

GENI Going Forward: Community Engagement

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GPO

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Major GENI Communities



End Users: Researchers, Educators
Run experiments on GENI



Campus IT, R&E Network Operators
Host and manage GENI resources
Provide wide-area network connectivity



**National and International
Cyber-Infrastructures**
Federate with GENI



Infrastructure and Tool Developers
Develop GENI software

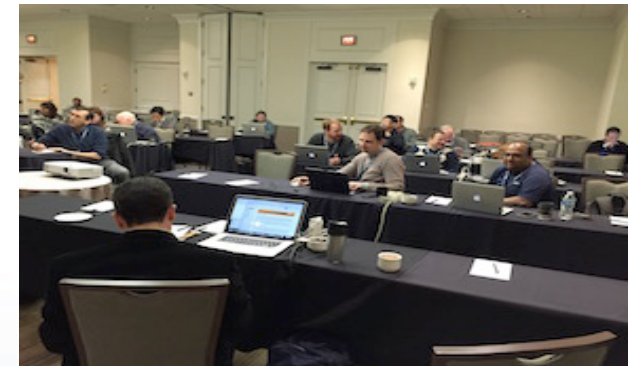
Bulk of engagement activities focused on end users

End User Engagement: Objectives

- Grow the user community
- Support existing users
- Foster a sense of community

Engagement activities carried out by the community and the GPO

- Largest community building and training venue
 - Tutorials
 - About 80% of the sessions in recent years
 - Sessions for developers and operators
 - Demo/poster session
- Cost per GEC:
 - ~\$50K for logistics
 - ~\$80K in travel grants
 - ~4 GPO person weeks (3 GECs a year)



Teasing apart GEC Functions

(Plan for 2016)



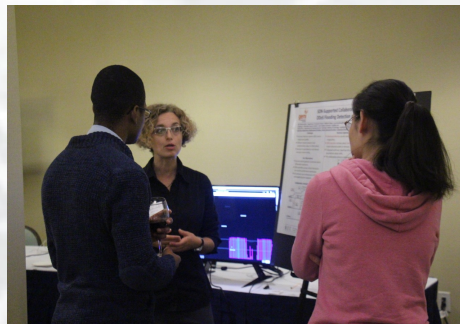
GENI Engineering Conference
(1 per year, 2-days, fewer sessions)
Less expensive than recent GECs
Developer community engagement
Federation with other cyber-infrastructures

Next GEC: March 2016



Regional Workshops
(4 per year)
~17K + 2 GPO person weeks
User community engagement

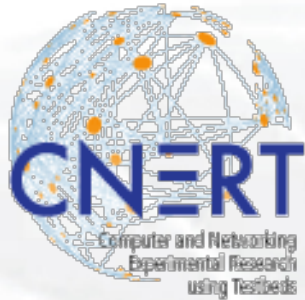
Next workshop: March 2016



GENI NICE
(1 per year)
~145K + 2 GPO person weeks
Fostering a sense of community
- Celebrating GENI successes

Week-long **Summer/Winter camps**

- At camp: Learn to use GENI, do a group project
 - After camp: Expand idea, publish
- ~25K + organizers and GPO staff time*



CNERT

- Workshop for research and instruction using testbeds
- In conjunction with a networking/distributed systems conference

Largely community organized, led by a GPO-funded team

Education Workshops

- Organized by Jeannie Albrecht (Williams College)
- Develop a community of educators using GENI
- July 2012 and Oct 2013



NSF Workshop on GENI in Education

Brooklyn, New York

**THE GEORGE
WASHINGTON
UNIVERSITY**
WASHINGTON, DC



GWU/Cisco SDN Application Challenge

- Prizes from \$6,500 to \$1,000, sponsored by Cisco
 - Winning teams did a poster/demo at a GEC
- Judges were volunteers from the community and GPO*

- Online tutorials and documentation
- Custom setups for experimenters
- Review potentially disruptive experiments
- Course modules for educators
- Support mailing lists
 - geni-users@googlegroups.com
 - geni-educators@googlegroups.com
 - help@geni.net

- Community members - \$430K
 - Organize camps, webinars, CNERT, events at conferences
- GPO - 1.7 FTES
- “Free” help from the community
 - GENI talks, tutorials, classes, mailing lists

- End users: Researchers and educators
 - Run experiments on GENI
- Campus IT departments
 - Host and manage GENI resources
- Operators of R&E networks
 - Provide wide-area network connectivity
- Infrastructure and tool developers
 - Develop GENI software
- National and international cyber-infrastructures
 - Federate with GENI

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