



Coping with Drought's a Job for Facilities Management

By Kevin A. Brown

Drought is affecting all of the Midwest and Fermilab isn't immune to it. According to Chuck Anderson, Head of Facilities Management, "The primary problem with all of the dry heat is that we don't collect enough water to replace water lost to evaporation and seepage."

In spite of recent rainfall, the water level in Casey's Pond - the pond that is the most critical to the operation of Fermilab - has been falling because of evaporation. "We're coping reasonably well at this time, but we're alert to the water situation," reports Anderson.

Most of Fermilab's cooling water is supplied by rainfall, runoff, and ground water, but the drought has nearly eliminated these sources of water. Says Anderson: "Although we do have some leeway in coping with the water crisis, Fermilab has undertaken some very effective water conservation measures, including converting open ditches to enclosed pipelines, enlarging a reservoir pond and re-directing water loss, and pumping water from the inner-Ring lake and Lake Law, to Casey's Pond."

Another source of water is the Fox River, but "We are limited by an agreement with the State of Illinois on how much water Fermilab can draw from the Fox River," said Anderson. A gauge in Algonquin measuring water flow of the Fox River indicates when water is flowing at a rate that allows Fermilab's use of this resource.

Maintaining the Laboratory's equipment, including emergency and maintenance vehicles, air-conditioning, and the Accelerator, is a major concern during the dry, hot weather. "People are putting in a lot of time to keep the systems functioning," said Anderson. He emphasizes that keeping the Accelerator cool is particularly important, but because the Lab is currently running the colliding-beams program, as opposed to the fixed-target program, beamline cooling is not as critical.

Surprisingly, there are a few benefits to the dry weather. For example, mosquito counts are considerably lower this year than last, eliminating the need for

mosquito control. Rudy Dorner, Fermilab Emergency Services Coordinator, says that last year at this time over 700 mosquitos could be found in a trap, but this year, the number is close to zero. Another benefit is that the road re-surfacing project was completed on schedule because of the lack of rain delays.

Dorner's primary ecological concern is for the trees, especially the ones that were transplanted 8 or 9 years ago. Throughout the site, weak trees are dying, and even the established trees are showing signs of stress. According to Bob Hall, Head of Roads and Grounds, Dawn Cooper is watering the trees to help them survive the crisis. Furthermore, Hall said that the bison are facing a hay shortage. Contributing to the problem is an insufficient amount of grass in the bison pasture. Hall said that Don Hanson is purchasing hay to ensure an ample food supply.

The Facilities Management groups managing the water crisis include Facility Operations, Roads and Grounds, and other associated Facilities Management people. (See pg. 2 for a related item on heat stroke)

Computer Hardware Group Moving

The Prep Pool, Instrument Repair, and Computer Repair are moving to the Central Computer Facility. From Tuesday, July 19, through Wednesday, July 27, the above operating groups will be shut down to facilitate this move. Instrument exchanges or repairs and computer field calls will be handled on an *emergency basis only* for accelerator operations and running experiments.

The new addresses for the Prep Pool and Instrument Repair will be: Central Computer Facility, 3rd Floor - West, Roads B & D, MS 369. Phone extensions: Prep Pool, ext. 3447; Issue Desk, ext. 4332; Office, ext. 3568; Instrument Repair, ext. 2688; Office, ext. 4697

The new address for Computer Repair will be: Central Computer Facility, 3rd floor - East, Roads B & D, MS 368. Phone extensions: Computer Repair, ext. 4373; Office, ext. 4189; PC Carry-in, ext. 3180.

Jazz Showcase Swings at Ramsey Auditorium



Marshall Vente/Project Nine with Anna Dawson

Some like it hot and some like it cool, but whatever temperature you prefer your jazz, Fermilab's annual Jazz Showcase is ready to meet your expectations. This year the Chicago-based Marshall Vente/Project Nine Plus with Anna Dawson meets the California quartet Free Flight on August 20, 1988, at 8:00 p.m. in Fermilab's Ramsey Auditorium.

"A hybrid of big-band power and combo liteness," pianist-composer-arranger Marshall Vente leads his 12-piece ensemble through fresh, creative renditions of standard, non-standard, and original tunes. Since its beginning nine years ago, Project Nine Plus has gained national recognition and accolades. Even the Chicago Bears band has commissioned works from Marshall Vente! Adding to the allure of this dynamic ensemble is vocalist Anna

Dawson, "a swinging singer whose enthusiasm is infectious."

"Audiences of all ages have been responding with unbounded enthusiasm for the past six years to the surprising blend of musicianship, warm personalities, and compositional freshness" of Free Flight. The members of this fusion ensemble, Jim Walker, Mike Garson, Jim Lacefield, and Ralph Humphrey, draw on such varied backgrounds as principal flutist for the Los Angeles Philharmonic, music director for David Bowie, and performances with Dizzy Gillespie, Frank Zappa, and Al Jarreau to create their special brand of jazz. Many fans have enjoyed their performances at jazz festivals around the country, in appearances with symphony orchestras, and on the "Johnny Carson Show" and public television specials.

