

## Calendar

**Friday, Sept. 19**

**3:30 p.m.**

DIRECTOR'S COFFEE  
BREAK - 2nd Flr X-Over

**4 p.m.**

[Joint Experimental-Theoretical  
Physics Seminar](#) - One West

Speaker: M. Strang, State  
University of New York, Buffalo

Title: Observation of ZZ  
Production with DZero

**8 p.m.**

[Fermilab Film Society](#) -

Auditorium

Tickets: Adults \$5

Title: Taare Zameen Par  
(Stars on the Land)

**Saturday, Sept. 20**

**7 p.m.**

Fermilab Art Series -

Auditorium

Michel Lauziere

Tickets: \$17

**Monday, Sept. 22**

**2:30 p.m.**

[Particle Astrophysics Seminar](#)

- Curia II

Speaker: Craig Hogan,  
Fermilab

Title: Quantum Indeterminacy  
of Geometry

**3:30 p.m.**

DIRECTOR'S COFFEE  
BREAK - 2nd Flr X-Over

**4 p.m.**

All Experimenters' Meeting -  
Curia II

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

## Weather

 **Mostly Sunny 81°/56°**

[Extended Forecast](#)

[Weather at Fermilab](#)

## Current Security Status

## Feature

### Physicists to discuss dark matters at the Smithsonian

From: *symmetrybreaking*, Sept. 19, 2008



Scientists know a lot about the 4 percent of the universe that makes up visible matter such as planets and people.

But the other 96 percent remains a mystery.

What makes up that combination of undiscovered matter and cosmic energy, dubbed [dark matter](#) and [dark energy](#), poses one of the greatest questions in modern science.

And physicists have ideas about where to find the answer. Astrophysicist Rocky Kolb, of the University of Chicago, and Fermilab particle physics theorist Joe Lykken will explain at a lecture next week in Washington, D.C., how particle accelerators, satellites, telescopes and underground detectors are preparing to shine light on dark matter and dark energy.

Unraveling that mystery could open the door to a radical new understanding of our universe.

"Dark matter and dark energy are the two most important topics in all of science," said cosmologist Michael Turner, who will moderate the lecture. Last year at the Smithsonian, Turner moderated a sold-out, lively [debate about String Theory](#), one of the most controversial concepts in particle physics.

Turner, of the University of Chicago, is known for drawing speakers out of their comfort zones with provocative questions.

"He's a master at it," said Melody Curtis,

## From iSGTW

### People behind the LHC grid: Michel Vetterli



[Michel Vetterli hiking in the northern Vancouver mountains.](#) *Photo courtesy of Michel Vetterli.*

An outdoorsman when his dual responsibilities at Simon Fraser University and TRIUMF allow him the time to hike with his daughter, physicist Michel (Mike) Vetterli not only loves nature, he wants to understand it. He's always wanted to see how things work. He remembers being inspired by watching the Apollo 13 ground crew solve problems with the spacecraft remotely. In graduate school he became fascinated with the fundamental workings of computers. Now he's working to uncover nature's secrets with grid computing.

In addition to his professorship at SFU in Vancouver, Canada, Vetterli has been instrumental in setting up both WestGrid and the ATLAS-Canada Tier-1 Data Center at TRIUMF. He is currently computing coordinator for ATLAS-Canada, charged with ensuring that Canada has the necessary computing resources to analyze ATLAS data. He was recently elected chair of the Worldwide LHC Computing Grid Collaboration Board.

[Read more](#)

-- Anne Heavey, *iSGTW*

## [Second Level 3](#)

### [Wilson Hall Cafe](#)

#### **Friday, Sept. 19**

- Smart cuisine: chunky vegetable soup w/orzo
- Buffalo chicken wings
- Cajun breaded catfish
- Smart cuisine: teriyaki pork stir-fry
- Honey mustard ham & Swiss panini
- Assorted slice pizza
- Smart cuisine: carved turkey

#### [Wilson Hall Cafe Menu](#)

### [Chez Leon](#)

#### **Wednesday, Sept. 24 Lunch**

- Southwest cornish hens
- Chipotle sweet potatoes
- Orange carmel flan

#### **Thursday, Sept. 25 Dinner**

- Closed

#### [Chez Leon Menu](#)

Call x4598 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)

senior program coordinator for the Smithsonian Associates. "He brings out the best in people."

[The lecture](#) will be held at 7 p.m. on Wednesday, Sept. 24, at Smithsonian's National Museum of Natural History. General admission is \$20.

Scientists first found evidence of dark matter in 1935. They theorized that clumps of dark matter formed the backdrop to individual galaxies, holding them together as planets and stars formed.

