

CHRISTOPHER A. SCOTT

Associate Professor  
School of Geography & Development  
University of Arizona  
410 Harvill Building  
Tucson, Arizona 85721  
Phone: (520) 621-1652, Fax: (520) 621-2889  
Email: [cascott@email.arizona.edu](mailto:cascott@email.arizona.edu)

Assoc. Research Professor, Water Resources Policy  
Udall Center for Studies in Public Policy  
University of Arizona  
803 E. First St.  
Tucson, Arizona 85719  
Phone : (520) 626-4393, Fax: (520) 626-3664  
Webpage: [udallcenter.arizona.edu/wrpg](http://udallcenter.arizona.edu/wrpg)

EDUCATION

1994-98 Cornell University, Ph.D. Major Field: Hydrology  
1989-91 Cornell University, M.S. Major Field: Hydrology  
1981-85 Swarthmore College, B.S. Major Field: Water Resources, B.A: Asian Studies

TEACHING

2011 Spring Adaptation & Resilience in Water Resource Systems, Univ. Arizona, GEOG 696O  
2010 Fall Water, Environment, and Society, Univ. Arizona, GEOG 304 (last taught Fall '09)  
2010 Spring Water Management & Policy, Univ. Arizona, GEOG 596J (last taught Fall '07)  
2008 Fall Adaptive Water Management in Agriculture, Univ. Arizona, GEOG 696J  
2008 Spring Water Resource Assessment, Univ. Arizona, GEOG 467  
1995 Spring Irrigation & Drainage Design, Teaching Asst., Cornell University

ACADEMIC APPOINTMENTS AND EMPLOYMENT

2006 - Associate Professor, School of Geography & Development, University of Arizona; adjunct faculty with: Dept. Hydrology & Water Resources; Dept. Soil, Water & Environmental Science; School of Natural Resources; Institute of the Environment; Center for Latin American Studies; Arid Lands Resource Sciences.  
2006 - Associate Research Professor of Water Resources Policy, (jointly appointed with) Udall Center for Studies in Public Policy, University of Arizona.  
2005-06 Senior Project Specialist - Hydrometeorology, National Oceanic & Atmospheric Administration National Weather Service, International Activities Office, Silver Spring, MD.  
2001-05 Principal Researcher; Director for Asia, International Water Management Institute (IWMI), Hyderabad, India.  
2000-01 Hydrologist, U.S. Agency for International Development, Global Environment Center, Washington, DC (seconded by IWMI, Colombo, Sri Lanka).  
1997-2000 Senior Researcher, Mexico Program Leader, IWMI, Guanajuato, Mexico.  
1994-97 Research Associate, New York City Watershed Project, Cornell Univ., Ithaca, NY.  
1992-94 Project Manager - Watersheds, Catholic Relief Services, Tegucigalpa, Honduras.  
1991-92 Research Assistant, Cornell Irrigation Studies Group, Ithaca, NY.  
1990 Intern - Watershed Management, The Ford Foundation, New Delhi, India.  
1987-89 Coordinator - Watershed Management and Small-scale Irrigation, Seva Mandir (an NGO), Udaipur, Rajasthan, India.  
1987 Consultant - Appropriate Shelter, Development Alternatives (NGO), N. Delhi, India.  
1985-87 Assistant Engineer - Floodplain Mapping, Baker Engineers, Alexandria, VA.

## PUBLICATIONS – Refereed Journal Articles

- Scott, C.A.**, M.J. Pasqualetti. In press. Energy and water resources scarcity: Critical infrastructure for growth and economic development in Arizona and Sonora. *Natural Resources Journal* 50.3: xx.
- Akhter, M., K.J. Ormerod, **C.A. Scott**. 2010. Resilience, social agency, and water planning in Tucson, Arizona. *Critical Planning* 17: 46-65.
- Wilder, M., **C.A. Scott**, N. Pineda Pablos, R.G. Varady, G.M. Garfin. 2010. Adapting across boundaries: climate change, social learning, and resilience in the U.S.-Mexico border region. *Annals of the Association of American Geographers* 100(4): 917-928.
- Milman, A., **C.A. Scott**. 2010. Beneath the surface: intranational institutions and management of the United States – Mexico transboundary Santa Cruz aquifer. *Environment and Planning C: Government and Policy* 28: 528-551.
- Scott, C.A.**, S. Dall’erba, R. Díaz-Caravantes. 2010. Groundwater rights in Mexican agriculture: spatial distribution and demographic determinants. *Professional Geographer* 62(1): 1-15.
- Celio, M., **C.A. Scott**, M. Giordano. 2010. Urban-agricultural water appropriation: the Hyderabad, India case. *The Geographical Journal* 176(1): 39-57, doi: 10.1111/j.1475-4959.2009.00336.x
- Coles, A.R., **Scott, C.A.** 2009. Vulnerability and adaptation to climate change and variability in semi-arid rural southeastern Arizona, USA. *Natural Resources Forum* 33: 297-309.
- Ensink, J.H.J., **C.A. Scott**, S. Brooker, S. Cairncross. 2009. Sewage disposal in the Musi River, India: water quality remediation through irrigation infrastructure. *Irrigation and Drainage Systems*, doi 10.1007/s10795-009-9088-4.
- Diaz-Caravantes, R.E., **Scott, C.A.** 2009. Water management and biodiversity conservation interface in Mexico: a geographical analysis. *Applied Geography* 30: 343-354, doi:10.1016/j.apgeog.2009.10.003.
- Scott, C.A.**, B.R. Sharma. 2009. Energy supply and the expansion of groundwater irrigation in the Indus-Ganges basin. *International Journal of River Basin Management* 7(2): 119-124.
- Biggs, T.W., **C.A. Scott**, A. Gaur, J.P. Venot, T. Chase, E. Lee. 2008. Impacts of irrigation and anthropogenic aerosols on the water balance, heat fluxes, and surface temperature in a river basin. *Water Resources Research* 44, W12415, doi:10.1029/2008WR006847.
- Scott, C.A.**, J.M. Banister. 2008. The dilemma of water management “regionalization” in Mexico under centralized resource allocation. *International Journal of Water Resources Development* 24(1): 61-74, DOI: 10.1080/07900620701723083.
- McCartney, M., **C.A. Scott**, J.H.J. Ensink, B.B. Jiang, T.W. Biggs. 2008. Salinity implications of wastewater irrigation in the Musi River catchment, India. *Ceylon Journal of Science* 37 (1): 49-59.
- Scott, C.A.**, F. Flores-López, J.R. Gastélum. 2007. Appropriation of Río San Juan water by Monterrey city, Mexico: implications for agriculture and basin water sharing. In *Special issue “Transfer of Water from Irrigation to Urban Uses: Lessons from Case Studies,” Paddy & Water Environment*. 5(4): 253-262, DOI 10.1007/s10333-007-0089-3.
- Biggs, T.W., **C.A. Scott**, B. Rajagopalan, H.N. Turrall. 2007. Trends in solar radiation due to clouds and aerosols, southern India, 1952-1997. *International Journal of Climatology* 27(11): 1505-1518.
- Biggs, T.W., P.S. Thenkabail, M.K. Gumma, **C.A. Scott**, G.R. Parthasaradhi, H. Turrall. 2006. Irrigated area mapping in heterogeneous landscapes with MODIS time series, ground truth and census data, Krishna Basin, India. *International Journal of Remote Sensing* 27(19): 4245-4266, DOI 10.1080/01431160600851801.

- Ahmad, M., T.W. Biggs, H. Turrall, **C.A. Scott**. 2006. Application of SEBAL approach and MODIS time-series to map vegetation water use patterns in the data scarce Krishna river basin of India. *Water Science & Technology* 53(10): 83-90.
- Scott, C.A.** and T. Shah. 2004. Groundwater overdraft reduction through agricultural energy policy: insights from India and Mexico. *International Journal of Water Resources Development* 20(2): 149-164.
- Joshi, P.K., V. Pangare, B. Shiferaw, S.P. Wani, J. Bouma, **C.A. Scott**. 2004. Watershed development in India: synthesis of past experiences and needs for future research. *Indian Journal of Agricultural Economics* 59(3): 303-320.
- Scott, C.A.**, W.G.M. Bastiaanssen, M. Ahmad. 2003. Mapping root zone soil moisture using remotely sensed optical imagery. *Journal of Irrigation & Drainage Engineering* 129(5): 326-335.
- Scott, C.A.**, H. El-Naser, R.E. Hagan, A. Hijazi. 2003. Facing water scarcity in Jordan: reuse, demand reduction, energy and transboundary approaches to assure future water supplies. *Water International* 28(2): 209-216.
- Scott, C.A.**, P. Silva-Ochoa. 2001. Collective action for water harvesting irrigation in the Lerma-Chapala Basin, Mexico. *Water Policy* 3 (2001): 555-572.
- Scott, C.A.**, M.F. Walter, G.N. Nagle, M.T. Walter, N.V. Sierra, E.S. Brooks. 2001. Residual phosphorus in runoff from successional forest on abandoned agricultural land: 1. biogeochemical and hydrological processes. *Biogeochemistry* 55(3): 293-309.
- Scott, C.A.**, M.F. Walter. 2001. Residual phosphorus in runoff from successional forest on abandoned agricultural land: 2. hydrological and soluble reactive P budgets. *Biogeochemistry* 55(3): 311-325.
- Scott, C.A.**, K.W. Weiler. 2001. Modeling soluble phosphorus desorption kinetics in tile drainage. *ASCE Journal of Irrigation and Drainage Engineering* 127(2): 70-76.
- Walter, M.T., E.S. Brooks, M.F. Walter, T.S. Steenhuis, **C.A. Scott**, J. Boll. 2001. Evaluation of soluble phosphorus loading from manure-applied fields under various spreading strategies. *Journal of Soil and Water Conservation* 56(4): 329-335.
- Walter, M.T., J.Y. Parlange, M.F. Walter, X. Xin, **C.A. Scott**. 2001. Modeling pollutant release from a surface source during rainfall-runoff. *Journal of Environmental Quality* 30(1): 151-159.
- Barker, R., **C.A. Scott**, C. de Fraiture, U. Amarasinghe. 2000. Global water shortages and the challenge facing Mexico. *Intl. Journal of Water Resources Development* 16(4): 525-542.
- Scott, C.A.** 2000. How "participatory" is integrated water resources management? In N. Faruqui and O. Al-Jayyousi (eds.) Reflection on the World Water Vision by the 'Next Generation of Water Leaders' *Water International* 25(2): 303-311.
- Weiler, K.R., M.T. Walter, M.F. Walter, E.S. Brooks, **C.A. Scott**. 2000. Seasonal risk analysis for flood plains in the Delaware River basin. *Journal of Water Resources Planning and Management*. 126(5): 320-329.
- Scott, C.A.**, M.F. Walter, E.S. Brooks, J. Boll, M.B. Hes, M.D. Merrill. 1998. Impacts of historical changes in land use and dairy herds on water quality in the Catskills Mountains. *Journal of Environmental Quality* 27: 1410-1417.
- Scott, C.A.** 1998. Comment on 'Design for an inexpensive continuous digital output water level recorder' by S. Reedyk *et al.* (Paper 97WR00678). *Water Resources Research* 34(9): 2419-2421.
- Scott, C.A.**, L.D. Geohring, M.F. Walter. 1998. Water quality impacts of tile drains in shallow, sloping, structured soils as affected by manure application. *Applied Engineering in Agriculture* 14(6): 599-603.

