainly italian food!

Matteo Guidotti (Associate Member)



Senior Researcher at the Institute of Chemical Sciences and Technology Institute, SCITEC, of the Italian National Research Council, CNR, Milan, Italy. Degree in Chemistry in 1997 and PhD in Industrial Chemistry in 2000. He is working on solid catalysts for the transformation of high added-value chemicals and nanostructured catalysts for the degradation of hazardous chemical and biological agents. He is involved in awareness raising, dissemination and training activities on chemical aspects related to the protection, prevention, mitigation and defence against chemical, biological and radiological (CBRN) warfare agents. Visiting researcher in France, 2004; Russia, 2005; Spain, 2010; the Netherlands, 2012. Italian Delegate at the Scientific Advisory Board of the OPCW (2022). Key Expert for the EU CBRN Risk Mitigation Centre of Excellence in South-East and Central Asia. Member of the Academy of Sciences of the Institute of Bologna, Italy and of the Academy of Sciences of Siena.

URL Link to personal professional websites:

- <https://orcid.org/0000-0002-9759-2561>
- <https://www.scitec.cnr.it/en/people/golgi-en/guidotti-matteo-en>
- <https://scholar.google.com/citations?user=SoJ-uPMAAAAJ&hl=en>

Links to publications or project websites:

- https://iupac.org/projects/project-details/?project_nr=2020-020-2-600
- <http://cabichem.eu/index.php/en/>

About myself

I love heraldry, calligraphy and ancient music. They are not simply hobbies, they are a part of my life. I wonder if I was born in the wrong century...

Laura McConnell (Emeritus Fellow)



Dr. McConnell is a Science Fellow at Bayer Crop Science, in Regulatory Scientific Affairs where she serves as University and Scientific Society Engagement Lead. Her expertise is in analytical and environmental chemistry with emphasis on the fate and transport of pollutants in agricultural landscapes. She is a former President of the IUPAC Chemistry and the Environment Division and is presently chair of the Advisory Committee on Crop Protection Chemistry. She is deputy editor of ACS Agricultural Science and Technology. She has authored more than 100 peer-reviewed journal articles. 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.

URL Link to personal professional websites:

- <https://scholar.google.com/citations?user=QwnvIPMAAAAJ&hl=en>
- <https://www.linkedin.com/in/laura-mcconnell-393565a/>
- <https://twitter.com/LauraLeeMc>
- <https://orcid.org/0000-0001-6142-0656>

Links to publications or project websites:

- <https://doi.org/10.1515/pac-2017-1204>
- <https://doi.org/10.1021/acs.jafc.5b05567>
- <https://doi.org/10.1002/ieam.4173>

About myself

I love biking, going to the beach, and spending time with my two granddaughters.

John Unsworth (Emeritus Fellow)

I graduated from London University in chemistry and then stayed on for a PhD in organo-metallic chemistry. After leaving university I worked in the pharmaceutical industry studying the metabolism of various animal health chemicals on farm animals. I then became a manager in the same industry before becoming a senior manager in Environmental Chemistry. I have been a member of IUPAC for many years and retained my interest in the impact and fate of chemicals on the environment. Since leaving industry I have worked independently as a consultant on environmental chemistry issues.

Nadia G. Kandile (National Representative, Egypt)



A. Water treatment: Fabrication of ecofriendly modified biopolymers hydrogels or membranes for treatment of industrial waste water pollution (contaminated with dyes, heavy metals, and organic compounds). B. Solving problems for petroleum sector: Preparation of novel green surfactants using simple technology and nanotechnology to control pollution problems such as corrosion, oil well drilling fluids additives and bacterial contamination, sulfur scavengers and oil pollution) and solvent refining of heavy wax distillate for the removal of carcinogenic compounds, preparation of demulsifiers and corrosion inhibitors for pipelines. C. Professor of Environmental

chemistry and Environmental organic chemistry, Institute of Environmental Studies and Research, Ain

Shams University. D. Consultant in the Science Center for Detection & Remediation of Environmental Hazards, Alazhar University Cairo, Egypt.

