

Biographies of candidates for the elections of the officers for IUSS Divisions and Commissions 2017

Division 4 - The Role of Soils in Sustaining Society and the Environment

Chair

Damien FIELD (Associate Professor, University of Sydney, Australia)

If elected as division 4 chair I would support its commissions and the IUSS as it promotes the role of soil science in public policy, culture, education and as a public concern. To do this I would build on my experience, contributions and connections. I have made as Commission Chair for 4.4 (ending in 2018) and as editor of the Soil Connects newsletter, which I developed. My teaching and research experiences in engaging soil in the public's discussions and through soil security, also provide a good base for me to engage in this role.

URL: <http://sydney.edu.au/science/people/damien.field.php>

Vice chairs

Chris EVANS (Centre for Ecology and Hydrology, UK)

Chris Evans is a biogeochemist at the Centre for Ecology and Hydrology, Bangor, studying interactions between land-use, climate, pollution, and the soil element cycles. His work focuses in particular on greenhouse gas emissions, fluvial carbon fluxes and water quality in managed temperate and tropical peatlands, and spans field experiments and monitoring, modelling, earth observation and emissions inventory reporting. His work at the science-policy interface supports UK government decisions on land and soil-management, as well as decisions on restoration and responsible agricultural management of peatlands in the UK and Indonesia. He also holds a visiting position at the Swedish Agricultural University.

URL: <http://www.ceh.ac.uk/staff/chris-evans>

Christine WATSON (Professor Scotland's Rural College, UK)

Professor Christine Watson leads soil science research for SRUC (Scotland's Rural College) and holds a guest position in SLU, Sweden. Christine has a background in research on soils and nutrient management in land use systems including arable, livestock and agroforestry, working in collaboration with European, African and Asian scientists. She was President of the European Society of Agronomy (ESA 2014-2016) and led the team responsible for the ESA Congress in Edinburgh (2016). She has managed several research projects on soil and land management in close collaboration with policy colleagues and NGOs involved in agriculture, natural heritage and environmental protection.

Personal URL: <https://www.sruc.ac.uk/cwatson>

Commission 4.1 – Soils and the Environment

Chairs

Yongming LUO (Professor, Institute Soil Science, Nanjing, China)

Dr. Yongming Luo is a professor in the Institute of Soil Science, Chinese Academy of Sciences (CAS). His research mainly focuses on soil pollution and remediation, Regional environmental quality changes and risk management. He has published 234 (co-)authored SCI papers, obtained 25 patents and 16 books [including “Twenty Years of Research and Development in Soil Pollution and Remediation in China” (in English)]. He was a chairperson for the first to the fifth International Conference of Soil Pollution and Remediation. He is an Editorial Board Member of the International Journal of Phytoremediation and a Member of Future Earth Coasts.

Morihiro MAEDA (Professor, Okayama University, Okayama, Japan)

Morihiro Maeda is professor of Soil Science at the Graduate School of Environmental and Life Science, Okayama University, Japan. He obtained his Ph. D. degree in Sanitary and Environmental Engineering at Kyoto University in 2002. His main research interests are nitrate leaching and nitrous oxide emissions in agricultural soil. He authored or coauthored over 50 original papers in refereed journals and 9 books. He is a member of editorial boards of Soil Science and Plant Nutrition (2007-2011, 2015-present) and Hydrological Research Letters (2016-present). He is chair of Soil Environment Division of the Japanese Society of Soil Science and Plant Nutrition (JSSSPN). After being a new chair of Commission 4.1, he will organize some symposiums on better management of agricultural wastes in developing countries, etc.

URL: <http://www.eme.okayama-u.ac.jp/Sections/Lithosphere/index-e.html>

Vice chairs

Claudio ZACCONE (Assistant Professor, Univ. Foggia, Italy)

Claudio Zaccone is Assistant Professor in Agricultural Chemistry at the University of Foggia, Italy, since 2008. In 2005 and 2006 he was visiting researcher at the University of Heidelberg, while in 2010, 2012 and 2016 he was Guest Scientist at the University of Heidelberg, at the University of Alberta and at the Spanish National Research Council, respectively. From June.2013 to May.2014, he joined the University of Alberta as Academic Research Associate.

His main research interests include the evolution of soil organic matter in relation to climate changes and utilization of peat profiles as archives of environmental changes during centuries.

Ioan OROIAN (Professor, Dimitre Cantemir Univ, Romania.)

