Welcome to the 46th Fermilab Users Meeting

astroparticle, and neutrino physics and presentations on future projects. Featuring talks and posters from outstanding young physicists.

Nikos Varelas University of Illinois at Chicago UEC Chair

June 12, 8 pm Dr. Sean Carroll California Institute of Technol

Special Events June 12, 3:40 pm The International Linear Collider - A Worldwide From Desian to Reality

June 13, 4 pm Director Pier Oddone Farewell Symposiu



‡ Fermilab

June 12-13, 2013

Fermi Research Alliance





Safety First

Standing in the aisles, sitting on the stairs or in front of exit doors is not permitted - *please find a seat*.

In the event of a fire, depart using the nearest exit. Exits are located at the base of the stage, rear corners of the auditorium and through the main doors of the auditorium located at the back.

For other emergencies you will be provided with voice instructions as to actions to be taken.

Smoking is prohibited in this building. The designated smoking area is outside the building on the grass. Use provided receptacles for smoking debris.

Restrooms are located through the rear exit doors on the far side of the lobby.

Nikos Varelas + UIC

Users Executive Committee

Nikos Varelas

Craig Mary Anne Group

Sergo Jindariani

Dan Kaplan

Ryan Patterson

Greg Pawloski

Breese Quinn

Cummings

Lee Roberts

Mandy Rominsky Users Meeting - June 12-13, 2013

Greg Snow



Nikos Varelas + UIC



Users Meeting Support

Sergo Jindariani



Send your slides to Sergo and Bob to upload them to the agenda (sergo@fnal.gov, zwaska@fnal.gov)



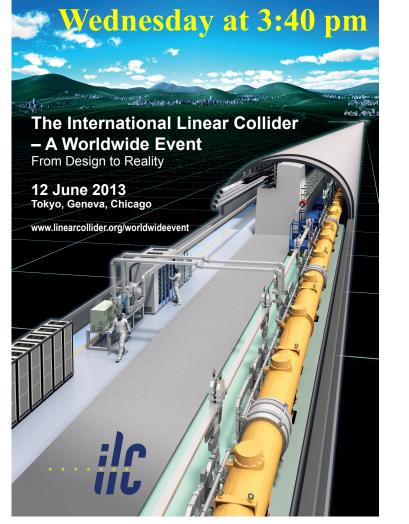
Bob Zwaska 4

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Fermilab UEC

Special Events



Farewell Pier

You are cordially invited to attend these f<mark>arewell ev</mark>ents that will be <mark>held in his</mark> honor:

Symposium

Thursday, June 13, 4 to 5:45 p.m., Ramsey Auditorium Enjoy a series of lively and fast-paced presentations that highlight Fermilab's many achievements and milestones during Pier's time as director.

Reception following symposium

Thursday, June 13, begins at 6 p.m., Atrium, Wilson Hall Join your fellow employees and users for refreshments, hors d'oeuvres and conversation.

Cake and ice cream with Pier

Date and time in July TBD, Atrium, Wilson Hall Fermilab employees will have a chance to say goodbye and enjoy celebratory cake and ice cream in the Atrium.

> After eight years as director of Fermilab, Pier Oddone is retiring.

> > CO ENERGY Office of Science

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Social Program

- Coffee Breaks each morning and afternoon in atrium
- Banquet is today at 5:45 pm in atrium
 - Gourmet BBQ (with vegetarian options)
 - Poster session at same time
 - Registration for Users Meeting is required
- Public lecture by Sean Carroll at 8 pm in Ramsey Auditorium
 - Tickets are required, not included in Users Meeting registration
 - Graduate students can get tickets for free with Fermilab ID
- Festa Italiana at 9 pm in Kuhn Barn
- Reception tomorrow at 6 pm after Pier Oddone's Farewell Symposium





The Program

WEDNESDAY, JUNE 12

Session Chair Nikos Varelas

09:00 Welcome

12:00 LUNCH

N. Varelas, UIC 09:05 The Fermilab Program for the Next Decade Y.-K. Kim, Fermilab 09:20 Recent Results from the Tevatron A. Jung, Fermilab 09:45 SM Results from the LHC J. Guimaraes da Costa, Harvard 10:10 Beyond the SM Searches from the LHC P. Tan, University of Iowa 10:35 BREAK

Session Chair Sergo Jindariani

10:50 Tevatron Higgs K. Knoepfel, *Fermilab* 11:10 LHC Higgs J. Koningsberg, *University of Florida* 11:35 Frontiers of the Standard Model and Beyond B. Dobrescu, *Fermilab*

