

## Calendar

Tuesday, April 21  
3:30 p.m.  
DIRECTOR'S COFFEE  
BREAK - 2nd Flr X-Over  
4 p.m.  
Accelerator Physics and  
Technology Seminar - One  
West  
Speaker: Eliana Gianfelice-  
Wendt, Fermilab  
Title: Accelerator Physics  
Developments for Tevatron  
Run II: Lecture 2: Part 2:  
Linear Optics Measurements  
(Closed Orbit Distortion, Turn-  
by-Turn)

Wednesday, April 22  
3:30 p.m.  
DIRECTOR'S COFFEE  
BREAK - 2nd Flr X-Over  
4 p.m. [Fermilab Colloquium](#) -  
One West Speaker: Dan  
Hooper, Fermilab Title:  
Charged Cosmic Rays and  
Particle Dark Matter

[Click here](#) for NALCAL,  
a weekly calendar with  
links to additional  
information.

## Weather



Chance of showers  
51°/36°

[Extended Forecast](#)  
[Weather at Fermilab](#)

Current Security  
Status

[Secon Level 3](#)

## Wilson Hall Cafe

## Feature

## FNAL Ph.D. graduate Ryoichi Miyamoto earns APS award



[Ryoichi Miyamoto](#)  
[gives a presentation at](#)  
[the 2007 annual Users](#)  
[meeting at Fermilab.](#)

Miyamoto will receive the award for  
Outstanding Doctoral Thesis Research in  
Beam Physics for his work on an AC dipole, a  
magnet that excites sustained beam  
oscillations at a certain frequency, for  
diagnostics in the Tevatron. He will accept the  
award at the Particle Accelerator Conference  
in May in Vancouver, Canada. He now works  
at Brookhaven National Laboratory.

To make sure that the Tevatron is working  
properly and to continue to increase  
luminosity, scientists must assess that each  
part of the machine works correctly. To do  
that, they collect orbit data from beam  
circulating in the system and compare that  
data to the models of how it should work.  
Miyamoto's system uses a low-intensity beam  
and a 20 kHz AC dipole that allows the beam  
to remain in an excited state longer without  
beam loss or quenches. That allows each of  
more than 200 beam position monitors to take  
more data quickly, and greatly improves the  
accuracy of optical function measurements  
compared to more traditional methods.

Miyamoto, with the help of his supervisors,  
University of Texas-Austin's Professor Sacha  
Kopp and AD's Mike Syphers, and accelerator  
scientists, engineers and technicians,  
developed, implemented and successfully  
used a new system for revealing the condition  
of the Tevatron focusing lattice.

"This is really remarkable," said Vladimir  
Shiltsev, director of the Accelerator Physics

Ryoichi Miyamoto, a  
graduate of Fermilab's  
Accelerator Ph.D.  
program has won the  
2009 APS Award for  
development of a novel  
diagnostic system for  
the Tevatron.

Due to the successful  
operation of the  
Tevatron's new system,  
CERN will soon have a  
similar system built for  
the LHC.

## Director's Corner

## EVMS

Earned Value  
Management (EVM) is a  
methodology for  
integrating scope,  
schedule and resources  
to measure the  
performance and  
progress of projects  
against an agreed-to  
baseline plan. The system  
that is put in place to  
implement this methodology is EVMS.



Pier Oddone

Earned Value concepts started in the 60s  
during the development of large projects. The  
basis for these concepts is very simple: how  
much value have we created with what effort,  
and do these match our plan at a given stage?  
Implementing an accurate measurement  
system, however, is not simple. At Fermilab  
we have applied these concepts for a number  
of years to our projects, but not to their full  
extent and power. EVMS is now considered  
best practice and is the standard adopted by  
the federal government and the project  
management industry. To carry out large  
projects in the future, FRA needs to be  
certified as meeting the ANSI/EIA-748-B  
Earned Value Management Systems  
standard.

