

# LArSoft Coordination Meeting

*Release and project report*

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*Fermilab*

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# Today's agenda and speakers

- Release and project report (Erica)
- SpackDev update (Jim Amundson)
- Pandora multi-TPC reconstruction (Andy Blake)
- New upcoming features in the CI system (Vito di Benedetto)
- AOB

# Releases

- Last week
  - v06\_36\_00 released on May 16
    - Updates to light propagation from SBND
    - MCS momentum algorithm / module
    - See [the release notes](#) for details
- This week
  - No merge requests yet (?)

# Genie update

- New Genie releases:

- 2.12.4 has been available since March
  - No pressing requests to get this into LArSoft, so only now getting to making a test release
- 2.12.6 will be available some time this week, probably
  - Changes are not represented to be relevant for LAr detectors

- Migration plan

- Unless the experiments indicate otherwise, we intend to wait for 2.12.6, then produce a test release
  - More on this on the next slide...
- Will need affirmation from every experiment before we integrate it into a LArSoft release.

# Status of Geant4 migration

- The plan
  - Create a **test release** with Geant4 10.3.p01
  
- Status
  - Previously reported unit tests that were failing
    - This was traced to a problem with initialization ordering in LArG4
    - Work on the test release will resume now that this problem is fixed
  
  - Preferred plan is to combine new Geant4 and Genie versions into the same test release
  
  - Again, will need affirmation from each experiment before integration into a LArSoft release.

# Announcements

- New version of *art* to be released soon
  - The release of version 2.07 is imminent
  - Will include a number of **breaking changes**
    - See [the list of breaking changes for art 2.07 here](#)
    - There will be scripts available to fix private code
  - Will also include a change in service Post\* callback policy
    - All Post\* callbacks will be called only if the call the preceded it returns normally
    - Previously, Post\* callbacks would be called even if there was an uncaught exception in the previous function
  - Some details may change, but expect to be finalized this week

# LArSoft workshop: Tues June 20, 2017

- **Registration is now OPEN**

- See <https://larsoft.org/register>

- Topics

- SPACK build system tutorial
  - In depth, hands-on exploration of features, how to configure builds
- Introduction to concurrency
  - What this means, why it is important, what it implies for your code in advance of multi-threaded *art* release
- Debugging and profiling tutorial
  - Back by popular demand
- New CI system features and configuration

Questions? Comments? Suggestions? [larsoft-team@fnal.gov](mailto:larsoft-team@fnal.gov)

## Status of on-going sub-projects

- LArG4 re-factoring project
  - No report this week
- CI system operations
  - Vito di Benedetto
- Usability: associations
  - Saba Sehrish
- Profiling and optimization project
  - No report this week
- LArSoft documentation
  - Katherine Lato



The end