URL Link to personal professional websites:

- <https://orcid.org/0000-0003-3089-9224>
- <https://www.scopus.com/authid/detail.uri?authorId=6507548559>
- Thomson Reuters: Research ID: R-6034-2017
- https://www.researchgate.net/profile/Nadia_Kandile/publications

Links to publications or project websites:

- <https://www.sciencedirect.com/science/article/pii/S1878535221002707>
- <https://www.sciencedirect.com/science/article/pii/S0141813021010503>
- <https://link.springer.com/article/10.1007/s00289-021-03633-w>

Francois Jerome (National Representative, France)



Main research activities: Catalytic conversion of biobased feedstocks to specialty chemicals. The developed expertise largely concerns (1) the coupling of catalysis with promotional tools such as ball-milling, ultrasound, etc..., and (2) the design of bifunctional catalytic reactions.

URL Link to personal professional websites:

- <https://ic2mp.labo.univ-poitiers.fr/membres/jerome-francois/>

Links to publications or project websites:

- <https://onlinelibrary.wiley.com/doi/10.1002/anie.201806825>
- <https://onlinelibrary.wiley.com/doi/10.1002/anie.202109516>
- <https://pubs.acs.org/doi/10.1021/acssuschemeng.8b00100>

About myself

I like running, mainly trails.

Roland Kallenborn (national Representative, Norway)



Professor Roland Kallenborn is a senior scientist and University teacher in the field of organic analytical chemistry, environmental chemistry and environmental risk assessment, bioaccumulation and food web responses to environmental contaminants. Kallenborn was appointed Professor competence by an independent international evaluation committee in 2007. He is an environmental chemist with his main research interests in method development for characterisation, quantitative analysis, risk assessment, and mitigation of organic environmental pollutants (including contaminants of emerging concern and their transformation products). Currently, his research focuses on the elucidation of pollutant profiles in Urban Agriculture, food processing and Arctic environments. He applies modern advanced trace analytical methods in an interdisciplinary context in his research strategies. For his scientific activities, he applies quantitative validated analytical methods for the determination of legacy and emerging priority anthropogenic pollutant. He works with advanced chromatographic separation techniques with sensitive mass spectrometric detection (LC/MS, GC/MS, GCxGC-MS). Kallenborn is author/ co-author of 120 per reviewer publications, 12 books/ monographs (author, chapter author and editor), 20 contract reports, 10 popular science papers and more than 300 presentations (poster/ oral) in international conferences and seminars. He serves as editor/ editorial board member for the IF registered scientific Journals “Current Chromatography”, “Fresenius Environmental Bulletin”, “Ecotoxicology and Chemistry”, “Environmental Science and Pollution Research” (Springer) and “Chemosphere” (Elsevier).

URL Link to personal professional websites:

- <https://orcid.org/0000-0003-1703-2538>
- <https://www.researchgate.net/profile/Roland-Kallenborn>
- <https://www.nmbu.no/ans/roland.kallenborn>
- <http://umb.academia.edu/RolandKallenborn>
- <https://www.scopus.com/authid/detail.uri?authorId=6603827222>
- <https://www.semanticscholar.org/author/Roland-Kallenborn/7441576>
- <https://www.arcus.org/researchers/38285/display>
- <https://publons.com/researcher/1202406/roland-kallenborn/>

Hiroto Tamura (National Representative, Japan)

Hiroto Tamura is Full Professor of Environmental Microbiology at Department of Environmental Bioscience, Meijo University, Japan. He received his master in 1981 and Ph.D. degree from Kyushu University (Japan) in 1986. He had his job experience at Shionogi & Co., Ltd., Osaka Japan during 1981-1994 as research scientist for new pesticides synthesis and mode of action. In 1994, he got his position at Meijo University. He researched at Michigan State University, USA in 1989-90 as visiting scientist and Chemical Industry Institute of Toxicology (CIIT), North Carolina, USA in 1999-2000 as Principal Investigator. His Expertise/ Fields of Research interest is as follows; 1) Fate and bioremediation of pollutants in the environment, 2) Development of novel identification and typing method of bacteria, “proteotyping by S10-GERMS method, 3) Bioavailability of CO₂ and CH₄ as source of clean energy and raw materials using synthetic biology and green microbiology in relation with SDGs.

