



# Users' Executive Committee Introduction

**Ashutosh Kotwal**

Duke University  
UEC Chair



# Users' Meeting Agenda, June 3

- 9:00 UEC Introduction
  - 9:10 GSA Introduction
  - 9:20 Status of the Accelerator Complex
  - 9:45 Tevatron Electroweak and Top Physics
  - 10:15 Status of NOVA
  - 10:45 BREAK
  - 11:00 Recent Results from MiniBoone and SciBoone
  - 11:30 Status of MINERVA
  - 11:50 Searches for a High-Mass Higgs Boson at CDF
  - 12:10 Lunch
  - 13:30 Sakurai Prize Talk – Perturbative QCD
  - 14:00 URA Thesis Prize Award Presentation
  - 14:05 URA Thesis Prize Talk
  - 14:30 Report from DOE OHEP
  - 15:05 Break
  - 15:20 Report from MINOS
  - 15:45 Report from NSF
  - 16:15 Tollestrup Postdoc Award Presentation
  - 16:20 Tollestrup Award Talk
  - 16:45 Tevatron Higgs Searches
  - 17:30 Poster Session & Banquet
  - 20:00 Public Lecture “Surfing on Plasma Waves”
  - 21:15 Festa in the Kuhn Barn
- Ashutosh Kotwal  
Tyler Dorland  
Keith Gollwitzer  
Bodhitha Jayatilaka  
Leon Mualem
- Sam Zeller  
Robert Bradford  
Simone Griso
- Keith Ellis  
Fred Bernthal  
Mikko Voutilainen  
Michael Procario
- Greg Pawloski  
Jim Reidy  
F. Bernthal & A. Tollestrup  
Junjie Zhu  
Wade Fisher
- Tom Katsouleas



# Users' Meeting Agenda, June 4

- 9:00 LHC Status and Plans
  - 9:30 CMS Status
  - 10:00 Observation of ZZ Production
  - 10:20 High Energy Physics in Japan
  - 10:50 BREAK
  - 11:05 Physics at the Energy Frontier
  - 11:35 Tevatron New Phenomena Searches
  - 12:05 Report from HEPAP
  - 12:30 Lunch and Outreach Posters
  - 13:00 "Wonders of Physics" demonstration show
  - 14:00 Observational Cosmology
  - 14:25 Search for Sterile Neutrinos in MINOS
  - 14:45 Physics at the Intensity Frontier
  - 15:15 Tevatron Flavor Physics
  - 15:45 Break
  - 16:00 Outreach Workshop Introduction
  - 16:10 ArgoNeuT and MicroBoone: Liquid Argon TPC
  - 16:30 mu2e and g-2
  - 16:55 Dark Matter Searches
  - 17:20 Director's Closing Remarks
  - 17:50 Adjourn
- Sergio Bertolucci  
Richard Cavanaugh  
Emanuel Strauss  
Koichiro Nishikawa
- Gustavo Burdman  
Simona Rolli  
Mel Shochet
- Josh Freiman  
Christopher Backhouse  
Stephen Parke  
Rick van Kooten
- Karen Gibson  
Josh Spitz  
Andrew Norman  
Andrew Sonnenschien  
Pier Oddone



## Users Meeting Highlights and Announcements

- Presentations on current and future physics program at Fermilab, LHC and Japan
- Reports from DOE, NSF and HEPAP
- Banquet and Poster session today at 5:30 PM in the Atrium
- Tickets (\$5) available for public lecture tonight at 8 PM by Tom Katsouleas

### “Surfing on Plasma Waves”

On the prospects of energy frontier machines using plasma-based acceleration

- Indian food and Italian desserts and wine at the Fest in the Kuhn Barn, tonight 9:15 PM
- Giant TESLA coil demonstration in the Village, Lab 3 parking lot, tonight 9:30 PM





## Outreach Workshop Announcements

- Thursday June 4, lunch and coffee breaks: Posters and demonstrations on Outreach activities

- Thursday June 4, 1 PM Ramsey Auditorium: bring your lunch to the

“Wonder of Physics”

travelling physics show for school students

- Friday June 5, 12 PM in Ramsey Auditorium: special colloquium by Michael Turner

