

Calendar

[Have a safe day!](#)

Monday, July 13

9 a.m. - 6 p.m.

[International Neutrino Summer School](#)

PARTICLE ASTROPHYSICS SEMINARS WILL RESUME IN THE FALL

3:30 p.m.

DIRECTOR'S COFFEE BREAK - 2nd Flr X-Over
THERE WILL BE NO ALL EXPERIMENTERS' MEETING THIS WEEK

Tuesday, July 14

9 a.m. - 6 p.m.

[International Neutrino Summer School](#)

Noon

[Summer Lecture Series](#) - Curia

II

Speaker: Sekazi Mtingwa, Massachusetts Institute of Technology

Title: Theory and Physics at the LHC

3:30 p.m.

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

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

Campaigns

[Take Five](#)

[Tune IT Up](#)

Weather

Feature

Students harness solar power at Science Adventures camp



Lucas Antonio Del Rio Malewski, 10, uses a solar oven to make a chocolate chip cookie and a biscuit during a Science Adventures class at the Lederman Science Center in June.

The crafts that students do at most summer camps are of the Popsicle-stick and glitter variety. But students at a recent week-long Science Adventures camp took crafting to the next level with the creation of solar homes, blimps and ovens.

A group of eight students, from ages 8-11, learned how to use solar energy to power small devices that they created at the Science Adventures "Energize Your World!" camp, held at the Lederman Science Center June 22 -26.

The purpose of the class was to teach children how to use solar energy in everyday life. Students made and wired solar houses with working fans and lights and were able to use solar energy to power small blimps. The blimp's black material absorbs sunlight, and the captured energy heats the air inside, causing the blimp to expand and float.



Students made solar ovens out of reflective materials that forced the light to bounce onto the food inside. A plastic covering over the food focused the light and an insulating material placed inside helped to contain the heat that cooked the food. Students used this process to make a

ES&H Tips of the Week - Health

Top off your fluid level to beat the heat



[Stay hydrated to beat the heat and humidity.](#)

It's summer in Chicago and that means heat and humidity are high, which can pose challenges for exercising.

If you are unaccustomed to exercise in these conditions, give yourself a chance to acclimatize by building up your workout routine. It generally takes about two weeks for the body to fully adapt to warm weather.

The body typically cools itself by increasing surface blood flow, or relying mainly on evaporation on a windless day. Add humidity, and our body's air-conditioning system is severely taxed. Staying hydrated can help. Electrolyte replacement is critical for ultra-endurance events, but for most exercise, the body can catch up on losses from perspiration through a normal diet.

With heavy exertion, an individual may lose up to three pounds of fluid per hour. During exercise, fluid replacement is required at the rate of five to seven ounces of fluid every 10 to 15 minutes. Plain water will work for most activities. For those whose exercise interrupts meals, sports drinks supplement calories while hydrating. Sports drinks containing 4 to 8 percent glucose sugar are easily absorbed. Be careful about drinks with higher glucose, since those concentrations tend to slow stomach emptying time, which can possibly lead to cramping. Excessive fructose sugar levels can produce diarrhea.


 Partly sunny
81°/61°

[Extended Forecast](#)
[Weather at Fermilab](#)
[Current Security Status](#)
[Secon Level 3](#)
[Wilson Hall Cafe](#)

 Monday, July 13
 - unavailable

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

 Wednesday, July 15
 Lunch
 - Maple bourbon glazed salmon
 - Roasted potatoes
 - Baby carrots w/dill
 - Caramel apple shortcake

 Thursday, July 16
 Dinner
 - Melon & prosciutto
 - Herbes de Provence—
 crusted lamb chops
 - Grilled new potatoes w/mint
 - Steamed green beans
 - Blueberry-blackberry
 shortcakes

[Chez Leon Menu](#)

 Call x3524 to make your
 reservation.

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[Result of the Week](#)
[Safety Tip of the Week](#)
[User University Profiles](#)
[ILC NewsLine](#)
[Info](#)

[Nathan Rosenmann, 10](#), chocolate chip cookie and a biscuit. demonstrates the solar house he made at the [Science Adventures class at the Lederman Science Center](#). Science Adventures camps continue through August 4.

 Check the [Education Web site](#) for more information.

 -- *Jeremy Johnson*

Office of Science financial assistance funding opportunity announcement

The Department of Energy Office of Science recently issued a request for grant applications for the Early Career Research Program. The purpose of the program is to support the development of individual research programs of outstanding scientists early in their careers and to stimulate research careers in the areas supported by the Office of Science.

