"Building US/Mexico Collaborations Using Optical Networks"

Opening Workshop Welcome

Big Data Big Network 2

Calit2's Qualcomm Institute

February 10, 2014

Dr. Larry Smarr

Director, California Institute for Telecommunications and Information Technology

Harry E. Gruber Professor,

Dept. of Computer Science and Engineering

Jacobs School of Engineering, UCSD

http://lsmarr.calit2.net

A Twelve Year Journey: Creating a Great Data Network Between UCSD and CICESE

- UCSD Meeting on Joint CICESE/Calit2 Proposal Sept 2002
- SDSU's Eric Frost Talk at CUDI Meeting at CICESE April 2003
- Arzberger PRAGMA Talk-CUDI in Puebla, Mexico October 2003
- Visit by CICESE and CONACYT to Calit2 Jan 2004
- Visit by Calit2 and OptIPuter to CICESE March 2004
- Visit by CICESE and CONACYT to Calit2 AHM April 2004

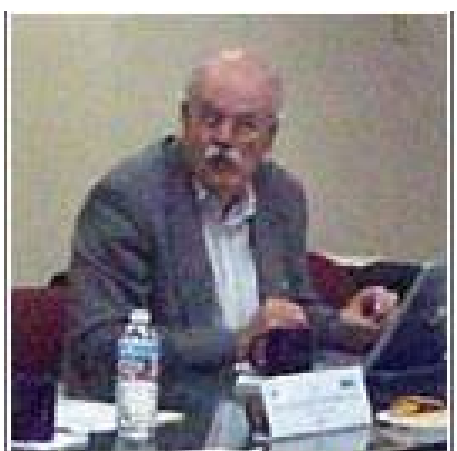




Jaime Parada, Felipe Rubio, & Carlos Duarte at the Calit2 All Hands Meeting



Maxine Brown, Larry Smarr, Javier Mendieta, Tom DeFanti



Carlos Casasús, director of CUDI, Mexico's Internet2

CUDI-CENIC Fiber Dedication at Border Governor's Conference, July 14, 2005



US Mexico

Torreon Conference---Fiber Dedication Linking Mexico and US, crossing at San Diego-Tijuana



- **Shared Security**
- **Energy**
- **Trans-National Crime**
- **Education and Research**
- **Business Development**

Culmination of Three Years of Work Between Calit2, CICESE, CENIC, and CUDI



Success in First Phase—
OptIPortal is Installed in CICESE—First in Mexico



CICESE, Mexico

September 19, 2008

The Final Push

- LS OptIPuter Talk at CUDI Fall Meeting 2006 San Luis Potosi
- Dec 2006 CONACYT Funds Calit2/Mexico Collaborations
- 2006-7 Calit2 Sets up Funding Contracts for CUDI and CICESE
- 2007-8 CICESE Gets Training in Visualization from Calit2
- 2007 Visits Between Calit2 and CICESE
- Sept 2008 CICESE Constructs OptIPortal
- 2009-11 Investigations of Networking Possibilities
- 2011 CONACYT Letter Directing Calit2 to Work with CUDI
- 2011 CUDI Negotiates Multi-Year Networking Agreement with Televisa/BESTEL
- Feb 2012 NSF IRNC Upgrade of Cross-Border from 1G to 10G
- March 2012 First Light Calit2→Tijuana→CICESE

CONACYT

AMLIGHT RESEARCH · EDUCATION COLLABORATION

CICESE 40 Aniversario

cudi

Televisa

Bestel

cenic Corporation for Education Network Initiatives in California

NSF

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CENIC 2012 Innovations in Networking Award for High-Performance Research Applications



In the photo you see me holding the glass award (very cool looking!), flanked by CUDI (Mexico's R&E network) director Carlos Casasus on my right and CICESE (largest Mexican science institute funded by CONACYT) director-general Federico Graef on my left. The CENIC award was presented by Louis Fox, President of CENIC (right of Carlos) and Doug Hartline, UC Santa Cruz, CENIC Confernce Committee Chair (left of Federico). The Calit2/CUDI/CICESE technical team is on the right.

Calit2 is Linked to CICESE at 10G Coupling OptIPortals at Each Site



Building Collaborations Across the Border At the Speed of Light

- March 2012 CENIC Award in Palo Alto, CA
- August 2012 MSI-CIEC Workshop CICESE/Calit2 Demo
- March 2013 CENIC 2013 Meeting CICESE/Calit2 Demo
- October 2013 Big Data Big Network Meeting at CICESE
- February 2014 BDBN2 Meeting at Calit2's Qualcomm Institute

