NetSci High Workshop & Conference 2014

July 17-25, 2014
Boston University

Accommodations: Check-in after 2PM at The Tree House at MassArt, 578 Huntington Avenue, Boston. Phone: 617-879-5105

Dining Facilities: All meals are at Boston University’s Warren Towers, 700 Commonwealth Avenue. You will need to wear your “NetSci High 2014” badges to get in through security. At the check-in to the dining hall, simply say you are “prepaid” through the workshop (and again wear your badges). On weekdays, breakfast begins at 7 am, lunch at 11:30 am, and dinner at 5 pm. On weekends, brunch begins at 10:30 am and dinner at 5 pm.

Workshop Location: Boston University Science Center at 590 Commonwealth Avenue

Workshop Rooms:

- SCI 113 - auditorium on first floor
- SCI 352 - conference room on third floor
- SCI 128/130 - computer labs on first floor
- SCI Lounge - main lounge on first floor
- PRB 595, 353, 365 - rooms in physics research building

Workshop Organizers:

- Paul Trunfio, Boston University - Cell/text: 617-833-3370
- Steve Uzzo, New York Hall of Science - Cell/text: (631) 645-3508
- Hiroki Sayama, Binghamton University - Cell/text: (607) 743-3915
- Catherine Cramer, New York Hall of Science - Cell/text: (508) 274-1354
- Lori Sheetz, West Point - Cell/text: (303) 906-7403
- Gene Stanley, Boston University

Program Website: www.bu.edu/networks/

WiFi Access at BU:

Guest ID: 162846
Name: netscihigh
Thursday July 17 - Student Workshop Day 1

** Get "Charlie Ticket" passes activated for 1 week at Kenmore ($19)

7:00 am – Breakfast (700 Commonwealth Avenue, Warren Towers, BU)

9:00 am – SCI 352 – 590 Commonwealth Avenue
   - Welcome & Overview

9:30 am – SCI 352
   - "Informal Chat” #1 with Sandy Pentland, MIT

10:30 am – Science Center Lounge
   - Get to Know You Activity

11:30 am – Lunch (700 Commonwealth Avenue, Warren Towers, BU)

1:00 pm – SCI Courtyard
   - Activity: Columbian Hypnosis

1:30 pm – SCI 130
   - Gephi: Visual Representation of Networks

2:30 pm – SCI 130
   - Graphr: Hands-on Network Visualization Tool

3:15 pm – SCI 130
   - Install NetLogo & Network Interactives

4:00 pm – SCI 352
   - Wrap Up
     - Introduce “Talk Show”

5:00 pm – Dinner (700 Commonwealth Avenue, Warren Towers, BU)
Friday July 18 - Student Workshop Day 2

7:00 am – Breakfast (700 Commonwealth Avenue, Warren Towers, BU)

9:00 am – SCI 113

- “Talk Show #1”

9:30 am – SCI 113

- An Overview of Network Science
- “Rookie’s Guide to Networks”
- Spread of Information on a Network
- Naming Networks

11:30 am – Lunch (700 Commonwealth Avenue, Warren Towers, BU)

1:00 pm – SCI 113

- “Talk Show #2”

1:30 pm – SCI 113

- “Imaginary Board of Directors Activity” (Brooke Foucalt-Wells)

2:45 pm – SCI 113

- Data Visualization Tour

3:45 pm – SCI 113

- Group Network Exploration Challenge Assignment

4:00 pm – SCI 113

- Tips for Making Presentations
- Wrap Up

5:00 pm – Dinner (700 Commonwealth Avenue, Warren Towers, BU)
Saturday July 19 - Student Workshop Day 3

8.45 am – SCI 113

- “Talk Show #3”

9:00 am – SCI 128 & 130

- Python and NetworkX Installation
- Getting Started in Programming
- Network Analysis, Visualization and Simulation in Python Programming Language
- NetworkX Programming Basics
- Reading, Writing and Plotting Network Data

10:30 am – Brunch (700 Commonwealth Avenue, Warren Towers, BU)

