

Minutes of the Nov 18th 2000 Meeting of the Fermilab  
Users Executive Committee

Attendees:

Robin Erbacher(robine@fnal.gov),  
Peter Garbincius(garbincius@fnal.gov),  
Sally Koutsoliotas(koutsolts@bucknell.edu),  
Jim Musser(musser@bigbang.astro.indiana.edu),  
Larry Nodulman(ljn@fnal.gov),  
Vaia Papadimitriou(vaia@fnal.gov),  
Roger Rusack(rusack@mnhep.hep.umn.edu) (video),  
Rick St. Denis(stdenis@fnal.gov),  
Gordon Watts(gwatts@fnal.gov),  
Herman White(hwhite@fnal.gov),  
Philip Yager(yager@fnal.gov).  
Benn Tannenbaum(benn@physics.ucla.edu)

Absent:

Dan Amidei

GSA Attendee (1999-2000 GSA):

Nancy Lai

Larry Nodulman, called the meeting to order at 10:00 am.  
The main topics of the meeting were sorting of GSA into committees,  
Chris Quigg's presentation on Snowmass and DPF issues, Mike Witherell's  
discussion based around his HEPAP transparencies,  
reaction to the Letter to the Users concerning health Insurance for  
students, Committee reports and an AOB item concerning difficulties  
for foreign scientists at Fermilab.

1. GSA

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Nancy Lai indicated that she will join the outreach and young physicists  
committees.

Up to now the only activity was the halloween party although minor items  
like CD asking for a survey to be publicized and someone at FNAL needed  
an algebra tutor.

2. Reaction to Letter to Users concerning Health Insurance

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This agenda item was started early and continued after lunch.

A list of points that were raised by users will be prepared by Larry  
for the next meeting but circulated beforehand to the UEC for comment.

A concise recommendation to the Laboratory will also be drafted by  
Larry and circulated for comment with the intent to approve this at  
the next meeting.

The following points were raised:

- o It is clear that the Fermilab plan is not something that  
non-employees can easily join.
- o The UEC does not want to define the meaning of adequate health  
insurance.
- o Documentation of insurance should be shown (ie. a card) and  
letters can be kept on file for universities that wish to have

this done.

Larry's recommendation will include annual renewal and evidence of insurance.

The quality of life committee will look into what can be offered as insurers in case users wish to get insurance.

### 3. Chris Quigg: Snowmass, DPF

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#### A. Organization

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- o Snowmass will be held June 30 to July 21: 3 weeks, Saturday to Saturday
- o This misses the particle accelerator conference and the lepton photon conference in rome (2 days after end) but overlaps with the EPS (July 12-18, Budapest).
- o Organizing committee will define working groups and convenors
- o Chris presented the organizing committee (see transparencies)
- o Chris told us not to wait to be asked, but to volunteer advice
- o There are 4 convenors/group and groups will be formed in a couple of weeks. There are 25-30 rooms to hold the groups.
- o Chris said Sally Dawson has pointed out that she contributed as a convenor when she was a post-doc. She also pointed out that people response well to work and treat it as a mini-sabbatical. However, convenors have to provide tools so that everything was not done ahead of time by the experts.
- o A web-site should come in a week or so.

#### B. Outreach

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- o Chris pointed out that outreach will be an important component of Snowmass and people will share and display what they do.
- o Elements of outreach include
  - Efforts in Saturday morning physics, physics vans etc.
  - Public lectures, online event displays
  - Particle Physics on the mall
- o On July 7, 8 there will be a Science Weekend sponsored by the resorts with the intention of attracting tourists to learn about science. The focus will of course be particle physics, but people in other fields of physics have been contacted at the University of Colorado, Colorado State as well as the Environmental Day Camps in the area. Physics vans from University of Illinois, Colorado State and Michigan state will be in the area for one to two weeks.

Other activities include:

- WALTA and CROP, cosmic ray detectors that are being put on various roof tops of high schools to allow for very large air showers to be studied at various levels in the atmosphere from the top of a mountain to the plains.
  - particle physics day camps that will last 1-2 weeks
  - Quarknet: will meet for 1 week at Snowmass instead of at Fermilab. There will also be an additional week of local teacher training.
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- o Chris pointed out that the organizers want everyone to take a couple of days to work on outreach and don't want a polarization of people who do only outreach and those who only think about new concepts.
  - o Snowmass is a time to discover a sense of community. Outreach

helps everyone because it makes you recall what got you excited about particle physics. Young physicists and advanced graduate students should participate. There will be subsidized housing for 50 students with 5/condo and \$25/night.

