

Calendar

Have a safe day!

Tuesday, July 6
12 p.m.

[Summer Lecture Series](#) - One West
Speaker: Harrison Prosper, Florida State University
Title: The Standard Model and Beyond

2:30 p.m.

Astro Seminar Series - One West
Speaker: Russell Neilson, Stanford University
Title: Status of EXO

3 p.m.

Special Lecture - Curia II
Speaker: Eric Prebys, Fermilab
Title: The Art of Applying to Graduate School

3:30 p.m.

DIRECTOR'S COFFEE BREAK - 2nd Flr X-Over
THERE WILL BE NO ACCELERATOR PHYSICS AND TECHNOLOGY SEMINAR TODAY

Wednesday, July 7

3:30 p.m.

DIRECTOR'S COFFEE BREAK - 2nd Flr X-Over
THERE WILL BE NO FERMILAB COLLOQUIUM THIS WEEK

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

[Upcoming conferences](#)

Campaigns

[Take Five](#)

[Tune IT Up](#)

H1N1 Flu

For information about H1N1, visit Fermilab's flu information [site](#).

Weather

 **Chance Showers**
87°/73°

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

Current Security Status

[Secur Level 3](#)

Wilson Hall Cafe

Tuesday, June 29

- Bagel sandwich
- Golden broccoli soup
- Southern-style fish sandwich
- Coconut-crustad tilapia
- Burgundy beef tips
- La grande sandwich
- Assorted sliced pizza
- Chicken fajitas

[Wilson Hall Cafe Menu](#)

Chez Leon

Feature

Fermilab ecologist discovers two rare plants



Fermilab contract restoration ecologist Ryan Campbell holds a sprig of woodland bluegrass, *Poa sylvestris*, a recently discovered rare plant species at Fermilab. *Image courtesy of Ryan Campbell.*

Tucked out of sight and sheltered in the woods near Fermilab's main entrance, something extraordinary is happening. A tender little plant is bearing fruit and will soon go to seed in a brilliant burst of iridescent blue.

The blue cohosh, one of two plant species identified for the first time at Fermilab this spring, may look fragile, but its presence marks a victory for woodland restoration.

Consulting restoration ecologist Ryan Campbell identified the blue cohosh, *Caulophyllum thalictoides*, and woodland bluegrass, *Poa sylvestris*, while surveying Fermilab woodlands in May. These native plants are uncommon in Chicagoland, making them valuable to conservation efforts.

"Those plants wouldn't be here without a whole team effort," Campbell said. "They are here because of the work done at Fermilab and through the entire Chicago area's conservation community."

As Campbell noted on the Fermilab Natural Areas [blog](#), the cohosh was likely brought onsite through a seed exchange between Fermilab and a local county forest preserve to increase biodiversity.

The woodland bluegrass is more mysterious. Difficult to spot, this plant may have been onsite for some time but was overlooked or mistaken for a common grassy cousin.

"Whenever we find a new plant, it's like finding a new piece in this big puzzle," said Fermilab Roads and Grounds' Bob Lootens. "We're not going to find all of the pieces, but every new piece is important in restoring what we once had."

The discovery of thriving native plants indicates the success of restoration efforts. Woodland and prairie burnings have been instrumental in Fermilab's restoration, removing invasive species and encouraging native plants to reclaim their natural niche.

"What we're doing is working and clearly needs to continue," Campbell said. "This is good for Fermilab and good for the region. Five years from now, you never know what plant we'll find next."

-- *Daisy Yuhas*



Director's Corner

Engineering Manual

We are rolling out the Engineering Manual this week. We will hold a meeting to discuss the manual and its implementation this coming Thursday at noon in the auditorium. In the meantime, if you are involved in engineering at Fermilab, please pick up a hard copy of your manual in the duplicating area next to the east entrance of Wilson Hall. In the future the manual and its many appendices will be kept updated on the web.



Pier Oddone

The manual comes from the effort of a group of engineers at Fermilab under the leadership of Paul Czarapata and Jay Theilacker. It has its origins in the root-cause analysis that we carried out after the failure of the internal supports of the LHC triplet magnets. The root-cause analysis pointed out several deficiencies in how we do reviews, in risk analysis and in documentation.

