

# RESEARCH CYBERINFRASTRUCTURE WORKGROUP

November 9, 2015

4-5:30pm, Science Library 6110a

## Introductions

### Research Computing Elsewhere

- UC Berkeley (David Greenbaum) – Rescheduled to December
- Purdue (Allen Schiano)
- University of Washington (Steve Franklin)

### RCI Symposium (Allen Schiano et al)

- January 27<sup>th</sup> at Calit2
- Review current draft agenda, speakers, participation from workgroup

### Developing RCI Vision Document

- Discuss key components, structure and potential assignments
- Components
  - Introduction
  - Perspective on criticality of RCI
  - RCI requirements: immediate, and longer term
    - Staff services
    - Network connectivity (pervasive and advanced)
    - Storage (pervasive and advanced)
    - Data management/sharing/curation
    - Computation (pervasive and advanced)
    - Working environment (software/database licenses, tools, etc.)
    - Cyber-facilities and access to external resources
  - RCI requirement perspective/priorities across disciplines
  - Education and training
  - Funding models/considerations
  - Organizational considerations
  - Draft budget – Phase 1 (immediate) and Phase 2 (longer term)

### Gathering Workgroup Input

- Discuss request for workgroup members to provide RCI vision input from the perspective of their discipline and/or school
- Review proposed questions to facilitate response

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*Cyberinfrastructure consists of computational systems, data and information management, advanced instruments, visualization environments, and people, all linked together by software and advanced networks to improve scholarly productivity and enable knowledge breakthroughs and discoveries not otherwise possible. [EDUCAUSE, 2009]*

*The goal of the workgroup is to build on the 2013 Faculty Assessment of the State of Research Computing effort to develop a “Research Cyberinfrastructure Vision” that significantly advances UCI research and scholarship capabilities.*

### Committee Organization:

- Co-Chairs: Suzanne Sandmeyer, Dana Roode
- “Executive Committee:” Suzanne Sandmeyer, Dana Roode, Padhraic Smyth, Filipp Furche, Ali Mortazavi, Lorelei Tanji, Laura Smart, Allen Schiano
- Administrative support: Nyma Cain

### Core Workgroup:

- Suzanne Sandmeyer, Biological Chemistry
- Padhraic Smyth, Computer Science / Data Science Initiative
- Ali Mortazavi, Developmental & Cell Biology
- David Mobley, Pharmaceutical Sciences
- Filipp Furche, Chemistry
- James S. Bullock, Physics & Astronomy
- David Theo Goldberg, Comparative Literature and Anthropology / Humanities Research Institute
- Said Elghobashi, Mechanical & Aerospace Engineering
- Jasper Vrugt, Civil & Environmental Engineering
- Aparna Chandramowlishwaran, Electrical Engineering & Computer Science
- Bryan Sykes, Criminology, Law and Society
- Crista Lopes, Informatics
- John Crawford, Dance
- Lorelei Tanji, University Librarian
- Laura Smart, E-Research & Digital Scholarship Services Librarian
- Dana Roode, Chief Information Officer & Associate Vice Chancellor
- Allen Schiano, OIT Research Computing
- Harry Mangalam, OIT Research Computing

### Additional Interested Parties:

- Elizabeth Martin, Psychology and Social Behavior
- Susan Turner, Department of Criminology, Law and Society
- Doug Tobias, Chemistry
- Keith Moore, Earth System Science
- Ioan Andricioaei, Chemistry
- Michael Franz, Computer Science
- Babak Shahbaba, Statistics
- Soroosh Sorooshian, Civil & Environmental Engineering
- Feng Liu, Mechanical & Aerospace Engineering
- Jesse Colin Jackson, Art