#### C. Teach-ins

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There will be seminars to learn about

- o Accelerator R&D: challenges, starting the first Tuesday. There will be tutorial talks and descriptions of how to get involved.
- o Experimental implications of String Theory
- o Role of non-accelerator experiments

If any other topics should be included, contact Chris

- o Nuclear and plasma physics society of the IEEE will sponsor short courses and lectures on advanced technology: accelerator magnets, fast electronics, etc. The lectures will be held during the lunch break, and the short courses will last a half day or full day as appropriate.

#### D. Discussion

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- o It will be tough for CDF, D0, Belle and BaBar although the biggest statistical gains for BaBar and Belle should be earlier than summer.
- o First week will have all the lab directors there
- o Astroparticle physics will be strongly represented.
- o Millie Dresselhouse of the office of science (see below for Mike Witherell's discussion of the office of science) is pushing for a 15%/yr increase in the budget. She pointed out clearly how we can present ourselves best and is interested in the challenges to being a young physicist.
- o The UEC should get people to go! These are good times: Tevatron, BaBar, Belle, and LHC on the horizon: hard to look into the future. Chris showed his slide from his presentation earlier in the week to FNAL post-docs:
  - Invest 1 day/week in the future (neutrino factory, linear collider, Hadron collider, snowmass, new experiments)
- o The user's meeting scheduling should not conflict. Take care that the PAC is one week before Snowmass and two weeks before is the accelerator conference.
- o The Washington APS is end april/early may and there will be a congressional reception. last year this was held with the nuclear physicists and the division of particle and beams. Thoughts on this are being solicited.
- o We hope that approximately 20% of the Snowmass participants will come from outside the US.

#### 4. Discussion with Mike Witherell

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- o FNAL got \$277M in FY2001, 292M was what we needed. The bill is signed. This covers Numi, Minos and Run II computing as major costs.
- o 50-75 temps will need to be released, but some will be kept.
- o Minos and Run2b will get less than needed but the money will be requested for both next year. Minos schedule will be delayed.
- o Need \$303M in FY2002 with investment in accelerator R&D and in Run2B. This is sufficient for a healthy program but does not realize all of our potential.

- o Largest problem is accelerators:
  - not enough people
  - 8 positions open
  - Hard to find and KEEP: they go to the light sources and spallation sources.
  - Talking to collaborations about getting effort from experimentalists. This helped in SLC
  - The need to get accelerator scientists is acute, and efforts are being made to get the universities more involved in order to get more phd's.
  - The new crew is needed to staff operations so that the present group can get on to solve the problems of getting to high luminosity.
- o BTeV will be done as a line item. It will be in an R&D phase in 02-03 and construction on 04-06. By being a line item FNAL avoids the problem of being committed to something but not funded. This was not done for Numi and Minos: it is 1/2 line-item, 1/2 funded and this did not work well.
- o Lab priorities
  - Up to now: preparation for run 2, followed by neutrino factories and accelerator R&D.
  - Run 2b and Minos are roughly at the same level of priority.
- o Funding depends on a coherent program of information from the Office of Science in the department of energy. This past year funding was also aided by letters from 25 presidents of large research-based universities and a letter from a Congressperson, Judy Biggert (ANL is in her district).
- o Millie Dresselhaus is pushing for an increase in funding of the Office of Science (she is Director of the Office of Science and is therefore a political appointee and needs congressional approval.)
  - The office of Science is one of the large reserach funding agencies, along with NSF, NASA, DOD, DOE, and NIH.
  - It is the largest funding agency for physycal sciences
  - It is the largest builder of R&D facilities
  - It is often not considered with NSF, NIH and NASA, being overlooked by congresspersons: it is embedded in DOE.
- o Physicists are not lobbying and they had better start.
- o Mike showed a commentary from Harold Varmus, head of NIH, as published in the Washington Times. There he said that when you look behind the curtain of biological sciences, you find particle physicists, chemists and engineers.

#### Conclusion:

- o There is hope to do better out of the administration's budget
- o There is hope in the office of science
- o A joint effort from all parts of the office of science helps. We are 1/3 of the office of science's budget. We should speak well of the other parts.
- o Getting people at verious levels (like Harold Varmus) to speak for us is important: Physcal Society, Chemical Society and users groups like HEP, Nuclear and the light source.