Fermilab's Jazz Showcase offers a swinging finale to your summer fun. Admission is \$10. Reserve your tickets by phoning ext. ARTS weekdays between 10:00 a.m. and 12:00 noon, or 1:00 p.m. and 4:00 p.m. Phone reservations are held for five days, but due to ticket demand, those not paid for within five working days will be released for sale.

Coming Attractions:

Chamber Music - Sunday, September 25, 1988
Chicago Pro Musica assisted by Carl Grapentine

Jazz Dance - Saturday, October 15, 1988
WAVES Jazz Dance Ensemble

Heat Stroke is No Joke

The recent hot, dry weather can be a tremendous health risk, and according to Dr. Jan Andrews of the Fermilab Medical Office, the two greatest dangers from the heat are heat exhaustion and heat stroke.

Dr. Andrews said that there haven't been any cases of heat exhaustion or heat stroke at Fermilab, but she stresses that it's important to know the signs and symptoms of these heat-related illnesses and the proper treatment of them.

Heat exhaustion and heat stroke are not different names for the same illness. A less severe illness, heat exhaustion can occur as a result of prolonged heavy activity with inadequate salt intake in a hot environment. It can also occur when someone that isn't used to heat is exposed to very hot temperatures. Essen-

tially, noted Dr. Andrews, "heat exhaustion is caused by excessive sweating which results in excessive fluid and salt loss."

A person with heat exhaustion may feel sick, dizzy, and faint. Other signs of heat exhaustion include pale, clammy skin; rapid pulse and breathing; headache; and muscle cramps.

To treat a heat exhaustion victim, transfer the person to a cool environment, preferably indoors, lay the person down, and loosen any tight clothing. If possible, prepare a saline solution by mixing 1 teaspoon of salt with 1 quart of water and administer it to the victim. Dr. Andrews says that the best way to prevent heat exhaustion is to drink plenty of fluids if you're going to be working in the heat.

Continued on page 3



Wellness Works' News

Walking Club Totals 390.45 Miles

Thirteen members of the Walking Club hiked a total of 390.45 miles in June (6/15/88-6/30/88), an average of approximately 30 miles per person or 1.15 miles per day.

In the Starter Program, Betty Fay logged in the highest mileage, 53 miles. Joe Savingnano had the highest mileage of 56.2 in the Intermediate Program, and in the Advanced Program, Pat LaVallie had the highest honors at 41.5 miles. One member lost nine pounds by walking 56.2 miles. Everyone keep those feet-a-walkin! Members who did not turn in their June record sheets can send them to Dotti at MS 113.

- Paula Cashin

Credit Checks

Getting ready to leave on your long-awaited summer vacation? The Credit Union reminds members to leave home with their ACU VISA card. Carrying a credit card is much safer than carrying cash. And the ACU VISA card offers many money saving features like no annual fee, 25-day grace period, a 16% interest rate, and up to \$250,000 free travel insurance (if the tickets were bought with the ACU VISA card).

If you don't currently have an ACU VISA card, it is easy to obtain one. Call or visit the Credit Union office and get an application. This application takes just a few minutes to fill out. Within weeks you'll begin enjoying all the benefits of carrying the ACU VISA card.

If the new car bug should bite you this summer, the Credit Union urges members to come in for a pre-approved new-car loan. A pre-approved auto loan enables members to negotiate a great deal since they'll be dealing with cash!

The ACU offers very competitive new-car interest rates with 100% financing and terms up to 60 months available to qualified members. And, as long as supplies last, those members who get a pre-approved new car loan will receive a free: "I'M A BIG WHEEL AT MY CREDIT UNION" auto sun shade. For more information, contact the Credit Union Loan Department at ext. 3293.

Price paid in West Virginia last April for a case of Billy Beer: \$2000 - *Harper's Index*

"Heat Stroke" continued from page 2

Heat exhaustion isn't life-threatening, but "without immediate treatment," warns Dr. Andrews, "the real risk with heat exhaustion is that heat stroke may follow."

Heat stroke is a life-threatening medical emergency. It usually occurs because of prolonged exposure to very hot conditions. As a result, the mechanism in the brain that regulates body temperature stops functioning and the temperature rises to 104° F or higher. A person suffering from heat stroke can't sweat to cool down the body.

The symptoms of heat stroke include very hot, dry skin; a strong, rapid pulse; and confusion and unconsciousness as the condition worsens.

Dr. Andrews outlines the following steps for heat stroke treatment:

1. Move the victim to a cool place.
2. Sponge the victim with cool water.
3. Fan victim with an electric fan or by hand.
4. Monitor the victim's body temperature - if it starts to rise, repeat cooling process.

And as soon as possible, call an ambulance. Prompt medical attention is critical.

- Kevin A. Brown

In the Library

The Fermilab Library's list of new books received is now available online through the FNAL VAX Cluster. This list is updated every 2-4 weeks.

