Annual SLAC Users Organization Meeting

Gérard Bonneaud
Ecole Polytechnique CNRS/IN2P3

On behalf of the SLAC Users Organization Executive Committee
The SLAC Users Organization (SLUO) is a group of professional individuals with a scientific interest in the particle physics, astrophysics, or accelerator research programs at the Stanford Linear Accelerator Center.

The purpose of the Organization is

1. To provide an organized channel for communication between the users of SLAC facilities and the management of the Laboratory on matters of operating policy and facilities utilization;
2. To provide a means for facilitating the involvement of its members in specific projects with SLAC;
3. To provide information to its members on matters affecting their relationship to the laboratory;
4. To help promote the utilization of existing SLAC facilities and the approval of the new ones, as deemed appropriate by the members and the SLAC management;
5. To facilitate interactions among the diverse user community;
6. To participate in organizing educational activities at SLAC, especially as relevant to the user community;
7. To represent the interests of the SLUO community at national/international policy levels.
SLUO Executive Committee - 3 year term
http://www-group.slac.stanford.edu/sluo/SLUO_Exec.html

Tim Barklow – SLAC (2007)
Tom Glanzman – SLAC (2007)
Giampiero Mancinelli – Cincinnati U. CPPN Marseille (2007)
Michael Peskin – SLAC (2008)
Frank Porter – Caltech (2006)
Peter Tenenbaum, Secretary-Treasurer – SLAC (2008)

Jill Meyers - SLUO Administrative Staff

Nominations presented and discussed at lunch

Sept. 18, 2008 SLUO 2008 Annual Meeting - Gérard Bonneaud
The SLUO Annual Meeting is an invaluable opportunity to learn about the latest plans, new developments and science opportunities in the Particle Physics and Astrophysics (PPA) Directorate at SLAC. It is also a great time to learn about new projects and to interact with other members and potential new colleagues, to discuss the future collaborations between SLAC and the university physics community. Like the laboratory and the whole field, SLUO is making a major transition this year: after years of supporting users at on-site accelerator-based facilities, the organization needs to better understand how to represent the research interests of a potentially much broader community of members. It is imperative that we succeed in re-inventing SLUO, in order to contribute to insuring a strong future of excellence in our field!

The SLUO Executive Committee expects the discussions to provide a basis for understanding how best to develop a renewed collaborative culture and future community role for PPA.

This year’s SLUO Annual Meeting is a natural follow-up to the SLUO February meeting on “Redefining the User Facility” and to the “User Perspective Summary” presented at the P5 sub-panel.
“… The guiding goal of this meeting is not to establish scientific priorities, but rather to evaluate how SLAC could best support various scientific programs and how the unique and strong international SLAC users community envisages the role of SLAC as a major international PPA facility in the context of its growing involvement in off-site international projects…

… Given the recent events in Washington, we understand the great uncertainty and skepticism surrounding the future of science in the U.S. and its negative impact in all our user community's countries and for the future of any worldwide scientific cooperation. However, we believe that we must continue to plan in the hopes that things will improve, so that we will be ready. »
SLUO February 7th 2008 Meeting - Redefining the User Facility

http://www-group.slac.stanford.edu/sluo/meeting/2008-Redefining/default.htm

07:30 - 08:00 - Breakfast

Chair: Michael Peskin
08:00 - 08:20 Gerard Bonneaud (Ecole Polytechnique & SLAC) - Introduction;
08:30 - 09:10 Steve Kahn (SLAC) - Draft P5 talk;
09:30 - 09:50 Greg Tarle (U Michigan, on the phone) [SLAC contact Aaron Roodman] - SNAP;

10:10 - 10:30 break

Chair: Tim Barklow
10:30 - 10:50 Ray Frey (U of Oregon) [SLAC contact John Jaros] - ILC detector R&D;
11:10 - 11:30 Gabriella Scolla (MIT) [SLAC contact David MacFarlane] - DUSEL user base, including CDMS, EXO;
11:50 - 12:10 James Rosenzweig (UCLA) [SLAC contact Tor Raubenheimer] - ILC & advanced accelerator R&D;

12:30 - 1:30 catered lunch, general discussion - convener Chris Hearty;

Chair: Steve Sekula
1:30 - 1:50 David Kirkby (UCI) [SLAC contact David Burke] - LSST;
2:10 - 2:30 Jason Nielsen (UCSC) [SLAC contact Su Dong] - ATLAS upgrade/computing/user support;
2:50 - 3:10 Rene Ong (UCLA) [SLAC contact Stefan Funk] - GLAST/TeV/UHECR;

3:30 - 3:55 break

Chair: Peter Tenenbaum
3:55 - 4:15 David Hilden (Caltech) [SLAC contact Blair Ratcliff] - SuperB;
4:35 - 4:55 Sarah Church (SLAC KIPAC) - CMB polarization;
5:15 - 6:30 General discussion - convener Frank Porter;

6:30 – 8:30 Breezeway Reception

SLAC 2008 Annual Meeting - Gérard Bonneaud

Contributions from all over the Country!