“Communicating the Excitement of Science”

- Friday June 5, 1:30 – 4:30 PM, panel discussions on Outreach
  - Public outreach
  - Education outreach
  - Government outreach



**Special thanks to the Users Meeting Planning Sub-Committee,  
led by Lee Sawyer**

**Lee Sawyer (chair)  
Jon Urheim  
Karen Gibson  
Mitch Soderberg  
Patricia Vahle  
Tyler Dorland (GSA)  
Ron Moore  
Giorgia Karagiorgi (GSA)**



**And a big THANK YOU to Barb Book of the Fermilab Users  
Office!**



# UEC Membership

- Diverse representation in age and aspects of the laboratory program.
- **Members:**
  - Dan Hooper, Fermilab (Astrophysics)
  - Lee Sawyer, Louisiana Tech (DØ, ILC)
  - Matthew Jones, Purdue (CDF, CMS)
  - Mitch Soderberg, Yale (MiniBooNE) *secretary*
  - Ashutosh Kotwal, Duke (CDF) *chair*
  - Kirsten Tollefson, Michigan State (CDF)
  - Kevin Pitts, Illinois (CDF)-*past chair*
  - Karen Gibson, Pittsburgh (CDF)
  - Mike Hildreth, Notre Dame (DØ, CMS, ILC)
  - Ron Moore, Fermilab (AD/CDF)
  - Heather Ray, Florida (MiniBooNE)
  - Jon Urheim, Indiana (Minos/Nova)
  - Patricia Vahle, William & Mary (Minos)
- Also have Graduate Student Association (GSA) participation
  - Gabriel Facini, Northeastern (DØ)
  - Georgia Karagiorgi, MIT (MiniBooNE)
  - John BackusMayes, University of Washington (DØ)
  - Joshua Spitz, Yale (MiniBooNE)
  - Tyler Dorland, University of Washington (DØ)
- Graduate students are key contributors in many of our efforts.



# What we do

1. Communications: Keeping users informed of things relevant to our field and facilitate communications between the Laboratory and the users, and get feedback from the users.
  - Monthly meetings with directorate
  - Other meeting guests have included:
    - John Cooper (NOVA)
    - Bob Bernstein (MU2E)
    - Carole McGuire (Lewis-Burke Associates)
    - Jodi Leiberman (APS Public Affairs)
    - Steve Holmes (Project X)
    - Roger Dixon (Tevatron/AD)
    - Amanda Petersen (FNAL/International Services)
    - Craig Hogan (Astrophysics)
2. Work toward better quality of life at Fermilab
  - Issues that affect users
    - *e.g.* bike paths, ride share, dorms, gymnasium, late night taxi for shifters
3. Government relations: help the field of HEP present its case for community and government support
  - Where we've spent much of our time this year
  - As elected representatives of Fermilab users, we provide a voice independent from experiments and laboratories





# Major UEC projects 2008-2009

- **Government relations**
  - Local visits to congressional offices in home districts
    - established a new subcommittee to focus on this, chaired by Heather Ray
    - Local visits are very fruitful, need your participation!
  - Letter writing campaign (ARRA/Stimulus, FY09 & FY10 budgets)
  - Washington, DC trip (April 2009)
- **Annual Users' Meeting** (June 3-4, 2009)
  - Mike Procaro (DOE), Jim Reidy (NSF), Mel Shochet (HEPAP), Pier Oddone, Fred Bernthal (URA), Keith Ellis (co-recipient of Sakurai Prize 2009)
  - Talks on LHC plans by S. Bertolucci and physics in Japan by K. Nishikawa
  - Physics talks on current results and future plans
  - Grad student talks, URA thesis and postdoc prize talks, poster session
  - public lecture by Tom Katsouleas on plasma-based acceleration
- **Outreach Workshop** (June 5, 2009)
  - Special colloquium by Michael Turner
  - Panel discussions on public, education and government outreach
  - Poster session
  - "Wonders of Physics" demonstration show
  - Giant Tesla coil demonstration