About a decade ago, scientists discovered that an opposite force was pushing the universe apart, expanding its boundaries at an increasing rate. This could be caused by dark energy, Turner said.

"Dark matter and dark energy are the two dark titans that have controlled the evolution of the universe," he said.

Like dark energy, dark matter has eluded direct detection so far. Other than that, the two don't seem to have much in common.

"Dark matter is unevenly distributed out there in the universe," Lykken said. "There's hunks of it here, and there's hunks of it over there."

"Dark energy, on the other hand - if it exists at all - is evenly spread out through the whole universe. So there's just as much dark energy in this office as there is in a same-sized cube out in intergalactic space."

[Read more](#)

### [In the News](#)

#### **Tap into your inner scientist**

From *Chicago Sun-Times*, Sept. 17, 2008

Skeptical journalists see press conferences as presentations of "spin."

On Tuesday, Mayor Daley presided over one that truly met that description: a gathering where the public address system was fueled by a dozen bicyclists riding stationary bikes that generated electricity.

Museum of Science and Industry president David Mosena joked to reporters that if they asked any rude questions, he'd make the pedalers stop, cutting the juice to the p.a.

Daley and Mosena spoke -- loudly and clearly, as it turned out -- at Daley Plaza, announcing

## [Announcements](#)

### [Have a safe day!](#)

#### **Dark matter, dark energy talk in D.C.**

The Smithsonian in Washington D.C. will feature three prominent physicists in a discussion about dark matter and dark energy on Sept. 24. Fermilab theorist Joe Lykken and University of Chicago astrophysicists Rocky Kolb and Michael Turner will discuss upcoming research, including the use of accelerators, particle detectors and telescopes to unravel the mystery of what constitutes the 96 percent of universe that does not consist of known matter. [Click here to learn more](#)

#### **Fermilab Management Practices Seminar available**

The Professional Development Office has scheduled the Fermilab Management Practices seminar, (FMP), beginning in October. FMP, which is required for all new managers and supervisors, consists of the following courses: Managing Within the Law, Behavioral Interviewing, Interaction Management, Performance Review, Fermilab Functions. Please [click here](#) for more information.

#### **Flu shot clinics for 2008 season**

Use the east entrance of each building for the following clinics: Oct. 2 from 9 a.m. to 1 p.m. in Wilson Hall, ES&H training room; Oct. 14 from 9 to 11:30 a.m. in the Industrial Center Building's main floor lunch room; Oct. 21 from 9 to 11:30 a.m. Wilson Hall, ES&H training room. Active full-time employees, term employees and temporary employees are eligible for the vaccinations. Not eligible are: contractors, family members of employees, visitors/experimenters, seasonal employees, dayworkers, on-call employees and retirees. Register online at the [ES&H homepage](#) or call ext. 3232. Bring your Fermilab ID card and a completed consent form from the ES&H homepage. Wear a loose-fitting shirt. Pregnant employees need a note from a doctor.

#### **Microsoft Word, Excel classes**

The Office for Professional and Organization Development will offer classes in Microsoft Word and Excel in early October. "Word 2003 Advanced" will take place on Oct. 7. [Learn more and enroll](#). "Excel Advanced" will take place on Oct. 8. [Learn more and enroll](#).

#### **Sept. 15-21 is National Pollution Prevention Week**

Pollution prevention, or P2, means not

"Science Chicago," a nearly yearlong, regionwide effort with hundreds of events designed to make science cool for kids and adults, including a Labfest! festival at the museum on Saturday.

Running through August of 2009, Science Chicago programs will range from demonstrations of robotic surgery at the University of Illinois-Chicago, to mushroom hunts at the Chicago Botanic Gardens, to exploring the composition of paint using artworks at the Art Institute.

[Read more](#)

creating pollution in the first place. P2 focuses on reducing waste at its source, reusing what can't be reduced and recycling what otherwise would be thrown away. The keys to P2 are the three R's - Reduce, Reuse and Recycle.

**Michel Lauziere performs at Fermilab this Saturday, Sept. 20, at 7 p.m.**

Michel Lauziere - self-titled "Master of Unusual Comedy" and featured on the "Late Night with David Letterman" show - will bring his magic to Fermilab this Saturday, Sept. 20. Please note: The [family-friendly show](#) starts at 7 p.m., an hour earlier than the usual Arts Series time. For tickets call (630) 840-2787. Tickets cost \$17 for adults/\$9 for guests 18 and under. Special promotion: Bring a new patron to this show and receive a half-off voucher for upcoming Arts Series events.

[Additional Activities](#)