**Scott, C.A.**, M.F. Walter. 1993. Local knowledge and conventional soil science approaches to erosional processes in the Shivalik-Himalaya. *Mountain Research & Development* 13(1): 61-72.

#### PUBLICATIONS - Books/Edited Volumes

**Scott, C.A.**, P. Silva-Ochoa. 2010. Collective action for sustainable water harvesting irrigation. In Resources, Rights, and Cooperation: A Sourcebook on Property Rights and Collective Action for Sustainable Development. International Food Policy Research Institute, Washington, DC. pp. 80-83.

**Scott, C.A.** 2010. Groundwater. Encyclopedia of Geography. SAGE Publications, Thousand Oaks, California, <[http://www.sage-ereference.com/geography/Article\\_n548.html](http://www.sage-ereference.com/geography/Article_n548.html)>.

Drechsel, P., **C.A. Scott**, L. Raschid, M. Redwood, A. Bahri (eds.). 2010. Wastewater Irrigation and Health: Assessing and Mitigating Risks in Low-Income Countries. Earthscan, London. *Co-author of chapters in this volume:*

- Qadir, M., **C.A. Scott**. Biophysical trade-offs of wastewater use, pp. 101-126.
- **Scott, C.A.**, P. Drechsel, A. Bahri, D. Mara, M. Redwood, L. Raschid-Sally, B. Jiménez. Wastewater irrigation and health: challenges and outlook for mitigating risks in low-income countries, pp. 381-394.

Gerba, C.F., **C.A. Scott**. 2008. Animal and human waste as vehicles for cross-contamination of imported foods. In M. Doyle and M.C. Erickson (eds.) Safety of Imported Foods: Microbiological Issues and Challenges. American Society of Microbiology Press, Washington, DC, pp. 113-138.

Shah, T., **C.A. Scott**, J. Berkoff, A. Kishore, A. Sharma. 2007. Energy-irrigation nexus in South Asia: Pricing versus rationing as practical tool for efficient resource allocation. In F. Molle and J. Berkoff (eds.) Irrigation Water Pricing: The Gap Between Theory and Practice. CAB International, Wallingford, pp. 208-232.

Shah, T., **C.A. Scott**, A. Kishore, A. Sharma. 2007. Energy-irrigation nexus in South Asia: improving groundwater conservation and power sector viability. In M. Giordano and K.G. Villholth (eds.) The Agricultural Groundwater Revolution: Opportunities and Threats to Development. CAB International, Wallingford, pp. 211-242.

Buechler, S., **C.A. Scott**. 2006. Contributors to Chapter 4 'Water Scarcity, Risk and Vulnerability'. The 2006 Human Development Report - Beyond Scarcity: Power, Poverty and the Global Water Crisis. UN Development Program, New York, pp 151-152.

Sinha, S., B.R. Sharma, **C.A. Scott**. 2006. Understanding and managing the water-energy nexus: moving beyond the energy debate. In B.R. Sharma, K.G. Villholth, K.D. Sharma (eds.) Groundwater Research and Management: Integrating Science into Management Decisions. International Water Management Institute, Colombo, Sri Lanka, pp. 242-257.

**Scott, C.A.** 2005. Investing in the reuse of treated wastewater. Investment Note 5.3. Shaping the Future of Water for Agriculture: A Sourcebook for Investment in Agricultural Water Management. World Bank, Washington, DC, pp. 185-189.

Sivamohan, M.V.K., **C.A. Scott**. 2005. Coalition-building for participatory irrigation management under changing water resource trends: reflections on reforms in Andhra Pradesh, India. In G.P. Shivakoti, D.L. Vermillion, W.F. Lam, E. Ostrom, U. Pradhan, R. Yoder (eds.) Asian Irrigation in Transition: Responding to Challenges. Sage Publications, New Delhi, pp. 390-408.

- Sharma, B.R., J.S. Samra, C.A. Scott, S.P. Wani (eds.) 2005. Watershed Management Challenges: Improving Productivity, Resources, and Livelihoods. International Water Management Institute, New Delhi, 336 p. *Co-author of chapters in this volume:*
- Sharma, B.R., C.A. Scott. Watershed management challenges: introduction and overview, pp. 1-21.
  - Sakthivadivel, R., C.A. Scott. Upstream-downstream complementarities and tradeoffs: opportunities and constraints in watershed development in water scarce regions, pp. 173-185.
  - Pant, D, C.A. Scott. Forest-watershed-irrigation linkages: policy support for integrated management, pp. 258-268.
- Scott, C.A., N.I. Faruqui, L. Raschid-Sally (eds.) 2004. Wastewater Use in Irrigated Agriculture: Confronting the Livelihood and Environmental Realities. CAB International, Wallingford, 193 p. *Co-author of chapters in this volume:*
- Scott, C.A., N.I. Faruqui, L. Raschid-Sally. Wastewater use in irrigated agriculture: management challenges in developing countries, pp. 1-10.
  - Silva-Ochoa, P., C.A. Scott. Treatment plant effects on wastewater irrigation benefits: revisiting a case study in the Guanajuato river basin, Mexico, pp. 145-152.
  - Faruqui, N.I., C.A. Scott, L. Raschid-Sally. Confronting the realities of wastewater use in irrigated agriculture: lessons learned and recommendations, pp. 173-185.
- Scott, C.A., T. Shah, S.J. Buechler, P. Silva-Ochoa. 2004. La fijación de precios y el suministro de energía para el manejo de la demanda de agua subterránea: enseñanzas de la agricultura mexicana. In C. Tortajada, V. Guerrero, R. Sandoval (eds). Hacia una Gestión Integral del Agua en México: Retos y Alternativas. Porrúa Editores, Mexico City, pp. 201-228.
- Wester, P., C.A. Scott, M. Burton. 2004. River basin closure and institutional change in Mexico's Lerma-Chapala Basin. In M. Svendsen (ed.) Irrigation and River Basin Management: Options for Governance and Institutions. CABI Publishing, Wallingford, pp. 125-144.
- Scott, C.A. 2003. Recycling and reuse of 'derivative water' under conditions of scarcity and competition. In C. Figueres, C. Tortajada, J. Rockstrom (eds.) Rethinking Water Management: Innovative Approaches to Contemporary Issues. Earthscan, London, pp. 102-119.
- Scott, C.A. 2003. Sustainable groundwater management: have property rights reforms helped in Mexico? In Groundwater Governance in Asia: The Challenge of Taming a Colossal Anarchy. IWMI Contribution to III World Water Forum, Kyoto for the session on "Water, Food and Environment". IWMI-Tata Water Policy Program, Anand, p. 18.
- Scott, C.A., P. Silva-Ochoa, V. Florencio-Cruz, P. Wester. 2001. Competition for water in the Lerma-Chapala basin. In A. Hansen and M. van Afferden (eds.) The Lerma-Chapala Watershed: Evaluation and Management. Kluwer Academic/Plenum Publishers, New York, pp. 291-323.
- Scott, C.A., C. Garcés R. 2001. Conjunctive management of surface water and groundwater in the middle Río Lerma Basin, Mexico. In A.K. Biswas and C. Tortajada (eds.) Integrated River Basin Management. Oxford University Press, New Delhi, pp. 176-198.
- Scott, C.A. 1994. Facing environmental degradation in the Aravalli Hills, India. In A.C. Millington and K. Pye (eds.). Environmental Change in Drylands: Biogeographical and Geomorphological Perspectives. Wiley, Chichester, pp. 413-426.
- Scott, C.A. 1994. Streamside pumpwell, Rajasthan, India. In R. Yoder (ed.), Designing Irrigation Structures for Mountainous Environments. International Irrigation Management Institute. Colombo, Sri Lanka, pp. 78-82.

- Scott, C.A.** 1994. Discharge regulator for pressurized systems in Haryana, India. In R. Yoder (ed.), Designing Irrigation Structures for Mountainous Environments. International Irrigation Management Institute. Colombo, Sri Lanka, pp. 175-179.
- Sivamohan, M.V.K., **C.A. Scott** (eds.) 1994. India: Irrigation Management Partnerships. Booklinks. Hyderabad, India, 435 p. *Co-author of chapters in this volume:*
- Sivamohan, M.V.K., **C.A. Scott**. Moving towards the concept of “partnerships” in irrigation management in India, pp. 1-13.
  - **C.A. Scott**, M.F. Walter. Who participates in whose irrigation management? A case of government involvement in farmer-managed irrigation in the Shivalik Hills, pp. 253-288.
- Sivamohan, M.V.K, **C.A. Scott**, M.F. Walter. 1993. Vetiver grass for soil and water conservation: prospects and problems. In D. Pimentel (ed.), World Soil Erosion and Conservation. Cambridge University Press, Cambridge, pp. 293-309.

#### PUBLICATIONS – Research Reports

- Jones, J. (with significant contribution from G.M. Garfin, A.J. Ray, **C.A. Scott**, R.G. Varady, M. Wilder). 2008. Water and Border Area Climate Change: An Introduction (issued in translation as: Agua y Cambio Climático en el Área Fronteriza: Una Introducción). *Special Report for the XXVI Border Governors Conference*. California Department of Water Resources, Sacramento, California.
- Biggs, T.W., A. Gaur, **C.A. Scott**, P. Thenkabail, P.G. Rao, M.K. Gumma, S. Acharya, and H. Turrall. 2007. Closing of the Krishna basin: irrigation, streamflow depletion and macroscale hydrology. *IWMI Research Report No. 111*. International Water Management Institute, Colombo, Sri Lanka.
- Amarasinghe, U., B. Sharma, N. Aloysius, **C.A. Scott**, V. Smakhtin, C. de Fraiture. 2005. Spatial variation in water supply and demand across the river basins of India. *IWMI Research Report No. 83*. International Water Management Institute, Colombo, Sri Lanka.
- Shah, T., **C.A. Scott**, A. Kishore, A. Sharma. 2003. Energy-irrigation nexus in South Asia: improving groundwater conservation and power sector viability. *IWMI Research Report No. 70*. International Water Management Institute, Colombo, Sri Lanka.
- Scott, C.A.**, J.A. Zarazúa, G. Levine. 2000. Urban-wastewater reuse for crop production in the water-short Guanajuato River Basin, Mexico. *IWMI Research Report No. 41*. International Water Management Institute. Colombo, Sri Lanka.
- Scott, C.A.**, P. Wester, B. Marañón-Pimentel (eds.). 2000. Asignación, productividad y manejo de recursos hídricos en cuencas. (*Allocation, productivity and management of basin water resources*). *Serie Latinoamericana No. 20*. International Water Management Institute. Mexico D.F., Mexico.
- Flores-López, F.J., **C.A. Scott**. 2000. Superficie agrícola estimada mediante análisis de imágenes de satélite en Guanajuato, México. (*Estimating agricultural area using satellite imagery in Guanajuato, Mexico*). *Serie Latinoamericana No. 15*. International Water Management Institute. Mexico D.F., Mexico.
- Flores-López, F.J., **C.A. Scott**. 1999. Simulación de alternativas del manejo del agua en la cuenca del río San Juan, México. (*Simulation of water management alternatives in the Rio San Juan Basin, Mexico*). *Serie Latinoamericana No. 9*. International Water Management Institute. Mexico D.F., Mexico.

