Contribution ID: **303**   Type: **not specified**

U.S. National Science Foundation Office of CyberInfrastructure: Building Computational Science, Policy and Future Plans

Monday 21 September 2009 11:40 (40 minutes)

Abstract

Modern cyberinfrastructure is transforming research and education not only in science and engineering but also in all disciplines and throughout society. The Office of CyberInfrastructure (OCI), part of the U.S. National Science Foundation (NSF), is strengthening the U.S. national cyberinfrastructure (CI) through investments in the TeraGrid and large scale high performance computing, while forging important new activities in areas of expanded computing services, software, data, networking, virtual organizations, and education. As an overarching theme, OCI promotes the development of collaborative computational science–defined broadly to encompass research and development of comprehensive CI, as well as the application of CI to solve complex problems in science and engineering–as one of OCI's primary missions. OCI provides stewardship for computational science at NSF, in strong collaborations with other offices, directorates, and agencies.

This session will discuss the current and future efforts within OCI addressing the needs of computational scientists, the policies that guide this work, and our future plans for growing both U.S. and international collaboration in this space. Of special importance are the role of sustainability –both in terms of longer-term funding streams and production quality results, and open sharing of data and software.

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Session Classification: Technical Plenary: Policy Issues in Distributed Computing Infrastructures