I graduated from the University of Agricultural Science and Veterinary Medicine Cluj-Napoca, 1994, and “Dimitre Cantemir” University, 1999. I have double specialization, Agronomist Engineer, and Jurist. Ph.D. Thesis in the field of **soil fertilization**, 2002. I am Professor at the Department of Environmental Engineering, Director of Department and Research Center, President of the Senate of UASVM-CN. Specialization in soil fertilization, plant protection, and legislation. My activity includes: authorship of 348 papers (29 ISI), 34 scientific books, treatises, and textbooks, 24 coordinated projects (2 international), member in team of 17 projects, 1 patent, and 3 patent applications. Doctoral Coordinator since 2008.

Commission 4.2 – Soils, food security, and human health

Chair

Lorna DAWSON (Principal scientist, James Hutton Institute, Aberdeen, UK)

I am a Principal soil scientist specializing in forensic soil science also with a passion for the communication of soil science. I am based at the James Hutton Institute, formerly the Macaulay, and I am head of the soil forensic science group there. I have a diploma in criminal and civil law, am a member of the National Crime Agency, a Chartered Scientist and regularly working with police in search and with the criminal justice system in the provision of soil evidence in court. I supervise students at all levels and I lecture at Aberdeen, RGU, Strathclyde, Edinburgh and Dundee universities. I regularly present on radio, TV and in the popular press, as well as write scientific publications and books.

URL: <http://www.hutton.ac.uk/staff/lorna-dawson>

Vice chairs

Heide SPIEGEL (Senior research scientist, Austrian Agency for Health and Food Safety, Vienna, Austria)

Born and educated in Vienna, Austria.

1979-1985: Diploma study of agriculture at the University of Natural Resources and Life Sciences (BOKU), Vienna

1990-1992: Doctoral thesis at the University of Natural Resources and Life Sciences (BOKU), Vienna, in co-operation with the Federal Office and Research Centre for Agriculture (BFL), Vienna. Title: "Heavy metals in agricultural soils and plants in the district of Schwechat (Lower Austria)".

2012: venia docendi for "soil ecology" at the University of Natural Resources and Life Sciences.

Present position: Soil Scientist, Senior Research Scientist at Austrian Agency for Health and Food Safety – AGES

Radu LĂCĂTUȘU (Professor emeritus, Institute for Soil Science, Bucharest Romania,)

Professor emeritus dr. Radu LĂCĂTUȘU, geochemist, Head of *Agri-Environmental Policy and Rural Development Consultancy Compartment at National R&D Institute for Soil Science, Agrochemistry and Environment (ICPA) Bucharest*. Member of Academy of Agricultural and Forestry Sciences (AAFS), corresponding member of the German Society of Soil Science. Awarded by Romanian Academy and AAFS. Project leader/management team member in national and international projects related to plant-soil chemistry and environment. Author of 15 books and book chapters published in national and international publishing houses, 330 publications in agro chemistry, soil chemistry, plant chemistry, soil and environmental pollution domains, 4 patents, *over 300 citations*. Hirsch index 8.

Commission 4.3 – Soils and land use Change

Chair

Chengrong CHEN (Professor, Griffith Univ., Australia)

Professor Chen has > 25 years soil research experience and published over 130 refereed journal papers since 2001. Most of his papers have been published in high impact journals, including Global Change Biology, Scientific Report, Soil Biology and Biochemistry. Prof Chen's ISI H-index is 29. He was awarded a prestigious ARC Future Fellowship (2009-2013). He is a submission / Associate/ Consulting Editor of five journals (Scientific Reports, Soil Research, Plant and Soil etc.).

URL: <https://www.griffith.edu.au/environment-planning-architecture/griffith-school-environment/staff/chengrong-chen>

Xiaoyuan YAN (Professor, Institute Soil Science, Nanjing, China)

Dr. Xiaoyuan Yan is a professor from the Institute of Soil Science, Chinese Academy of Sciences. He has more than twenty years' working experiences on soil carbon and nitrogen biogeochemistry, especially greenhouse gas emission and soil carbon sequestration, and has published more than 80 relevant peer-reviewed papers in international journals. He is actively involved in many bilateral or multilateral joint projects. Prof. Yan has served as the director the East Asian Center of International Nitrogen Initiative and is the current chairperson of the Nitrogen Working Group of the Soil Science Society of China, and is a contributing author of the 2006 IPCC Guidelines for National Greenhouse Gas Emission Inventory.

Vice chairs

Sonoko D. BELLINGRATH-KIMURA (Germany, Humboldt University, Berlin) (nominated by Japan)

As professor of Land Use Systems at the Humboldt University of Berlin and institute head at Leibniz Centre for Agricultural Landscape Research, Germany, she has been working on nutrient dynamics to analyse the sustainability of the land use systems. She got her PhD. in soil science at the Hokkaido University, Japan, and worked at the Tokyo University of Agriculture and Technology. Her research activity covers a wide area from the tropics to the temperate regions, where she investigated various land uses from aggregate, landscape and regional scales. She is internationally active in editorial boards and networks, ideal for this position.