McKinney, D.C., X. Cai, M.W. Rosegrant, C. Ringler, **C.A. Scott**. 1999. Modeling water resources management at the basin level: review and future directions. *System-wide Initiative on Water Management Paper No. 6*. International Water Mgmt. Institute, Colombo, Sri Lanka.

#### PUBLICATIONS – Work in Progress

**Scott, C.A.**, S. Megdal, L.A. Oroz, J. Callegary, P. Vandervoet. Submitted, in review. Assessment of United States – Mexico transboundary aquifers facing climate change and growth in urban water demand. *Climate Research*.

**Scott, C.A.**, N. Pineda Pablos. Submitted, in review. Innovating resource regimes: water, wastewater, and the institutional dynamics of urban hydraulic reach in northwest Mexico. *Geoforum*.

Browning-Aiken, A., K.J. Ormerod, **C.A. Scott**. Submitted, in review. Testing the climate for non-potable water reuse: opportunities and challenges in water-scarce urban growth corridors. *Journal of Environmental Policy & Planning*.

Sugg, Z.P., M.S. Moran, **C.A. Scott**, W. Van Leeuwen, G. Nearing, C. Holifield Collins, P. Heilman, R. Bryant. Submitted, in review. Hydrologic response to pulse storm events during a native to exotic transition in a semiarid grassland. *Agricultural and Forest Meteorology*.

Eden, S., **C.A. Scott**, M.L. Lamberton, S.B. Megdal, R.G. Varady. Submitted, in review. Energy-water interdependencies and the Central Arizona Project. Invited contribution by D. Kenney and R. Wilkinson (eds.) The Water-Energy Nexus in the American West, Edward Elgar, Cheltenham, UK.

**Scott, C.A.**, S.A. Pierce, A.L. Jones, M.J. Pasqualetti, B.E. Montz, J.H. Hoover. In preparation. Energy and water resource coupling under global change. *For submission to Energy Policy*.

Hoover, J.H., **C.A. Scott**. In preparation. Electrical energy for water and wastewater services in Arizona: Assessing the implications of urban growth. *Journal of American Water Resources Association*.

**Scott, C.A.**, P.F. Robbins, A.C. Comrie. In preparation. Post-paradigmatic geographies of health: Human-pathogen interactions in changing environments. Abstract accepted, manuscript invited for *Annals of the Association of American Geographers 2012 Special Issue on Health*.

Ormerod, K.J., **C.A. Scott**. In preparation. Highly treated wastewater to supplement potable water supplies: public trust in the next water frontier. *For submission to Society and Natural Resources*.

Campbell, A. and C.A. Scott. In preparation. Water reuse policy: A decade of residential reclaimed water use in the Southwest United States. *For submission to Water Policy*.

**Scott, C.A.** In preparation. Climate, energy, and population drivers of aquifer depletion. *For submission to Water Resources Research*.

McKay, J., E. Lopez Gunn, **C.A. Scott**, G. Keremane, Z. Wu, D. Eaton, T. Harter. In preparation. Groundwater management plans: elusive goals for equity and environmental sustainability. *For submission to Water Resources Research*

Halper, E., **C.A. Scott**, S. Yool. In preparation. Urban heat island, vegetation, and residential water use in Tucson, Arizona: a multi-scale investigation. *For submission to Geographical Analysis*.

- Garfin, G.M., **C.A. Scott**, A.R. Coles. In preparation. Weather, climate, and water: an assessment of vulnerability and communication on the U.S.-Mexico border. *For submission to Weather, Climate, and Society*.
- Scott, C.A.** J.P. Venot, F. Molle. In preparation. Water, land, and development in comparative Arizona – Israeli – Palestinian perspective. Invited contribution by S.B. Megdal, R.G. Varady, S. Eden (eds.) Aridity, scarcity and shared water resources: Arizona, Israeli and Palestinian perspectives on solving water management challenges. UNESCO, Paris.
- Scott, C.A.** In preparation. The water-energy nexus in a global context. *For submission to International Journal of Water Resources Development*.
- Scott, C.A.**, A.C. Comrie, S. Yool, E. Halper. In preparation. The evolution of urban heat island and effects on potential evapotranspiration in Tucson, Arizona. *For submission to Bulletin of the American Meteorological Society*.
- Scott, C.A.**, K.J. Ormerod, A. Browning-Aiken. In preparation. Water reuse, scarcity and growth: Public perceptions of risk and amenity. *For submission to Growth and Change*.
- Diener, S.W., J.H.J. Ensink, F.P. Amerasinghe, **C.A. Scott**. In preparation. Application of a biotic index for rapid water quality assessment in the highly polluted Musi River in India. *For submission to Journal of Environmental Quality*.
- Scott, C.A.**, K. Lansley, D. Kang. In preparation. Resilience of conjunctive water supply and reuse systems with distributed treatment for high-growth, water-scarce regions. *For submission to Journal of Water Resources Planning & Management*.
- Celio, M., **C.A. Scott**. In preparation. Social inequalities and adaptation to climate change: lessons from irrigated agriculture in Andhra Pradesh, South India. *For submission to Regional Environmental Change*.
- Van Rooijen, D., **C.A. Scott**. In preparation. Institutions for wastewater management: Accra, Addis Ababa, and Hyderabad three-city comparative assessment. *For submission to \_\_\_*.

#### OTHER PUBLICATIONS – Conference Proceedings

- Ormerod, K.J., **C.A. Scott**, A. Browning-Aiken. 2010. Public attitudes toward expanding reclaimed water use in Arizona. In Proceedings of *14th Annual Water Reuse & Desalination Research Conference*, Tampa, FL, May 24-25.
- Browning-Aiken, A., **Scott, C.A.** 2009. Drought and adaptive water-resources management in southern Arizona. In Proceedings of the *Arizona Hydrological Society & American Institute of Hydrology*, Scottsdale, AZ, Aug. 31 – Sept. 2.
- Scott, C.A.**, E.B. Halper, S.R. Yool, A. Comrie. 2009. The evolution of urban heat island and water demand. In Proceedings of the *89th Annual Meeting of the American Meteorological Society, Eighth Symposium on the Urban Environment*, Phoenix, AZ, January 11 – 15, 2009.
- Coles, A.R., **C.A. Scott**, G.M. Garfin. 2009. Weather, climate, and water: an assessment of risk, vulnerability, and communication on the U.S.-Mexico border. In Proceedings of the *89th Annual Meeting of the American Meteorological Society*, Phoenix, AZ, January 11 – 15, 2009.
- Garfin, G., **C.A. Scott**, A. Coles, A. Ray, D. Gochis, L. Farfan, T. Cavazos, K. Sammler, R. Varady, M. Wilder, N. Pineda, M. Montero, A. Browning-Aiken. 2009. Information Flows and Policy: Climate, Cyclones, and Adaptive Water-Resources Management at the US-Mexico Border. In Proceedings of the *89th Annual Meeting of the American Meteorological Society*, Phoenix, AZ, January 11 – 15, 2009.

- Scott, C.A.**, Megdal, S., Oroz, L.A., Mexía, M., Ramos, H. 2008. Building shared vision: assessment of transboundary aquifers along the United States – Mexico border. In *Proceedings of International Conference on Water Scarcity, Global Changes, and Groundwater Management Responses*, University of California – Irvine, UNESCO, USGS, Irvine, CA, December 1-5, 2008.
- Hoover, J., **C.A. Scott**. 2008. Water, electric power and growth in southern Arizona. In *Proceedings of American Institute of Professional Geologists and Arizona Hydrological Society Symposium “Changing Waterscapes and Water Ethics for the 21<sup>st</sup> Century.”* Flagstaff, AZ, September 20 – 24, 2008.
- Browning-Aiken, A., K.J. Ormerod, **C.A. Scott**. 2008. Testing the climate for non-potable water reuse: opportunities and challenges in southern Arizona. In *Proceedings of American Institute of Professional Geologists and Arizona Hydrological Society Symposium “Changing Waterscapes and Water Ethics for the 21<sup>st</sup> Century.”* Flagstaff, AZ, September 20 – 24, 2008.
- Ela, W., C. Graf, T. Poulson, J. Baygents, J. Theron, P. Fox, **C.A. Scott**. 2008. Salinity management and desalination technology for brackish water resources in the arid West. Summary report of workshop on “Improving Salinity Management and Desalination Technology for Brackish Resources in the Arid West” Sponsored by Arizona Water Institute, Bureau of Reclamation. June, 2008.
- Pepper, I., R. Arnold, G. Bayraksan, C. Choi, K. Lansey, **C.A. Scott**. 2008. Conjunctive decentralized dual water distribution systems. Paper WDSA2008\_117, *10<sup>th</sup> Water Distribution System Analysis Conference*, Kruger Park, South Africa, August 17–20, 2008.
- Scott, C.A.**, R.G. Varady, A. Browning-Aiken, T.W. Sprouse. 2007. Water and energy management challenges on the Arizona-Mexico border. In *Proceedings of Southwest Hydrology and Arizona Hydrological Society Regional Water Symposium “Sustainable Water, Unlimited Growth, Quality of Life: Can We Have It All?”* Tucson, Arizona, August 29 – September 1, 2007.
- Scott, C.A.**, P. Wester, C. Garcés R. 1998. Integración vertical de funciones transferidas para el manejo de las cuencas: observaciones conceptuales. (Vertical integration of functions transferred to users in basin management: conceptual observations). In *Memoria del III Seminario Internacional sobre Transferencia de Sistemas de Riego*. Gómez Palacio, Dgo., México. Sept. 2-4, 1998. Colegio de Postgraduados, Montecillo, México. pp. 185-194.
- Scott, C.A.**, M.F. Walter, B.J. Dibelier, J.R. Frankenberger. 1996. Hydrologic land use classification with thematic and spatial inputs. *Proceedings Watershed Restoration and Management Symposium*, Syracuse NY, July 14-17, 1996. American Water Resources Association, Herndon Virginia. pp. 73-82.
- Scott, C.A.**, G. Levine. 1991. Reconversion of wasteland into agricultural land: workshop report. *Sustainable Development and Biodiversity: Conflicts and Complementarities. Proceedings from a Symposium and Workshops*, Cornell University, Ithaca, New York, September 19-22, 1991. pp. 56-59.

