

Calendar

Tuesday, May 24

12:00 p.m. Wellness Works Presents:

Weight Watchers Free Open House

Meeting - WH-15NW

3:30 p.m. DIRECTOR'S COFFEE

BREAK - 2nd Flr X-Over

THERE WILL BE NO ACCELERATOR

PHYSICS AND TECHNOLOGY

SEMINAR TODAY

Wednesday, May 25

THERE WILL BE NO FERMILAB ILC

R&D Meeting THIS WEEK

THERE WILL BE NO PROTON DRIVER

GENERAL Meeting THIS WEEK

3:30 p.m. DIRECTOR'S COFFEE

BREAK - 2nd Flr X-Over

4:00 p.m. Fermilab Colloquium - 1 West

Speaker: N. Barlow, Northern Arizona

University

Title: Beyond Tang: The Hidden Benefits

of the Space Program

Weather



Partly Cloudy **67°/45°**

[Extended Forecast](#)

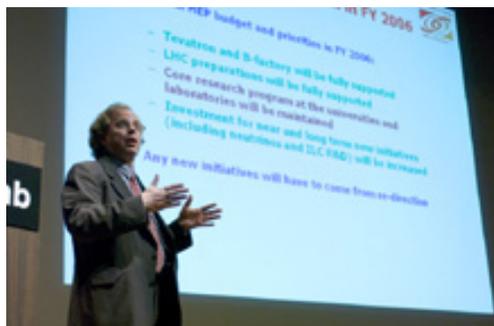
[Weather at Fermilab](#)

Current Security Status

[Secou Level 3](#)

Wilson Hall Cafe

Staffin To Discuss P-5 on Wednesday, May 25



Robin Staffin addressing the Fermilab community at a lab-wide meeting on April 7.

(Click on image for larger version.)

A new session of the Particle Physics Project Prioritization Panel, P-5, will soon convene, with new membership and a new charter. Robin Staffin, Associate Director for High Energy Physics in DOE's Office of Science invites the Fermilab scientific staff and users to a discussion of P-5's charge on Wednesday, May 25, from 1:30 to 2:30 p.m. in One West. The discussion will be [streamed live online](#).

Fire Dept., Cryo Show and Buffalo Top DASTOW '05

The Fermilab Fire Department, the Cryo Show and the visit to the buffalo pasture are all



DASTOW '04 (Click on image for larger version.)

lined up once again for Daughters and Sons to Work Day at Fermilab (DASTOW '05), scheduled for Thursday, June 23. There will be other attractions offered as well, as DASTOW shifts from its usual spring date and makes a

Director's Corner

Good Morning!

I will start our Annual Program Review today with an overview of the Fermilab research program. I end that talk with a summary that, to paraphrase somewhat, says the following:



Mike Witherell

"The Fermilab accelerators are simultaneously providing beams for two unique particle physics programs. The Tevatron collider is operating at record levels for CDF and DZero. The proton accelerators are reliably providing intense beams to MINOS and MiniBoone in the neutrino program. All experiments are running well. Exciting physics is coming out and it will get better. In addition, the particle astrophysics program is hitting full stride. Finally, we are starting to invest more in ILC and neutrinos for the future. Fermilab has a central role in the future of particle physics in the U.S."

The future of the particle physics in the U.S. will be the subject of a new session of the HEPAP subpanel called P5. As you can see elsewhere in this issue of Fermilab Today, Robin Staffin will discuss the P5 charge at a meeting tomorrow afternoon in 1 West.

Tuesday, May 24

Tomato Bisque

Pesto Marinated Chicken Breast \$4.75

Burgundy Beef Tips \$4.25

Baked Fish Creole over Rice \$3.75

Grilled Chicken Caesar Wrap \$4.75

Supreme \$2.75

Rio Grande Taco Salads \$4.75

The Wilson Hall Cafe now accepts Visa, Master Card, Discover and American Express at Cash Register #1.

[Wilson Hall Cafe Menu](#)

[Chez Leon](#) is now open. Call x4512 to make your reservation.

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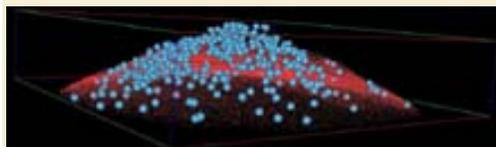
trial appearance during the summer.

Keep the date open-Thursday, June 23 — and keep watching Fermilab Today for the latest updates on DASTOW '05.

-- *Mike Perricone*

ILC This Week

SRF Material Collaboration Expands to U. of Wisconsin



Approximatley 95,000 Fluorine atoms (blue balls), showing the distribution on and near the surface of Niobium (red points) after chemical etching using 3DAP technique.

(Click on image for larger version.)

On May 4, the fifth meeting of the Superconducting RF Materials Collaboration took place at Fermilab. Two years ago, Helen Edwards and Robert Kephart, Fermilab, initiated the collaboration, bringing together the members of Fermilab's Technical Division SRF Materials group (led by Pierre Bauer and Cristian Boffo) and of the renowned Applied Superconductivity Center at the University of Wisconsin-Madison (led by David Larbalestier). The goal of the collaboration is to support and advance the SRF technology development for the International Linear Collider.

