

## Calendar

Wednesday, June 22

11:00 a.m. Fermilab ILC R&D Meeting - 1

West

Speaker: J. Jackson, Fermilab

Title: Fast-Breaking News on ILC

Communication

3:30 p.m. Director's Coffee Break - 2nd

Fir X-Over

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

Speaker: E. Scott, National Center for

Science Education

Title: Creationism, Evolution, and Science

Education

Thursday, June 23

2:30 p.m. Theoretical Physics Seminar -

Curia II

Speaker: A. Weiler, Technische

Universitat, Munich

Title: Impact of Extra-Dimensional

Physics on Rare Kaon Decays

3:30 p.m. Director's Coffee Break - 2nd

Fir X-Over

THERE WILL BE NO ACCELERATOR

PHYSICS AND TECHNOLOGY

SEMINAR TODAY

## Weather



Partly Cloudy 85°/62°

[Extended Forecast](#)

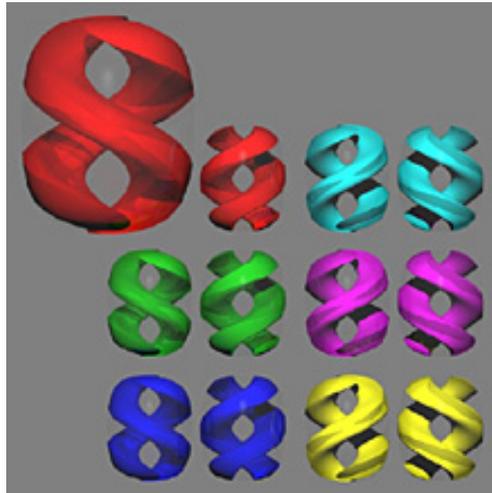
[Weather at Fermilab](#)

## Current Security Status

[Secou Level 3](#)

## Wilson Hall Cafe

## Quantum World on Display in Fermilab's Art Gallery



With the help of the Standard Model and Fermilab physicists, Andersen devised a system for visually representing subatomic particles, like these charm quarks. (Click on image for larger version.)

Despite the many major break-throughs in particle physics during the last century, one question remains unanswered: what does the quantum world look like? While we may never know for sure, University of Michigan artist and industrial designer Jan-Henrik Andersen has created 25 works of art visually representing subatomic particles and their interactions. His show, *Sized Matter: Perception of the Extreme Unseen*, is currently hanging in the Fermilab Art Gallery and will be on display until August 26.

According to Andersen's [creative statement](#), he has "contextualize[d] the particles in a syntax where properties like velocity, color, mass and spin [are] represented as visual elements within an order." After determining the [basic representation](#) of each subatomic particle by studying the Standard Model and

## DASTOW '05 Will Combine The Best of Old and New



The Cryo Show is definitely a blast — as those in the audience cover their ears in response. (Click on image for larger version.)

The signature activities of Fermilab's Daughters and Sons to Work Day - the Cryo Show, Fire Department presentation and buffalo pasture visit - have maintained their appeal over the years, and they will flash their charm again on Thursday, June 23 for DASTOW '05.

"My son is only five years old, but he's been here twice," said Rob Riley of Technical Division's Material Control Department. "It's his favorite day. He looks forward to it all year. He enjoys the exposure to all the different things — the Cryo Show, the Fire Department, the buffalo, and the chance to be at work here with me. He doesn't understand what goes on at the lab yet, but he's interested in science. He calls Wilson Hall the 'sky rise.' I tell him

it's actually 'high rise,' and he says he knows, but 'sky rise' sounds better."

DASTOW '05 starts off Thursday at 8:30

Wednesday, June 22

Vegetable Beef Soup

Quarter Pound Hot Dog in a Soft Pretzel Roll \$4.85

Turkey A La King over Biscuit \$3.75

Country Fried Steak with Pepper Gravy \$3.75

Beef & Cheddar Panini w/Sautéed Onions \$4.85

Assorted Personal Sized Pizzas \$3.50

Cavatappi Pasta with Italian Sausage & Tomato Ragu \$4.85

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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collaborating with University of Michigan and Fermilab physicists, Andersen created images of particle collisions that occur in the Tevatron, such as a [top quark event](#).

"I think there's a strong connection between art and science, and I try to enhance it by getting shows like this here," Fermilab Art Gallery curator Georgia Schwender explained. While a science background may help audience members more fully grasp the logic behind Andersen's pieces, Schwender believes that the general public will enjoy the show as well. She is hosting a reception and colloquium with Andersen at 4 pm on June 29 in 1 West, which will be open to the community. The gallery will also be open to the public during that time, fulfilling Andersen's hope that "a visual perception of subatomic particles and their interaction[s] may open this fantastic and beautiful world... to a broader audience."

