



## Minutes of the Fermilab UEC Meeting on December 15, 2011

### Attending:

Mike Cooke, Dick Gustafson, Sergo Jindariani, Dan Kaplan (remote), Jonathan Lewis, Greg Pawloski, Brian Rebel (remote), Nikos Varelas, Lisa Whitehead, Bob Zwaska  
GSA officers: Chris Prokop, Brian Tice

### Guests:

Stuart Henderson, Bridget Glynn (remote), Carol McGuire (remote), Katie Yurkewicz

### **News from the Chair - Dan Kaplan**

Next meeting dates: 1/27, 2/24, 3/23; noon-3:30.

URA agrees to contribute \$3k to APS thesis award endowment in Hadronic Physics.

Proposed to track Fermilab "alumni". Amanda Petersen provided spreadsheets of postdocs and grad students at Fermilab since 2000. Will work with Program Planning to request info from spokespersons on "where they are now." Dan working on sorting the spreadsheets. Suggestion to cross-correlate with Fermilab list of PhD theses. There is a parallel effort at DPF. They've submitted DOE proposal for 1/2 FTE to study HEP demographics. Will coordinate with them.

NUFO planning a DC visit; will coordinate with them.

Alert received from APS on potential for budget sequestrations to wreak havoc with science funding.

### **Lewis Burke Report - Bridget Glynn**

No official indication FY13 budget will be delayed, but one can't know. Therefore, should go to DC in March and not wait for April, as members of Congress put in programmatic requests in late March. (Alternatively, in April Capitol Hill less crowded. Visiting when Congress not in session not always bad, since staff still in town.)

Current budget scenario a rapidly moving target. House and Senate trying to pass FY12 omnibus. House bill lacks details; working with Senate to get details out. Current information: Office of Science \$4.889B, corresponding to 46.335M increase. No information yet on breakdown. Energy and Water Bill included in omnibus. Seems research, especially basic research, faring well in appropriations.

Q on sequestration provision of debt ceiling act last summer. Sequestration very complex. Requires large cuts in discretionary spending. Would be a cap, administration would allocate

spending according to priorities. Given favorable attitude toward research, research cuts perhaps not as bad as others. Still an appropriation, Congress to pass legislation as every other year. Sequestration would be 6-8% cut across the board. However, view on Capitol Hill that it will never happen. A threat to watch out for, but not considered likely.

Favorable attitudes in Administration and Congress give us momentum moving forward, but of course we have to be active in monitoring and advocating for the field.

### **Update from Office of Communications - Katie Yurkewicz**

DPF committee on messages met yesterday. Will take a while to complete work, so later is better for UEC's DC trip. One issue is terminology: "High Energy Physics" or "Particle Physics"? Astro people unhappy with "particle physics."

"Fermilab's Plan for Discovery" is complete. Katie expects delivery from printer next week (4000 copies). Office of Communications also making shorter version for non-scientific staff, etc. Discussed how to distribute copies to remote users and other interested parties.

Plans for Tevatron Symposium not yet clear. Planning committee yet to meet. Outline: scientific symposium during the day, with some evening event. Had been idea to produce book for the occasion. Would require staff time and money, both in short supply.

Two long-time members of Communications staff leaving. One replacement will be full-time internal communication person, something new to Lab.

### **Subcommittee Reports:**

#### **Govt. Relations - Brian Rebel**

Bob and Todd working with Communication Office for one-page brochure for this year's DC trip. Working with outside professional design group paid by DPF. Hope to use same brochure for future years with revisions as needed. Marge Corcoran from DPF coordinating content.

Have account with outside ISP for running assignment scripts - instructions on the wiki. Greg starting on the wiki for this year's trip.

Brian had preliminary discussions with USLUO about dates. Not yet with SLUO.

Proposed trip dates: week of 2/27, 3/5, 3/19, or 3/26. Plan to have Doodle poll for UEC, SLUO, USLUO.

ASTRA also doing DC visit, week of 4/24. Considered whether to encourage HEP component. They support science and engineering research in general. Consensus this would not add anything beyond our own trip.

## **Users' Meeting - Lisa Whitehead**

Subcommittee has not met since last UEC meeting. Need to tell caterer which day the dinner. Possible to have dinner after Tevatron Symposium instead of first day of regular Users' Meeting. Issue about posters - normally displayed during dinner. Todd suggests original concept was three-day meeting. Others concerned that Intensity Frontier researchers may skip the Tevatron day.

## **Quality of Life - Mike Cooke**

No meeting since last UEC meeting. New shuttlebus service started on Wednesdays and Fridays. Usage has been low, but not expected to be high around holidays. Discussed ways to get word out (NALCAL; posters on taxi, by elevators, Village, expt. halls). A possibility for people in Village to do errands offsite would be ZipCar or similar service. Mike will discuss with Bruce Chrisman. Q about shuttle to train. Little that Lab can do. Pace in past has estimated insufficient usage to run bus. Lab working on centralized carpooling program which could also address trips to and from train station.

