



## Outstanding reviewers for Environmental Modelling and Software in 2013

Reviewers play a crucial role in helping the journal maintain its position as a leader in environmental modelling and software methodology by ensuring the high quality of its publications. We are grateful to each and every one of the 1152 reviewers who dedicated their time and expertise to the journal in 2013. In particular, we recognize the exceptional contributions made by our 'Reviewer of the Year' Gerry Laniak and the ten 'Outstanding Reviewer Award' recipients, listed below. These awardees were selected through consultation among the Editors, who considered the depth, constructiveness and timeliness of their reviews as well as the number of reviews performed. We are indebted to these awardees and all reviewers for their generous efforts, which have enabled EMS to advance the development and application of models, software, information and decision support systems, especially in our niche areas of: generic techniques for multi-disciplinary/multi-sectoral issues; and integrated modelling, assessment and management of complex environmental systems.

The awardees for 2013 and their scientific interests are:

*Gerry Laniak, US Environmental Protection Agency, USA* is an environmental engineer within the Office of Research and Development. He has participated in the development of several modelling systems designed to support environmental regulations related to human and ecological exposure and risk assessment. His primary interest is developing the necessary standards, best practices, and tools to enhance the web-enabled publication, discovery, evaluation, and integration of environmental science software developed throughout the global community.

*Miguel Cruz, CSIRO, Australia* has a PhD in Forest Science. His main research interests are in wildland fire behaviour modelling, in particular the dynamics of high intensity fires. The motivation for his work is to develop models that can be used when addressing fire management issues. Recent work includes the development of a semi-physical model for fire spread prediction in eucalyptus forests and the application of ensemble methods to predict the spread of high intensity fires.

*Susan Cuddy, CSIRO, Australia* has a background in mathematics and computer science, but has spent most of her professional career in the packaging of land and water resources science – usually in the form of models embedded within decision support systems. Issues covered include impacts of land use change and management on receiving waters, environmental damage from army training, environmental flows, and most recently incorporating risk and uncertainty into water resource planning. The common thread is in the representation, integration and deployment of knowledge such that it advances the uptake of research within society.

*Daniele de Rigo, European Commission – Joint Research Centre and Politecnico di Milano, Italy* is an environmental system modeller interested in the science–society interface. He aims to ease

modelling re-usability, integration and scalability and to contribute toward stronger reproducibility and cooperation in scientific research by supporting free public data and metadata, free software, documentation and semantic contents (semantic array programming).

*Annelie Holzkämper, Agroscope, Switzerland* has a background in landscape ecology and her research focus is on studying climate change impacts on agro-ecosystem functioning and on exploring possibilities for adaptation with the help of modelling and optimization techniques. Her work aims at providing decision-support for integrated land-use and adaptation planning.

*Jeffery S. Horsburgh, Utah State University, USA* works to develop cyberinfrastructure to support sensors and sensor networks as well as for collaborative data and model sharing. He is working to develop new technologies to increase understanding of watershed and environmental processes and enable better prediction, management, and stewardship.

*Joseph Guillaume, National Centre for Groundwater Research and Training, Australian National University, Australia* is a transdisciplinary modeller with experience in the use of integrated modelling to support water resource management. Recent work focuses on the effective use of models to make predictions of uncertain outcomes. This includes considerations of uncertainty, model identifiability and development of flexible modelling techniques suitable for tackling wicked problems, characterised by significant uncertainty in both scientific knowledge and definition of the problem.

*Saman Razavi, Global Institute for Water Security at the University of Saskatchewan, Canada* has interests and expertise in environmental and water resources systems analysis, hydrologic model development and calibration, surrogate modelling, optimization, sensitivity analysis, and uncertainty estimation. Recently, his research is more focused on climate change and impacts on hydrology and water resources, reconstruction of paleo-hydrology, and sociology and human dimensions of water resources.

*Gerrit Schoups, Delft University of Technology, The Netherlands* works on developing and applying models to predict water quantity and quality of hydrological systems. Applications include salinity and conjunctive use in irrigated agriculture, groundwater remediation, and rainfall-runoff modelling. His current work focuses on probabilistic approaches to modelling such systems.

*Daniel Wallach, INRA, France* has a background in statistics and modelling. His research centres on the application of statistical methods and principles to dynamic system models. His recent work focuses on the use of model ensembles, on model calibration, and on the description and determinants of the uncertainty in model predictions, in particular for impact assessments of climate change.

*Jeff White, USDA ARS, USA* has a background in crop physiology with emphasis on adaptation to abiotic stress. His research interests include application of ecophysiological models to support crop improvement, to characterize potential impacts of climate change, and to assist producers in making decisions in the context of climate uncertainty. Recent work emphasizes combining simulation modelling with proximal sensing as a tool for high-throughput field phenomics.

Congratulations to these awardees and a big thanks for their valuable efforts and contributions to EMS. We will celebrate their awards at the upcoming 7th iEMSs biennial meeting in San Diego in June 2014.

Anthony J Jakeman  
Andrea E Rizzoli  
Alexey A Voinov  
Ioannis N Athanasiadis