URL Link to personal professional websites:

- https://www.researchgate.net/scientific-contributions/39895020_Hiroto_Tamura

Links to publications or project websites:

- <https://www.sciencedirect.com/science/article/abs/pii/S0959652620327682>
- <https://pubs.acs.org/doi/10.1021/sb400197f>
- <https://www.sciencedirect.com/science/article/abs/pii/S0740002020301313>

Cora Young (National Representative, Canada)



Dr. Cora Young is an Associate Professor and the Rogers Chair in Chemistry at York University in Toronto, Canada. Dr. Young's research team focuses on the development and use of state-of-the-science analytical techniques to probe chemical mechanisms relevant to pollutant fate, air quality (both outdoor and indoor), and climate change. She completed her PhD at the University of Toronto, followed by a postdoctoral fellowship at the National Oceanic and Atmospheric Administration (NOAA) in Boulder, Colorado. She has published over 60 papers in the peer-reviewed literature and was recently named as one of Chemical and Engineering News' Talented 12. Her work has been widely covered in the media and she enthusiastically works with community organizations and the media to ensure effective communication of environmental chemistry concepts.

URL Link to personal professional websites:

- www.cjygroup.com

Links to publications or project websites:

- <https://agupubs.onlinelibrary.wiley.com/doi/10.1029/2020GL087535>
- <https://pubs.acs.org/doi/abs/10.1021/acs.est.6b06160>
- <https://acp.copernicus.org/articles/14/3427/2014/>

Vladimir Beskoski (Serbia)



Associate Professor Dr. Vladimir P. BESKOSKI, PhD in Biochemistry (Male, 46 years) performed his studies in Biochemistry at the University of Belgrade – Faculty of Chemistry (UBFC). He finished his PhD in 2011 on the study of the activities of microorganisms and their application in bioremediation. As an Invited foreign researcher (supported by Japan Society for Promotion of Science), he spent more than a year at the Kobe University, Japan researching biodegradation of persistent organic pollutants. Since 2011, he works at the UBFC. He is (the) president of the Environmental Chemistry Division of the Serbian Chemical Society and national

representative in IUPAC. His field of research is environmental biotechnology, metabolism of extremophiles, and applications of microorganisms in bioremediation and biohydrometallurgy, as well as for the synthesis of exopolysaccharides and surface-active compounds.

URL Link to personal professional websites:

- <http://orcid.org/0000-0002-6372-4706>
- https://www.researchgate.net/profile/Vladimir_Beskoski
- <https://www.chem.bg.ac.rs/osoblje/290-en.html>
- <https://www.scopus.com/authid/detail.uri?authorId=16833361500>
- http://cherry.chem.bg.ac.rs/APP/faces/author.xhtml?author_id=orcid::0000-0002-6372-4706&item_offset=0&project_offset=0&sort_by=dc.date.issued

Montip Sriratana (Thailand)



Dr. Monthip Sriratana received bachelor degree in Chemistry from Mahidol University, master degree in environmental engineering from Asian Institute of Technology and Ph.D. from The University of Tokyo, Japan. She previously held key positions of the Ministry of Natural Resources and Environment of Thailand including Director General of Environmental Quality Promotion, Director General of Pollution Control Department. She was elected as the Member of Parliament (Democrat Party in 2013). She is the Director of Climate Change Research Strategies Center, Director of Digital Belt and Road International Center of Excellence, Bangkok. She also served as a member of the Boards of the following organizations: Stockholm Environment Institute (SEI), Sweden, International Science Council (ISC), France, Institute of Global

Environmental Strategies (IGES), Japan. She is the founder of Environmental Research and Training Center (ERTC) and involved in promoting environmental chemistry research in the field of water and wastewater, air pollution, solid and hazardous waste and etc. Her researches focus mainly on " Fate and Distribution of Polychlorinated Biphenyls in the tropical Environment", "Concentrations and Compositions of PCBs Congeners in the Air around Stored and used Capacitors containing PCB Insulator oil in a suburb of Bangkok, Thailand", " Persistent of Organochlorine Pesticides in the Green Lip Mussel (PERNA Viridis) from Marine Estuaries in Thailand.

Bulent Mertoglu (Turkey)



Prof. Dr. Bulent Mertoglu is a professor at Marmara University, Department of Bioengineering. He has published 36 SCI Index articles in his academic studies for more than 20 years. Recently, he has been working on the production of hydrazine from Anammox bacteria, as well as conducting a project on genetic manipulations to reduce the effects of nanoplastics on *saccharomyces cerevisiae*. His research activities have been focused on environmental biotechnology and microbiology of aerobic-anaerobic biodegradation, biological nutrient removal and landfill stabilization. He has a wide and rich experience on leachate treatment plants and wastewater treatment plant operation.

