Dr. Craig Stewart, Indiana University

Distinguished Lecturers Seminar Spring 2009
University of Houston
Department of Computer Science
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PGH 232
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National Cyberinfrastructure: Where We Think We Are, and Where We Might Want To Go

Abstract:

The Science and Technology Committee of the U.S. House of Representatives held a hearing on 31 July 2008 to gather input on the President's Council of Advisors on Science and Technology ("Leadership under Challenge: Information Technology R&D in a Competitive World"). As Chair of CASC, Craig Stewart was invited to testify at the House Science and Technology Committee and was one of the organizers of the CASC/CCI workshop. As a result, Stewart has gathered a lot of commentary from the high performance computing community about where we think we are, and where we think we need to be going in the future.

Also during July, CASC (the Coalition for Academic Scientific Computing) and the Educause Campus CyberInfrastructure committee held a workshop on integrating university and federally-funded cyberinfrastructure systems.

This talk will relay the collective input collected from CASC and Educause about the current status of national academic cyberinfrastructure.

Particular focus will be given to the TeraGrid and the Open Science Grid (IU is a participant in both projects), as well as the potential role of Science Gateways, Cloud computing, and distributed file system approaches in the future.

Brief Bio

Dr. Craig A. Stewart is the Executive Director, Pervasive Technology Institute, Associate Dean for Research Technologies, and Adjunct Associate Professor in the Departments of Biology at IU Bloomington and Department of Medical and Molecular Genetics in the IU School of Medicine. Stewart is the PI on IU's grant to be a Resource Partner in the NSF-funded TeraGrid; PI of IU's NSF-funded Data Capacitor project, PI of the Informatics Core of the NIH-funded Collaborative Initiative on Fetal Alcohol Spectrum Disorder; and Co-pI on several other grants. Stewart came to IU as a graduate student in Biology, receiving a Ph.D. in 1988. In 1985 Stewart began a career at IU in information technology, and is now responsible for IU's supercomputers, massive data storage systems, and advanced visualization environments.
In his spare time Stewart is a persistent albeit slow trailrunner.