#### OTHER PUBLICATIONS – Working Papers

- Coles, A.R., **C.A. Scott**, G.M. Garfin. 2010. Communicating risk and vulnerability: weather, climate, and water on the U.S.-Mexico border. NOAA Climate Program Office, white paper.

- Bouma, J.A., C.A. Scott. 2006. The possibilities for dryland crop yield improvement in India's semi-arid regions – observations from the field. *Comprehensive Assessment of Water Management in Agriculture Discussion Paper No. 3*. International Water Management Institute, Colombo, Sri Lanka.
- Sakthivadivel, R., K. Bhattacharya, C.A. Scott. 2004. Biophysical and institutional factors in watershed management: a comparative analysis of four pilot watershed projects in India's tribal belt. *Working Paper No. 88*. International Water Management Institute, Colombo, Sri Lanka.
- Narayana, P., C.A. Scott. 2004. Effectiveness of legislative controls on groundwater extraction. Discussion Paper, IWMI-TATA Water Policy Programme 3rd Partners Meet, IWMI-TATA Water Policy Program, Anand, India.
- Sivamohan, M.V.K., C.A. Scott. 1992. The command area development programme in India: a policy perspective. *Irrigation Management Network Paper 20*, Overseas Development Institute and International Irrigation Management Institute, London, UK, October.
- Brown, N., J. Olander, T. Endreny, R. Wray, C.A. Scott, P. Mancarella. 1991. Analysis of agroforestry at Plan Sierra, Dominican Republic. In L.E. Buck and J.P. Lassoie (eds.). *Agroforestry Planning and Evaluation in Marginal Areas: Exercises in Program Design*. *Natural Resources Research and Extension Series No. 37*, Department of Natural Resources, Cornell University, Ithaca, NY, December.
- Scott, C.A., J.R. Gupta. 1990. Forest resource conservation and development plan: Shivalik Hills. *Sustainable Forest Management Working Paper Series No. 6*, Ford Foundation, New Delhi.

#### OTHER PUBLICATIONS – Book Reviews and Other Articles

- Scott, C.A., M. Akhter. 2010. Book Review: Taming the Anarchy: Groundwater Governance in South Asia (by T. Shah, 2009, RFF Press). *Human Ecology* 38(4): 581. DOI 10.1007/s10745-010-9310-x.
- Browning-Aiken, A., C.A. Scott, R. Varady, S. Megdal. 2010. Spanning Transboundary Waters in North America (Atravesando las aguas transfronterizas en América del Norte, Traverser les eaux transfrontières en Amérique du Nord). *Newsletter of International Network of Basin Organisations*.
- Varady, R.G., C.A. Scott, G.M. Garfin, M. Wilder. 2009. Adaptation to climate change in Latin America and Caribbean: the water sector/ Adaptación al cambio climático en América Latina y el Caribe: el sector hídrico. *Inter-American Institute for Global Change Research Newsletter*, Issue No. 1/2009: 9-11.
- Scott, C.A., P. Drechsel, C. Moe (drafted on behalf of 30 experts). 2008. The Accra Consensus: agenda for research, capacity building & action on the safe use of wastewater and excreta in agriculture. [www.iwmi.cgiar.org/Research\\_Impacts/Research\\_Themes/Theme\\_3/Accra\\_Consensus.aspx](http://www.iwmi.cgiar.org/Research_Impacts/Research_Themes/Theme_3/Accra_Consensus.aspx)
- Scott, C.A. 2008. Data management and exchange: challenges in a multi-national and multi-disciplinary environment/ El manejo y el intercambio de datos: desafíos en un ambiente multinacional y multidisciplinario. *Inter-American Institute for Global Change Research Newsletter*, Issue No. 1/2008: 25-26.
- Scott, C.A., R.G. Varady, A. Browning-Aiken, T.W. Sprouse. 2007. Linking water and energy along the Arizona/Sonora border. *Southwest Hydrology* 6 (5): 26-27,31.

- Banister, J.M., C.A. **Scott**. 2007. Descentralización de los recursos hidráulicos de México: por qué tiene importancia la historia (Decentralizing Mexico's water resources: why history matters). *Sonárida* 12(23): 20-23.
- Puskur, R., J. Bouma, C.A. **Scott**. 2004. Sustainable livestock production in semi-arid watersheds. *Economic and Political Weekly* XXXIX (31): 3477-3483.
- Shah, T., C.A. **Scott**, S. Buechler. 2004. A decade of water sector reforms in Mexico: lessons for India's new water policy. *Economic and Political Weekly* XXXIX (4): 361-370.
- Scott**, C.A., O. Al-Jayyousi. 2003. Conference Report: Water management in the future: An intergenerational dialogue, Kyoto, Japan, March 2003. *Water International* 28(4): 544-546.
- Scott**, C.A. 2001. Book Review: Water Management in Islam (by N.I. Faruqui, A.K. Biswas, M.J. Bino, eds.) *International Journal of Water Resources Development* 17(4): 647-649.
- Scott**, C.A., C. Richter. 1991. Negotiated conservation: experiences from India and The Dominican Republic. *Camel Breeder News*, Spring 1991: 6-7.
- Scott**, C.A. 1989. A pilgrimage to Gangotri: Himalayan source of the River Ganga. *Sanskriti* 2 (1&2): 23-90.
- Scott**, C.A. 1991. Ecological change and community-state collaboration for rehabilitation: the case of the Shivalik hills. *Quadrangle* LXXXVVI (2): 6-7.
- Scott**, C.A. 1988. Medbundi: water conservation in arid zones – a living tradition. *Indian Architect and Builder* 2(4): 54-57.
- Joshi, A., C.A. **Scott**, N. Khetan. 1987. *Mitti Jal Ko Bachao* (Hindi, *Save Soil and Water – farmers' field manual*). *Seva Mandir Prakashan*, Udaipur, India, 20 p.

#### SELECTED SCHOLARLY PRESENTATIONS AND ACTIVITIES IN PROFESSIONAL MEETINGS (+ = invited)

##### Colloquia

- 2010 + Wastewater irrigation and health in low-income countries, *ADVANCE Data Blitz on Infectious Disease, University of Arizona, Bio 5, April 26, 2010.*
- 2009 + Urban heat island and residential outdoor water demand. *Water Resources Research Center Seminar Series, University of Arizona, October 21, 2009.*
- 2009 + Geography and international development. *Departmental Colloquium (Geography & Regional Development) "Life After Graduate School" panel, University of Arizona, January 16, 2009.*
- 2008 + The United States – Mexico Transboundary Aquifer Assessment Program. *Water Resources Research Center Seminar Series, University of Arizona, December 8, 2008.*
- 2007 + The water-energy nexus in Mexico: groundwater sustainability along the border with the United States. *Departmental Seminar Series (Hydrology & Water Resources), University of Arizona, February 21, 2007.*
- 2007 + Wastewater use in irrigated agriculture: closing the rural-urban-rural water loop. *Departmental Seminar Series (Soil, Water & Environmental Science), University of Arizona, February 19, 2007.*

##### Seminars

- 2010 + Science, policy, and non-governmental organizations, *Making the Connection between Science and Decision Making (GEOG 696J) seminar, University of Arizona, Sept. 29, 2010.*

- 2010 + Arizona – Sonora transboundary aquifer assessment, *University of Arizona Maricopa County Cooperative Extension*, May 27, 2010.
- 2009 + U.S. – Mexico Border Water Policy: The Transboundary Aquifer Assessment Program Case, *Arizona Water Policy (SWES 596B) seminar, University of Arizona*, March 6, 2009.
- 2007 + Irrigated area mapping in heterogeneous landscapes with MODIS time series, ground truth and census data, Krishna Basin, India. *Remote Sensing for the Study of Planet Earth (OPTI 590) seminar, University of Arizona*, April 26, 2007.
- 2007 + Conjunctive management of surface and groundwater. *Arizona Water Policy (SWES 596B) seminar, University of Arizona*, January 19, 2007.
- 2006 + Mapping root zone soil moisture using remotely sensed optical imagery. *Physical Geography (GEOG 696C) seminar, University of Arizona*, September 21, 2006.

### Symposia

- 2010 + Keynote speaker, *Northeast Water Resources Symposium, Fortaleza, Brazil*, November 16-20, 2010.
- 2010 + Session chair: Arizona-Sonora Transboundary Aquifer Assessment, Management, and Policy. *Arizona Hydrological Society – International Association of Hydrogeologists Symposium, Tucson, Arizona*, September 1-4, 2010.
- 2010 Host, *Water Reuse and Growth Workshop (in association with 14<sup>th</sup> Annual Water Reuse and Desalination Research Conference)*, Tampa, FL, May 26, 2010.
- 2010 Vulnerabilidad y resiliencia al cambio climático, variabilidad, y crecimiento urbano en Tucson, Arizona (Vulnerability and resilience to climate change, variability, and growth in Tucson, Arizona). *IV Taller Binacional - Agua y Clima: Gestión Urbana de Agua, Cambio Climático y Estrategias Adaptativas para la Región Sonora y Arizona (IV Binational Water and Climate Workshop – Urban Water Management, Climate Change, and Adaptive Strategies for the Arizona-Sonora Region)*, Hermosillo, Son., May 7, 2010.
- 2010 Optimization of conjunctive water supply and reuse systems with distributed treatment for high-growth, water-scarce regions. National Science Foundation, Emerging Frontiers in Research Innovation, Arlington, VA, March 18-19, 2010.
- 2009 Co-host, *Arizona-Sonora Transboundary Aquifer Assessment Workshop, Tucson, AZ*, November 3-4, 2009.
- 2009 Fortaleciendo el diálogo entre científicos-investigadores y gerentes-tomadores de decision (Strengthening dialogue between scientist-researchers and manager-decisionmakers). *III Taller sobre Variabilidad y Cambio Climático en la Costa Oeste de América del Norte (III Workshop on Climate Change and Variability in Western North America)*, Puerto Peñasco, Mexico, October 2, 2009.
- 2009 + Physical environments in Arizona, Israel, and Palestine: Landscape, physiography, climate, and current water availability. *Symposium on Water Policy in Semi-Arid Regions: Lessons from Arizona, Israel, and Palestine, Tucson, AZ*, August 31 – September 2, 2009.
- 2009 Implicaciones de la sobre-explotación de aguas subterráneas para la adaptación y mitigación del cambio climático (Groundwater depletion implications for adaptation and mitigation of climate change). *II Taller sobre Variabilidad y Cambio Climático en la Costa Oeste de América del Norte (II Workshop on Climate Change and Variability in Western North America)*, Instituto Mexicano de Tecnología del Agua, Cuernavaca, Mexico, July 22, 2009.