We certainly stand to gain from being certified  
to national standards as we have in the  
environmental and health and safety areas.  
The more we adopt best practices and  
national standards the more straightforward  
and transparent will be our interactions with  
our sponsors and with industry. The system  
will keep everyone--project managers, other  
members of the project team, and upper level  
management (Laboratory & DOE)--informed  
as to the near-real-time performance of  
projects. This information allows an  
understanding of the final projected cost at  
completion, and provides warning as problems  
arise or trends develop to allow corrective  
actions in order to deliver the project on  
schedule and within budget.

The EVMS Core Team working on developing  
the system consists of eleven people and is  
led by Dean Hoffer and Elaine McCluskey.  
EVMS has been first implemented for the

Tuesday, April 21

- Chicken & rice soup
- Double cheese burger w/ bacon
- Beef stroganoff
- Smart cuisine: chicken lemon
- Peppered beef
- Assorted slice pizza
- Taco nachos

[Wilson Hall Cafe Menu](#)

**Chez Leon**

Wednesday, April 22

- Lunch
- Assortment of quiches
  - Cucumber salad
  - Fresh fruit plate

Thursday, April 23

- Dinner
- Spinach & bacon salad
  - Grilled swordfish w/ lime cilantro
  - Sauce
  - Rice pilaf
  - Lemon cake

[Chez Leon Menu](#)

Call x3524 to make your reservation.

**Archives**

[Fermilab Today](#)

[Result of the Week](#)

[Safety Tip of the Week](#)

[ILC NewsLine](#)

**Info**

[Fermilab Today](#)

is online at:

[www.fnal.gov/today/](http://www.fnal.gov/today/)

Send comments and suggestions to:

[today@fnal.gov](mailto:today@fnal.gov)

Center, which jointly administers the Ph.D. program. "Ryoichi came to Fermilab and quickly learned about the Tevatron, how it works, how to get access to the orbit data, then he has built the AC dipole system and showed that it is a very useful instrument."

-- *Rhianna Wisniewski*

### Special Announcement

## Computing Division launches Fermilab Service Desk today

This morning at 8 a.m., the new Fermilab [Service Desk](#) went live. If you need any assistance, please log into the new Service Desk to report information technology incidents or to make routine IT requests. Please remember that your first login to the new Service Desk will initially work slowly as the system creates your personal profile. Subsequent visits will operate much faster. If necessary, you can call the Service Desk directly at x2345. Thank you for your patience and support during this transition.

### In the News

## NASA spots most crowded space collision ever

From *MSNBC.com*, April 16, 2009

Astronomers spotted the galaxy clusters involved in a triple merger

An interstellar pileup involving four galaxy clusters has become the most crowded cluster collision ever detected.

Astronomers spotted the galaxy clusters involved in a triple merger, the first time that such a phenomenon has been recorded. NASA's Chandra X-Ray Observatory and Hubble Space Telescope joined the Keck Observatory in Hawaii to safely observe the mess from 5.4 billion light years away.

The cosmic collision is taking place in MACSJ0717, a 13 million-light-year-long stream of galaxies, gas and dark matter known as a filament. That filamentary freeway continues to pour galaxies and other matter into a region already full of galaxies.

"In addition to this enormous pileup, MACSJ0717 is also remarkable because of its temperature," said Cheng-Jiun Ma, an astronomer at the University of Hawaii. "Since each of these collisions releases energy in the

NOvA project, which has followed its procedures and reporting requirements over the last six months. Dean, Elaine and John Cooper, the NOvA project manager, have been relentlessly driving their teams in developing the EVMS program and getting it operational in NOvA. The EVMS performance metrics make up a major part of the NOvA monthly reports.

A team of approximately a dozen people from DOE's Office of Engineering & Construction Management, which monitors EVMS compliance, will descend upon Fermilab for the entire week of May 11-15 to prod, probe, question, interview and understand our program and NOvA's implementation, culminating in recommendations that FRA will have to address in order to receive certification under the ANSI standard.

We have worked hard in preparing and implementing our [EVMS program](#) (pdf). We welcome the OECM Certification Review Team and we look forward to their recommendations to help us better implement this important management tool.

