16/07/2021

Dear all

This week's digest includes:

- a PhD opportunity at UNSW Sydney studying extreme winds
- an Environmental Data Analyst position at CSIRO Land and Water in Townsville
- a call for Abstracts for an AGU session on 'MultiSector Dynamics'

If you would like something included in this digest, please email it to office@mssanz.org.au

Kind regards, Karen

PhD position in Extreme Winds at UNSW, Sydney

A PhD position is open at the Climate Change Research Centre, UNSW Sydney, on the topic of extreme wind gusts, especially those connected to thunderstorms. These gusts can do significant damage, and are involved in interesting scientific puzzles. The student will use observations and model calculations to better understand the history, causes, and consequences of extreme wind gusts and how they will be affected by climate change. The Australian-Research-Council-funded project will include engaging with stakeholders who are affected by high winds, through the NSW State Government, and in association with the Bureau of Meteorology, giving the student experience with both theory and practical applications. The UNSW project supervisors will be Profs. Steven Sherwood and Jason Evans.

The ideal applicant will have an undergraduate degree in physics, mathematics, meteorology, engineering or another relevant discipline, and will have a strong academic background and/or relevant work experience. Deadline for applications is 26 August.

For more information contact:
Prof. Steven Sherwood s.sherwood@unsw.edu.au

Title: Research Scientist - Environmental Data Analyst (Hydrology and Geomorphology)
Advertiser: CSIRO Land and Water
Location: Townsville, Queensland

The Opportunity

- Do you have a background in geomorphology, hydrology or engineering?
- Use your landscape scale terrain analysis and programming skills
- Join CSIRO Land and Water & undertake Great Barrier Reef catchment research!

More details:

- LinkedIn
- Research Scientist - Environmental Data Analyst (Hydrology and Geomorphology) - NRMjobs - NRM Jobs - environment, water & natural resource management jobs
- https://jobs.csiro.au/job/Townsville%2C-QLD-Research-Scientist-Environmental-Data-Analyst-%28Hydrology-and-Geomorphology%29/763566200/

AGU session on MultiSector Dynamics

We would like to invite you to submit your work to our Fall 2021 AGU session.