To be eligible for one of the Early Career Research Program awards, a Principal Investigator (PI) must be an untenured Assistant Professor on the tenure track at a U. S. academic institution as of the date of application. No more than ten years can have passed between the year the PI received his or her Ph.D. and the year of the deadline for application (doctorates received no earlier than 1999).

[Read more](#)

Bridging the science gap

 From *MSNBC Cosmiclog*, July 9, 2009

Whatever happened to the war on science? During the Bush administration, many scientists felt as if they were on the outs when it came to issues ranging from global climate change to stem cell research and even evolutionary biology. President Barack Obama came into office pledging to "restore our commitment to science" - and some of the scientists who were once on the outs suddenly found themselves in the inner circle.

Today, Obama is leading the charge on climate policy and stem cells, and he's got a Nobel-winning physicist pushing for energy alternatives. Sounds like the war is over, right?

What you do prior to exertion in the heat also has a big impact on your heat tolerance. Alcohol can increase urine output, causing dehydration. It also can encourage blood flow to the skin's surface, alter the body's temperature set point and potentially augment heat stress further by diminishing the body's salt content, which affects water retention. Try to avoid alcohol for 24 hours prior to competition or exercise. If you do decide to imbibe alcohol post-exercise, rehydrate first and take the alcohol with a meal.

We're stuck with what weather we're dealt. How we weather the weather is largely left up to us.

 -- *Brian Svazas, M.D.*
[Safety Tip of the Week Archive](#)

Shutdown Update

June 29 - July 10

- H- Source dome cleaning in progress
- Correction element upgrade 80 percent complete
- Accumulator kicker upgrade 50 percent complete
- Pelletron maintenance 20 percent complete
- Tevatron has six houses to fix
- NuMI completed investigation of horn cooling leak
- Alignment has completed 456 survey
- Safety has had no shutdown related injury for this time period

[Read the Current Accelerator Update](#)
[Read the Early Bird Report](#)
[View the Tevatron Luminosity Charts](#)

Announcements

Latest Announcements

[On-site housing-fall 2009/spring 2010](#)
[Scrapbooking Open House today](#)
[Toastmaster Meetings scheduled July 23](#)
[Change to Users' Office hours](#)
[Reminder: changes to FTL system](#)
[Time to complete accomplishment reports](#)

[Fermilab Today](#) is online at:
www.fnal.gov/today/

Send comments and suggestions to:
today@fnal.gov

Visit the Fermilab [home page](#)

The war is not over," says Chris Mooney, author of "The Republican War on Science" and co-author of a new book titled "Unscientific America." The gap between scientists and society at large may have shrunk, but there's still a disconnect that transcends political parties. That comes through loud and clear in "Unscientific America" as well as a [new 98-page study](#) analyzing how scientists and the wider American public view each other.

[Read more](#)

In the News

Ely, Minnesota: Wolves and bears and root beer and neutrinos; oh my!

From [Articledashboard.com](#), July 9, 2009

Ely, Minnesota acts as the doorway into the Boundary Waters Canoe Area, which extends over the Canada-USA borders. A museum in Ely celebrates the life of one remarkable woman, Dorothy Molter, a.k.a. The Root Beer Lady. For over fifty years she lived on the Isle of Pines Resort on Knife Lake. A registered Nurse she tended to the physical and mental needs of the canoeists who visited her. She provided food, lodging, and her famous root beer, bottling over 11,000 bottles per year. For many years canoeists would come to see her while they paddled the lakes of Northern Minnesota.

[Read more](#)

[Bristol Renaissance Faire discount tickets](#)

[Six Flags Great America discount tickets](#)

[Pool memberships available in the Recreation Department](#)

[Raging Waves Waterpark online discount ticket program](#)

[Adult Swim Lessons and Water Aerobics offered at Fermi Pool - July 13](#)

[MathWorks free seminar - July 15](#)

[English Country dancing - July 19](#)

[Argentine Tango classes through July 22](#)

[Intermediate/Advanced Python Programming July 22-24](#)

[Outlook 2007: New Features class August 6](#)

[The University of Chicago Tuition Remission Program August 17 deadline](#)

[Process piping \(ASME B31.3\) class offered in October](#)

[Interaction Management and Performance Review courses scheduled for summer 2009](#)

[Additional Activities](#)

[Submit an announcement](#)