

## **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)

### Modular Frameworks

11:40 LUXSim Monte Carlo (Kareem Kazkaz)

12:05 SuperCDMS Monte Carlo Framework (Mike Kelsey)

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

1:45 NEST: A Comprehensive Model for Scintillation and Ionization  
Yields in Noble Elements (Matthew Szydagis)

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