\$ SETUP NEWBOOKS

\$ TYPE/PAGE NEWBOOKS

For DECnet access and more information:

\$ HELP NEWBOOKS

The Library would like your input on book selections. Please stop by and peruse promotional flyers, book reviews, and order forms for publications covering a range of scientific/technical subjects. If you are interested in acting as a resource person in a particular subject area for library collection development, please contact Paula Garrett in the Library at ext. 3401 or FNAL Username: PGARRETT.

- Paula Garrett

Total cost of eradicating smallpox, worldwide:
\$300,000,000

Projected total cost of the Love Canal cleanup:
\$250,000,000

Portion of the defense budget it would take to lift every American family over the poverty line for one year: 1/9 - *Harper's Index*

Congratulations to:

Mary (*Day Care Center*) and Tony (*TS/Machine Shop*) Simmons on the birth of Erik Lee Simmons on June 5, 1988, at 5:25 a.m. Erik weighed 7 lbs, 13 ozs, and was 20 in. long. Erik has two big brothers, Christopher and Timothy.

Trudy's News from NALREC

Hey! Hey! Hey! Something new!! **Splash Party and Steak Fry**, tonight, July 15, 1988. This is a whole new idea to try and interest you folks in fun with your co-workers. We want a huge attendance, so come one, come all. We have steaks with all the trimmings on the menu and the band "Dealn'" will be here, as well as the DJ, Jody Hawk, from Chi-Town. Price is just \$3.50 per person. The drink of the day will be the Dreamsicle, and that drink will be served with wine and beer only. This is an **adults only** party. Time - 5:30 p.m. to 10:30 p.m.

We would also like to hear from all you folks regarding the annual **Family Picnic**. We need volunteers to help with the work, and we really would appreciate any ideas for fun you might have. Please call Trudy at ext. 3228 or Linda at ext. 4847 if you can help or if you have suggestions.

Bye for now, and have a nice day!

- Trudy Kramer

Chances that an American adult will report having had a "great" night last night: **1 in 7**

FermiNews Publication Schedule

<u>ISSUE DATE</u>	<u>DEADLINE</u>
July 29	July 21
August 12	August 4
August 26	August 18
September 9	September 1
September 23	September 15
October 7	September 29
October 21	October 13
November 4	October 27
November 18	November 10
December 2	November 23
December 16	December 8

Price of a box of Cheerios in Japan: **\$7.20**

Estimated number of base-sliding injuries that occur in softball games each year: **1,700,000**

FermiNews Cla\$\$ified Ad\$

FOR SALE

Motorized Vehicles:

1978 DODGE DIPLOMAT, white, 2-door, V-8, runs great, \$650 Call (815)756-5613

1974 ARCHOS MOTORHOME, Class "A," 26 ft, Dodge 440 engine, 4-kW generator, three new batteries, asking \$5500 or best offer. Call R. Pucci, ext. 4972.

Miscellaneous:

BATTING CAGE, 10ft x 10in. x 70ft, net and frame, \$250. Dwight, ext. 2233 or (815)436-9834 after 5 p.m.

AMTROL BOILER MATE - very efficient hot-water storage tank. Asking price \$300 or negotiable. Call Rich, ext. 3868 or 690-1691.

MEMBERSHIP IN FLYING CLUB, ideal way to learn to fly, or if you have license, economical way to go. Call Chuck, ext. 3773 or 406-1630 after 6 p.m.

CANVAS TENT, 9' x 12', \$35. Coleman 2-burner camping stove, \$7.50. Preway 2-burner camping stove, \$4. Reomatic riding mower, 36 in. cut, \$150. Call Ray, ext. 3233 or 2258

MOVING SALE. Dining table, sofa, mattress, card table, and other furniture. Call Hiroshi, ext. 3748 or 406-9302 after 6 p.m.

COMMODORE VIC 1525 dot matrix printer plus ribbons, \$35. Call Graciela, ext. 4645.

MOVING TO HAWAII SALE. Component stereo system, \$400. SC110 electronic typewriter, desk and desk chair, 16" BW TV. Call (815)756-5613.

NIKONOS IV UNDERWATER CAMERA w/ f 2.5 lens. Great for scuba, snorkeling, rafting, or rainy days. \$200 or best offer. Call Jerry at ext. 4191.

WHIRLPOOL AIR CONDITIONER, 6000 btu, Model ACP602XS, used June & July of '87. Incl. manufacturer's warranty and extended service contract thru 6/19/90. \$355 new, asking \$250. SINGER PORTABLE SEWING MACHINE, Stylist Zig-Zag Model 457, \$65. AIR KING WINDOW FAN, 24-in., \$25. Call Merle at ext. 3958 or 964-0185 evenings and weekends.

FOR RENT

SUBLEASE nice two-bedrm townhouse, Marywood area, available immediately, \$450/mnth. Call Jeanette, ext. 3721 or 879-8042 evenings.

FermiNews is published by the Fermilab Publications Office, P.O. Box 500, Batavia, IL, 60510 (312) 840-3278 BITnet: TECHPUBS@FNAL, DECnet: FNAL::TECHPUBS

Editor: R. Fenner Editorial Assist.: C. Kania
Fermilab is operated by Universities Research Association, Inc., under contract with the United States Department of Energy.