URL: http://www.zalf.de/en/ueber_uns/mitarbeiter/Pages/LSE/bellingrath-kimura_s-d.aspx

Irina CALCIU (ICPA Institute Soil Science, Bucharest, Romania)

Dr. Irina CALCIU, head of Laboratory of physical and chemical analysis for soil science, agrochemistry and environment within ICPA Bucharest. I have more than 20 years of experience in agricultural research. I have been involved in the areas of: identification, characterization and estimation of soil degradation processes, measures for preventing and/or limit soil degradation; implementation of Nitrates Directive in Romania (accomplishing of Codes of good agricultural practices and action programs); evaluation of greenhouse gas emissions; mitigation drought in vulnerable areas in Romania. I have published articles in journals indexed in national and international databases.

Commission 4.4 – Soil education and public awareness

Chair

Cristine Muggler (Associate Professor, Univ. Viçosa, Brazil)

Cristine Carole Muggler is Associate Professor at the Soil Science Department of Federal University of Viçosa (UFV), Brazil. She did her post-doc in Soil Education and public awareness (World Soil Museum/ISRIC/NL, 2011). Her activities include soil science teaching, supervision of students and curatorship of scientific museum. Since 2011 she is chairwoman of the Division IV, Soils, Environment and Society, of the Brazilian Soil Science Society, and since 2014 vice-chair of the IUSS Division 4. She organized an inventory of all soil education initiatives in Brazil and has been working in strengthen the national and international network on it.

URL: <http://lattes.cnpq.br/4993859703620591>

Vice chairs

Hideaki HIRAI (Professor, Utsunomiya University, Japan)

At present, I am currently working there as a professor of Soil Science, and also I am in charge of the chairman of the soil education committee in the Japanese Society of Soil Science and Plant Nutrition and have been concerned with soil education and public awareness for more than 20 years. One of the examples of my research is that I analyzed the number of occurrences of a word of soil within the sentences written in the guideline to educate elementary school children of the Ministry of Literature and Scientific technology, Japan. The other one is that I made a questionnaire survey regarding concern for soil and awareness of necessity of soil by elementary school children, junior and/or high school children and university students.

Mircea MIHALACHE (Professor, Univ. Agronomical Sciences, Bucharest, Romania)

Mircea Mihalache has a Ph.D. in Agronomy, Soil Science (2003).

19 years of teaching and research in the fields of Soil Sciences: Land rehabilitation, Soil classification, Soil Evaluating, Environmental Pollution, Soil chemical and physical analysis.

130 publications in referred journals (19 publication indexed in Web of Science -ISI Thompson), 10 book chapters and 55 conference papers.

Awards: "Constantin Sandu Aldea" and "Gheorghe Ionescu Sisesti"

Membership in prestigious international professional associations: Correspondent Member Academy of Agricultural and Forestry Sciences, Member Scientific Centre for Fertilizers; Member International Tillage Research Organization; Member Romanian Society of Soil Sciences.

Commission 4.5 – History, philosophy, and sociology of soil science

Chair

Eric BREVIK (Professor, Dickinson State University, USA)

Dr. Brevik received his Ph.D. degree in soil science from Iowa State University in 2001. He has taught geoscience classes at Valdosta State University (2001-2007) and Dickinson State University (2007-present). His research has investigated a wide range of issues, including soil genesis and survey, soils and human health, soil science history, and soil science education. His professional service includes editor for the IUSS/SSSA History, Philosophy, and Sociology of Soil Science Newsletter, Historian for the Soil Science Society of America, and Chair of the History, Philosophy and Sociology of Soil Science committee (S205.1) of the Soil Science Society of America.

Vice chair

Thomas SAUER (Supervisory Research Soil Scientist, USDA-ARS, Ames, USA)

Dr. Sauer received his Ph.D. degree in soil science from the University of Wisconsin-Madison in 1993. He joined the USDA Agricultural Research Service (ARS) as a research associate at the National Soil Tilth Laboratory (NSTL) in Ames, Iowa and after two years in Fayetteville, Arkansas with ARS he returned to the NSTL in 1999. His research focus is on soil management effects on organic matter, soil health, and greenhouse gas production. These efforts have addressed the potential of land use change and in particular tree windbreaks as a climate change adaptation and mitigation practice. This work has also addressed potential environmental impacts of bioenergy production from woody feedstocks. He currently serves as Research Leader of the Soil, Water and Air Resources Research Unit at the National Laboratory for Agriculture and the Environment. He is the current Chair of C4.5 and has also been active in and served as Chair of the History, Philosophy and Sociology of Soil Science committee (S205.1) of the Soil Science Society of America.