

Welcome to the LArSoft Usability and Code Analysis Workshop!!



Logistics

- Rooms
 - In the Comitium until 15:30 (readytalk id 840-3921)
 - Parallel sessions today
 - Comitium: Discussion of ideas (readytalk id 886-7778)
 - Hornets nest (WH8X): Using tips and techniques (readytalk id 840-3921)
 - Tomorrow morning: WH3NW (readytalk id 886-7778)
 - Tomorrow afternoon: Sunrise room (WH11NE)
 - TrajCluster analysis (readytalk id 886-7778)
 - BlurredCluster analysis (readytalk id 840-3921)

Will do screen sharing via readytalk in all sessions ²

Logistics

- Refreshments
 - A few things here this morning
 - Close to the cafeteria! (?)
- Dinner! pay your own way :(
 - Tonight at 6:00 pm at Montri Thai
2S535 S. IL Rt 59, Warrenville
- User's Center before / after / instead ?
 - “Neutrino Social” starting at 6:15 until ?
 - A musical jam session tonight

Usability

- One definition
 - Ease of learning
 - Ease of use
 - Satisfactory experience
- Requirements gathering workshop last fall
 - Issues of usability were raised often

Code analysis

- Many targets of analysis will enhance usability
- But aimed at a number of areas
 - e.g. performance
 - Details tomorrow

The program: this morning

- Recent relevant LArSoft (usability) efforts *Gianluca Petrillo*
- Maintaining balance: gate-keeping vs agility *Erica*
 - Break
- Pandora: collaborative development lessons *John Marshall*
- Documenting LArSoft for ease of learning, use *Katherine Lato*
- SpackDev development environment for LArSoft *Patrick Gartung*
 - Lunch

The program: this afternoon

- Configuration best practices *Kyle Knoepfel*
- Case study in using FHiCL *Rob Kutschke*
- Demo of gallery for data access *Marc Paterno*
 - Break
- Parallel sessions
 - Discussion of ideas *Erica, Rob Kutschke*
 - Using tips and techniques discussed
Chris Jones, Kyle Knoepfel, Marc Paterno, Gianluca Petrillo, Paul Russo
- Dinner, etc.

The program: tomorrow

- Peer review: not just for physics! *Rob Kutschke*
- LArSoft code analysis process *Erica*
 - Break
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- LArSoft use of GENIE and GEANT4 *Robert Hatcher*
- You too can do performance profiling *Chris Jones*
 - Lunch
- Code and performance analysis working groups *various...*
 - Volunteer analyses + roving experts to assist others
- Close-out *Erica*

Why we are here

- Hope you learn things, but...
- LArSoft is *your* code!
- We are here only to help (we hope!)
- Input from you is critical to what we do
- This is a *workshop*
 - Interrupt, ask questions, make comments, discuss, argue, find consensus
 - Bring up topics we didn't

The team

- Core LArSoft team
 - Erica Snider *Technical lead*
 - Ruth Pordes *Project manager (interim)*
 - Gianluca Petrillo *Lead developer*
 - Saba Sehrish *Developer*
 - Lynn Garren *Code and release manager*
 - Vito di Benedetto *Continuous integration operations*
 - Katherine Lato *Documentation and communications*

The team

- SCD technical assistance and expertise
 - Daniel Elvira
 - Patrick Gartung
 - Krzysztof Genser
 - Chris Green
 - Robert Hatcher
 - Chris Jones
 - Kyle Knoepfel
 - Jim Kowalkowski
 - Rob Kutschke
 - Marc Paterno
 - Paul Russo
 - Hans Wenzel

Plus many others now and in the future!

The team

- The experiments
You!

- Thank you to all the speakers, participants