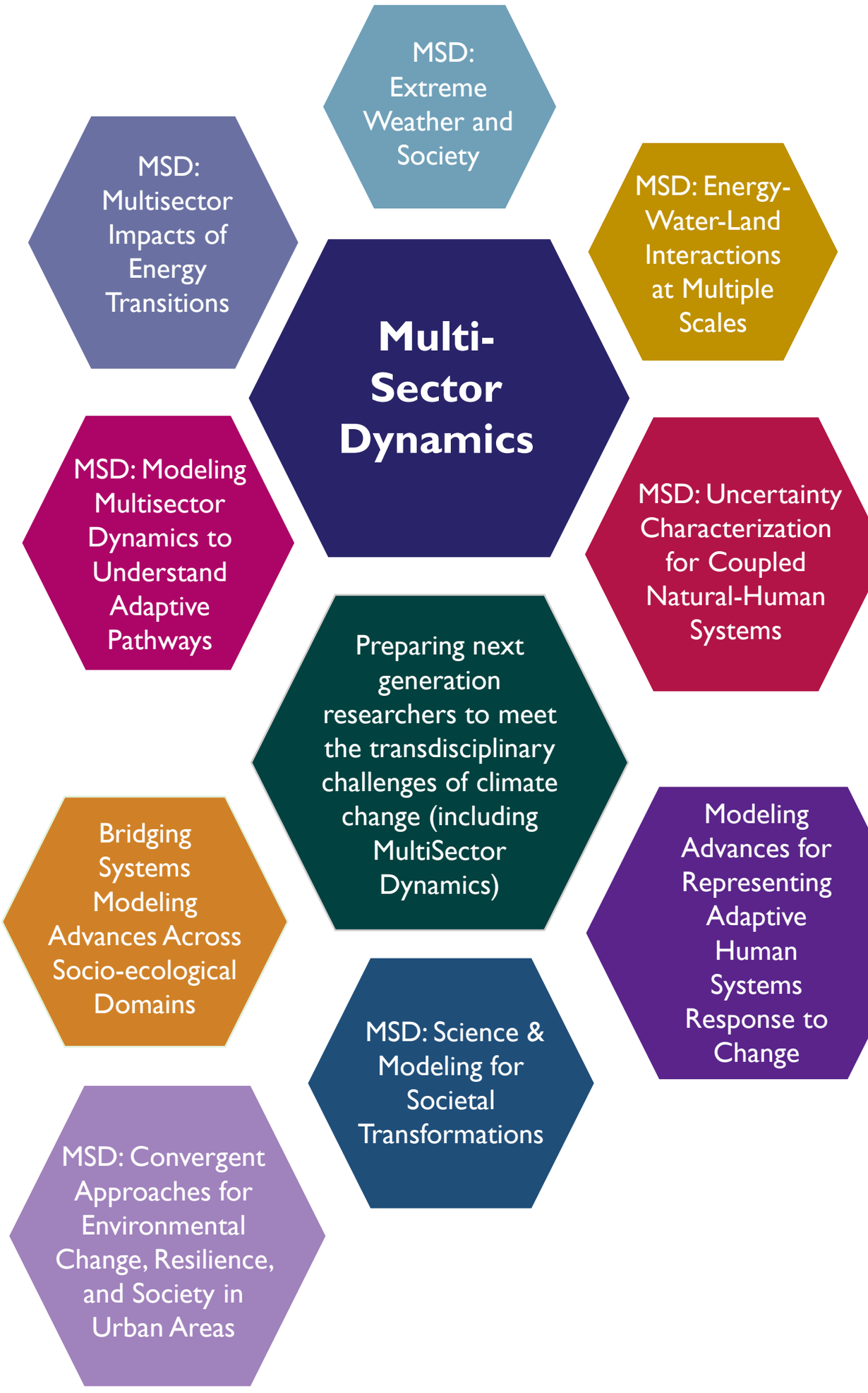
AGU Fall 2021 is going to be a hybrid live and remote meeting. The abstract submission deadline is August 4. Our session is part of a larger coordinated program of technical sessions, a Union session, and US Department of Energy Townhall being organized by the MSD community (see the attached pdf). Please forgive cross-postings.

Session Title: GC063 - MultiSector Dynamics: Science & Modeling for Societal Transformations
Section: Global Environmental Change
Session co-conveners: Patrick Reed (Cornell), Jennifer Morris (MIT), Enayat A. Moallemi (Deakin), Jan Kwakkel (TU Delft).
View Session Details: https://agu.confex.com/agu/fm21/prelim.cgi/Session/117559
Societal goals such as enhancing ecological resilience, achieving the Millennium Development Goals, and managing risks from climate change involve major transitions in integrated systems (water, transport, energy, etc.). These challenges require dynamic and adaptive action pathways that balance diverse societal objectives and account for complex feedbacks, uncertainties, and thresholds (e.g., ecological tipping points). The session seeks to develop a MultiSector Dynamics (MSD) community focused on advancing our understanding of the co-evolution of human and natural systems over time and developing the next generation of tools needed to support major societal transformations. MSD research occurs within a perspective that bridges sectors (e.g., energy, water, land, transportation, economy, etc.) and scales (spatial, temporal, and institutional) to better understand coupled human and natural systems. This session broadly invites submissions addressing these challenges and contributing promising new modeling tools.

Invited Speakers:
Lynée Turek-Hankins (University of Miami) – A comprehensive review of global adaptation for extreme heat with a focus on multisectoral actions and equity
Stephanie Waldoff (Pacific Northwest National Laboratory) – Exploring how reductions in sea ice thickness is shaping shipping, resource extraction, and communities along the North Alaskan coast

2021 AGU FALL MEETING

Click the session titles to go to the AGU abstract submission website



www.multisectordynamics.org