

GLIF Americas (GLIF-Am) Community Meeting
Monday, 28 September 2015 (1:30 – 4:30 pm)
Co-Located With the 15th Annual Global LambdaGrid Workshop
Hotel International, Prague, Czech Republic

ATTENDEES

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|-----------------------|------------------------------------|---------------------------------|
| Jeronimo Bezerra | AMPATH/AmLight/FIU | jbezerra@fiu.edu |
| Eric Boyd | Internet2 | eboyd@internet2.edu |
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| Andrew Lee | Indiana University | leea@iu.edu |
| Marc Lyonnais | Ciena | mlyonnai@ciena.com |
| Joe Mambretti | iCAIR/NU/StarLight/MREN | j-mambretti@northwestern.edu |
| John Moore | Internet2 | jmoore@internet2.edu |
| Alex Moura | RNP | alex@rnp.br |
| Kees Neggers | <i>independent</i> | kees@neggers.net |
| Yves Poppe | A*STAR | ywpoppe@acrc.a-star.edu.sg |
| Dave Reese | CENIC | dave@cenic.org |
| John Silvester | USC/CENIC | silvester@usc.edu |
| Thomas Tam | CANARIE | thomas.tam@canarie.ca |
| Jin Tanaka | APAN-JP/KDDI | tanaka@ote.kddi.com |
| Gerben van Malenstein | SURFnet | Gerben.vanMalenstein@surfnet.nl |
| David Wilde | AARnet | David.Wilde@aarnet.edu.au |
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| Linda Winkler | ANL/StarLight | lwinkler@anl.gov |
| T. Charles Yun | REANNZ | tcyun@reannz.co.nz |

- A. Meeting Objectives:** Meeting logistics overview, Introductions, Review of agenda/meeting objectives, Review of key topics from the GLIF-Am 2014 meeting in Queenstown, New Zealand
- B. Major Trends in Americas' International Connection Requirements and Communities Served**
1. New opportunities for 100 Gbps international paths
 2. Projections for resources required *beyond* bandwidth (e.g., programmable networking) 2015-2021
 3. Areas of major potential new technology based opportunity

Joe Mambretti discussed Software Defined Networks (SDN), Software Defined Network Exchanges (SDXs), Cloud Computing, Green Networking, Transoceanic Fiber Builds, Research Testbeds, Science DMZs, and Distributed NOCs. He also discussed how we are moving away from static networks to programmable networks, enabling users to tailor services to their application requirements.

C. Key Initiatives Related to North and South American R&E International Networking

See PPTs

1. New NSF IRNC Awards
 - a. IRNC: ENgage: Building Network Expertise and Capacity for International Science Collaboration – Maxine Brown on behalf of **Steve Huter**, University of Oregon
 - b. IRNC: Backbone: AmLight Express and Protect (ExP) – **Chip Cox**, Vanderbilt University
 - c. IRNC: Backbone: SXTransPORT Pacific Islands Research and Education Network (PIREN) – Dave Reese on behalf of **David Lassner**, University of Hawaii
 - d. IRNC: BackBone: TransPAC4: Pragmatic Application-Driven International Networking – **Andrew Lee**, Indiana University
 - e. IRNC: RXP: AtlanticWave-Software Defined Exchange: A Distributed Intercontinental Experimental Software Defined Exchange (SDX) – **Jeronimo Bezerra**, Florida International University
 - f. IRNC: RXP: StarLight SDX A Software Defined Networking Exchange for Global Science Research and Education – **Joe Mambretti**, Northwestern University
 - g. IRNC: RXP: Pacific Wave Expansion Supporting SDX & Experimentation – **Dave Reese**, CENIC
 - h. IRNC: NOC: Global Research Network Operations Center at Indiana University Enabling International Science and Innovation – Andrew Lee on behalf of **Dave Jent**, Indiana University
 - i. IRNC: AMI: The InSight Advanced Performance Measurement System – **Greg Cole**, University of Tennessee
 - j. IRNC: AMI: Software-Defined and Privacy-Preserving Network Measurement Instrument and Services for Understanding Data-Driven Science Discovery – **Gabriel Ghinita**, University of Massachusetts, Boston, and Cody Bumgardner, University of Kentucky
 - k. IRNC: AMI: NetSage: An Open, Privacy-Aware, Network Measurement, Analysis, and Visualization Service – **Andrew Lee**, Indiana University
2. DOE ESnet international networking initiatives – **Chin Guok**, ESnet
3. Internet2 international networking perspective – **Dale Finkelson**, Internet2; PerfSONAR brief talk by Eric Boyd, Internet2
4. CANARIE international networking perspective – **Thomas Tam**, CANARIE
5. RNP/SouthernLight – **Alex Moura**, RNP

E. Wrap-Up