Mike talked to Argonne career-fair organizers. Will meet with them second week in January about joint fair. Their fair was at end of October this year. Space already booked for next year.

Last year, QoL subcommittee met with representatives from various Lab groups - WDRS/Wellness, BSS/Accommodations, Children's Center, NALWO... Discussions uncovered programs and opportunities for users that could use additional advertising. Handout to give to users moving into Village could help them quickly discover these opportunities. Updating and advertising GSA's Guide to Life at Fermilab wiki (<http://www.fnal.gov/orgs/gsa/guide/index.html>) could also help. Also, slide shows already being developed by Amanda and Users' and Visa offices to introduce new users to Lab and life in USA (see below).

## **Outreach - Nikos Varelas**

Since already many outreach activities, should work to augment. Nikos to work on UEC web page to include up-to-date outreach materials. Also encourage users to write for local newspapers about activities at Lab. Suggestion to get users to write for alumni magazines. Some discussion of Quantum Diaries as good example. Committee members encouraged to contact local papers to gauge interest.

## **Non-U.S. Users - Jonathan Lewis**

Lab has contract with Glacier Tax Preparation. Will provide software for users to determine whether US residents for tax purposes. If they are, can be used to complete 1040NR return. Lab buying 499 user licenses this year. Also bringing back KPMG to present on US taxes for international users. Presentation to be targeted towards our users. (Last year's was not.) Amanda Thomson to review slides early January. Talk at 1 pm January 31. Amanda will give Glacier software tutorial February 7.

Another user issue is health insurance. Required to carry insurance as condition of getting visa, but current options not very good. A couple of options to purchase more complete care. Amanda working on presentation to explain issues and options.

Users' Office preparing orientation slide shows for international visitors. Will explain such issues as taxes, social security, driving rules, workplace etiquette, etc. for those new to US life. Aurora U. intern preparing the show. Will have narrations in 9 most popular foreign languages at Lab and will be available on web.

Last year's immigration presentations quite informative and well attended, pool of interested users not very different this year. Therefore, decided to have these every other year moving forward, so will skip this year.

### **Meet and Greet**

UEC members made themselves available at Director's Coffee Break. Interest to speak to us among users not great. Will need to be more controversial in future to increase interest ;-)

### **Accelerator Overview and Strategy - Stuart Henderson**

Stuart came to inform UEC of near-term plans for accelerator complex and longer-term strategy. Mission to build upon existing strengths to establish world-leading program at Intensity Frontier, enabled by world-class facility.

Plan has several stages:

- NUMI 350 kW @ 120 GeV, Booster 35 kW @ 8 GeV
- NUMI 700 kW @ 120 GeV, Booster 70 kW @ 8 GeV
- Project X: 2 MW @ 120 GeV, 3 MW @ 3 GeV, 150 kW @ 8 GeV
- Neutrino Factory / Muon Collider

Also want the program to provide cornerstone for Energy Frontier beyond LHC. To this end, working on LHC upgrades and Lepton Collider R&D.

10-year goals for Fermilab program:

- World leader on Intensity Frontier
  - In near term, get most out of existing complex (Proton Improvement Plan)
  - Work toward Project X construction start in 2016
  - Develop plans for long-term evolution based on Project X
- Leadership role in developing technology for next generation accelerators
  - Leading effort for next IF machine
  - Technology for LHC luminosity upgrade
  - Magnet technology for future hadron and lepton colliders
  - SRF experience guiding the way to Project X and contributing to other activities
  - Muon Accelerator Program moving towards next phase of R&D: demonstration of key subsystems at dedicated muon test beam (e.g. 6D cooling)

- Fermilab a recognized leader in advanced accelerator R&D
  - Example: beam manipulation studies using NML facility
  - Improve training at Lab for new accelerator scientists
  - Provide unique facilities to enable national program, e.g. ASTA
- Play leading role in applying accelerators to solve society's problems
  - IARC to have collaboration with industry
  - Lab funding from non-HEP sources.

Q from committee about saving pbar Source. Stuart described process that led to plans for Mu2e and g-2 beams.

Q: View of Project X program duration.

A: Idea is to build most powerful facility we can to be platform for research for 2-3 decades as Tevatron was.

Q about Tevatron.

A: At some point need to completely decommission. For now will be in kept in safe state. Also ORKA proposal which would use main ring to take beam to B0. Also proposal to do proton-driven plasma wakefield experiment.

Next UEC meeting: January 27, 2012 in the afternoon

Scribe: Jonathan Lewis