-- Elizabeth Wade

### 2005 URA Scholarship Recipients Announced



Thirteen children of Fermilab employees received scholarships from URA in 2005.

a.m. on the front steps of the "sky rise" for the annual group portrait.

After the 8:45 a.m. assembly in Ramsey Auditorium to go

over the schedule, [Rob Riley of TD-Material Handling says his 5-year old son looks forward to in earnest. The DASTOW all year.](#)

Cryo Show with

Jerry Zimmerman is on stage at 9 a.m. At 10 a.m., the bus will load in front of Wilson Hall for the ride to the Fire Department, and then on to the buffalo pasture at 11 a.m. Then it's back to Wilson Hall for a hot dog lunch (no signups required).

Meanwhile, a parallel program will be underway in One West, designed for youngsters around middle school age. At 9 a.m., Don Lincoln of DZero illustrates physics principles of Forces and Motion. At 10 a.m., Debbie Harris of Particle Physics Division's new Neutrino Department discusses Physics in the Real World. At 11 a.m., Linda Valerio of Accelerator Division's Mechanical Support Department hosts a presentation on the Physics of Sports.

And there's another new activity on tap: at 9 a.m., 10 a.m. or 11 a.m., you can meet guides at the Covered Wagon outside the Lederman Science Education Center for Pioneer Adventures on the Fermilab Prairie Trail. The new activities combined with the traditional events should make DASTOW '05 a day to remember.

-- Mike Perricone



#### Correction

Thirteen high school seniors, all children of Fermilab employees, were awarded URA scholarships earlier this month for their exceptional SAT scores. Selected from a pool of 31 applicants, the winners will each receive \$4,100 annually their first four years of college.

"It's always been the mission of the lab and of URA to advance education," said URA Vice President Ezra Heitowit. "We hope that these stipends will lessen the financial burden of higher education for our employees and encourage their children to succeed."

The children of all fulltime Fermilab employees are eligible to apply for the scholarship, no matter what they study in college. This year's recipients plan to study a broad range of subjects including film directing, political science, mathematics and electrical engineering.

"We're very happy that this opportunity is available to our employees, and we hope it will help their children advance their education in their chosen career field," said Jeannelle Smith of Fermilab's Employee Relations Department.

In any given academic year some 40 students are receiving URA scholarships totaling more than \$160,000.

"We are proud to offer Fermilab employees some of the same benefits and opportunities they could receive if they worked on university campuses," said Heitowit. "It's important to us to help offset rapidly rising tuition costs."

-- *Kelen Tuttle*

[2005 URA Scholarship Recipients](#)

Our apologies regarding yesterday's photo mistake. The picture originally sent out was of Dr. Morrison's predecessor, Dr. Lang. This is the correct photograph of Dr. Morrison.



Dr. David  
Richard Morrison

### Correction

An announcement in Monday's issue of Fermilab Today incorrectly stated the start time for the reception following the Witherell Symposium. The symposium will be held in Ramsey Auditorium on Thursday, July 14 at 1:00 p.m. A reception will follow in the Wilson Hall atrium at 5:00 p.m.

### Announcements

**International Folk Dancing**  
International Folk Dancing will meet Thursday, June 23, in Ramsey Auditorium in Wilson Hall, the air-conditioned summer location. Dancing begins at 7:30 p.m. with teaching earlier in the evening and request dancing later on. Newcomers are welcome and you do not need to come with a partner. Info at 630-840-8194 or [email here](#).

**NALWO: Chicago Sightseeing Boat Tour**  
On Thursday, June 23, see Chicago's fascinating architecture and historic landmarks by cruising down the Chicago River, and then out onto Lake Michigan to see the world-famous skyline. A bus will be leaving from the Fermilab Education Center at 9:30 AM, and we will be back by 4:00 PM. Tour costs are \$12 for adults, \$5 for kids age 11 - 3, and children under 3 are free. For further information and to register contact: [Selitha Raja](#) at (630) 305-

[Website](#)

7769, or [Rose Moore](#) at (630) 208-9309.

### In the News

From ***Federal Computer Week***, June 20, 2005

FAQS: Grid computing

By John Moore

Are grids coming to a data center near you?

Grid computing is a way to share computing resources within and among organizations. The concept first emerged in the mid-1990s as academic researchers began exploring the rudiments of grid infrastructures. Around 2000, grids moved beyond the basic research stage as organizations began building grids to support scientific and technical computing applications.

[Read more](#)

[Upcoming Activities](#)