“Professionalization of the Cyberinfrastructure Workforce”

An Introduction to the RCN

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NSF RCN # 1148996
Science
Science Today
Cyberinfrastructure Enterprises
Managing Collaborative Research Centers

An NSF-Sponsored RCN

NSF#1148996
RCN Goals: Initiate collaboration

Cyberinfrastructure professionals
Organization scientists
Managing CI Centers

- Entrepreneurs
- Innovation
- Stewardship
- Software
- Impact

Report: “Managing CI Centers: An Agenda for Organizational Scholarship and CI Innovation,”
Virtual Organizations Workshop

- Engineering ("cookbook")
- Research (research setting)
- Education (curriculum)
- Consultative (experts)
- Collaborative Research (joint research)

Leading CI Enterprise Workshop

- Measuring & Communicating Impact
- Value propositions
- Stakeholders

Knowledge Infrastructure Workshop

- What do we know?
- What can we say?
- What should we explore?
Professionalization of the Cyberinfrastructure workforce
What is Professionalization?

• Well-understood, legitimate domain of practice.

• With its own accrediting body (professional organization), curriculum, and standards of excellence.

• Well-defined career paths.
Problems with Professionalization

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Pluralistic and Changing CI Occupations

- Science-facing CI professionals (like ACI-REF or CSEDE ECSS)

- CI software professionals – diverse areas and specialties.

- Traditional big iron / infrastructure always changing.
Identified areas for collaboration:

• Workforce development – specific career paths and niches; university curricula; education

• Persuasion and trust building – legitimacy and resource acquisition without need for profession.

• Pre-competitive organization and sharing best practices (like CASC! Also PEARC)
Final RCN
August 2017

CI Enterprise and CI Workforce

Want to attend? email: Nick: berente@uga.edu
Thank you!

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Reports: www.managingcenters.net

Also: http://distributedscience.ischool.utexas.edu/

Interested? Nick Berente: berente@uga.edu