URL Link to personal professional websites:

- <https://orcid.org/0000-0001-6827-3791>
- <https://scholar.google.com.tr/citations?user=Fiqq74AAAAAJ>
- <https://www.linkedin.com/in/bulent-mertoglu-5991374a/>

Joon Ching Juang (Malaysia)



Dr Joon Ching Juan actively involved in various research activities especially in the area of nanomaterial and catalysis. Most of his research activities are focused on understanding the nano-structure to be applied in environmental. Up to date, he has managed to publish more than 100 publications with an h-index of 36 (5,164 citation). The planet earth has been tirelessly supplying us with foods and shelter. Therefore, there is a need to protect and utilize the natural resources more responsibly. Therefore, the research is to make use of the sun energy (photon) to treat wastewater and also purify the water. The main research focus is to synthesize new type of photocatalyst with high efficiency such as graphene

based photocatalyst, expanded MoS₂, etc. As a strong believer in research driven innovation, he has filed six patents to be used in industries.

URL Link to personal professional websites:

- <https://umexpert.um.edu.my/jcjuan>

Links to publications or project websites:

- <https://www.sciencedirect.com/science/article/abs/pii/S0043135415302578>
- <https://www.sciencedirect.com/science/article/abs/pii/S0169433216303506>
- <https://pubs.rsc.org/en/content/articlehtml/2019/ra/c9ra01209e>

About myself:

If I have magical power, it would turn all sort of water into drinking or clean water.

Zisis Vryzas (Greece)



On May 25, 2009, I was elected Lecturer in Plant Protection and Pollution of Agroecosystems of the Department of Agricultural Development of Democritus University of Thrace and I become the Director of Laboratory of Agricultural Pharmacology and Ecotoxicology. In August 2013 and May 2018, I was appointed Assistant Professor and Associate Professor, respectively. I taught / I teach the courses Weed Science (2013-2020), Introduction to Agricultural Pharmacology (2009-2010, 2014-2020), Ecological Risk Assessment (2009-2010), Ecotoxicology (2009-2010, 2013-2020), Agriculture and Environment (2010-2019), Integrated Crop Protection - Product Certification (2010-2014), Agriculture and Pollution of

Aquatic Ecosystems (2010-2020), General Ecology (2010-2013), Advanced Agricultural Pharmacology (2009-2020) Also, from 2014 until now I teach the Postgraduate course in Agro-ecosystem Pollution at the Sustainable Production Systems and Environment in Agriculture.

RESEARCH INTERESTS: Environmental fate of pesticides and contamination of surface- and groundwater bodies Monitoring of pesticide residues in environmental samples, food and Feed Pesticide risk assessment to human health and environment

URL Link to personal professional websites:

- <https://agro.duth.gr/en/author/zvryzas/>
- <https://orcid.org/0000-0003-4396-4398>
- <https://www.linkedin.com/in/zisis-vryzas-89252135/>
- <https://www.researchgate.net/profile/Zisis-Vryzas>

Links to publications or project websites:

- <http://h2020-rise-knowpec.com/>
- <https://www.frontiersin.org/articles/10.3389/fmicb.2016.01968/full>
- <https://www.sciencedirect.com/science/article/pii/S0160412016300393?via%3Dihub>

Gijs A. Kleter (Netherlands)



Slightly over twenty years of professional experience in the regulatory safety assessment of genetically modified foods and feeds, as well as the identification of emerging risks to food safety. Leader of prior and current IUPAC projects related to the interface between crop protection chemistry and crop biotechnology. Topics include the environmental impact of pesticides used on biotech crops, the residue definition, profile and levels of herbicide active ingredients in herbicide-tolerant crops, and the safety and regulation of RNA interference as a crop pest management strategy.

URL Link to personal professional websites:

- <https://www.vcard.wur.nl/Views/Profile/Edit.aspx?id=1747&ln=eng>
- <https://www.linkedin.com/in/gijs-kleter-72727a10/?originalSubdomain=nl>
- <https://orcid.org/0000-0001-7030-1149>

Links to publications or project websites:

- <https://onlinelibrary.wiley.com/doi/10.1002/ps.5957>
- <https://onlinelibrary.wiley.com/doi/10.1002/ps.2128>
- <https://onlinelibrary.wiley.com/doi/10.1002/ps.1513>

About myself

Having a crave for coffee

Felicia Wu (USA)



My research, teaching, and professional service have focused on how dietary and environmental chemical exposures affect human and animal health. I serve / have served on food and feed safety committees of the US National Academy of Sciences, World Health Organization, and Food and Agriculture Organization of the United Nations. My top three research/teaching interests around environmental chemistry are: food safety, human health, and quantitative risk assessment.