### Accelerator Update

April 17-20

- Five stores provided ~56.5 hours of luminosity
- NuMI off due to autotune software problems
- TeV injection magnet power supply failed
- MI-20 LCW pump trips

\*The integrated luminosity for the period from 4/13/09 to 4/20/09 was 73.07 inverse pico barns.

[Read the Current Accelerator Update](#)

[Read the Early Bird Report](#)

[View the Tevatron Luminosity Charts](#)

### Announcements

form of heat, MACS0717 has one of the highest temperatures ever seen in such a system."

Collisions between galaxies can often result in larger galaxies. Our Milky Way is slated for a run-in with a colossal cloud of gas, and eventually will merge with the neighboring Andromeda galaxy.

[Read more](#)

### In the News

## Bison a big hit at Fermilab

From *Kane County Chronicle*, April 20, 2009

Buddy kept his eye on Jon Plese as he approached the fence on the grounds of Fermilab.

As Buddy licked his lips, there was no doubt what was on his mind and that of his fellow bison – food. But feeding an 1,800-pound animal is not as easy as just ripping open a bag of food and pouring it into a dish.

"You can't just walk in their pen," said Plese, 42, who takes care of the herd. "They are wild animals. They are unpredictable."

Feeding the animals has become a routine for Plese, who has worked at Fermilab for 22 years. He took over as bison herder three years ago after the previous herder retired.

Plese has to retreat to the safety of a tractor to feed the herd. After attaching a wagon full of 4 percent dairy protein pellets to the tractor, he drives the tractor to the empty troughs. Then, he pulls a lever to dispense the pellets.

[Read more](#)

[Have a safe day!](#)

[Fermilab blood drive today and 22](#)

[April is National Humor Month...click on the link for the joke of the day](#)

[Free 30-minute ab workout](#)

[Fermilab club & league fair](#)

[Blackberry Oaks Golf League](#)

[Got golf? Join the Fermilab Golf League](#)

[Muscle toning classes](#)

[Argentine Tango classes through May 13](#)

[Discounted rates at Grand Geneva Resort, Lake Geneva, WI](#)

[MathWorks seminar today](#)

[NALWO - Mexican cuisine cooking demonstration](#)

[Administrative Professionals Day April 22](#)

[Word 2007: Styles and Templates class April 23](#)

[Lederman Science Center to host outdoor fair - April 26](#)

[Greek Folk Dance workshop - April 30](#)

[NALWO Spring tea May 1](#)

[English country dancing May 3](#)

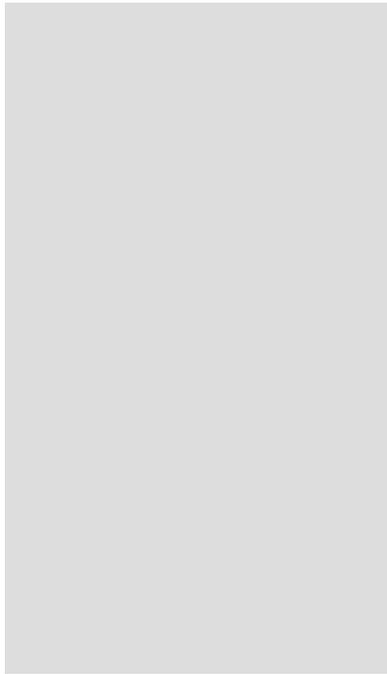
[Word 2007: New Features class May 5th](#)

[Excel 2007: New Features class May 7th](#)

[National Day of Prayer observance May 7](#)

[Best of Dance Chicago - Fermilab Arts Series - May 9](#)

[Rapid Hardware Prototyping and Industrial Control Application Development seminar May 13](#)



[Co-ed softball season begins May 13](#)

[Summer co-ed volleyball league begins June 1](#)

[Conflict Management and Negotiation Skills class June 3 and 10](#)

[Discount tickets to "1964"...Beatles tribute - June 6](#)

[SciTech summer camps](#)

[Additional Activities](#)

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[Submit an announcement](#)