- 2009 (Co-host and lead, research team presentation), *Researcher-Managers Workshop on Water and Energy Sustainability with Rapid Growth in the Arizona-Sonora Border Region*, Arizona Water Institute, Tucson, AZ, June 1, 2009.
- 2009 Adapting to water scarcity and changing climate. *University of Arizona Environmental Summit*, April 22, 2009.
- 2009 + Panelist, *Integrated Water Resources Management, Best Practices for Stakeholder Engagement in Water Resources Planning*, Water Resources Research Center 2009 Annual Conference, University of Arizona, March 17, 2009.
- 2009 + Flujo de información a tomadores de decisión. *Dimensiones Humanas de Ciclones Tropicales* (Information flows to decision-makers. *Humans Dimensions of Tropical Cyclones*), organized by Centro de Ciencias de la Atmósfera, Universidad Nacional Autónoma de México, Acapulco, March 13, 2009.
- 2009 + The global commodification of wastewater. Panel on *New Trends in Regulation*, Symposium on *Water Governance: the Public-Private Debate*, organized by Unité Mixte Internationale (University of Arizona and Centre National de la Recherche Scientifique), University of Arizona, February 4, 2009.
- 2008 + Perceptions of wastewater: users and institutions for beneficial use. *Wastewater Irrigated Food: Consumer Health Risk Assessment, On-farm and Off-farm Options for Health Risk Mitigation, and Wastewater Governance in Low-income Countries*. Symposium organized by International Development Research Centre, International Water Management Inst., World Health Organization, Accra, Ghana, Oct. 6-9, 2008.
- 2008 + Session chair: Energy and Water Ethics. *American Institute of Professional Geologists and Arizona Hydrological Society Symposium "Changing Waterscapes and Water Ethics for the 21<sup>st</sup> Century."* Flagstaff, Arizona, September 20-24, 2008.
- 2008 Adaptive water resources management under climatic uncertainty in western North America (and member of workshop organizing committee). *Regional Climate Forum for Northwest Mexico and the Southwest United States* (Centro de Investigación Científica y de Educación Superior de Ensenada and NOAA), Ensenada, Baja California, April 10-11, 2008.
- 2007 + Water and energy management challenges on the Arizona-Mexico border. *Southwest Hydrology and Arizona Hydrological Society Regional Water Symposium*, Tucson, AZ, August 31, 2007.
- 2007 Session chair: Coupled water and energy demand in the Southwest and U.S.-Mexico border region. *Southwest Hydrology and Arizona Hydrological Society Regional Water Symposium*, Tucson, AZ, August 31, 2007.
- 2007 Energy boom and groundwater bust: Mexico's water-energy nexus with implications for the U.S. border region. *First Western Forum on Energy and Water Sustainability*, Bren School of Environmental Science & Management, Univ. of California, Santa Barbara, March 22, 2007.
- 1999 Remote Sensing Assessment of the Extent of Groundwater Irrigation in the Lerma-Chapala Basin, Mexico, *International Symposium on Integrated Water Management in Agriculture*, INIFAP and IMTA, Gómez Palacio, Mexico, June 16-18, 1999.
- 1999 + Conjunctive Management of Surface Water and Groundwater in the Middle Río Lerma Basin, Mexico, *International Workshop on Integrated River Basin Management in Latin America*, International Water Resources Association, Mexico City, April 26-28, 1999.

- 1999 Interactive, Real-time Simulation of Conjunctive Surface and Groundwater Management with Mexican Water Professionals. Hands-on module presented at training on *Integrated River Basin Management*, Third World Centre for Water Management, Mexico City, April 29, 1999.
- 1998 Integración Vertical de Funciones Transferidas para el Manejo Sostenible de las Cuencas: Observaciones Conceptuales, *III Seminario Internacional: Transferencia de Sistemas de Riego*, Colegio de Postgraduados, Torreón, Mexico, September 2-5, 1998.
- 1997 Tile Drain Phosphorus Export from Manure-Applied Land, *National Water Quality Watershed Project Symposium*, USDA and USEPA, Washington DC, Sept. 22-26, 1997.
- 1996 Hydrologic Land Use Classification with Thematic and Spatial Inputs, *Watershed Restoration and Management Symposium*, American Water Resources Association, Syracuse NY, July 14-17, 1996.
- 1992 Who Participates in Whose Irrigation Management? A Case of Government Involvement in Farmer-Managed Irrigation in the Shivalik Hills, *National Workshop on Farmers' Participation in the Management of Irrigation*, Administrative Staff College of India, Hyderabad, India, February 1992.
- 1992 Streamside Pumpwell and Discharge Regulator for Pressurized Systems, *Workshop on Irrigation Design for Hill/Mountain Regions*, International Irrigation Management Institute, Kathmandu, Nepal, January 1992.
- 1991 Workshop Report: Reconversion of Wasteland into Agricultural Land, *Sustainable Development and Biodiversity Symposium*, Cornell University, Ithaca, NY, Sept. 1991.
- 1988 The Depur-Dolpura-Shyampura Social Forestry Project, *Conference on Small Watershed Management*, Society for Promotion of Wasteland Development, New Delhi, India, November 1988.

### Conferences

- 2010 (Presented by S. Megdal) Institutional assessment of the transboundary Santa Cruz and San Pedro aquifers on the United States – Mexico border. *Transboundary Aquifers: Challenges and New Directions*. UNESCO, Paris, December 6-8, 2010.
- 2010 Wastewater irrigation and health: challenges and outlook for mitigating risks in low-income countries. *Water and Health: Where Science Meets Policy*. University of North Carolina – Chapel Hill, October 25-26, 2010.
- 2010 Assessing resilience of arid region riparian corridors: ecohydrology and decision-making in United States – Mexico transboundary watersheds;  
& Adaptive water management in the United States – Mexico border region: Agriculture and urban growth under climate change and variability, *Global Land Project – Open Science Meeting*, Arizona State University, Tempe, Arizona, October 17-19, 2010.
- 2010 + Session moderator: Energy Efficiency and Water Systems/ Eficiencia de Energía y Sistemas de Agua, and speaker “La escasez de energía y agua: impactos sobre la infraestructura, el crecimiento y el desarrollo económico en Arizona y Sonora (Energy and water scarcity: impacts on infrastructure, growth and economic development in Arizona and Sonora)” *Border Energy Forum XVII*. Chihuahua, Chih., Mexico, Sept. 29 – Oct. 1, 2010.
- 2010 + Session chair: Agricultural Groundwater and Energy Nexus; and Plenary session chair: Law and Legal Policy in Groundwater Governance. *Toward Sustainable Groundwater in Agriculture – An International Conference Linking Science and Policy*. Univ. California - Davis and the Water Education Foundation, San Francisco, June 15-17, 2010.

- 2010 + Groundwater overdraft in Mexico: climate, energy, and population drivers. *Toward Sustainable Groundwater in Agriculture – An International Conference Linking Science and Policy*. Univ. California - Davis and the Water Education Foundation, San Francisco, June 15-17, 2010.
- 2010 Assessing resilience in transboundary arid region riparian corridors: a social-ecological systems approach. In session Debating the Theory, Practice & Impact of Transfrontier Conservation II. *Association of American Geographers Annual Meeting*, Washington, DC, April 14-18, 2010.
- 2010 Session chair: Water, Energy, and Global Change (co-sponsored by Water Resources and Energy & Environment Specialty Groups). *Association of American Geographers Annual Meeting*, Washington, DC, April 14-18, 2010.
- 2009 (Presented by M. Wilder) Adapting across boundaries: knowledge, social learning and resilience in the U.S.-Mexico border region. *Earth Systems Governance Conference*, Amsterdam, December 3, 2009
- 2009 + Evaluación de acuíferos transfronterizos en la frontera Estados Unidos – México en el contexto de cambio climático y crecimiento de la demanda de agua en áreas urbanas (Assessment of United States - Mexico transboundary aquifers facing climate change and growth in urban water demand), VII Congreso Nacional de Aguas Subterráneas, *Asociación Geohidrológica Mexicana (VII National Congress on Groundwater, Mexican Geohydrological Association)*, San Carlos, Sonora, November 10-13, 2009.
- 2009 + Session co-organizer, Managing Agricultural Systems in a Non-stationary World, for “Climate, Water, and Land Cover Change in a Non-stationary World”, Sustainability of Semi-Arid Hydrology and Riparian Areas 9<sup>th</sup> Annual Meeting, Tucson, AZ, September 23-24, 2009.
- 2009 + Panelist, Energy and Water, Southwest Renewable Energy Conference: Integrating Policy with Technology to Bring Renewables to the Grid, Flagstaff, AZ, Sept. 11, 2009.
- 2009 (Presented by A. Browning-Aiken) Drought and adaptive water-resources management in southern Arizona, for “Managing Hydrologic Extremes”, *Arizona Hydrological Society & American Institute of Hydrology*, Scottsdale, AZ, August 30 – September 2, 2009.
- 2009 + Session panelist: *Agua, territorio, y medio ambiente: políticas públicas y participación ciudadana* (Water, land, and environment: public policy and citizen participation), *International Congress of Americanists*, Mexico City, July 21, 2009.
- 2009 + Rural vulnerability to water resources variability under climatic uncertainty in western North America, for session “The Water Wars: Water as a Commodity or as a Human Right”, *International Congress of Americanists*, Mexico City, July 23, 2009.
- 2009 Institutions and societal impacts of climate in the Arizona-Sonora portion of the U.S.-Mexico border region (poster by R.G. Varady, G. Garfin, M. Wilder, **C.A. Scott**, A. Browning-Aiken, B. Morehouse, N. Pineda, A. Coles, J. McEvoy, K. Sammler, A. Ray, D. Gochis, T. Cavazos, L. Farfan, R. Díaz), *Climate Change: Global Risks, Challenges and Decisions*, Copenhagen, Denmark, March 10-12, 2009.
- 2009 (Presented by M. Wilder) Institutions and societal impacts of climate in the Arizona-Sonora portion of the U.S.-Mexico border region (paper by R.G. Varady, M. Wilder, **C.A. Scott**, N. Pineda, B.J. Morehouse, and G. Garfin), *Open Meeting of the International Human Dimensions Program (IHDP)*, Bonn, Germany, April 26-30, 2009.
- 2009 Session chair: Water, Energy, and Global Change (co-sponsored by Water Resources and Energy & Environment Specialty Groups). *Association of American Geographers Annual Meeting*, Las Vegas, NV, March 22-27, 2009.
- 2009 Improving information flows to enhance drought and climate change resilience in

