

Composition of the GENI Science Council

February 2007

Background

The Computing Community Consortium (CCC) was charged with working in partnership with NSF to establish a GENI Science Council (GSC) to represent the computing research community in guiding the Science Plan for GENI.

Separate documents describe the charter and structure of the GSC. This document focuses on the initial composition of the GSC.

Process

The CCC distributed a request for input via the CRA “Forsythe list” (the heads of the more than 200 organizations that are members of CRA) and via the ACM “TechNews” bulletin (a widely-subscribed weekly email bulletin). The CCC also posted this request on its website. The request (attached) sought input both on the research areas and individual characteristics that were important for the GSC, and on specific individuals who would be strong contributors.

Our many respondents suggested roughly 20 research areas and individual characteristics that they felt were important for the GSC, and more than 100 specific individuals. The CCC, in consultation with NSF, selected an initial membership of the GENI Science Council based upon this community input.

Our selection criteria

Among the selection criteria that the CCC and NSF felt were most important:

- The GSC should have no more than 20 members, both for manageability and to encourage each member to be highly engaged.
- Members should have strong individual reputations in the GENI-relevant research communities. They should be recognized as “deep thinkers,” and should have broad recognition and respect.
- To the extent possible given the many constraints, most GENI-relevant research communities should be represented on the GSC.
- There should be representation of the GENI Planning Group, but it should be modest, in order to assure the community of openness and to provide additional points of view.
- Individuals who are likely to have key roles in GENI Project Office (GPO) responses should not serve on the GSC, so that the GSC can offer independent advice if requested. (Such individuals can be appointed to the GSC at a later time.)
- There needs to be representation from the networking industry that builds components and provides network engineering expertise for the alternative

technologies. These appointments (likely one to two individuals) cannot be made until after the NSF GPO solicitation has concluded.

- To the extent possible, we should seek diversity of all sorts: geographical, institution type, gender, ethnic, etc.

Initial membership of the GENI Science Council

Every individual who was asked to serve on the GENI Science Council was willing to do so. The following individuals have agreed to serve.

1. Tom Anderson, University of Washington, distributed systems and networking (member of GENI Planning Group)
2. Hari Balakrishnan, MIT, wireless networking
3. Joe Berthold, CIENA, optical networking
4. Charlie Catlett, Argonne National Laboratory, grid computing (member of CRA GENI Community Advisory Board)
5. Mike Dahlin, University of Texas, distributed systems
6. Stephanie Forrest, University of New Mexico, biological system modeling, security
7. Roscoe Giles, Boston University, educational technology
8. Ed Lazowska, University of Washington, systems (member of Interim CCC Council and CRA GENI Community Advisory Board)
9. Peter Lee, Carnegie Mellon University, software (member of CRA GENI Community Advisory Board)
10. Helen Nissenbaum, NYU, social, ethical, and political dimensions of IT
11. Jennifer Rexford, Princeton, networking (member of GENI Planning Group)
12. Stefan Savage, UCSD, networking and security
13. Scott Shenker, **chair**, UC Berkeley, networking (member of GENI Planning Group)
14. Alfred Spector, IBM (ret.), software
15. Ellen Zegura, **vice chair**, Georgia Tech, networking, including wireless (member of Interim CCC Council and CRA GENI Community Advisory Board)

Scott Shenker has agreed to serve as Chair of the GSC, and Ellen Zegura has agreed to serve as Vice Chair. Some additional members will be added in the near future to round out the GSC in various ways. Terms of service (including staggering of the terms of the initial appointees) will be determined shortly.

CCC solicitation of advice from the computing research community

From: Ed Lazowska
Sent: Thursday, November 16, 2006 10:58 AM
To: 'forsythe@cra.org'
Cc: Ed Lazowska; 'chairsccc@cra.org'
Subject: Your advice solicited re GENI Science Council

I write to solicit advice from you and members of your unit regarding the composition of the GENI Science Council.

The National Science Foundation has asked the Computing Research Association to establish a Computing Community Consortium (CCC) to help the computing research community focus on long-term research visions. See <http://www.cra.org/ccc/>

One task of the CCC is to establish a GENI Science Council (GSC) to evolve the science plan for the GENI initiative -- the Global Environment for Network Innovations. See <http://www.geni.net/>

We have only two weeks to establish the GSC in accordance with NSF's schedule. We seek the input of you and members of your unit regarding:

- the research areas that should be represented on the GSC
- other characteristics that should be possessed by the GSC overall
- specific individuals who you think would be strong contributors to the GSC

For reasons of manageability, we envision that the GSC will include only perhaps a dozen individuals, so this is a badly over-constrained problem. However, members will rotate over time. We earnestly solicit your advice.

Responses may be sent to Andy Bernat at CRA:

abernat@cra.org