



Decision Center for a Desert City Water/Climate Briefings

A place where multiple perspectives on issues meet

COURS Annual Poster Symposium



The annual poster symposium marks one of the highlights of each Spring semester, as students involved in interdisciplinary programs through DCDC and elsewhere present their research

The students participate in one of the following programs:

■ Community of Graduate Scholars (CGS)

CGS students commit to weekly dialogue across their disciplines about issues raised in research and community engagement through DCDC. The students work on their own research and develop collaborative projects.

■ Community of Undergraduate Research Scholars (COURS)

COURS is a one year program that includes students from Humanities, Social Sciences, and Natural Sciences. They are sponsored by DCDC and many other ASU academic units. These students work on their own research under the direction of ASU faculty and graduate students. They engage in cross-disciplinary discussions at all stages of the research.

■ Internship for Science-Practice Integration (ISPI)

The ISPI is a one semester program. Students intern with public and private water agencies in the Phoenix Metro Area and participate in a DCDC research class. Building on their internship projects, the students create their own "use-inspired" research project with guidance of DCDC faculty.

This poster symposium offers a great opportunity to learn more about the research projects that students have been focusing on this past year. Furthermore, you'll get to know some of the next generation of scientists and professionals.

**Wednesday, May 4, 2011
12:00 - 1:00 p.m.**

**Decision Center for a Desert City,
Arizona State University,
21 East 6th Street, Suite 126B, Tempe**

Map: <http://dcdc.asu.edu/dcdcmain/contactus.php>

Please RSVP to: estella.ohanlon@asu.edu

Select research includes:

- **Local Solutions for Climate Change: A Comprehensive Carbon Inventory for Maricopa County** – Jaliela Brumand
- **Visioning: Origin of Sustainable Urban Planning** – Nicole Nebitsi
- **GIS-Based Delineation of Prime Groundwater Recharge Areas in the Phoenix Valley** – Joshua Randall
- **Lasting effects of interdisciplinary exposure: Graduate student response following work in an interdisciplinary seminar** – Omayya Ahmad, Gretchen Hawkins & Rebecca Neel

<http://dcdc.asu.edu>

WATER/CLIMATE BRIEFINGS ARE

- An informal lunch forum where the water policy community, scientists and students gather to exchange knowledge and ideas.
- A venue for open discussions that bring together multiple perspectives—from the corporate sector, the policy sphere and the sciences—to broaden understanding of decision-making processes in the field of water resource management.
- A place to explore the potential for research collaboration to effectively address the sustainability challenges of our time.

The Decision Center for a Desert City (DCDC) is one of several interdisciplinary National Science Foundation-funded centers exploring human decision-making under climate uncertainty. DCDC research teams work with the public policy community to investigate water, climate, decision-making and vulnerability in the urbanizing desert of Central Arizona.

ASU GLOBAL INSTITUTE
of SUSTAINABILITY
ARIZONA STATE UNIVERSITY

COURS Annual Poster Symposium 2011

Alphabetic Order by Title

Community of Graduate Scholars

- Assessing Graduate Student Response Following Work in an Interdisciplinary Setting – Omayya Ahmad, Gretchen Hawkins, and Rebecca Neel
- Can Water Managers' Decision Making be Influenced by an 'Imported' Cultural Norm? – Christy Mercer
- Developing a Vision for a Sustainable Water System in Central Arizona-Phoenix – Lauren Withycombe, Danielle Shaffer, Arnim Wiek, and Kelli Larson
- Re-Examining The Life Cycle Energy of Residences: Functional Unit, Technological Dynamics and Scaling – Stephane Frijia, Subhrajit Guhathakurta, Eric Williams, Ariane Middel

Internship Program

- Arizona's Only Increasing Water Source: Reclaimed Water and its Role in Mitigation of Surface/Ground water depletion – Max Krzyzewski
- Climate Change Effects on the Colorado River and its Impacts for Future Allotments in Arizona and the Greater Phoenix Area – Courtney Lewis
- Cost Assessment of the Central Arizona Groundwater Replenishment District's Groundwater Replenishment Obligations – Alexandria Detrio
- GIS-Based Delineation of Prime Groundwater Recharge Areas in the Phoenix Valley –Joshua Randall
- How Does Policy Impact the Way that Communities Place Effluent into Streams? – Cherish Connolly
- Measuring Participant Retention of Water Festival Informational Content: Facilitating environmental awareness for the long term – Jeffrey Jennings
- Uncovering Barriers and Motivators in Groundwater Management Collaboration – Emily Allen

Community of Undergraduate Research Scholars

- A Rapid Vaccine Discovery System – Mark Jeng
- A Technique to Study Methylated Chromatin with Atomic Force Microscopy Recognition Imaging – Trent Bowen
- An Evolutionary Approach to Conservation – Claire Yee
- An Investigation of Ritual Use of Carnivores at La Quemada – Christopher Schwartz
- Big Change in Small Places: Development, Traditional Knowledge, and Women's Lives in the Peruvian Amazon – Margo Johnson

- Dirt Poor: Long Term Effects of Irrigation on Soil Quality – [Alyssa Snyder](#)
- Elderly and the e-Health Barrier – [David Edwards](#)
- Environmental Perceptions in Central South Phoenix – [Blake Thomson](#)
- Local Solutions for Climate Change: A Comprehensive Carbon Inventory for Maricopa County – [Jaliela Brumand](#)
- Measuring Evapotranspiration through Remote Sensing – [James Taysom](#)
- Native American versus Non-Native American Perspectives on Water System Sustainability – [Danielle Shaffer](#)
- Potassium Channel Expression in the Larval Drosophila CNS – [Kathryn Scheckel](#)
- Soil Analysis in Arizona Catchments – [Sarah Moratto](#)
- Spatial Interactions between Planning Noise and Execution Noise during Movements to Targets in 3D – [Keith Dyson](#)
- Stability and Change in Young Children’s Salivary Alpha-Amylase and Cortisol Reactivity: Relations to Temperament and Adjustment – [Jacqueline Huynh](#)
- The Influence of Catchment Size on Particulate Organic Matter Transport in an Arid, Urban Landscape – [Nicholas Weller](#)
- The Politics of Place and the Question of Legal Religion: Navajo Nation v. USFS – [Dimple Dhanani](#)
- Visioning: Origin of Sustainable Urban Planning – [Nicole Nebitsi](#)