Three new groups joined the collaboration in time for the May meeting: David Seidman's group of the Materials Science and Engineering department at Northwestern University, Terry Grimm's group at Michigan State University's National Superconducting Cyclotron Laboratory, and the MSU materials science group represented by Thomas Bieler. These institutions are also part of

Dorfan All-Hands Message Addresses Cause, Effects Of Power Outage at SLAC

MENLO PARK, Calif. -- The unexpected happens, and the ability to deal with it is a true measure of the spirit of an

organization. This is why I would like to thank you

all for the wonderful response at the laboratory to the difficulties and frustration caused by last week's power outage.



Jonathan Dorfan

All the events that caused the power outage were beyond SLAC's control. Our main power lines come down from Skyline through the wooded hills west of the laboratory. SLAC maintains a wide easement under these lines, regularly trimming the trees and undergrowth to prevent interference with the lines. At 8:00 last Wednesday morning a 100ft tall pine tree, growing well outside the SLAC easement, snapped off at its base and crashed down, severing two of the three 230 KV transmission lines, immediately halting all electric power to the laboratory. This is the first time in 40 years that a tree has brought down our power lines in such a dramatic fashion. We have had power outages before but these were normally remedied quickly by restoring the 230 KV or by temporarily switching on to our 60 KV backup line. However, circumstances last week conspired against us as this backup line, which comes in from the eastern side of our site, had been disconnected because of the road work ongoing on Alpine Road.

After tremendous work by PG&E working

the larger SMTF collaboration at Fermilab.

Several [presentations](#) covered a broad range of topics from surface chemistry to magnetic vortex penetration. In particular, the presentations discussed the chemical composition of the first 100 nm of niobium surface, electropolishing R&D, Kapitza and niobium thermal conductivity measurements, mechanical properties of high purity niobium, and magneto-optics measurements. The day ended with talks on the theoretical aspects of the work, focusing on non-linear behavior of RF surface resistance in niobium. Lively discussions and a coffee break with real Italian-made slices of Tiramisu reflected the positive spirit of collaboration.

The meeting provided evidence that this Midwestern collaboration is in the process of becoming a major player in the development of technologies aimed at producing better performing accelerating cavities for the ILC or a proton driver.

--Cristian Boffo

[Linear Collider News Archive](#)

Accelerator Update

May 20 - May 23

- During this 72 hour period Operations established two stores that provided the experiments with approximately 38 hours of luminosity.
- TeV problems throughout the weekend.

[Read the Current Accelerator Update](#)

[Read the Early Bird Report](#)

[View the Tevatron Luminosity Charts](#)

In the News

in very inclement weather on the slope of Skyline, power was restored to SLAC on Friday evening. Since that time SLAC teams have been at work implementing a careful, phased restart of our many, complex systems. However, please be very careful when you return to work on Monday as there could be unexpected hazards at your places of work resulting from the outage. Each of you will be handed a safety reminder upon arrival on Monday, May 23rd.

My sincere thanks for your patience during the period that you were asked not to come to the site. A special thank you and gratitude to all those individuals that worked so carefully and effectively immediately after the outage to secure the laboratory, to connect emergency systems, and to those that have been working to get the laboratory up and running again. We can all be proud of the cooperation, mutual support, sense of dedication and respect for safety that brought us through this unexpected crisis.

-- SLAC Director Jonathan Dorfan

Announcements

Open House Meeting of Weight Watchers

Attend the free open house meeting of Weight Watchers on Tuesday, May 24 at noon in the Wilson Hall 15NW Conference Room. For information contact Bernie Dugan x3591.

PC Manager Meeting 5/25

The next PC Manager Meeting will be on May 25 from 9:00 a.m. to 10:00 a.m. in WH8XO. CD has built a site Systems Management Server (SMS). Cele Bruce will explain the benefits of using SMS (patch distribution, software and hardware inventory, remote control of desktops)

From *Chicago Sun-Times*, May 23, 2005

Uncloaking ancient secrets

by Alex Dominguez

BALTIMORE -- A particle accelerator is being used to reveal the long-lost writings of the Greek mathematician Archimedes, work hidden for centuries after a Christian monk wrote over it in the Middle Ages.

Highly focused X-rays produced at the Stanford Linear Accelerator Center were used last week to begin deciphering the parts of the 174-page text that have not yet been revealed.

[Read more](#)

and how Divisions/Experiments/Sections can make use of this service to better manage their windows servers and desktops.

Unix Users Meeting

The next Unix Users meeting will be on Wednesday, May 25 at 1:00 p.m. in Curia II. Here is an agenda:

- Security Team - subject of the month
- Linux Update - Troy Dawson
- Scientific Linux Fermi 40rolling
- Scientific Linux 3.0.5 beta ??
- New Learning Spam Filter - Kevin Hill
- Meeting Maker Web Client - Jack Schmidt

[Upcoming Activities](#)