

Tentative Schedule: Workshop on Neutrinos and Subterranean Science NeSS 02

Events specific to Earth Science are in larger font.

Thursday, September 19, 2002

Earth Science Participants will attend all morning sessions:

8:30 Opening Remarks Rita Colwell

8:45 The NSF View of NeSS 2002 Joe Dehmer

9:00 Experimental Perspectives on Underground Science

Stuart Freedman

Bernard Sadoulet (backup)

9:40 Theoretical perspectives on astrophysics from underground

Michael Turner

10:20 Break

10:50 Theoretical perspectives on fundamental physics underground

John Ellis

Smirnov (backup)

11:30 Perspectives on Underground Geo-Science and Engineering

Tullis Onstott

12:10 Report on NRC Study

Barry Barish

12:30 Lunch Break

14:00 Parallel Sessions I

90 Minute Session (2 pm -3:30 pm) for Opening Overview Talks

- These are to be short (e.g., 10 minutes each) talks designed for a general audience, including congressional staffers. Another purpose is to apprise any “newcomer” workshop participants of the range of possible earth science opportunities and benefits of a NUSL.
- The Geomicrobiology and Geochemistry groups will hold overview talks in one room, and Geomechanics Science and Engineering, Geohydrology Science and Engineering, and Geophysics groups will hold their overview talks in another.

150 Minute Session (3:30 pm to 6 pm) for First Working Session

- This session will be the first of two sessions for “sit-down” discussions and work on the master science plan document. A proposed outline of the master report is mounted on this website, too.
- This session will take place at AGU headquarters close by (down the street from) the Hilton. AGU is providing individual conference rooms for these working sessions.
- First task: groups need to first discuss the status of their existing group report, and ways to improve it as a standalone chapter. Draft reports are (or will be) posted on this website, as they evolve during the time leading up to September 19.
- Second task: review the other 4 group reports and identify overlap or “common ground” with these reports – the basis for integration of the reports into a coherent master earth science plan. Overlap may also take place in the form of combining graphics/figures.
- Third task: work with the other groups to integrate separate reports into a single master earth science plan. Perhaps delegates to other groups will be exchanged for this purpose? We should discuss possible ways to accomplish this task.

18:00 - 19:30 Reception

Friday, September 20, 2002

8:30 Parallel Sessions II

- If possible and appropriate, we will use the entire day, 8:30 am to 4:30 pm, for this session, the second of two sessions for “sit-down” work on the master science plan

document, as outlined above. This session will take place in conference rooms at AGU headquarters.

13:30 Plenary Session

13:30 US High Energy Neutrino Experiments in Ice (Halzen)

14:15 Other High Energy Neutrino Experiments -including ANTARES, NESTOR, NEMO, Balkol (Fernandez)

15:00 Break

15:30 Subterranean Science (Haxton)

16:00 Non-US Subterranean Plans (Kajita)

16:50 US San Jacinto (Sobel)

17:10 US Carlsbad Underground National Laboratory (Haines)

17:30 US Subterranean Facility at Homestake (Haxton)

17:50 Adjourn

Saturday, September 21, 2002

8:00 Parallel Sessions IV - Working Group Windups

- This remaining 1 hour session will be used for the 2 “speaking” groups, Geomicrobiology/Geochemistry & Geomechanics Science and Engineering / Geohydrology Science and Engineering /Geophysics to reconvene in the 2 designated Hilton conference rooms to discuss the outcome of the previous days sessions, and to offer final editing/content for executive summary talks (15 minutes each) to be delivered by Tullis Onstott (for Geomicrobiology/Geochemistry) and Herb Wang (for Geomechanics Science and Engineering/Geohydrology Science and Engineering/Geophysics).

9:00 Executive Summaries of the Working Groups (15 minutes each)

Double Beta Decay, Proton Decay, Neutrino Oscillations and Mass and CP Violation, Dark Matter, Solar Neutrinos and Stellar Nuclear Processes, Astrophysical and Cosmological Neutrinos

10:30 Break (30 minutes)

11:00 Executive Summaries of the Working Groups (continued)

Geology and Geo-Biology, and Geo-Engineering

Executive summary talks (15 minutes):

- Geomicrobiology/Geochemistry: Tullis Onstott
- Geomechanics Science and Engineering/Geohydrology Science and Engineering/Geophysics: Herb Wang

11:30 Future Directions John Bahcall

12:15 Conclusions Tom Gaisser