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
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, Mart Paterno, Gianluca Petrillo, Paul Russo

  - Dinner, etc.
The program: tomorrow

- Peer review: not just for physics!  Rob Kutschke
- LArSoft code analysis process  Erica
  - Break
  -
- 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