URL Link to personal professional websites:

- <https://www.canr.msu.edu/people/wu>

Links to publications or project websites

- <https://www.pnas.org/content/118/18/e2017470118/tab-article-info>
- <https://ehp.niehs.nih.gov/doi/10.1289/ehp.0901388>
- <https://www.nature.com/articles/s41598-020-66955-1>

About myself

In 1994, I was a semi-finalist on the Jeopardy! Teen Tournament.

Silvina "Silvi" Di Pietro (USA)



Silvina "Silvi" Di Pietro graduated from Florida International University (FIU) in 2021 with a Ph.D. in environmental chemistry. During her graduate studies, Silvi was a Department of Energy (DOE) Fellow at the Applied Research Center (ARC) in FIU. At ARC, she assisted in developing ammonia gas injection for uranium remediation at the DOE Hanford Site in Washington State. The injection remediation technique has the potential to treat and sequester uranium, the major contaminant of concern released at the Hanford Site. Thanks to the DOE Fellowship, she interned at DOE's national laboratories: twice (summer of 2016 and 2018) at Pacific Northwest National Laboratory (PNNL) and in summer of 2019 at Lawrence Livermore National Laboratory (LLNL). At PNNL, she worked with the interaction of uranium and

iodine in both clay and sediments, while at LLNL, she investigated neptunium diffusion in aged clays under anaerobic conditions. Silvi's professional interests include water chemistry, geochemistry, and remediation of contaminated areas.

URL Link to personal professional websites:

- <https://www.linkedin.com/in/silvinadipietro/>
- <https://www.researchgate.net/profile/Silvina-Di-Pietro>
- <https://fellows.fiu.edu/doe-fellow-silvina-di-pietro-selected-as-the-u-s-delegate-to-the-international-younger-chemists-network/>
- <https://orcid.org/0000-0002-7633-9284>
- <https://newsarchives.fiu.edu/2018/11/doe-fellowship-connects-student-to-her-familys-past>

Links to publications or project websites:

- <https://www.sciencedirect.com/science/article/pii/S0169131720300855?via%3Dihub>

About myself

I did a study abroad in the Peruvian Amazon (summer of 2011) and a tarantula (size of my hand) jumped on my head.

Ken Racke (USA)

My initial training and research interests involved the environmental fate and effects of pesticides, with a special interest in insecticides. During my 33 years with Dow Chemical (Corteva Agriscience) I led and was involved in projects related to development and global regulatory approval of new pesticides as well as regulatory reevaluations of existing pesticides. My ongoing interests around environmental chemistry relate to 1) transformation and transport of pesticides in soil and water, 2) assessment of the potential impacts of pesticides on non-target organisms, including endangered species, and 3) advancement of pesticide management and understanding of risks/benefits by regulatory authorities and other stakeholders, with a special interest in scientifically emerging countries.

URL Link to personal professional websites:

- <https://www.linkedin.com/in/kenneth-racke-6171135/>
- <https://www.researchgate.net/scientific-contributions/KD-Racke-34610113>

Links to publications or project websites:

- <https://global.oup.com/academic/product/pesticide-regulation-and-the-endangered-species-act-9780841227033>

- <https://global.oup.com/academic/product/certified-organic-and-biologically-derived-pesticides-9780841238817>
- <https://www.degruyter.com/document/doi/10.1351/pac199769061349/html>

About myself

My first experience with IUPAC was as a poster presenter for the 6th International Congress of Pesticide Chemistry held in Ottawa, Canada, in 1986.

Amy Ritter (USA)

Ms. Ritter has over 25 years of experience conducting exposure assessment studies for non-point source water quality issues. She is the co-author of two fate and transport models (RIVWQ and RICEWQ). She is experienced in the use of many regulatory models around the world to analyze the effect of pesticides in surface waters and their potential to leach to groundwater. She has pioneered procedures for simulating pesticide fate and transport associated with rice agriculture in the United States, Europe, Japan, and China and banana agriculture in Costa Rica. She was the lead investigator on several industry-wide working groups including the FIFRA Exposure Model Validation Task Force. In 2012 she served as a hearing expert to the Work Group for preparing two scientific Opinions on the report of FOCUS ground water. She has participated as an instructor in Risk Assessment workshops sponsored by IUPAC in China, Colombia, Chile, and Costa Rica.