- northern Mexico (poster by G. Garfin A. Coles, J. McEvoy, K. Sammler, R. Varady, M. Wilder, **C.A. Scott**, T. Cavazos, A. Ray, D. Gochis, N. Pineda, L. Farfán, R. Díaz), *NOAA Climate Prediction and Applications Workshop*, March 24-27, 2009.
- 2009 The evolution of urban heat island and water demand. *American Meteorological Society 89th Annual Meeting*, Phoenix, AZ, January 11-15, 2009.
- 2008 Session chair: Adaptation and Mitigation under Climate Change and Uncertainty. *American Geophysical Union Fall Meeting*, San Francisco, CA, December 15-19, 2008.
- 2008 Cactus, riparian habitat, and turf grass: water budget and policy implications of vegetation change under urban heat island and effluent irrigation in the southwest U.S. *American Geophysical Union Fall Meeting*, San Francisco, CA, December 15-19, 2008.
- 2008 Building shared vision: assessment of transboundary aquifers along the United States - Mexico border. *International Conference on Water Scarcity, Global Changes, and Groundwater Management Responses*, University of California - Irvine, UNESCO, USGS, Irvine, CA, December 1-5, 2008.
- 2008 Groundwater rights in Mexican agriculture: spatial distribution and social and economic determinants. *Association of American Geographers Annual Meeting*, Boston, MA, April 19, 2008.
- 2007 Appropriation of Río San Juan water by Monterrey city, Mexico: implications for agriculture and basin water sharing. *Association of American Geographers Annual Meeting*, San Francisco, CA, April 17, 2007.
- 2006 Urban wastewater impacts on the spatial distribution of solutes and microbial constituents in the Musi River, India. *American Geophysical Union Spring Meeting*, Baltimore, MD, May 23, 2006.
- 2005 + Soil and water quality under wastewater irrigation (plenary keynote), *International Soil Science Society Conference*, New Delhi, India, January 28, 2005.
- 2004 Wastewater use in irrigated agriculture, *World Water Week*, Stockholm, Sweden, August 15-20, 2004.
- 2004 + Groundwater in the Indus-Ganges Basin: energy supply and pricing impacts, *World Water Week*, Stockholm, Sweden, August 15-20, 2004.
- 2003 Groundwater overdraft reduction through agricultural energy policy, *III World Water Forum*, Kyoto, Japan, March 21-24, 2003.
- 2001 Facing water scarcity in Jordan, Strategies for Water Supply Development/ Management in Developing Nations, *American Geophysical Union Spring Meeting*, Boston, MA, May 29 - June 2, 2001.
- 1997 Monitoring and research to assess the water quality impacts of best management practices, *Agricultural Environmental Management Conference*, Natural Resources Conservation Service, Auburn NY, May 28, 1997.
- 1996 Phosphorus transport in spring snowmelt runoff (poster). *American Geophysical Union Fall Meeting*, San Francisco, December 1996.
- 1991 Soil moisture enhancement and groundwater recharge through the integration of vegetative and structural measures in Indian semi-arid zone watersheds, *European Geophysical Society Conference*, Katlenburg-Lindau, Germany, April 1991.
- 1987 Cover the earth: plasters for soilblock buildings, *Housing and Urban Development Conference*, Trivandrum, India, November 1987.
- 1987 Ultraviolet sterilization of drinking water, *International Conference on Resource Mobilization for Drinking Water and Sanitation in Developing Countries*, Water and Sanitation for Health (WASH), San Juan, Puerto Rico, May 1987.

## ENGAGEMENT WITH POLICY MAKERS (+ = invited)

- 2010 + Water reuse, *Decision-Makers Platform –Managing Water in the Urban-Rural Interface for Climate Change Resilient Cities*, Addis Ababa, Ethiopia, August 5, 2010.
- 2010 + Member of Binational Technical Advisory Group on US-Mexico transboundary aquifer assessment, including drafting binational agreement, *International Boundary and Water Commission* (and *Comisión Internacional de Límites y Aguas*), El Paso, Texas, March 2009 - (continuing activity).
- 2010 Fourth workshop: *Agua y Clima: Gestión Urbana del Agua, Cambio Climático y Estrategias Adaptativas para la Región de Sonora y Arizona* (IV Binational Water and Climate Workshop – Urban Water Management, Climate Change, and Adaptive Strategies for the Arizona-Sonora Region). Organizing committee member of continuing series of stakeholder workshops with Comisión Nacional del Agua, National Center for Atmospheric Research, Comisión Estatal del Agua de Sonora, Instituto Mexicano de Tecnología del Agua, Colegio de Sonora, Univ. Arizona. Hermosillo, Son., May 7, 2010.
- 2009 Optimization of conjunctive water supply in high growth water scarce regions (K. Lansey, C.A. Scott, C. Choi). *Western Coalition of Arid States, 2009 Fall Conference*, Tucson, AZ, October 28-30, 2009.
- 2009 Third workshop: *Agua, Variabilidad y Cambio Climático en la Costa Oeste de América del Norte* (Climate Change and Variability in Western North America). Organizing committee member of continuing series of stakeholder workshops with Comisión Nacional del Agua, National Center for Atmospheric Research, Comisión Estatal del Agua de Sonora, Instituto Mexicano de Tecnología del Agua, Colegio de Sonora, and Univ. Arizona. Puerto Peñasco, Sonora, Mexico, October 2, 2009.
- 2009 Second workshop: *Los Flujos de Información Climática en la Costa Oeste de América del Norte* (Climate Information Flows in Western North America). Co-organizer of continuing series of stakeholder workshops with Comisión Nacional del Agua, National Center for Atmospheric Research, Comisión Estatal del Agua de Sonora, Instituto Mexicano de Tecnología del Agua, Colegio de Sonora, and Univ. Arizona. Jiutepec, Morelos, Mexico, July 22, 2009.
- 2009 + Expert opinion for General Accountability Office “Energy and Water: Preliminary Observations on the Links between Water and Biofuels and Electricity Production” report, July 9, 2009.
- 2009 + Electricity for water and wastewater service in Arizona (J.H. Hoover, C.A. Scott). *Advanced Water Education Workshop for Valley Educators*, Phoenix, Arizona, June 16, 2009.
- 2009 U.S.-Mexico Transboundary Aquifer Assessment Program – update, *Arizona-Mexico Commission, Water Committee*, jointly hosted by Arizona and Sonora state departments of water resources, Hermosillo, Sonora (December 4, 2009) and Scottsdale, Arizona, (June 5, 2009).
- 2009 Researcher-Managers Workshop on Water and Energy Sustainability with Rapid Growth in the Arizona-Sonora Border Region. Workshop organizer and co-host with Arizona Water Institute, Tucson, Arizona, June 1, 2009.
- 2009 + Information provided to US National Committee for UNESCO’s International Hydrology Program (6<sup>th</sup> Meeting) on developing links between US-Mexico Transboundary Aquifer Assessment Program and UNESCO’s Internationally Shared Aquifer Resources Management Program, by telephone, May 11, 2009.

- 2009 + US-Mexico transboundary aquifers: status of Santa Cruz and San Pedro assessments, *International Boundary and Water Commission* (and *Comisión Internacional de Límites y Aguas*), El Paso, March 11, 2009.
- 2008 + Water, energy, and urban growth in the desert. *Sustainable Tucson Forum*, Tucson, November 12, 2008.
- 2008 *Los Flujos de Información Climática en la Costa Oeste de América del Norte* (Climate Information Flows in Western North America). Co-organizer of stakeholder workshop with Comisión Nacional del Agua, National Center for Atmospheric Research, Comisión Estatal del Agua de Sonora, Instituto Mexicano de Tecnología del Agua, Colegio de Sonora, and Univ. Arizona. Hermosillo, Mexico, November 7, 2008.
- 2008 + The global water and sanitation challenge: progress in meeting the Millennium Development Goals. Keynote address at *Focusing Arizona's Water Research* (Arizona Water & Pollution Control Association, Arizona Water Institute), Phoenix, Oct. 29, 2008.
- 2008 + Water and energy sustainability with rapid growth in the Arizona-Sonora border region. Lead talk on water resources at *Arizona Society of Civil Engineers Annual Section Meeting*, Tucson, AZ, September 25, 2008.
- 2008 + Water and renewable energy with rapid growth in the Arizona-Sonora border region. *Arizona-Mexico Commission, Water Committee*, Phoenix, 20-21 June 2008.
- 2008 + Water resource demands in the Arizona-Sonora border region. *Border Governors Water Working Group, Climate Assessment for the Southwest*, Institute for the Study of Planet Earth, University of Arizona, 2-3 April 2008.
- 2008 + Climate caps on the substitutability of water and energy for growth in the Southwest and Mexico. *Workshop on Climate Change Adaptation for Water Managers*, Biosphere 2, Oracle, Arizona, 5 February 2008.
- 2006 + The dilemma of water management 'regionalization' in Mexico under centralized resource allocation. *Workshop on Integrated Water Resources Management in Latin America*, Rio de Janeiro, 9-11 January 2006.
- 2006 Recycling realities: managing health risks to make wastewater an asset. *Water Policy Brief No. 17*. International Water Management Institute, Colombo, Sri Lanka.
- 2004 + Strategic challenges in India's water management, *Green Business Council*, Federation of Indian Chambers of Commerce and Industry, Hyderabad, 17 June 2004.
- 2003 The energy-irrigation nexus. *Water Policy Brief No. 10*. International Water Management Institute, Colombo, Sri Lanka.
- 2003 Confronting the realities of wastewater use in agriculture. *Water Policy Brief No. 9*. International Water Management Institute, Colombo, Sri Lanka.
- 2002 Energy Pricing and Supply for Groundwater Demand Management: Lessons from Mexican Agriculture, *Forward-Thinking Policies for Groundwater Management: Energy, Water Resources, and Economic Approaches*, IWMI, Indian Council for Agricultural Research (ICAR) and Colombo Plan Secretariat, New Delhi, 2 - 6 September 2002.
- 2001 Visualizing the Invisible: Harnessing Local Initiative for Conjunctive Management of Surface and Groundwater, *Indian Groundwater Policy Workshop*, ICAR and IWMI, Karnal, Haryana, 6-8 November 2001.
- 2000 *Asignación, Productividad y Manejo de Recursos Hídricos en Cuencas* (Allocation, Productivity and Management of Basin Water Resources), hosted workshop by International Water Management Institute, Guanajuato, Mexico, 7-9 May 2000.
- 1999 + Water Scarcity and Food Production Assessments using PODIUM (the Policy Dialogue Model), *Consultation on the Americas Vision on Water for Food* (lead-up to World Water Forum, The Hague), McGill University, Montreal, 30 June - 2 July 1999.

