

Reconnections Workshop

Research Applications Drivers - Talking Points

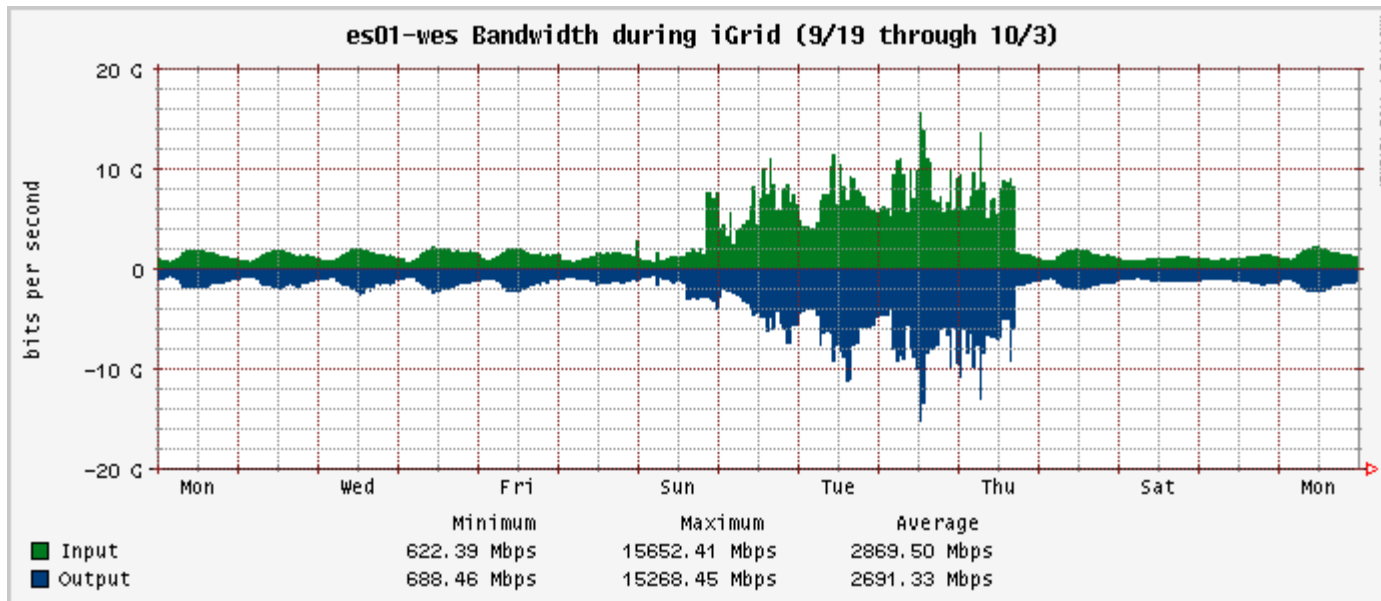
John Silvester

Exec. Dir. Center for Scholarly Technology, USC

Chair, CENIC

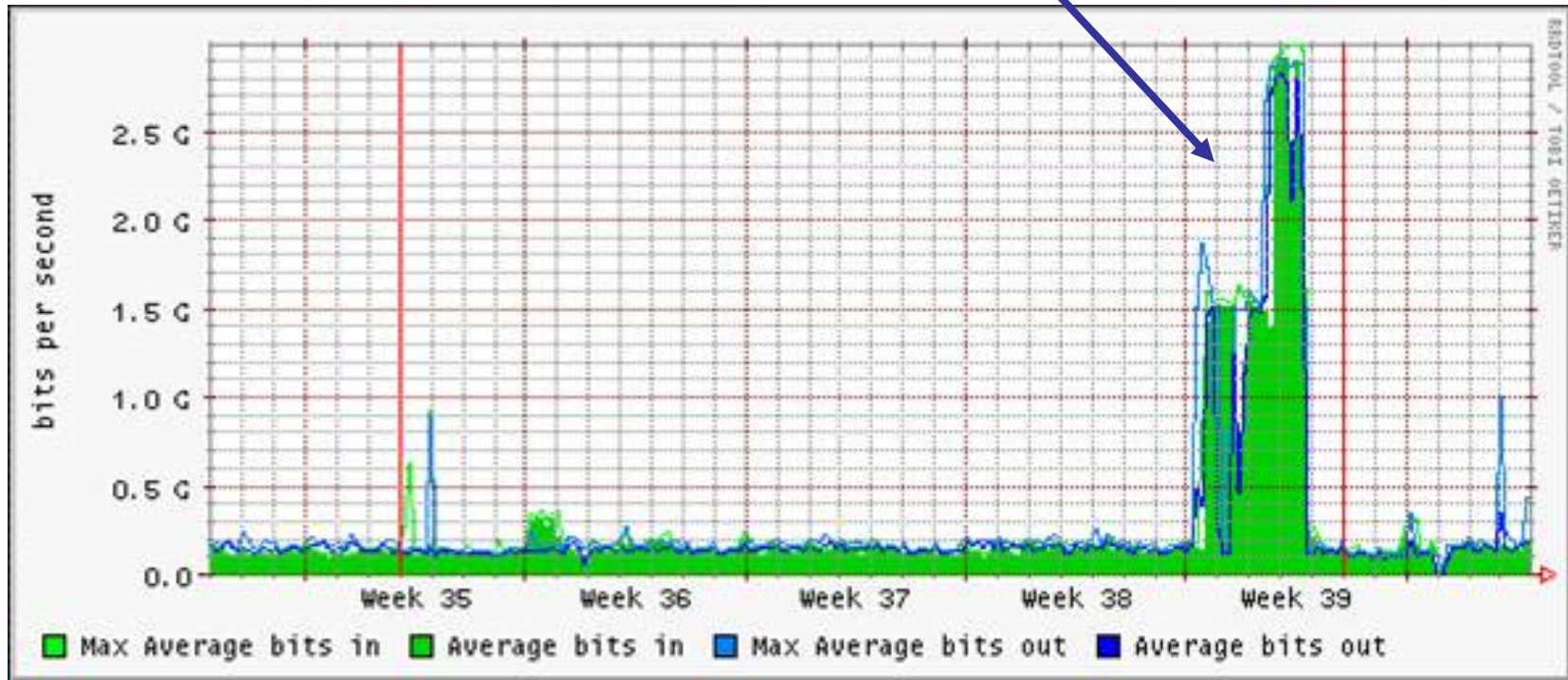
2005.10.25

“Big Science” Traffic



PW(SEA) Exchange Traffic

iGRID



PW(LA) to Abilene

Broad Spectrum of Topics/Issues

- What should we focus on?
 - Fixing the Global Internet
 - Fixing the R&E Net
 - Virtual Nets (at various levels)

Personal lambdas

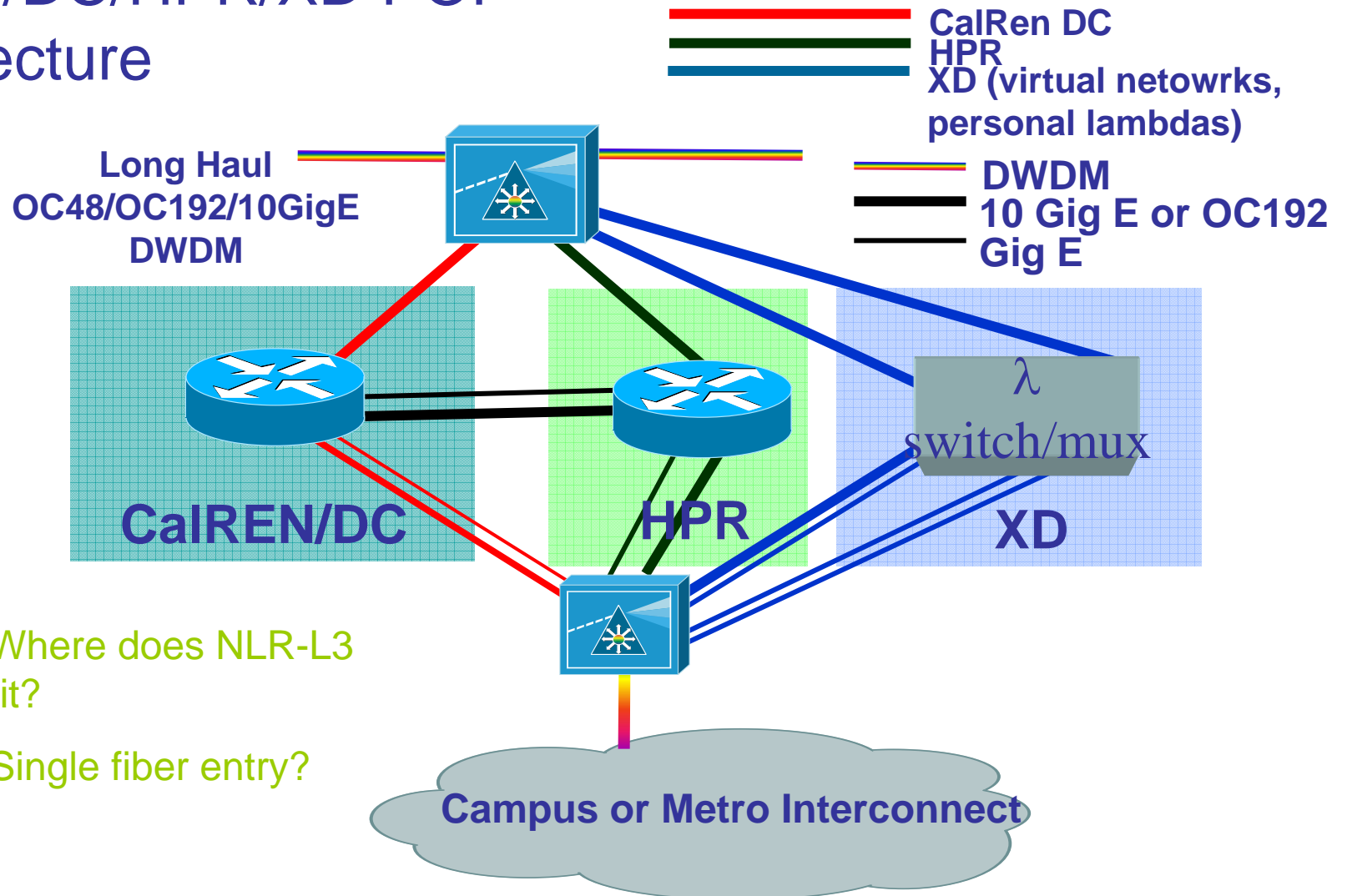
- (BSA) personal lambda nets in Canada is about to be replicated in the US and we aren't ready for it.
- NLR and (to a lesser extent RON's) deployments are now "mature" enough that you can buy a lambda (10G~\$200K/yr, 1G~\$70K per year, and sub-rate TBD)
- Significant demand.
 - Some researchers need it, others just want it.
 - Will it spread?
 - Will we build another telephone network?
- Cost models?
- Multiple regional/national L3 R&E nets?

Campus impact

- How campuses will manage interface and campus deployment of personal lambda capabilities is much less well developed/understood.
- Campus discussions are a generation behind
- Virtual networks/trust across enterprise boundaries is v. important. Managing trust group participation.

Campus Interface to WDM Networks

Calren/DC/HPR/XD POP Architecture



Where does NLR-L3
fit?

Single fiber entry?