

Highlights of RIT's Summer Camp

The First GENI Research and Educational Experiment Summer Camp

GREE-SC 2012

*29 May - 2 June 2012
RIT, Rochester, New York*

Kaiqi Xiong

On behalf of the Organizing Committee

Mark Berman, BBN-GPO

Yong Guan, Iowa State

Yin Pan, RIT

Niky Riga, BBN-GPO

Bing Wang, Uconn

Kaiqi Xiong, RIT

Statistics and Feedback

About 31 applications (*most of them were from top universities*):

- Two international applications and two faculty except RIT faculty

Attendance:

- 10 funded including two undergraduate students.
- Eight unfunded including one research team leader from Xerox

Goal:

- Understand multiple GNEI resources to do projects

Feedback:

- Post-evaluation survey: 42.86% and 57.14% of the camp participants ranked RIT's summer camp as 4 and 5 out of 5, respectively
- Instructor impressions: "... incredibly successful in ramping up students to use GENI for pursuing interesting research..." and "... are unique opportunities for both the developers of GENI tools and the experimenters. The experimenters are able to gain hands-on experience with some of the most widely-used and helpful tools in GENI ..."

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Summer Camp Schedule

	May 29	May 30	May 31	June 1	June 2
Block I	Welcome and expectations, pre-evaluation, etc. Intro to GENI (Andrew Sears & Mark Berman; 0.5 hr)	Omni and OpenFlow Tutorial (KC Wang & Reece Johnson)	PrimoGENI tutorial (Jason Liu & Miguel Erazo)	Continue the team project	Continue the project presentation preparation
Block II	FLACK and INSTOOLS (Zongming Fei And Hussamudin Nasir 2.5 hrs)	Team labs/ project using Omni and OpenFlow (Wang & Johnson) NSF Advice (Bryan Lyles)	Team labs/ projects using PrimoGENI (Jason Liu & Miguel Erazo)	Continue the team project	Team project presentations, and post-evaluation
		Lunch			
Block III	Intro to GENI Technologies (Mark Berman & Niky Riga; 1.5 hrs) Omni tutorial Tutorial (KC Wang & Reece Johnson; 1 hr)	Gush Tutorial (Jeannie Albrecht; 2.5 hrs)	Tour to RIT Computing Facility ("Tell and Show," 1 hr)	One-on-one meeting with GPO and continue the team project	
Project	Introduction to team projects and team formation (1 hr)	Project brainstorming and practice (1 hr)	Tour Dinner starts at 6:30-6:45pm	Project Presentation preparation	

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Student Project Teams

- **Team 1:**
Network Performance Evaluation via OpenFlow
by Terry Xing (ASU), Ruofan Jin (Uconn), and Yuefeng Wang (BU)
- **Team 2:**
Seamless On-the-Fly Compression with OpenFlow
by Benjamin Ujcich, and Derek O'Neill
- **Team 3:**
Computing Resource Allocation by Using OpenFlow
by Xinjie Guan (UMKC), Xili Wan (UMKC), and Ruiling Gao (Tufts)
- **Team 4:**
Performance and Security Evaluation of Single System Image over Wide Area Networks Using ProtoGENI
by Mohammad Husain (SUNY Bufflao), Lokesh Mandvekar (SUNY Bufflao), and Biswajit Bishwal (TSU)
- **Team 5:**
Network Resource Allocation via OpenFlow
by Anand Akella, Praveen Iyengar, Jiten Patel, and John Nguyen (RIT)
- **Team 6:**
Load Balancing
by Libraria Santos and Akshada Pol (RIT)

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