



GENI

Wait...there is more!

**USENIX NSDI
2 April 2013**

www.geni.net



- Instrumentation & measurement (I&M)
- Resources for educators using GENI
- Resources for GENI experimenters
- GENI Solicitation 4
- GENI Engineering Conferences

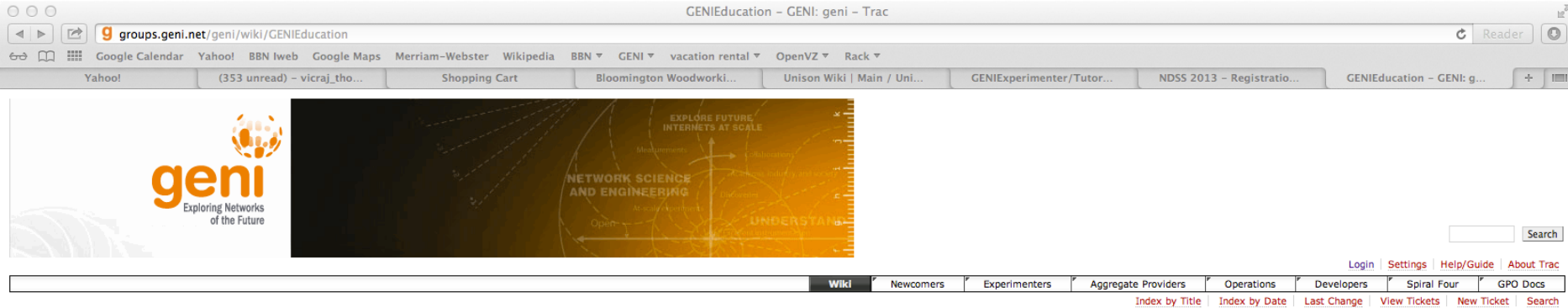
- Two major I&M systems being implemented
 - GEMINI (Indiana U. & U. of Kentucky)
 - GIMI (U. of Massachusetts, RENCi, NICTA)
- Support for active and passive measurements
- Repositories for archiving (and searching) for measurement data & meta-data being built

Demo of the GEMINI I&M System

<http://groups.geni.net/geni/wiki/GEC16Agenda/InstaGENI-GEMINI-Handson>

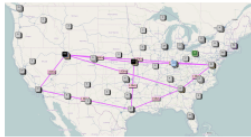
- Instrumentation & Measurement (I&M)
- Resources for educators using GENI
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- GENI Solicitation 4
- 17th GENI Engineering Conference

<http://groups.geni.net/geni/wiki/GENIEducation>



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The Global Environment for Network Innovations – **GENI** – is a suite of **research infrastructure** rapidly taking shape in prototype form across the United States. It is sponsored by the National Science Foundation, with the goal of providing a **laboratory environment** for **networking and distributed systems research and education**. It is well suited for exploring **networks at scale** thereby promoting innovations in network science, security, services and applications.



GENI is a networked federation of multiple testbeds that form a large-scale distributed testbed that you can use in a classroom or in tutorials to teach students networking and distributed system concepts. If you would like to give GENI a try and you don't have a GENI account, [Sign Up!](#) and go through our [Hello GENI example](#).

Getting Started

If you want to either use GENI in your class, or you like to do a GENI tutorial you will have to first [create a GENI project](#) and then [choose the material](#) you want to present.

Resources for using GENI in the classroom

GENI is a federated virtual laboratory that provides access to multiple different testbeds to GENI experimenters, enabling networking and distributed systems research. GENI can also be used These are some useful pointers that will help you navigate through the GENI world. Feel free to email us with any questions you might have at help@geni.net.



Example Assignments



Resources for Instructors



Help using GENI for education

Download in other formats:

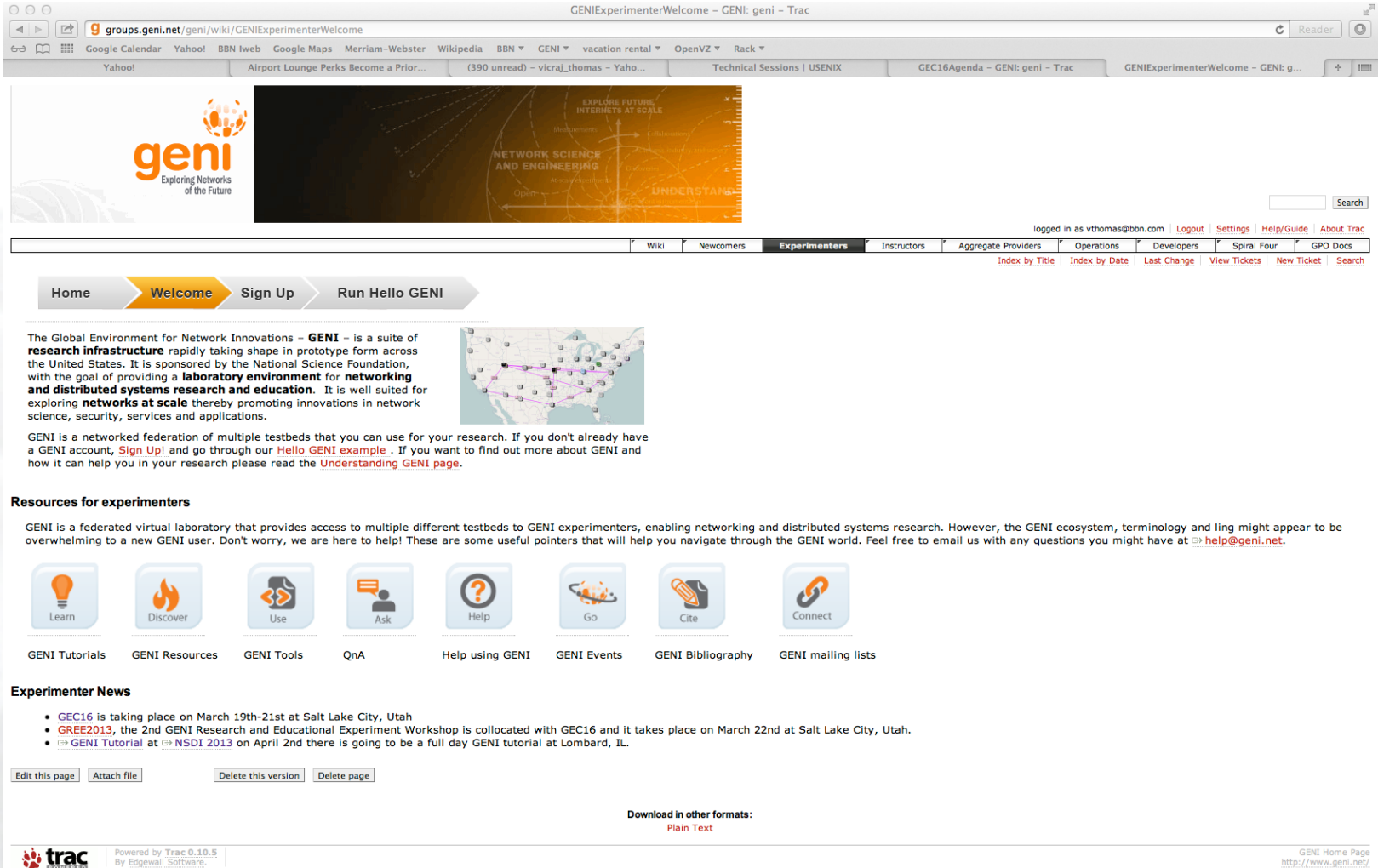
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- Sample exercises with instructor manuals
- Tips on setting up accounts for instructors, TAs and students
- List of instructors who have used/are using GENI in their classes
- Travel grants for instructors and TAs to attend the GENI conferences
 - Hands-on tutorials for beginner to advanced users
- Week-long summer camp
 - Next camp: June 2013
- Planned: Training classes for TAs in the late summer/early Fall

help@geni.net

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GENI is a networked federation of multiple testbeds that you can use for your research. If you don't already have a GENI account, [Sign Up!](#) and go through our [Hello GENI example](#). If you want to find out more about GENI and how it can help you in your research please read the [Understanding GENI page](#).

Resources for experimenters

GENI is a federated virtual laboratory that provides access to multiple different testbeds to GENI experimenters, enabling networking and distributed systems research. However, the GENI ecosystem, terminology and ling might appear to be overwhelming to a new GENI user. Don't worry, we are here to help! These are some useful pointers that will help you navigate through the GENI world. Feel free to email us with any questions you might have at help@geni.net.

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[GENI Tutorials](#) | [GENI Resources](#) | [GENI Tools](#) | [QnA](#) | [Help using GENI](#) | [GENI Events](#) | [GENI Bibliography](#) | [GENI mailing lists](#)

Experimenter News

- [GEC16](#) is taking place on March 19th-21st at Salt Lake City, Utah
- [GREE2013](#), the 2nd GENI Research and Educational Experiment Workshop is collocated with GEC16 and it takes place on March 22nd at Salt Lake City, Utah.
- [GENI Tutorial](#) at [NSDI 2013](#) on April 2nd there is going to be a full day GENI tutorial at Lombard, IL.

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GENI Home Page
<http://www.geni.net/>

- Mailing lists with active support from GENI experimenters and developers
- 24/7 help desk
 - Currently primarily for operations related questions
 - What is the status of the GENI Rack at Princeton?
 - Why am I unable to set up a vlan from Utah to Kentucky?
 - Soliciting proposals for an experimenter focused help-desk
- Tutorials and workshops
 - At conferences including the GENI Engineering conferences
 - Summer camps

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- **Experimenter Tools**
 - Software tools for experimenters
 - 8 awards, \$50K–\$300K/year, 2 years
- **Advanced Experiments, Services, Applications**
 - Large-scale, IP or non-IP, opt-in users
 - 10 awards, \$50K–\$200K/year, 2 years
- **Documentation and Training**
 - For use by experimenters, educators and students
 - 5 awards, \$50K–\$100K/year, 2 years
- **Operations Transition**
 - Network operations, monitoring, incident response, archival services, help desk
 - 1 award, \$350K/year, 2 years
- **Transitioning to a Self-Sustaining Community**
 - 5 awards, \$50K–\$200K/year, 2 years

Proposals Due: 15 April 2013

- **17th meeting, open to all:
21-23 July 2013, University of Wisconsin**
 - Planning & discussion for experimenters, software, infrastructure
 - Tutorials and workshops
 - **Travel grants** to US academics for participant diversity