« Vox Populi, Vox Dei !»
Summary of the SLUO Meeting, SLAC February 7th 2008

“Redefining the User Facility”
A User Perspective

On February 7th, the SLAC Users Organization (SLUO) convened a meeting to explore the relationship between SLAC and its users in an era of growing involvements in off-site international projects.

The Department of Energy has charged the P5 subpanel of the High Energy Physics Advisory Panel (HEPAP) with re-evaluating the U.S. particle physics program for the next ten years. The subpanel’s final report is due April 15; a visit to SLAC is planned for February 21-23.

The February 7th SLUO meeting was designed to help provide input into this process. This meeting included presentations and discussion directed explicitly at possible future SLAC programs. The guiding goal of the meeting was not to establish scientific priorities, but rather to evaluate how SLAC, in the context of its growing involvement in off-site international projects, could best support the scientific programs discussed and serve the scientific interests of the user community. The full agenda is attached at the end of this document.

The SLUO Executive Committee intends this Summary to form a representative view of the interests of the present and potential future SLAC international community, in particular as relevant to roles that SLAC may play as a national U.S. lab, and as one of the main international facilities for particle physics and astrophysics (PPA). The plan was not to emerge with a set of priorities, but to develop a perspective on where the strongest interests lie and on which aspects SLAC can provide a solid base. It was believed that as a message directly from the user community, this will be of substantial interest in the overall planning process.
Summation: The speakers pointed out a number of key features of SLAC which would be valuable to users even in the absence of an onsite experiment. These include the lab’s computing infrastructure, engineering expertise and facilities, detector design and construction skills, competence in space-based experiments, beam facilities for accelerator research and for detector development via test beams, high density of excellent staff in a variety of fields, and experience in the management of extremely large projects. It was pointed out in discussions that SLAC dare not become a “job shop” in these capacities – that to ensure that the quality of the work performed at SLAC remains high, the SLAC scientific staff must be engaged in any project for which the laboratory provides these facilities. The selection of which projects SLAC will participate in must therefore balance the limits of the lab’s capacity, the interests of the scientific staff, and the priorities of the field as a whole.

Finally, it appears from this meeting that for SLAC’s users, as the National Academy EPP2010 committee concluded “…although setting priorities is essential, it also is critical to maintain a diverse portfolio of activities in particle physics, from theory to accelerator R&D to the construction and support of new experimental facilities…” Planning and maintaining such an ambitious enterprise, a national/international facility as SLAC appears to be up to now, is invaluable since SLAC will thus remain an ideal partner for university groups that do not have the facilities and the experienced manpower, and an appropriate interlocutor and a natural leader on the international arena.
DC Trip – March 12th to 14th 2008
in conjunction with the Fermilab Users' Executive Committee (UEC) and the U.S. LHC Users' Organization (USLUO)

"...The trip is a valuable opportunity to meet with members of Congress and their staff, share the importance of the science and its benefits to the nation, and listen to what they have to say about science and their expectations for the coming year."
DC Trip – March 12th to 14th 2008
in conjunction with the Fermilab Users' Executive Committee (UEC) and the U.S.
LHC Users' Organization (USLUO)

From SLAC Today, April 15, 2008

“…meeting with about 150 members of Congress, including two-thirds of the membership of relevant appropriations subcommittees. We also met with representatives from the President's Office of Management and Budget (OMB) and Office of Science and Technology Policy (OSTP), as well as Undersecretary for Science Raymond Orbach, Department of Energy (DOE) Deputy Director for Science Programs Pat Dehmer, Head of the DOE Office of High Energy Physics Dennis Kovar, Head of the National Science Foundation (NSF) Physics Division Joseph Dehmer and NSF Program Directors for Elementary Particle Physics Marvin Goldberg and James Reidy.”

“…the science is compelling, but we also need to communicate the tangible benefits of HEP to American education, industry, and innovation. In our continuing dialog with Congress and the nation about HEP, we must clearly explain the science case and the impact of the science on the education pipeline as well as technological innovation, industry, and medicine.”
DC Trip - Breakfast with Senator Robert P. Casey, Jr.
+ about half an hour of warm discussion on Science ... national and international!

Great Lesson of Direct Democracy!
SLUO 2008 Annual Meeting - Agenda

Agenda

08:00 - 08:30 – Continental Breakfast

08:30 - 08:45 Introductory Remarks with Messages to SLUO from Congresswoman Anna Eshoo and Congressman Mike Honda
  ➢ Gérard Bonneaud - Ecole Polytechnique CNRS/IN2P3 (15’);

08:45 – 10:05 The Lab - Chair Gérard Bonneaud
  ➢ Persis Drell – Vision for SLAC Science (40’);
  ➢ Steve Kahn – The PPA Paradigm (40’);

10:05 – 10:30 Coffee Break

10:30 – 12:30 Future of Physical Sciences: Views from Washington - Chair Grzegorz Madejski
  ➢ Mike Holland – Program Examiner, Office of Management and Budget - Energy Branch (40’);
  ➢ Joseph Dehmer – Director, National Science Foundation - Division of Physics (40’);
  ➢ Dennis Kevor – Associate Director, Department of Energy - Office of High Energy Physics (40’);
12:30 – 14:00 Lunch (a hosted lunch will be served to the SLUO Executive Committee and Institutional Representatives – Orange Room, Bldg. 040)

