

Report from TP2 calls

- **Regular attendees:**
- Piers Dawe
- John Ewen
- Greg Lecheminant
- Tom Lindsay
- Martin Lobel
- Jan Peeters Weem
- Albrecht Rummel
- Norm Swenson
- Andre Van Schyndel
- Nick Weiner
- Tom Whitehead
- Pavel Zivny
- ...others on occasion

Tom Lindsay

San Antonio

11/04

Presentations

- List of laser non-idealities posted to reflector
 - Andre Van Schyndel
- Presentation on relationship between proposed TP2 test and TP3 and budget
 - Tom Lindsay
 - Also budget update, based on DFE metric
- TP2 waveform characterization plan presented
 - Tom Lindsay
 - Objectives: capture/measure realistic TP2 waveforms, assess penalty requirements through fiber and EDC models
 - Refine budget needs
 - Develop test requirements

TP2 waveform characterization

- Plan discussed
 - Evaluate other metrics as well
 - Mask, rise/fall times, etc.
 - Longer patterns preferred, but sample rates should not go below ~ 8
 - 8/UI limits some equipment to \sim PRBS9
 - Stitching waveforms together possible, but be aware of exact data rate
- Work has begun

Status & work remaining

- Complete waveform characterization
 - Refine budget requirements
 - Provide insight into test methods
 - Need waveform contributions
- Specs and test methods
 - Waveform capture method
 - ClariPhy developing/testing methodology
 - Patterns & sampling rates
 - EDC simulation
 - Agilent developing acquisition tools
 - Many spec and measurement details given in comment
 - Concern about test method complexity
 - Mask method that distinguishes correctable and uncorrectable impairments has not progressed
 - Some consideration of 2 level cluster/histograms