URL Link to personal professional websites:

- https://www.linkedin.com/search/results/all/?keywords=amy%20ritter&origin=RICH_QUERY_SUGGESTION&position=7&searchId=6b56c324-21b7-487a-8dc4-4128fcfb06cf&sid=iM

Links to publications or project websites:

- <https://www.waterborne-env.com/>

About myself

I've traveled to all 7 continents

Kaushik Banerjee (India)

Dr Kaushik Banerjee is a Principal Scientist from ICAR-National Research Centre for Grapes, Pune. His area of research focuses on the development of efficient analysis methods for the sensitive and confirmatory estimation of pesticide residues and mycotoxins in agricultural and food matrices, and risk assessment studies for fixation of crop-specific maximum residue limits. Being a member of the Scientific Panels and Working Groups of Food Safety Standards Authority of India (FSSAI), he regularly contributes to the development and implementation of the food safety standards in India. Dr Banerjee's extensive contributions to science and community have earned him numerous national and international laurels. He received the prestigious Harvey W. Wiley Award of AOAC INTERNATIONAL in 2017, and the Recognition Award of National Academy of Agricultural Sciences (NAAS) in 2019. Earlier, he was named as a Fellow by the Royal Society of Chemistry (FRSC), National Fellow- Indian Council of Agricultural Research and Fellow-NAAS.

URL Link to personal professional websites:

- <https://orcid.org/0000-0002-5026-2370>
- <https://www.linkedin.com/in/kaushikbanerjeefrsc/>
- https://scholar.google.co.in/citations?hl=en&view_op=list_works&gmla=AJsN-F4LFKTHIXxCbzdkswN6UBPqSDjUF6N_r5Dy2kzhHdyH5sgjZyGwHrbO7AnZtBIIRqMJWSkiZ6LhoyEKY20AnD1IWQjO1TobLOv7G3fXeBoHv9puXD4&user=YQQvY54AAAAJ
- <https://nrcgrapes.icar.gov.in/staff/KBanerjee.htm>

- <https://aoac-india.org/chairman/>

Links to publications or project websites:

- <https://doi.org/10.1016/j.chroma.2021.462346>
- <https://doi.org/10.1016/j.chroma.2021.462208>
- <https://doi.org/10.1016/j.foodchem.2019.125216>

About myself

One thing I cannot live without is Bengali sweets :)

Andrew DeAngelis (USA)

I am a synthetic organic chemist by training. I began my career as a development chemist at Johnson Matthey with a focus on homogeneous catalyst development and process development. I later moved into a product manager role within the homogenous catalysis group. In 2015, I joined the crop protection unit of DuPont in the insecticide discovery group. The R&D unit was sold to FMC in 2017, where I am currently a Sr. Global R&D Scientist in the discovery chemistry department. I am a 2021 IUPAC Young Observer. My top research interests are the synthesis of complex and biologically active compounds, mechanistic analysis, and homogeneous catalysis/organometallic chemistry.

URL Link to personal professional websites:

- <https://www.linkedin.com/in/andrew-deangelis-a60b2b46>

Links to publications or project websites:

- <https://pubs.acs.org/doi/10.1021/acs.accounts.5b00425>
- <https://onlinelibrary.wiley.com/doi/abs/10.1002/anie.201208544>

About myself

I am a lifelong Phillies fan, and was in the stands when they won it all in 2008

Michelle Bailey (USA)

Dr. Michelle Bailey is a Research Chemist at the National Institute of Standards and Technology (NIST) in Gaithersburg, Maryland. Her research focuses on the development and implementation of optical diagnostic techniques for atmospheric trace gas analysis. Prior to joining NIST, she championed three field campaigns in Fairbanks, Alaska to investigate carbon feedbacks above thawing permafrost using open-path spectroscopy and worked with local government and education officials to deploy low-cost carbon dioxide sensors within Washington, D.C. Dr. Bailey's current work explores the use of mid-infrared quantum cascade lasers and optical frequency combs for precision spectroscopy in static and dynamic chemical environments. She also serves as a Community Science Fellow in the American Geophysical Union's Thriving Earth Exchange program. As a member of the Science, Policy, and Engagement cohort, Michelle supports community leaders and researchers as they come together and use science to advance local priorities.

