

## OIN Univ New Hampshire Workshop Agenda (v7 – Aug 21<sup>th</sup> 2014)

Presenters: Jason Zurawski (ESnet), Eli Dart (ESnet), Mary Hester (ESnet), Raj Kettimuthu (Globus), John Hicks (Internet2)

- **Day 1 (7 hrs total) = Science DMZ**
  - Breakfast (8am – 8:30am = .5hr)
  - Morning 1 (8:30am – 10:00am = 1.5hrs)
    - 30 Min = Workshop Introduction & Need for Science Engagement
      - **Presented by Jon-Paul, Mary, & Jason**
      - Purpose of event, introduction to problem space
    - 1 Hours = Science DMZ Introduction and Architecture
      - **Presented by Eli**
      - About ESnet, Motivation for design pattern, Architecture discussion, equipment choice
  - Break (30 min)
  - Morning 2 (10:30am -12:30pm = 2 hrs)
    - 30 Min = Science DMZ Introduction and Architecture (cont.)
    - 30 Min = Science DMZ Security
      - **Presented by Jason & Eli**
      - Security Discussion, techniques, use of IDSs (Bro)
    - 60 Min = DTN Design/Data Transfer Tools
      - **Presented by Eli & Mary**
      - Overview of hardware, use of software.
  - Lunch (12:30pm – 1:30pm)
  - Afternoon 1 (1:30pm – 3pm = 1.5hrs)
    - 1 Hours = Globus Presentation & Hands on
      - **Presented by Raj**
      - Presentation on Globus as a data transfer tool
      - Hands on component (with home work assignment)
        - Server component install + client application
    - 30 Min = perfSONAR & Network Monitoring
      - **Presented by Jason**
      - pS Overview. Tool use and setup. Hands on component
  - Break (30 min)
  - Afternoon 2 (3:30pm – 5:30pm = 2 hrs)
    - 35 Min = perfSONAR & Network Monitoring (cont.)
    - 35 Min = perfSONAR Use Cases
      - **Presented by John**
      - Overview of ways in which perfSONAR has solved community problems
    - 40 Min = Community Talks
      - Patrick Messer (UNH) - Science Drivers for UNH's Science DMZ
      - Doug Green (UNH) - Science DMZ Design for UNH
    - 10 Min = Discussion Topics, Questions, Spill
      - **Presented by ESnet**

*Presenters: Jon-Paul Herron (GRNOC), Tom Johnson (GRNOC), Ed Balas (GRNOC), Brent Sweeny (GRNOC), Matt Zekauskas (Internet2), John Hicks (Internet2)*

- **Day 2 (7 hrs total) = SDN & AL2S**
  - Breakfast (8am – 8:30am = .5hr)
  - Morning 1 (8:30am – 10:00am = 1.5hrs)
    - 15 Minutes = Intro for workshop
      - **Presented by Jon-Paul and local host**
    - 45 Minutes = SDN Building Blocks, Use Cases and Models
      - **Presented by IU Staff**
    - 30 Minutes = OpenFlow Tutorial
      - **Presented by IU Staff**
  - Break (30 min)
  - Morning 2 (10:30am -12:30pm = 2 hrs)
    - 30 Min = OpenFlow Tutorial
      - **Presented by IU Staff**
    - 1 Hour = OpenFlow Hands-on Exercise
      - **Presented by IU Staff**
    - 30 Min = Considerations for SDN Hardware & Software
      - **Presented by IU Staff**
  - Lunch (12:30pm – 1:30pm)
  - Afternoon 1 (1:30pm – 3pm = 1.5hrs)
    - 45 Min = Internet2 AL2S
      - **Presented by Matt**
    - 45 Min = Network Functions Virtualization & SDX
      - **Presented by Matt/John**
  - Break (30 min)
  - Afternoon 2 (3:30pm – 5:30pm = 2 hrs)
    - 60 Min = SDN Troubleshooting Exercise
      - **Presented by IU Staff**
    - 30 Min = SDN Testing/Validation
      - **Presented by IU Staff**
    - 20 Min = Community Talks
      - John Greenwald (Yale) - Science DMZ at Yale
    - 10 Min = Discussion Topics, Questions, Spill
      - **Presented by IU**