Title Professor of Geosciences
Director, Institute for Water and Watersheds

First Name Michael

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Last Name Campana

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8/31/2007

Permission date

Photo

Website

http://www.geo.oregonstate.edu/people/faculty/campanam.htm
Additional website: water.oregonstate.edu

Research Fields

- ☐ Atmospheric chemistry
- ☐ Biogeochemistry
- ☐ Carbon Footprint Analysis
- ☐ Climatology
- ☐ Community & Disaster Planning
- ☐ Data Analysis & Statistical Modeling
- ☐ Ecology & Ecosystem Management
- ☐ Economics
- ☐ Energy policy & technology
- ☐ Ethics
- ☐ Fire
- ☐ Forestry & Forest Management
- ☐ Geographic Information Systems
- ☐ Horticulture
- ☐ Human Impacts - economics
- ☐ Human Impacts - health
- ☐ Human Impacts - policy
- ☒ Hydrology
- ☐ Impacts - agriculture & horticulture
- ☐ Impacts - ecosystems, populations
- ☐ Impacts - physical
- ☐ Instrumentation
- ☐ Mitigation Policy
- ☐ Modeling Climate
- ☐ Modeling Ecosystems
- ☐ Modeling Socioeconomic Processes
- ☐ Natural Resource Policy & Planning
- ☒ Outreach & Engagement
- ☐ Paleoclimatology
- ☐ Paleoecology
- ☐ Physical Ecology
- ☐ Physiological Ecology
- ☐ Urban Ecology
- ☒ Water Policy & Planning
- ☒ Other…

Modeling Water Resources Systems

Specific Research Interests

Hydrogeologic flow system delineation
water resources development, planning and management; effects of climate change on water resources systems; transboundary water resources; education and outreach; hydrohumanity.

Blog: aquadoc.typepad.com/waterwired

Projects

South Caucasus river monitoring. North Atlantic Treaty Organization (NATO) and Organization for Security and Cooperation in Europe (OSCE); $1,350,000; 10/1/02 – 12/31/08. PI/Project Manager. Monitoring streamflow and water quality in the Kura-Araks basin; water resources modeling.

Selected Recent Publications

Campana, Michael E., Berrin Basak Vener, Nodar P. Kekelidze, Bahruz Suleymanov, and Armen Saghatelyan, *in press*. Science for peace: monitoring water quality and quantity in the Kura-Araks Basin of the South Caucasus. *In* J. Moerlins (ed.), *Proceedings,* NATO Advanced Research Workshop, Almaty, Kazakhstan. Berlin: Springer-Verlag.

Klise, Geoffrey T., Alyssa M. Neir, and Michael E. Campana, *in press*. Hydrovulnerability of West Asia. *In* A.T. Wolf, and M. Macomber (eds.), *Hydropolitical Vulnerability and Resilience along International Waters: Asia.* Nairobi, Kenya: United Nations Environment Programme.

Neir, Alyssa M. and Michael E. Campana, 2007. The peaceful resolution of US-Mexico transboundary water disputes. *Economics for Peace and Security Journal* 2(2): 35-41 [www.epsjournal.org.uk]

Faulkner, B.R. and M.E. Campana, 2007. Compartmental model of nitrate retention in streams. *Water Resources Research* W02406 [doi: 10.1029/2006WR004920,2007]

Campana, M.E., 2007. A primer on groundwater management. *In* L. Holliday, L. Marin, and H. Vaux (eds.), *Sustainable Management of Groundwater in Mexico: Proceedings of a Workshop*. Washington, DC: National Academy Press, pp. 26-35.

Campana, M.E., A. Neir and G. Klise, 2007. Dynamics of transboundary ground water management: lessons from North America. *In* A.R. Turton, J. Hattingh, G.A. Maree, D.J. Roux, M. Claassen, and W.F. Strydom, (eds.), *Governance as a Trialogue: Government-Society-Science in Transition.* Water Resources Development and Management Series, Berlin: Springer-Verlag, pp. 167-196.

Gabora, M. and M.E. Campana, 2006. Groundwater flow, recharge rates, and mean ages in the Roswell Basin, southeastern New Mexico, USA. *In Isotopic Assessment of Long Term Groundwater Exploitation,* International Atomic Energy Agency TECDOC 1507, pp. 29-54.

Campana, M.E., L. Scuderi, O.P. Matthews, D. Brookshire, K. Krause, J. Chermak, B. Cullen, S. Snell and K. Gregory, 2003. Reallocation of water and the hydrological effects of climate change: the upper Rio Grande basin, southwestern USA. *In Water Resources Perspectives: Evaluation, Management and Policy,* A. S. Alsharhan and W.W. Wood, (eds.), Developments in Water Science 50, Elsevier, Amsterdam, pp. 169-181.

Campana, M.E., 2002. Compartment model simulation of ground-water flow systems. *In Use of Isotopes for Analyses of Flow and Transport Dynamics in Groundwater Systems*, International Atomic Energy Agency TECDOC, Vienna, pp. 196-230.

Professional Activities

- Board of Directors, American Water Resources Association, 2008-2010
- Chair, American Water Resources Association Annual Conference, Albuquerque, November 2007
- Organizing Committee, *Collaborative Governance in the West: Prospects, Problems, and Theory,* Corvallis, OR, October 2007
- Coordinating Committee for Collaborative Research and Management Partnership for Great Basin Sustainability, 2007-present
- Co-Chair, Program Committee, *First Intl. Conference on Non-Renewable Ground Water*, Portland, OR, October 2008
- Program Committee, *Snake-Columbia Basin Energy and Water Summit,* June 2007
- Program Committee, *Water in the Pacific Northwest: Moving Science into Policy and Action* Conference, Nov. 2007
- Member, National Academy of Science-National Research Council *Committee on Hydrology, Ecology, and Fishes of the Klamath River Basin,* 2006-2007
- Member, *Sustainable, Oceans, Coast, and Waterways Advisory Committee*, H. John Heinz III Center for Science, Economics and the Environment, 2004-present