# Washington, D.C. trip April 29-May 1





# Participants of 2009 Trip to Washington

## USLUO

- Mike Anderson
- Len Apanasevich
- Robert Clare
- Bryan Dahmes
- Sarah Demers
- John Huth
- Laura Jeanty
- Malina Kirn
- Tony Liss
- Ellie Lockner
- Yuri Maravin
- David Miller
- Harvey Newman
- Sridhara Dasu
- Michael Barnett

## SLAC SLUO

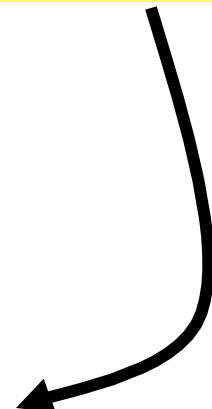
- David Brown
- Brian Gerke
- Norman Graf
- Michael Busha
- Lisa Kaufman
- Bill Lockman
- Steve Sekula
- David Doll
- Greg Madejski
- Gregory Dubois-Felsman
- Gerard Bonneaud
- Tom Handler

49 total participants

## FNAL UEC

- Karen Gibson
- Sharon Hagopian
- Vasken Hagopian
- Lee Sawyer
- Sal Rappoccio
- Heather Ray
- Kirsten Tollefson
- Ashutosh Kotwal
- Matthew Jones
- Kevin Pitts
- Mitch Soderberg
- John BackusMayes
- Mike Hildreth
- Chris Stoughton
- Tricia Vahle
- Ron Moore
- Dan Hooper (chair, trip planning sub-committee)
- Rob Forrest
- Tyler Dorland
- Herman White
- Breese Quinn
- Sarah Schlobohm
- Jon Urheim (could not travel to Washington)

FRA/URA support  
crucial to this effort!





# 2009 Washington Trip Logistics

- **Trip was April 29 – May 1**  
(after Stimulus package and FY09 budget was passed)
- **We visited**
  - ~200 Congressional offices
  - OMB (Mike Holland)
  - NSF (Joe Dehmer, Marvin Goldberg, Jon Kotcher)
  - DOE (Pat Dehmer, Glen Crawford)
  - House Energy-Water Development Subcommittee Staff (Bob Sherman)
- **Strategy for Congressional visits:**
  - Thank them for science funding in last year's supplemental, this year's Stimulus package and FY09 budget
  - Focus on maintaining steady, long-term support via FY10 budget and beyond
- **UEC was the lead entity in this effort**
  - Major support from the lab and FRA
    - Travel for 18 people
    - Material production (Particle Physics in Pictures book, one-pager)
    - URA hosted us in Washington (home base!)
  - Also support from APS

## Our message

- In addition to talking about the excitement of the science we are doing, we specifically focused this year on:
  - Innovation/economic impact & technology transfer to industry, with examples
  - Education/workforce: our field cultivates innovators, help economic competitiveness
  - Emphasized both forms of return on long-term investment
- Last year and this year, Our message was more specific to HEP. In previous years the message was more about general support of physical science.



# Feedback

- **Congressional feedback largely positive**
  - Offices appreciate the role of science as driver for innovation
  - Educational message is a real winner
  - They want to increase funding for the physical sciences: a number of “Dear Colleague” letters circulated in House and Senate
- **Quantitative metrics on return of government’s investment in basic science funding have been requested of us:**
  - Impact of people we trained
  - Industrial impact of spin-off technologies
  - They encouraged us to think about and articulate our deliverables
- **Winning points:**
  - Benefits of HEP to society via education
  - Maintaining world-wide reputation as a society that leads in science and technology
  - National pride



# Summary

- The success of the Fermilab program comes about through the combined efforts of the Laboratory and the Users.
- The Users truly appreciate the lab's continuing efforts to provide the people and resources to make the program a success.
- We thank the FRA for their strong support of the Users, UEC and GSA.
  - The Washington, DC trip and the Users' Meeting would not be possible without this strong support
- Encourage you to nominate yourself and your colleagues to run for the UEC