URL Link to personal professional websites:

- <https://www.nist.gov/people/d-michelle-bailey>
- <https://scholar.google.com/citations?user=HCeTDdMAAAJ&hl=en>
- <https://www.linkedin.com/in/d-michelle-bailey-551746120>

Links to publications or project websites:

- <https://doi.org/10.1021/acs.analchem.0c01868>
- <https://doi.org/10.1007/s00340-017-6814-8>
- <https://www.nist.gov/mml/csd/optical-measurements-group>

About myself

Before deciding on a career in science, I thought I would become a music teacher. I played trumpet while in school and self-taught flute and piano.

Tina Sikanen (Finland)



Tiina Sikanen has PhD (2007) and title of docent (2014) in pharmaceutical chemistry from Uni Helsinki, Finland; second MSc (2010) in chemical engineering from Aalto Uni, Finland; and postdoctoral experience from Technical Uni Denmark (2011) and Uni Toronto, Canada (2014). Her research focuses on development of microfluidic bioanalytical platforms and in vitro models to examine pharmaceuticals metabolism and toxicity in human (drug discovery) and fish (environmental hazards). She is the recipient of European Research Council starting (2012) and proof-of-concept (2019) grants, the Academy of Finland award for Scientific Courage (2019), and the L'Oréal-UNESCO For Women in Science Award (2020), and has authored ca. 60 full papers and 40 proceedings, 6 invention disclosures/patents and several reviews/book chapters. Since 2015, she is the founding member of the Generation Green task force of the Faculty of Pharmacy, Uni Helsinki, which aims at incorporating environmental aspects as part of

pharmacy curricula and doctoral training.

URL Link to personal professional websites:

- <https://researchportal.helsinki.fi/en/persons/tiina-sikanen>
- <https://orcid.org/0000-0002-0788-1301>

Links to publications or project websites:

- <https://www.sciencedirect.com/science/article/pii/S2352554119303778?via%3Dihub>
- <https://setac.onlinelibrary.wiley.com/doi/full/10.1002/etc.5160>
- <https://imi-premier.eu/>

About myself

I love cross-country skiing.

Manuel Mirò (Spain)



Manuel Miró received his M.Sc. (1998) and Ph.D. (2002) in Chemistry at the University of the Balearic Islands, Spain. He has conducted post-doctoral research in several universities including the Technical University of Berlin, Technical University of Denmark and University of Natural Resources and Applied Life Sciences in Austria. He is currently Full Professor in Analytical Chemistry (since September 2017) at the University of the Balearic Islands; Guest Professor at Charles University (Czech Republic) since 2014; and member of the IUPAC Chemistry and Environment Division (Subcommittee on Chemical and Biophysical Processes in the Environment). He has completed and consolidated four teaching periods (5 year each) and three research periods (6 year each)

He is the Reviews Editor of the journal *Analytica Chimica Acta* (Elsevier, IF: 6.558, second highest IF across scientific journals of general analytical chemistry) and Associate Editor of the *Encyclopedia of Analytical Science*, 3rd Edition, Elsevier, since 2007 and 2016, respectively.

His publication record shows over 210 refereed publications including 14 book chapters, and a foreword, with an h-index of 40 and over 5000 citations. He has published 23 articles in the prestigious journal 'Analytical Chemistry' from ACS and is corresponding author of 102 articles.

He has delivered 65 oral presentations (56 as Plenary, Keynote or invited lecturer) in international conferences on analytical chemistry, sample preparation, nanotechnology, environmental chemistry, and automation based on flow methodology. He has presented 161 poster communications in international conferences and symposiums.

He has supervised 10 PhD students in national and international universities (Technical University of Denmark, Mahidol University in Thailand, Chiang Mai University, University of the Balearic Islands and Universidade Federal de Bahía in Brazil).

He has been actively engaged in 31 national and international research projects (e.g., University of Melbourne and Charles University in Czech Republic) 15 of which as the Principal Investigator.

His research interests are focused on the development of on-line sample processing strategies for isolation and/or preconcentration of trace levels of environmental pollutants exploiting 3D printing the various generations of flow injection, including 3D-printed μ FIA and Lab-on-a-Valve mesofluidic platforms, in hyphenation with modern analytical instrumentation.