

Friday

At the ALOFT Hotel Conference Room. All times include 5 min for discussion. Please try to end your talk 5 minutes before the next person is scheduled to talk

8:30 Welcome (Prisca Cushman)

Updates from the Main Simulation Packages

8:45 Current Status and Plans for GEANT4 (Mike Kelsey)

9:15 Current Status and Plans for FLUKA (Tony Empl)

Status Reports from the AARM Working Groups

9:45 Comparing GEANT4 and FLUKA – (Anthony Villano)

10:15 Universal Materials Database (Jodi Cooley)

Break (10:35)

10:50 Consistency in Cosmogenic Simulations (Angie Reisetter)

11:15 Modular backgrounds and geometry for Homestake Sims (Chao Zhang)

Talks from Participants

11:40 LUXSim Monte Carlo (Kareem Kazkaz)

12:05 NEST: A Comprehensive Model for Scintillation and Ionization
Yields in Noble Elements (Matthew Szydagis)

LUNCH (12:30 – 1:40) walk to neighborhood restaurants

1:45 Applications of the Mei & Hime formalism to double beta decay and
dark matter (Andrew Hime)

2:10 Muon-induced neutron measurements at Mondane (Vitaly Kudryavtsev)

2:35 Detector Response to Low Energy n-recoils (D'Ann Barker)

3:00 Simulations for Tracking Cosmogenic Activation in
Germanium and Copper (Estanislao Aguayo)

3:25 NAA for radioassay (Mani Tripathi)

Break (3:50 - 4:10)

Working Group Meetings (breakout sessions 4:30 - 6:30)

Cosmogenics (group leader: Vitaly Kudryavtsev)

Muon-induced processes, underground benchmarking, etc

Radiogenics (group leader: Jody Cooley)

Material screening, simulating radioactive decay, alpha-n, SF

Framework (group leader: Mike Kelsey)

Modular Sim structures, Validating, Collaboration models

Q: Can we have ONE for everyone? Can the GEANT collaboration help?

DINNER (7:30) Spoon River (walking distance from ALOFT) *spoonriver.com*

Saturday February 26

Room 435, Tate Lab (Physics Bldg) Free Shuttle from ALOFT.

9:00-10:00 Reports from the Working Groups – Action Items

Experimental Neutron Background Benchmarking

10:00 Simulation Results from the Neutron Multiplicity Meter (Melinda Sweeney)

10:25 Large Liquid Scintillator Detector for neutrons (Chao Zhang)

Break (10:45 – 11:00)

11:00 Update on SURF screening plans (DongMing Mei)

11:20 A Common Gen-3 Low Background Facility: FAARM (Lee Petersen)

11:40 Discussion: Plans for upgrading US screening capability

LUNCH – walk to neighborhood restaurants

Optional Afternoon Meetings

1:30-2:30 in two breakout rooms

Depth Working Group Meeting
and

Materials Database improvements and collaboration building

2:30-4:00 Plans for Improving near term screening in the US, incl following topics:

GeMPI devices in the US (Kara Keeter, Prisca Cushman)

Electroforming at Soudan (Eric Hoppe)

Coordination with FAARM

New Proposals for Material Assay