

■ Breakthroughs in Water Security Research: The Global Institute for Water Security Distinguished Lecture Series

The Global Institute for Water Security (GIWS), in conjunction with the School of Environment and Sustainability (SENS), is proud to present a weekly seminar series featuring the top water experts from around the world. These lectures are free and open to the public. Additionally, graduate students are able to enroll in the series for credit (as part of **ENVS 827, Breakthroughs in Water Security Research**).

Week 6: Prof. Scott Tyler

Advances in Cryosphere Monitoring: Measuring Antarctic Ice Shelf Stability and Ocean Dynamics using Fiber-Optic Sensing

Wednesday, November 8, 2017

3:30 p.m.

Innovation Place Candle Room



Tyler is a Foundation Professor with joint appoints in the Department of Geological Sciences and Engineering and the Department of Civil and Environmental Engineering at the University of Nevada, Reno. He serves as Director of the Center for Transformative Environmental Sensing Programs; an NSF supported community user facility focusing on fiber-optic based measurements systems and the development of unmanned aerial systems, i.e. drones, for surface earth sensing. His research includes a wide range of projects, from the melt water dynamics of Antarctic ice shelves, assessing recharge in arid groundwater systems, the understanding of the impact of forest management on snow dynamics in the Sierra Nevada, the role of groundwater/surface water interactions in aquatic ecology, the quantitative assessment of root dynamics using micro-Computed X-ray Tomography (XMT), the design and operation of salinity-gradient solar ponds coupled with membrane distillation for the development of low-cost desalination and the impacts of forest management practices on snow hydrology in Mediterranean climates.

He holds a Bachelors degree in Mechanical Engineering from the University of Connecticut, and MS from New Mexico Institute of Technology and Ph.D. from the University of Nevada, Reno in Hydrogeology.

For more details on the Distinguished Lecture Series, please visit usask.ca/water



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