



## Minutes of the Fermilab UEC Meeting December 7, 2012

### **Attending:**

Mary Anne Cummings, Craig Group, Sergo Jindariani, Daniel Kaplan, Ryan Patterson (remote), Greg Pawloski (remote), Breese Quinn (remote), Lee Roberts, Mandy Rominsky, Gregory Snow (remote), Nikos Varelas, Bob Zwaska

**FSPA:** Leonidas Aliaga, Carrie McGivern, Jason St. John

**Guests:** Joel Butler, Herman White, Young-Kee Kim (remote), Carole McGuire (remote)

### **Presentations**

<https://indico.fnal.gov/conferenceDisplay.py?confId=6162>

### **News from the Directorate – Young-Kee Kim**

Deputy Director Young-Kee Kim reported on the status of the Lab. The LBNE had its CD-1 review, and it went well. The final step of the review is a meeting with the Director of DOE Office of Science Bill Brinkman during the 2<sup>nd</sup> week of December. There are discussions with European and Indian Institutions/Agencies for their participation in LBNE.

The Mu2e and g-2 experiments are moving along well. Project X does not have an official CD-0 yet, but the project is receiving substantial R&D funding to move forward with R&D. A prototype of the front-end, called PXIE, will be reviewed by DOE in January. It could potentially be used in an eventual Project X.

The Director Search Committee is progressing. There are a series of upcoming events at Fermilab for the committee to draw input from the Fermilab community, including users.

The proposal from the ILC community to have a 2-hour event during the 2013 Users Meeting was discussed. The ILC event will commemorate the end of an R&D phase and will be coordinated with similar events in KEK and CERN. The Users Meeting will also be a good time to highlight Lab's partnership with industry on applied accelerator research.

### **News from Washington – Carole McGuire (Lewis-Burke Assoc.)**

Negotiations for deficit reduction are ongoing in Washington, but no resolution is in sight. Offers have been presented by the White House and Republicans in the House, but they are widely separated. A stopgap might be implemented until the next Congress meets. It is unlikely that any funding bills would be attached to the stopgap, except for a small supplemental that will likely have no impact for science beyond the continuing resolution (CR).

Agencies are planning for a CR, but reserving a ~10% on top of that. Agencies may hold off decisions (on grants, for example) until the sequester situation becomes clear.

The endgame is not clear, but it is expected that there will be some resolution in the next few months. The new Congress is expected to have an impact. Also the issues will not change dramatically.

It was asked what impact the community could have. Carole responded that the message is being heard in Washington. Action will only be required when there are solid proposals under consideration and the questions are clear. Lawmakers will be home over the year-end break and will be listening.

### **Director Search Committee – Herman White**

<http://www.fnal.gov/pub/directorsearch/index.html>

The committee will be having a meeting at Fermilab next week, Dec. 11-12, to hear input from the Lab employees and users. The committee wants to hear from the UEC as an elected body of the users community.

The search committee has had one major internal meeting so far and the process is underway. The committee has four people from the Lab, several from the wider community in the U.S. and overseas, and several from outside high-energy physics. There was some discussion with the UEC on the composition of the committee. Norm Augustine chairs the committee. He also chaired the Gathering Storm reports and is highly prominent among science circles in general. He is not specifically a member of the HEP community, and so does not overly control the discussion in the committee. However, he is a high-profile member in the committee and brings a broader perspective.

The committee will narrow down the choices of director to three and present them to the FRA Board. The FRA Board will choose among those three. The initial appointment of the Director is for five years. DOE will also have a stake in the process.

The search committee will receive nominations, including self-nominations. All candidates will be measured against the criteria that were presented in the committee's charge.

Herman thinks that the UEC can provide some perspective on how the Director interacts with the users, i.e., how involved users are in the operation of the Lab. There was some discussion on the advantages and impediments to user involvement in the business of the laboratory.

### **CMS Project – Joel Butler**

Joel Butler, the U.S. CMS Operations Program Manager, presented the status of the CMS experiment and the plans for the CMS detector upgrades. The US-CMS consists of a collaboration of 50 institutions that are involved in CMS research, computing, and detector operations.

The LHC is at the end of a 3-yr run, recording  $\sim 23 \text{ fb}^{-1}$  at center-of-mass energy of 8

TeV. Fermilab operates a Tier-1 computing center for US-CMS, supporting 7 Tier-2s within the U.S.

CMS is aggressively investigating the Higgs-like object. The mass is known at better than 1%. Several decay modes are under study. Couplings and spin-parity measurements are underway. The CMS publication list will exceed 200 papers in 2012. Many papers are highly cited.