GRANTS AND CONTRACTS (PI = principal investigator; PM = project manager)

Federal

- Pending Abrupt and Threshold Behavior in Climate and Ecological Systems: Improving Resilience to Sudden Environmental Changes (proposal team member under PI, J. Overpeck). National Science Foundation, Integrative Graduate Education and Research Traineeship.
- 2010-15 Strengthening Resilience of Arid Region Riparian Corridors: Ecohydrology and Decision-Making in the Sonora and San Pedro Watersheds (PI, 20%). \$1,400,000. National Science Foundation, Coupled Natural-Human Systems ([udallcenter.arizona.edu/wrpg/cnh](http://udallcenter.arizona.edu/wrpg/cnh)).
- 2010-12 Arid Cities in Changing Climates: Urban Land and Water Use in the Desert Southwest (Co-PI, 25%). \$138,837, Dept. Interior, Bureau of Reclamation WaterSMART; and \$29,973, Univ. Arizona Water Sustainability Program.
- 2011 Workshop on Infrastructure Sustainability, Resilience, and Robustness (co-PI, 33%). \$49,659, National Science Foundation, Resilient and Sustainable Infrastructures.
- 2009-10 Database Creation: Transboundary San Pedro Valley Aquifer (PI, 100%). \$10,000, United States Geological Survey 104B administered by University of Arizona Water Resources Research Center ([ag.arizona.edu/azwater/taap](http://ag.arizona.edu/azwater/taap))
- 2008-12 Optimization of Dual Conjunctive Water Supply and Reuse Systems with Distributed Treatment for High-Growth Water-Scarce Regions (co-PI, 20%). \$1,999,558 (plus \$30,725 supplement), National Science Foundation, Resilient and Sustainable Infrastructures.
- 2008-10 Moving Forward: Adaptation and Resilience to Climate Change, Drought, and Water Demand in the Urbanizing Southwestern U.S. & Northern Mexico (co-PI, 33%). \$286,931, National Oceanic & Atmospheric Administration, Sectoral Applications Research Program (SARP) ([udallcenter.arizona.edu/sarp/](http://udallcenter.arizona.edu/sarp/))
- 2008 - Transboundary Aquifer Assessment Program – TAAP (co-PI, 50%). \$333,333 (to date), United States Geological Survey.
- 2007-08 Geospatial Analysis of Urban Thermal Gradients: Application to Tucson Arizona’s Projected Water Demand (PI, 33%). \$12,000, United States Geological Survey (USGS) 104B administered by University of Arizona Water Resources Research Center ([dingo.sbs.arizona.edu/~cascott/urbanheat/](http://dingo.sbs.arizona.edu/~cascott/urbanheat/))
- 2005-06 India Climate Forecast Systems – Component of the Disaster Management Support Project (PM, 50%). \$0.56 million, U.S. Agency for International Development.
- 2002-05 Water-Energy Nexus in Agriculture (PI, 50%). \$0.73 million subcontract under prime contractor P.A. Consulting, \$6 million 2-phase, GSA schedule, United States Agency for International Development.
- 1994-97 Research Associate, New York City Watershed Water Quality. Conducted Ph.D. research on this project funded by NY City Dept. of Environmental Protection; worked with PI Tammo Steenhuis to successfully fund Role of Subsurface Drainage in Transport of Cryptosporidium Parvum Oocysts grant, \$0.184 million, United States Department of Agriculture.

## International/Multilateral

- Pending Eau et Etalement Urbain (Water and Urban Sprawl) (Investigator, 10%). € 25,000. Centre National de la Recherche Scientifique (CNRS-France), Cities and Environment Program (PIRVE).
- 2010-11 Phase 2 - Information Flows and Policy: Use of Climate Diagnostics and Cyclone Prediction for Adaptive Water-Resources Management Under Climatic Uncertainty in Western North America (deputy-PI, 50%). \$119,300, Inter-American Institute for Global Change Research ([udallcenter.arizona.edu/iai/](http://udallcenter.arizona.edu/iai/))
- 2009 - Governance and Access to Water in the Americas (Investigator, 10%). € 12,600 (for 2009). CNRS International Research Network (GDRI) with Ecole Nationale des Ponts et Chaussees, University of Arizona, Universidad de Buenos Aires, Universidad Diego Portales de Chile.
- 2009 - Water, Environment and Urban Development: United States and European Union Case Studies (co-PI, 10%). \$240,000. Partner University Fund (France - U.S.).
- 2007 - Rural and Environmental Water Gradients under Rapid Urban Expansion in Water-Scarce Basins (PI, 100%). \$30,000 (2009), \$4,000 (2008), \$17,000 (2007) [commitment for total of \$200,000 over 2007-2012], International Water Management Institute (IWMI).
- 2007-09 Information Flows and Policy: Use of Climate Diagnostics and Cyclone Prediction for Adaptive Water-Resources Management Under Climatic Uncertainty in Western North America (deputy-PI, 50%). \$147,286, Inter-American Institute for Global Change Research (IAI) ([udallcenter.arizona.edu/iai/](http://udallcenter.arizona.edu/iai/))
- 2005-06 Mexico River Forecasting (PM, 50%) \$0.36 million, Comisión Nacional del Agua, Gerencia de Aguas Superficiales e Ingeniería de Rios.
- 2005-06 Romania Destructive Waters Abatement and Management (co-PM, 50%). \$0.72 million, Romanian Ministry of Environment & Water Management.
- 2004-05 Health & Food Safety from Expanding Wastewater Irrigation, South Asia (PI, 20%). \$1.05 million competitive grant from German Cooperation Ministry (BMZ).
- 2004-05 Urban & Peri-Urban Agriculture, South Asia (co-PI, 10%). \$0.85 million, Netherlands Cooperation Dept. (DGIS) and Canadian International Development Research Centre.
- 2004-05 Agricultural Water Productivity in the Krishna Basin (PI, 33%). \$0.96 million, Australian Centre for International Agricultural Research.
- 2004-05 Linking Forest and Irrigation Management in the Himalayas (co-PI, 33%). \$0.3 million, Consultative Group on International Agricultural Research, Challenge Program on Water and Food.
- 2002-04 Livestock-Environment-Watershed Interactions (PI, 50%). \$0.29 million, Swiss Development Cooperation and U.N. Food and Agriculture Organization.
- 2002-03 Pro-poor Irrigation Interventions (PI, 100%). \$0.11 million India component of \$1 million larger project, Asian Development Bank.

## State

2008. Water and Energy Sustainability with Rapid Growth in the Arizona-Sonora Border Region (PI, 50%). \$50,000, Arizona Water Institute (AWI).
2007. Coupled Water and Energy Demand in the Arizona-Sonora Border Region: Groundwater Pumping, Municipal Water Services, and Electrical Power Interactions (PI, 50%). \$10,000, Arizona Water Institute.

## Private Foundations

- 2009-10 Water Reuse to Offset Growth-Driven Water Scarcity in the Southwest: From Supply Augmentation to Substitution (PI, 33%). \$74,789, WateReuse Foundation.  
1997-2000 Irrigation Management, Mexico (PM, 33%). \$1.5 million, Ford Foundation.

## PROFESSIONAL MEMBERSHIPS AND BOARDS

- 2010 - Delegate, *Universities Council on Water Resources*  
2009 - Editorial Board, *Journal of Water and Health*  
2006 - Publications Committee (Chair since 2009), *International Water Resources Association*  
2006 - Editorial Board, *Water International*  
2006 - Member, *Association of American Geographers*  
2000 - Member, *International Water Resources Association*  
1996 - Registered Professional Engineer (P.E.) - New York State  
1996 - Member, *American Geophysical Union*

## GRANT REVIEW

- 2009 National Oceanic and Atmospheric Administration, Sectoral Applications Research Program - review panel member  
2009 National Science Foundation, Geography and Spatial Sciences Program - two grant proposals reviewed  
2009 Wisconsin Sea Grant Institute, University of Wisconsin - grant proposal reviewed  
2009 Institute of the Environment, University of Arizona - multiple grant proposals reviewed for 2009-2010 Faculty Exploratory Research Grant competition  
2008 Water Sustainability Program, University of Arizona - multiple grant proposals review  
2007 NSF CAREER - grant proposal reviewed  
2007 Swiss Research Fellow Partnership Program for Agriculture, Forestry, and Natural Resources - grant proposal reviewed  
2006 Challenge Program on Water and Food, Consultative Group for International Agricultural Research - multiple grant proposals reviewed

## EDITORIAL AND JOURNAL REVIEW

<i>Agricultural Water Management</i>	2010
<i>Agriculture, Ecosystems &amp; Environment</i>	2004
<i>Annals of the Association of American Geographers</i>	2009
<i>Atmósfera</i>	2009
<i>Cities</i>	2007
<i>Comprehensive Assessment - Water Mmgt for Agriculture</i>	2007
<i>Energy Policy</i>	2010
<i>Environment and Planning C</i>	2009
<i>Environment, Development, and Sustainability</i>	2006

<i>Environmental Management</i>	2009
<i>Environmental Modeling and Assessment</i>	2007, 2008
<i>EPA Water Reuse</i>	2004
<i>Geographical Journal, The</i>	2007, 2010
<i>Hydrogeology Journal</i>	2005, 2008, 2010
<i>International Journal of Water</i>	2008
<i>Journal for Transdisciplinary Research</i>	2008
<i>Journal of American Water Resources Association</i>	2010
<i>Journal of Environment and Development</i>	2009
<i>Journal of Irrigation &amp; Drainage Engineering</i>	2002, 2004
<i>Journal of Planning Education and Research</i>	2009
<i>Mountain Research &amp; Development</i>	2002
<i>Natural Resources Forum</i>	2008
<i>Paddy &amp; Water Environment</i>	2007
<i>Professional Geographer, The</i>	2007, 2009, 2010
<i>Región y Sociedad</i>	2008
<i>Regional Climate Forum abstracts review</i>	2008
<i>Resources for the Future Press</i>	2007
<i>Resources, Conservation &amp; Recycling</i>	2008
<i>Springer (Water in Arid and Semi-Arid Zones)</i>	2008
<i>U.S. Geological Survey, Circular</i>	2009
<i>Water Alternatives</i>	2009
<i>Water International</i>	2003, 2006, 2007, 2008, 2010
<i>Water Resources Management</i>	2002
<i>Water Resources Research</i>	2003, 2008, 2009, 2010
<i>World Development</i>	2007, 2008, 2009

#### FOREIGN LANGUAGES

(1 = fluent, have published; 2 = worked professionally; 3 = conversational; 4 = beginner)

Spanish	(1)
Hindi	(2)
Urdu	(3)
Nepali	(3)
German	(3)
Portuguese	(4)

#### SERVICE/OUTREACH (*recent*)

- 2010. Guest lecture, "Adaptive water management in the context of urban growth and climate change," Graduate Planning Society, Univ. Arizona, Oct. 15, 2010.
- 2010. Guest lecture and field trip on Tucson's water resources and Santa Cruz River, Univ. Arizona Honors College, Sept. 14, 2010.
- 2010 - Faculty Advisor, Arizona Public Interest Research Group Student Chapter

- 2009 - Chair, Scientific Committee, XIV World Water Congress, International Water Resources Association and Secretaria de Recursos Hídricos e Energéticos (Pernambuco), Porto de Galinhas, Brazil, 25-29 September, 2011 (continuing activity).
- 2009 - Coordinador, Recursos Hídricos Transfronterizos, VII Congreso Nacional de Aguas Subterráneas, Asociación Geohidrológica Mexicana, (Chair, Transboundary Water Resources, VII National Congress on Groundwater, Mexican Geohydrological Association), San Carlos, Sonora, 10-13 November 2009.
- 2009. Training session for the Iraq Summer Institute coordinated by the Center for Middle Eastern Studies, University of Arizona, August 4, 2009.
- 2009 - Thematic input to Canada -US-Mexico drought response meeting coordinated by University of Arizona, Institute of the Environment, Mexico City, February 2009.
- 2008 - Thematic input to Border Governors Water Working Group.
- 2008. Regional Climate Forum for Northwest Mexico and the Southwest United States, Ensenada, Mexico, April 2008 - organizing committee member.
- 2008 - International Center for Integrated Water Resources Management (UNESCO's new Category II Center) - provided thematic input to support bringing the science and research component to University of Arizona (Sustainability of Semi-Arid Hydrology and Riparian Areas - SAHRA).
- 2008. Training session for the Iraq Summer Institute coordinated by the Center for Middle Eastern Studies, University of Arizona, June 6, 2008.
- 2007 - Santa Cruz and San Pedro Transboundary Aquifer Assessment Program - member of binational technical committees.
- 2007. Salinity Management and Desalination Technology for Brackish Water Resources in the Arid West - executive committee member.
- 2007. "Water 101" meeting on water resource challenges at the invitation of Sen. Richard Miranda, Arizona State Senator and Leader of the State Hispanic Caucus.