14:00 – 18:30 Present & Future of SLAC Science

- 14:00 – 16:00 Discussion Panel on “Accelerator-based Physics -- The Discovery Frontiers”

Panel Members: Barry Barish, Jonathan Dorfan (Moderator), Gil Gilchrist, Patric Muggli, Michael Peskin, Blair Ratcliff, Tor Rauenheimer, Harry Weerts

✓ Introduction

✓ Energy and Flavor Frontiers
  - Physics Opportunities
  - Accelerator R&D Opportunities
  - Atlas Detector Upgrade Opportunities
  - SiD – A Compact ILC Detector
  - Super-B Detector Opportunities

✓ Accelerator Frontier
  - FACET - Going Beyond Current Techniques

✓ Discussion

16:00 – 16:15 Coffee Break
SLUO 2008 Annual Meeting - Agenda

- 16:15 – 18:30 Discussion Panel on “The Cosmic Frontier”
  Panel Members: all Speakers with Roger Blandford (Moderator)

  ✓ Introduction
  o LSST Status
  o Science Opportunities with the LSST for SLAC Users
  o LSST-SNAP Complementarity
  o Observational Cosmology from a Particle Physics Perspective
  o CMB Observations
  o Fermi Status
  o Where next for the Community in Particle Astrophysics
  o Detectors R&D
  o A Particle Physicist’s View of Particle Astrophysics

  ✓ Questions & General Discussion

SLAC Science Opportunities

Roger Blandford – KIPAC  5’
Kirk Gilmore – KIPAC  15’
Dave Burke – SLAC  10’
Reynald Pain - LPNHE Paris  10’
Pat Burchat – Stanford U.  10’
Sarah Church – KIPAC  10’
Peter Michelson – Stanford U.  15’
Stefan Funk – SLAC  10’
Hiro Tajima – KIPAC  10’
Bill Atwood – UCSC  10’

18:30 – 20:30 Panofsky Auditorium Breezeway Reception: all SLAC and SLUO members welcome!
Lunch & FACET

Schedule

12:30pm- 1pm- Lunch in Bld. 280/Module C/Red Slate conf. room
1pm-2pm- Tour- board 2 vans outside Bld. 280- there will be two group badges.

**Attendees**

Dennis Kovar- DOE
Joe Dehmer- NSF
Mike Holland- OMB
Persis Drell
Steve Kahn
Jonathan Dorfan
Roger Blandford
David MacFarlane
Gerard Bonneaud
Tor Raubenheimer
Andre Seryei
John Seeman

1) Enter the linac at the Sector 24 stairs and walk up to the FACET area in Sector 19 to show the layout and then back out.

   *(Tor Raubenheimer, Andrei Seryi, Mark Hogan and John Seeman)*

2) PEP-II tunnel at Region 8 to show the machine and the RF system.

   *(Mike Sullivan and John Seeman)*
SLUO 2008

… Vibrant Scientific Community!

See SLAC Opportunities in the afternoon sessions

SLAC-PPA must stay one of the worldwide leaders and of the main interlocutors on the international arena of our field of Particle Physics and Astrophysics
SLUO 2008

SLUO 2008 has been organized with the crucial help of many people!
Thanks to all of them!
... and especially to

Jill Meyers
Raymond Lo
Jimmy Pham
Terry Anderson
Kathy Webb
Martha Siegel
Diana Viera
Donna Hernandez

the Communications Department
and many others...

Thanks!
Greetings from Congressman Michael M. Honda on the Occasion of the Stanford Linear Accelerator Center Users Organization’s Annual Meeting – SLUO 2008

September 18, 2008

I am pleased to welcome everyone to the Stanford Linear Accelerator Center Users Organization’s Annual Meeting. I would like to take this opportunity to commend the Stanford Linear Accelerator Center (SLAC) for its commitment to research and science.

Stanford Linear Accelerator Center (SLAC) was founded in 1962 at Stanford University for the United States Department of Energy. SLAC’s mission is to make discoveries in photon science at the frontiers in the ultra-small and ultra-fast in a wide spectrum of physical and life sciences. These discoveries in particle and astroparticle physics help
Greetings from Congressman Mike Honda for SLUO 2008

expand human understanding of the universe and the forces that control it. Today, SLAC is one of the world’s leading research laboratories. SLAC supports over 3,000 users from laboratories and institutes around the world per year by allowing them to use their unique facilities to perform cutting edge research.

I congratulate the Stanford Linear Accelerator Center for its 46 years of service and dedication to furthering the community’s interest in research and science. I wish the SLAC User Organization a successful event today and best wishes for the future, as SLAC continues to provide our community with innovative research.

With warmest regards,

Michael W. Honda
Mike Honda
Member of Congress
Greetings from Congresswoman Anna Eshoo for SLUO 2008
SLUO 2008

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http://www-group.slac.stanford.edu/sluo/