#### 5. Committee Reports

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##### Outreach

- All met on Nov 3.
- Discussed ideas: high school visits to lab, week of awareness of science, videos for particle physics, local SPS society contact, Outreach of APS, work with Illinois Science Fai, AIP rprogram to

provide funds for scientists to give lectures, encourage quark-net (teacher training).

- Focussed on

- o Tours

- CDF: Dec 16

- D0: Jan 6 or 13 (wait on response from spokesmen)

- o SPS contact

- Visual Media services

Gordon found out that much work has been done but they do not have a large staff. They have a long way to go. The interface is functional. They scan in any picture that has been requested from the books. The intention is to start with the requested and most recent and work back.

The FNAL web page is also being upgraded with two people working on this now.

- Signs

Peter and Herman met with Bruce Chrisman about the question of the (un)friendliness of the Fermilab entrances and there were already signs being planned for just outside the gate. Peter showed an example which will be 4 by 6 feet, includes pictures from around the site, a roadmap and a place for pamphlets. Additionally, there will be a lighted welcome sign at each entrance.

- Peter also pointed out that a program of brown bag lunches for non-physicists and engineers has begun. First was last Tuesday at noon and it was standing room only. Chris Quigg delivered the lecture. The only concern was that no questions were solicited at the end. Linda Spentzouris did the following one on accelerators and CDF and D0 will also do two lectures. These are video taped. The streaming video for Chris' lecture is at

<http://vmsstreamer1.fnal.gov/Lectures/Physics4Every/Quigg/index.htm>  
and home for all of them will be at

[http://www-visualmedia.fnal.gov/VMS\\_SITE/r\\_P4E.html](http://www-visualmedia.fnal.gov/VMS_SITE/r_P4E.html)

- The Outreach committtee is looking into who will pay for video tapes.
- Tours in the future will be with Donut, KTeV and Wide band neutrino since D0 and CDF will be sealed up.

Quality of life/users issues

- Full plate coming on insurance

Washington

- Chris Quigg covered the ideas concerning combining APS and Nucl.Phys. May wish to do this together
- Gordon had a discussion with a university lobbyist but they are tied up with the last of the spending bills that have not been sorted out. Gordon pointed out that he contacted the lobbyist by talking to his department head who could offer an introduction. The introduction helped enormously.
- Judy Jackson's office will have a "yellow book" containing the list of the new congressional members, their aids, phone numbers (most accurate source) and their committee assignments. This will be available in about six weeks.
- The strategy for the meeting and when it will be held will be sorted out over the next month.
- Benn Tannenbaum will set up the Washington trip web site.

Users Meeting

- no news beyond the discussion with Chris Quigg

Younger Physicists issues (Inreach)  
- no news, will get involved with Snowmass

6. AOB  
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I. Plight of the Foreign Physicists

Benn Tannenbaum read a letter from Todd Huffman about the perils of being a non-US citizen doing science at FNAL. This will become a Quality of Life issue.

A. Visas  
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He pointed out the contrast with CERN where one gets a Visa with no problem and can get bank accounts, rent apartments, etc. SLAC only issues J1 visas. Fermilab does not and says that

- a. one has to be a lab employee and there are insurance issues
- b. there is overhead
- c. FNAL has many more foreign visitors

Ben reported that Todd disputed these points.

- a. For the UK everyone has insurance
- b. SLAC overcomes it
- c. Doubts it is a factor of 10 and not 2.

Ben also spoke with Franco Bedeschi, CDF co-spokesman and reported that the Italians have terrible times.

B. Life  
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It is difficult to get anything without a social security number: bank account, driver's license, apartment rental, phone and electricity. There is folklore on how to do live but this should be coordinated through one source: a point for a guest office.

C. Car  
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One cannot survive at FNAL without a car. Benn requested that the HACK service be extended and that there be shuttle services for groceries.

II Cell Phones  
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Ben pointed out that as more and more people get cell phones, more will be experiencing the problem of poor reception. Can we have repeaters in the high rise and at the trailers?

III Offices  
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Ben said that Franco Bedeschi complimented the UEC on its efforts to quickly get the office problem solved at D0 and CDF and encouraged the UEC to keep up the good work.

7. Next Meetings  
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The next UEC Meeting is on December 9, 2000 with Mike Witherell, Dee Hahn, and Bruce Chrisman invited. The next after that is January 20, 2001