12:00 pm – SCI 128 & 130

- Degree Distributions
- Characteristic Path Lengths
- Connectivity
- Clustering Coefficient
- Centrality
- Community Detection
- Coreness
- Dynamic Simulation of Networks

2:00 pm – SCI 113

- “Talk Show #4”

2:15 pm – SCI 113

- Design & Networks Workshop (Isabel Meirelles, Northeastern University)

5:00 pm – Dinner (700 Commonwealth Avenue, Warren Towers, BU)
Sunday July 20 - Student Workshop Day 4

10:30 am – Brunch (700 Commonwealth Avenue, Warren Towers, BU)

5:00 pm – Dinner (700 Commonwealth Avenue, Warren Towers, BU)

Monday July 21 - Student Workshop Day 5

7:00 am – Breakfast (700 Commonwealth Avenue, Warren Towers, BU)

9:00 am – SCI 352
- “Talk Show #5”

9:20 am – SCI 352
- Group Network Exploration Challenge Presentations

11:30 am – Lunch (700 Commonwealth Avenue, Warren Towers, BU)

1:00 pm – SCI 113
- “Talk Show #6”

1:20 pm – SCI 113
- Informal Chat #2: Erzsébet Ravazs Regan (Beth Israel Deaconess Medical Center)

2:30 pm – SCI 128 & 130
- Parallel Workshop 1: Getting Started with Processing
- Parallel Workshop 2: Friendship Paradox

3:30 pm – SCI 128 & 130
- Swap Workshops

5:00 pm – Dinner (700 Commonwealth Avenue, Warren Towers, BU)
Tuesday July 22 - Student Workshop Day 6

7:00 am – Breakfast (700 Commonwealth Avenue, Warren Towers, BU)

9:00 am – SCI 113
- “Talk Show #7”

9:20 am – SCI 128 & 130
- Parallel Workshop 1: How Google Works
- Parallel Workshop 2: Networks and Diseases

10:20 am – SCI 128 & 130
- Swap Workshops

11:30 am – Lunch (700 Commonwealth Avenue, Warren Towers, BU)

1:00 pm – SCI 113
- “Talk Show #8”

1:20 pm – SCI 113
- Informal Chat #3: Brian Keegan (Northeastern University)

2:30 pm – SCI 113
- Chalk Talk
- Network Science Core Concepts in Small Groups

5:00 pm – Dinner (700 Commonwealth Avenue, Warren Towers, BU)
Wednesday July 23 - Student Workshop Day 7

7:00 am – Breakfast (700 Commonwealth Avenue, Warren Towers, BU)

9:00 am – SCI 352

- “Talk Show #9”

9:15 am – SCI 352

- Introduction to Project Brainstorming
  - Organizing Ourselves for the Year

10:00 am – SCI 352

- Collaborative project for Y2 and Y3 students

11:30 am – Lunch (700 Commonwealth Avenue, Warren Towers, BU)

3:00 pm – SCI 113

- Presentations of collaborative projects

5:00 pm – Dinner (700 Commonwealth Avenue, Warren Towers, BU)
Thursday July 24 - Student Workshop Day 8 (Research Conference)

7:00 am – Breakfast (700 Commonwealth Avenue, Warren Towers, BU)

9:00 am – Room TBD

- Welcome
- NetSci High 2013/14 Retrospective

9:20 am – Room TBD

- “Beethoven to Eminem” - Robin Wilkins, University of North Carolina, Greensboro

10:00 am – Room TBD

- Student Presentations

11:30 am – Lunch (700 Commonwealth Avenue, Warren Towers, BU)

1:00 pm – Room TBD

- “Coupled Networks” – Gene Stanley, Boston University

2:00 pm – Room TBD

- Presentation of Certificates
- Words of Wisdom Discussion

3:00 pm – Room TBD

- Online Survey
- Focus Group with Russ Faux

4:15 pm – SCI Courtyard

- Group Pictures

5:00 pm – Dinner (700 Commonwealth Avenue, Warren Towers, BU)