At Fermilab we carry out engineering tasks within different divisions and sections. There is a lot of power in having a distributed engineering system with clear missions and under the leadership of individuals who understand what they are accountable for. This distributed system, however, tends to diverge in the basic engineering practices and documentation that should be common across any organization. Some laboratories solve this problem by creating a central engineering organization that assigns individuals to the various projects and programs. We think this approach would create a host of new problems for us at Fermilab. Thus we want to keep the distributed system we have, but we want to make its practices more uniform and understandable. The manual describes these standard practices for Fermilab. A lot of effort has gone into making the manual simple and easy to read and understand. The manual will not only be useful in establishing best practices at Fermilab but also will serve as an introduction for engineers who join Fermilab for the first time and for individuals from partnering institutions that collaborate with us in building facilities.

In the News

Course to explore mysteries of physics

From *Argus Leader*, July 6, 2010

In Sioux Falls' newest high school science class, there won't always be a right answer.

Modern physics, offered as a pilot program next school year at Washington and Roosevelt, will focus on the unexplainable and theoretical. It will cover such concepts as quantum mechanics, dark matter, neutrinos and astrophysics.

Peggy Norris said the class is more about the process of discovery than it is about formulaic math. Students will come to understand there is structure in the universe but that models to explain that structure evolve with new evidence.

"It'll be less math problems with answers that everybody knows, and more

Wednesday, June 9

- Chipotle roasted salmon
- Pineapple cilantro rice
- Sautéed zucchini
- Coconut flan

Thursday, June 10

Closed

[Chez Leon Menu](#)

Call x3524 to make your reservation.



The uncommon and newly discovered blue cohosh, *Caulophyllum thalictoides*, will soon be bearing bright blue seeds.

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From symmetry breaking**World Cup Fever at CERN**

Normally, the data points from the CERN cafeteria are extremely repeatable over the course of a week. Monday through Friday the data points cluster briefly at the coffee machine at 9 am, and then around the pizza station at 12:30. They shift from the patio region to the indoor region around October, and reverse their movement in April. The start up of the Large Hadron Collider saw an increase in data volume, but otherwise the points spread themselves out evenly over the expanse of the cafeteria, day in and day out.

Anyone watching the data from the past few weeks, however, will notice a bump that appears just to the right of the cash registers, near a satellite TV projector, between 4 and 5:30 pm. The bump appears again between 8:30 and 10 pm. The data points tend to remain rigid for most of the 90 minutes, with momentary displays of excited behavior.

CERN has always been a hub of international collaboration; a place where people from many nations come together for a single goal. It is said that in the CERN cafeteria, a visitor can hear ten languages being spoken over the course of one meal. During the past few weeks, national pride has hit a high, with the World Cup football (soccer) competition in full swing. Save for the Olympics, it is the only sporting event where everyone at CERN has a home team to cheer for.

[Read more](#)

discussion about things that have answers that nobody knows," she said.

Norris helped create the class as deputy director of education and outreach at the Deep Underground Science and Engineering Laboratory in Lead.

[Read more](#)**Accelerator Update****June 30-July 2**

- Four stores provided ~38.75 hours of luminosity
- I-Source brought online
- Cause of TeV luminosity jumps found and fixed

[Read the Current Accelerator Update](#)[Read the Early Bird Report](#)[View the Tevatron Luminosity Charts](#)**Announcements****Latest Announcements**[The Art of Applying to Graduate School - today](#)[Argentine Tango - July 7-28](#)[Format change for new personnel requisition form](#)[Yoga begins today](#)[Muscle Toning begins today](#)[Deadline approaching for requests for Fall 2010 & Spring 2011 On-Site Housing](#)[Day Camp payments due](#)[All Supervisors: Do you need help preparing for performance reviews?](#)[Time to complete accomplishment reports](#)[10,000 Steps-a-Day walking program](#)[Introduction to LabVIEW course being held July 13](#)[Embedded Design with LabVIEW FPGA and CompactRIO seminar being offered July 13](#)[Interaction Management coaching forum - July 27](#)[SciTech summer camps started June 14](#)