



Brittany Lynn receiving their prizes for the OIDA posters



NEWS LETTER

MAY 2013

# Center for Integrated Access Networks Industry Newsletter

## New IAB Chairperson: Madeline Glick

We want to congratulate and welcome Madeline in her role as IAB chair. We also want to thank Dan Kilper for his outstanding efforts during his tenure. A short bio on Madeline is shown below.

Madeleine Glick is Senior Research Scientist at APIC Corporation in Culver City, CA where she is working on optical interconnection networks for data center and high performance computing applications. Prior to this, from 2002-2011 she was a Principal Engineer at Intel. She has also been an adjunct professor in the Department of Electrical and Computer Engineering, Carnegie Mellon University (2008-2011) and a visitor at the Cambridge Computer Lab (2007). She received the Ph.D. degree in physics from Columbia University, New York, in 1988. She then joined the Physics Department, EPFL, Lausanne, Switzerland and from 1992 to 1996, was a Research Associate with CERN, on the Lightwave Links for Analogue Signal Transfer Project for the LHC detector.

Madeleine is a Fellow of the Institute of Physics and a Senior Member of IEEE. She was on the Board of Governors of the IEEE

Photonics Society 2010-2012. She is an associate editor of the IEEE Journals Photonics Technology Letters and the Journal of Optical Communications and Networking and General co-Chair for Hot Interconnects 2013. She has published over 100 articles and conference proceedings.

## Annual NSF Site Visit

We will hold the annual NSF Site Visit on Tuesday (5/7) and Wednesday (5/8) at CalIT2 facility at UCSD. We will host a dinner with the CIAN staff and IAB members on Monday night (5/6) at the Sheraton La Jolla. I wanted to thank everyone that has registered online or with Trin. There is still time of let Trin know if you will be able to attend. Tuesday will be devoted to presentations by the Thrust Leads, Education, Students and ILO team. The Testbed tours begin at 11:30 am. The Innovation/Industry presentation begins at 3:30 pm and the NSF Executive session with Industry begins at 4:30 pm.

## Tech Tip

You can always retrieve your login and password information by going to <http://data.cian-erc.org> and entering your valid email address and your login information will be sent out to you automatically.

## CIAN YR 5 Annual Reports

The CIAN team completed the NSF Annual Report (Volumes 1 and 2) summarizing our Year 5 progress and activities. The documents are available on the CIAN Data website and public web site both, (<http://www.cian-erc.org/industry.cfm> Login --> Meeting Tab ), (<http://data.cian-erc.org>). After logging in, select document archive, chose Administration/Management as the Category and select 2012 – 2013 as the Reporting Year. The two PDF files should be available for downloading

**Research Updates**

Dr. Axel Scherer recently gave a colloquia on his work on “Nanofabricated Silicon Devices: Nanosensors and Nano-Spectroscopy Systems” where he discussed his group’s recent progress on tunable filters. The colloquia can be accessed through the College of Optical Sciences website: <http://www.optics.arizona.edu/news-events/events/colloquium-axel-scherer>  
 Click on the link for the video of the presentation.

Thirteen students presented posters on their research activities at the OIDA/CIAN roadmapping meeting on Sunday, March 17th. The presentations are available on the CIAN data website ( <http://data.cian-erc.org> ). Brittany Lynn’s poster on “High-Speed Holographic Optical Switch for Data Communications Applications” was awarded first place. Weiyang Mo’s poster on “Hybrid OpenFlow: Towards hybrid software defined networking” and Cathy Chen’s poster on “Optically Interconnects for Hardware Accelerator Enabled Utility Computing” tied for 2nd place. Congratulations to the winners and thanks to all of the students to presented.

Download Posters : [Link](#)



### **Recent Publications**

"Plasmonic coupled nanotorch structures leading to uniform surface enhanced Raman scattering detection."

Author(s): CHEN, HaiPing Matthew ., PANG, Lin ., KING, Andrew ., HUANG, G.M. ., FAINMAN, Yeshaiahu .,  
Journal: Nanoscale

"Silicon nanophotonic devices for chip-scale optical communication applications."

Author(s): FAINMAN, Yeshaiahu ., NEZHAD, Maziar P., TAN, Dawn T.H., IKEDA, Kazuhiro ., BONDARENKO, Olesya ., GRIECO, Andrew .,  
Journal: Applied Optics

"A demonstration of ultra-low-latency data center optical circuit switching."

Author(s): FARRINGTON, Nathan ., PORTER, George ., SUN, Pang-Chen ., FORENCICH, Alex ., FORD, Joseph ., FAINMAN, Yeshaiahu ., PAPAN,  
George ., VAHDAT, Amin .,  
Journal: SIGCOMM'12 Computer Communication Review

### **Upcoming Events**

#### **NSF Site Visit**

**Date:** May 7-8 2013 San Diego, CA. On Monday May 6 at 7:00 pm we will hold an IAB/CIAN dinner. Please contact Trin Riojas ([trin@optics.arizona.edu](mailto:trin@optics.arizona.edu)) if you will be able to attend.

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