



A Marie Skłodowska-Curie Project

ReStructure 2.0 Webinar Series

Sala Stampa - Aula Magna – Convention Center Università della Calabria

3:00pm February 13, 2023 (Time Zone: Europe/Rome)

SUPERCOMPUTING RESOURCES: THE NEW HORIZON OF THE TEXAS ADVANCED COMPUTING CENTER

Abstract: For nearly 15 years the Texas Advanced Computing Center (TACC) at The University of Texas at Austin has been deploying the most powerful supercomputers for open academic research funded by the National Science Foundation (NSF). Throughout this time, TACC has grown steadily and evolved to adapt to the broadening needs for computational research and data discovery in all scientific disciplines. Over the past decade we have developed and deployed web-based portals such as DesignSafe, enabling research communities to more easily discover and share knowledge. TACC is poised to continue on a strong growth path, as we near completion of the multi-year proposal process to deploy the next most powerful academic supercomputer as part of the Leadership Class Computing Facility (LCCF) in the NSF's Large Facilities Office. This presentation will give insight into TACC's future plans and the impact for the natural hazards research community via DesignSafe.



Presenter Bio-Sketch: Tim Cockerill is TACC's Director of User Services. He oversees the allocations process by which computing time and storage is awarded on TACC's HPC systems. The User Services team is also responsible for user account management, training, and user guides. Tim also currently serves as the DesignSafe Deputy Project Director, providing a web-based platform supporting natural hazards research. Tim is co-PI on two NSF CC* awards providing training and research support for underserved/under-resourced universities and community colleges, and is also a co-PI on an NSF Office of Advanced

Cyberinfrastructure award for an Innovative Prototype HPC system known as ACES at Texas A&M University. Tim joined TACC in January, 2014, as the Director of Center Programs responsible for program and project management across the Center's portfolio of awards. Prior to joining TACC, he was the Associate Project Director for XSEDE and the TeraGrid Project Manager. Before entering the world of high performance computing in 2003, Tim spent 10 years working in startup companies aligned with his research interests in gallium arsenide materials and semiconductor lasers. Prior to that, Tim earned his B.S., M.S., and Ph.D. degrees from the University of Illinois at Urbana-Champaign and was a Visiting Assistant Professor in the Electrical and Computer Engineering Department.

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