#### UNIVERSITY AND DEPARTMENTAL COMMITTEES

- 2010 - Executive Committee, Interface between Science and Decision-making Certificate Program, University of Arizona - member of committee to guide program development.
- 2009 - School of Natural Resources & Environment, University of Arizona - adjunct faculty member.
- 2009 - Institute of the Environment, Masters in Environmental Management, committee member.
- 2008 - Dept. of Soil, Water & Environmental Science, University of Arizona - adjunct faculty member.
- 2008 - Center for Latin American Studies, University of Arizona - advisory board member.
- 2008 - Re-Engineered Water and Retrofitted Distribution Systems (REWARDS) - working group member, University of Arizona departments of Soil, Water & Environmental Science; Chemical & Environmental Engineering; Civil Engineering; Agricultural & Biosystems Engineering.
- 2008 - Water Resources & Policy Group (WRPG) - convener of graduate student working group [<http://udallcenter.arizona.edu/wrpg>].
- 2007 - Udall Center Environmental Group - co-coordinator of biweekly seminar series.
- 2007 - Dept. of Hydrology & Water Resources, Univ. Arizona - adjunct faculty member.

- 2006 - Geography & Development Undergraduate Committee.
- 2006 - Center for Latin American Studies, University of Arizona – affiliated faculty member.
- 2006 - Arid Lands Resource Sciences Graduate Interdisciplinary Program, University of Arizona – faculty member.
- 2006 - Global Change Graduate Interdisciplinary Program, Univ. Arizona – faculty member.
- 2006 - Institute of the Environment (previously Institute for the Study of Planet Earth), University of Arizona – affiliated faculty member.

#### ACADEMIC DISTINCTIONS AND AWARDS

- 2010 Faculty Research Development Grant, University of Arizona, for collaborative research in Ethiopia.
- 2004 Outstanding Paper at International Water Management Institute – **Scott, C.A.**, W.G.M. Bastiaanssen, M. Ahmad, Mapping root zone soil moisture using remotely sensed optical imagery.
- 2000-04 Next Generation of Water Leaders, Stockholm International Water Institute and International Water Resources Association.
- 1991 Gamma Sigma Delta (Honor Society of Agriculture).
- 1989-91 Foreign Language and Area Studies Fellowship (Nepali language), Cornell University.
- 1985 Graduated with Distinction, Swarthmore College.

#### CURRENT STUDENTS AND ACCOMPLISHMENTS

*(SGD = School of Geography & Development, Univ. Arizona; RA = research assistant/associate)*

- 2010 - Lily House-Peters (PhD candidate, SGD)
- 2009 - Andrea Prichard (MA candidate, SGD, 2009- RA on TAAP grant)
  - Rotary Ambassadorial Scholarship, Latin America, 2011
  - Tinker Fellowship, Latin American Studies, Summer 2010
  - Partner University Fund, U.S. – France, Summer 2010
  - 2<sup>nd</sup> Place Prize, Central Arizona Project Student Paper Competition.
- 2009 - Tabitha Spence (MA candidate, SGD, 2009-2010 RA on IWMI grant)
  - University of Arizona Diversity Fellowship
- 2008 - Kerri Jean Ormerod (MA, SGD, 2010)
  - Masters' thesis (C.A. Scott, chair, 2010): "Drinking Highly Treated Wastewater: Public Trust in the Next Water Frontier"
  - 2009 Fall and 2010 Spring RA on WRF grant, 2009 Spring and 2010 Fall RA on NSF RESIN grant, 2008 RA on my Univ. Arizona startup
  - 2010 grants from Institute of the Environment, Univ. Arizona and AAG Water Resources Specialty Group Travel Award to attend and present at the Annual Meetings of the Association of American Geographers, in Washington, DC, 14-18 April, 2010.
  - 2009 grants from Institute of the Environment, Univ. Arizona to attend and present at the Annual Meetings of the Association of American Geographers, in Las Vegas,

- Nevada, 22-27 March 2009.
  - 2008 Margaret Trussell Scholarship by the Association of Pacific Coast Geographers Women's Network (\$1000 to explore the social issues in water reuse planning and management within the context of urban growth).
  - grants from Institute for Study of Planet Earth and Graduate Student Council, Univ. Arizona to attend and present a paper at the workshop "Waste - The Social Context '08", Edmonton, Canada, 11-15 May 2008.
  - Water Sustainability Program, Univ. Arizona, summer 2008 RA grant.
- 2008 - Zachary Sugg (PhD candidate, SGD)
- Masters' thesis (C.A. Scott, chair, 2010): "Hydrologic Response to Pulse Storm Events During a Native to Exotic Transition in a Semiarid Grassland"
  - 2008-2010 - RA I negotiated with Agricultural Research Service on grant with Dr. Susan Moran)
  - American Meteorological Society Policy Colloquium, Washington DC, Summer 2010.
- 2008 - Kathryn Daily (MA candidate, SGD, Univ. Arizona staff degree program student)
- MA thesis in progress on rainwater harvesting in southern Arizona
  - program coordinator for the Univ. Arizona Cooperative Extension Cochise County Water Wise program.
  - grant from Water Sustainability Program, Univ. Arizona for "Rainwater Harvesting Certificate Program and Demonstration Project", 2009-2010.
- 2007 - Eve Halper (PhD candidate, SGD, 2007-08 RA on USGS 104B grant)
- PhD dissertation in progress: "Residential outdoor water use in Tucson, Arizona: geospatial, demographic and temporal perspectives on sustainability".
  - holds a job at the US Bureau of Reclamation while completing dissertation.

#### GRADUATE STUDENT COMMITTEE MEMBERSHIP

(GRD = Dept. Geography & Regional Development; SGD = School of Geography & Development; HWR = Dept. Hydrology & Water Resources, Univ. Arizona)

- 2010. Evan Dick (MA, SGD) "Composting Toilets in Pima County, Arizona: Practices, Regulation, and Potential" - S. Moore, chair.
- 2009 - Majed Akhter (PhD candidate, SGD, 2009-10 RA on NSF RESIN grant), dissertation interests: Indus River basin irrigation and agrarian change.
- 2009 - Stephen Amesbury (PhD candidate, Arid Lands Resource Sciences), dissertation topic: riparian vegetation phenology in the San Pedro and Santa Cruz basins, Arizona - S. Yool, chair.
- 2008. Tobias Finke (MA, SGD) "Object-Oriented Classification to Map Impervious Surfaces for Hydrologic Models" - S. Yool and S. Moran, co-chairs.
- 2008. Derejeh Gultineh (MA, GRD) "Coalitions and Consensus Building in Portland, Oregon" - S. Moore, chair.
- 2008. Jennifer Bloxom (MA, Center for Latin American Studies) "Fueling the Appetite for Water: The Palm Oil Biofuel Industry in San Pedro Sula, Honduras" - S. Whiteford, chair.
- 2008 - Lissette De La Cruz (PhD candidate, HWR), dissertation topic: groundwater in the Rio Sonora basin, Mexico - T. Meixner, chair.

- 2007 - Robin Lewis (PhD candidate, SGD), dissertation topic: Certifying Knowledge: Sustainable Forest Management in Malaysia – P. Robbins, chair.
- 2007 - Jeff M. Banister (PhD candidate, SGD), dissertation topic: Between Capture and Control: Fluviality and Geo-History in Mexico – S. Marston, chair.
- 2007 - Rolando Díaz Caravantes (PhD candidate, SGD) – M. Wilder, chair.
2007. George Saliba (MA, GRD) “Science, Collaboration, and Sustainability in the Upper San Pedro Basin” – K. Jacobs and K. Bailey, co-chairs.

CURRENT OR PAST SUPERVISEES/STUDENTS AND ACCOMPLISHMENTS  
(IWMI = *International Water Management Institute*)

- 2010 - Anne Browning-Aiken, PhD (Univ. Arizona Senior Research Associate, staff member I supervise at Udall Center for Studies in Public Policy) – multiple project engagements including WateReuse Foundation grant on which I am PI.
- 2009 - Octavio Ulloa (undergraduate advisee, 2009 summer intern)
  - Summer Research Institute/McNair grant from University of Arizona Graduate Diversity Programs
  - Environmental Protection Scholarship from Arizona County Directors of Environmental Health Services Association
  - Currently Americorps Volunteer, Austin, Texas.
- 2007-09 Joseph Hoover (MA completed, GRD, 2008 RA on AWI grant)
  - 2009 summer, research associate, Western Resource Analysts, Boulder, Colorado.
  - 2009, PhD candidate, Dept. Geography, University of Denver
  - 2009 MA completed, thesis title: “The Arizona Water-Energy Nexus: Electricity for Water and Wastewater Services”.
  - grant from forum organizers to attend and present a paper at the Border Energy Forum XV, Monterrey, Mexico, 23-24 October 2008.
  - grant from Association of American Geographers, Water Resources Specialty Group to present paper at annual meeting, Las Vegas, 22-27 March 2009.
- 2008 - Prescott Vandervoet (Univ. Arizona Research Analyst staff position I supervise on TAAP grant)
- 2004-05 Mattia Celio (doctoral field research, IWMI-India) – PhD candidate, Water, Engineering, and Development Centre, Loughborough University, UK
- 2003-05 Trent W. Biggs (Postdoc, IWMI-India) – Since 2007 Asst. Professor of Geography, San Diego State University, California
- 2003-04 Shirish Sinha (Doctoral write-up, IWMI-India) – 2007 PhD from Twente University, Netherlands, currently Energy-Water Program Manager, WWF India, New Delhi.
- 2002-05 Jetske Bouma (doctoral field research, IWMI-India) – 2007 PhD in Resource Economics, University of Tilburg, Netherlands
- 2002-05 Jeroen Ensink (doctoral field research, IWMI-India) – 2007 PhD in Public Health, London School of Tropical Hygiene and Medicine, London, UK
- 2002 Carolyn Gerwe (Postdoc, IWMI-India) – 2003-05 Public Policy Fellow, American Association for Advancement of Science, Washington, DC
- 2000 Martin Bolaños, M.S. in Water Management, Colegio de Postgraduados, Mexico
- 1998 Francisco Flores, M.S. in Water Management, Colegio de Postgraduados, Mexico; subsequently PhD from Cornell University, Ithaca, New York
- 1997-2000 Philippus Wester (graduate field research, IWMI-Mexico) – currently PhD (2008) and Assistant Professor (2000-present), Wageningen University, Netherlands