The upgrade of the CMS detector, which is required for running the experiment at the designed LHC energy and high luminosity environment, is under way. The physics groups are being involved in defining the physics case for the various sub-detector upgrades. Technical Design Reports exist for most of the sub-detector systems. The Pixel Tracker and Hadron Calorimeter upgrades have both been approved by LHCC and received CD-0 approval by DOE.

The upgrade of the detector is a massive undertaking requiring long shutdowns. It takes about two months to simply open or close the CMS detector. The plan is to do the detector upgrades in phases; some will be ready for the 2015 run, with the rest to follow for the 2018 run. Much larger upgrades would occur past 2020 for the very high luminosities that may exist then. Fermilab and the U.S. institutions are involved with the muon detector, hadron calorimeter, silicon pixel tracker, and trigger upgrades.

A question was posed about the possibility of an  $e^+e^-$  collider in the LHC tunnel. This is certainly under study, but it will undoubtedly have to wait until the high-energy run of the LHC.

#### **News from the Chair – Nikos Varelas**

The UEC will have a meeting with the Fermilab Director Search Committee. The committee asked Nikos to represent the UEC and since Nikos will be at CERN that week, he deputized Bob, Sergo, and Lee to meet with the committee. There was some discussion on what message the UEC should carry to the committee.

Nikos has been the liaison with NUFO (National User Facility Organization). Particular areas of discussion are coordination of outreach, congressional visits, and public events. NUFO also has resources for supporting email lists and web pages, which may be a nice alternative to the present system.

The UEC has been asked to provide nominations for PAC members. Retiring PAC members are Keith Baker, Regina Demina, and Steve Ritz. UEC input is needed by the end of the month. Nikos asked that UEC members submit to him candidates by Dec. 17.

Nikos and Breese met with representatives of SLUO (SLAC Users Organization) and USLUO (US LHC Users Organization) to discuss the message and the dates of the Washington trip in March 2013. It was agreed that the message should be focused on HEP rather than on science in general. The dates for the trip have been set to March 13-15, 2013.

### **Outreach Subcommittee – Mandy Rominsky**

Ryan will be responsible for web outreach (including the web page and other social media). Nikos will continue with the university profiles. Breese will work on the economic benefits from the Fermilab HEP program. Mandy is responsible for classroom outreach. Dan, Mary Anne, and FSPA are looking for other outreach projects. NUFO has an outreach section and is looking to coordinate with user facilities. Nikos will furnish Mandy with the appropriate contacts.

### **Quality of Life & Non-US Users Subcommittee – Sergo Jindariani**

Particular topics under consideration include: immigration, taxes, transportation, and job opportunities.

Amanda Thompson has been advancing several immigration related items. Of particular note is the Global Entry Program by which travelers can gain quicker entry through immigration and passport control. Citizens and permanent residents are eligible for this. Amanda has arranged for a presentation about this program at Fermilab on Dec. 13 and for interviews to occur at Fermilab (instead of O'Hare) on Feb. 28 and Mar. 14, 2013. Information about the Global Entry Program can be found at:

[http://wdrs.fnal.gov/visas/global\\_entry.html](http://wdrs.fnal.gov/visas/global_entry.html)

Transportation is focused on two activities: providing off-site transportation for visitors and helping people use public transportation to get to Fermilab. PACE transportation to the Lab is still under investigation.

The UEC has been looking into coordination with Argonne for a job fair. Fermilab may eventually be a good co-host for the event. Also, there is interest in preparing advice for potential job seekers. Craig has been in contact with HERC (Higher Education Recruitment Coordination) on possible advice. Phyllis Brust from HERC has a number of suggestions and is in contact with Young-Kee.

There was some discussion on the recent layoffs at Fermilab, the process, and potential impact on the Lab.

### **Users Meeting Subcommittee – Greg Snow**

The dominant issue that was discussed is the proposed 2-hour session devoted on the ILC festivities at the end of the first day of the Users Meeting, immediately before the banquet, and the public talk (also discussed in the Directorate News). Accommodating the ILC session will require some changes to the Users Meeting agenda. Greg and Nikos will discuss this further with Young-Kee over the next weeks.

Greg will solicit suggestions for a speaker at the public lecture at the end of the first day of the Users Meeting. All suggestions will be discussed at the next UEC meeting.

### **Government Relations & Local Government Subcommittee – Breese Quinn**

A House Science and National Lab Caucus has been founded by a bipartisan coalition,

including Congressman Randy Hultgren.

The connection files for the Washington trip are still being collected from UEC members and SLUO and USLUO representatives.

The training sessions date is set for Feb. 2. Participation is highly recommended.

Next UEC meeting date: January 4, noon-3:30pm

*Scribe: Bob Zwaska*