> Session Chair Breese Quinn

13:00 Status of the Fermilab Accelerator Complex I. Kourbanis. Fermilab 13: 20 MINOS A. Radovic, University College London 13:40 NOvA M. Frank, University of Virginia 14:00 MINERvA P. Rodrigues, University of Rochester 14:20 Sci/Mini/MicroBooNE C. Mariani, Virginia Tech 14:45 DOE Report J. Siegrist, DOE 15:05 DPF/Snowmass Report J. Rosner, University of Chicago 15:20 BREAK

ILC Event: From Design to Reality Chair: J. Lykken, Fermilab

15:40 Introduction to Program, Hand-off from Europe J. Brau, University of Oregon 15:55 ILC Physics J. Lykken. Fermilab 16:10 ILC Detectors J. Brau. University of Oregon 16:30 ILC Accelerator N. Phinney, SLAC 16:55 ILC Accelerator and Detector Technology in U.S. Industry K. Olsen, SPAFOA 17:15 Superconducting RF as an Enabling Technology M. Tigner, Cornell University 17:35 Presentation of the TDR to ICFA Chair by the GDE Director B. Barish, Caltech P. Oddone, Fermilab

17:45 BANQUET AND FSPA POSTER SESSION Wilson Hall Atrium

20:00 Public Lecture Ramsey Auditorium "Particles, Fields, and the Future of Physics" Sean Carroll, Caltech

21:00 FESTA ITALIANA Kuhn Barn

THURSDAY, JUNE 13

Session Chair Bob Zwaska

08:30 Scientific Computing A. Lyon, *Fermilab* 08: 50 Project X Accelerator S. Holmes, *Fermilab* 09:15 Project X Research Program R. Tschirhart, *Fermilab* 09:40 ORKA J. Lewis, *Fermilab* 10:00 Mu2e B. Echenard, *Cattech*

10:20 BREAK

Session Chair Gregory Snow

J. Raaf, Fermilab

10:40 LBNE

11: 00 g-2

- P. Winter, Argonne National Laboratory 11:20 URA Visiting Scholars M. Cehelsky, URA
- 11:25 URA Tollestrup Award A. Tollestrup, *Fermilab*, S. Beering, *URA* 11:30 En Route to the Electroweak
 - Symmetry Breaking Y. Gao, Fermilab
- 11:50 URA Thesis Award S. Beering, URA 11:55 Precision Measurement of CP Violation in Charm Decays at CDF A. Di Canto, University of Pisa

12:15 LUNCH

Session Chair Lee Roberts

13:15 SeaQuest K. Liu, Los Alamos National Laboratory
13: 35 Illinois Accelerator Research Center R. Kephart, Fermilab
13:55 Muon Accelerator / nuSTORM J.-P. Delahaye, SLAC
14:15 Dark Matter Searches H. Lippincott, Fermilab
14:35 Dark Energy Searches M. Carrasco Kind, University of Illinois 14:55 The Pierre Auger Observatory Eun-Joo Ahn, Fermilab 15:10 FSPA Report L. Aliaga Soplin, College of William and Mary 15:20 UEC Report N. Varelas, UIC

15:40 BREAK

Director Pier Oddone Farewell Symposium Chairs: Y.-K. Kim, Fermilab N. Varelas, UIC

16:00 Welcome Y.-K. Kim, *Fermilab*, N. Varelas, *UIC* 16:05 The Last Eight Years Y.-K. Kim, *Fermilab* 16:15 Fermi Site Office M. Weis, M. Bollinger 16:20 DOE J. Siegrist, D. Kovar, W. Brinkman 16:30 Fermi Research Alliance S. Beering, *URA*, D. Levy, *Univ. of Chicago* 16:40 The Cosmic Frontier J. Frieman, *Fermilab*

16:50 The Fermilab Accelerator Complex: In and Beyond the Oddone Era S. Holmes, *Fermilab*

17:00 Exploring the Energy Frontier with the Tevatron

L. Ristori, *INFN/Fermilab* 17:10 CMS and the Large Hadron Collider I. Shipsey, *Purdue University*

17:20 Road to the Intensity Frontier B. Fleming, Yale University

17:30 International Collaboration S. Mishra, Fermilab S. Soldner-Rembold, Manchester 17:45 Concluding Remarks

Y.-K. Kim, N. Varelas

18:00 RECEPTION Wilson Hall Atrium

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Enjoy the Meeting



http://www.fnal.gov/orgs/fermilab_users_org/users_mtg/2013/

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