

Ferminews

FERMI NATIONAL ACCELERATOR LABORATORY

DPF meeting draws capacity crowd

More than 1000 physicists gathered at Fermilab for the 7th Meeting of the American Physical Society's Division of Particles and Fields. According to Co-chairpersons **Rajendran Raja** and **John Yoh**, the five-day conference is a forum for international physicists to share results from high-energy physics research.

This conference outdrew its previous versions by almost a factor of two in attendance and by more than a factor of two in contributed papers. This far exceeded the expectations of the organizing committee. Despite the record crowds, the level of organization was such that the Lab was able to cope with all contingencies and things flowed smoothly from start to finish.

The main topic of interest was the search for the top quark. In the opening sessions, the latest results from CDF, Dzero, HERA and LEP were presented as well as talks on astrophysics, accelerators and detector development. Late Tuesday morning conference attendees flocked to Ramsey Auditorium to hear a presentation by Nobel Prize Laureate Sam Ting, a talk which was rumored to perhaps contain some startling results. Ting met with an enthusiastic response when he concluded his presentation by stating that "Fermilab will discover the top" and asked for continued support for the Tevatron.

On the evening of November 10, conference organizers presented a panel discussion and town meeting designed to address the challenges and issues facing high-energy physics as it looks to the future. For the meeting William Happer, Director of the Office of Energy Research at the Department of Energy, joined laboratory directors **John Peoples**, **Burton Richter** (SLAC), **Roy Schwitters** (SSCL) and director designate **Bjorn Wiik** (DESY) and physicists **Mel Shochett** and **Michael Witherell** to discuss the future of international collaboration in building the next generation of accelerators, the evolution of large collaborations and the current economic climate. The meeting was moderated by DPF chairperson **Gary Feldman**.

The panelist agreed that international collaboration will have to be the wave of the future. "I don't think any nation can go it alone, cowboy style," said

John Peoples.

In light of the current budget problems being experienced by Fermilab and other laboratories, William Happer did not see a quick fix. "Cuts are being made across the board, not just in Energy Research. We are all going to have to work harder to sell basic research, unless it has an obvious connection to profit," Happer said.

Reacting to Happer's comments on funding, Roy Schwitters stressed the importance of communication. "We have to get involved, tell people what we do." He also said we must continue to "do really good and exciting science so we are not accused of being a WPA project for physicists."

Following the plenary sessions and the town meeting, there were three days of parallel sessions held at the Pheasant Run Resort Center. "The meetings are intended to give up-and-coming physicist an opportunity to present their results, consequently there are a large number of parallel sessions," said **Rajendra Raja**. "We had to run eight sessions a day plus one on the opening day to satisfy the abstract demands," said Raja. More than 600 abstract were submitted to the conference by physicists from 20 countries according to John Yoh. There were 475 parallel session talks in all.

The final day of the meeting was a plenary session at Fermilab that contained talks summarizing the parallel sessions on QCD, electroweak physics, charm, bottom and tau physics as well as theoretical physics. The conference was summed up by Director Emeritus **Leon Lederman**. Leon stressed the importance of elevating the general public's perception of science and scientists. "Pessimism is running rampant in Washington," said Leon. His answer to this problem is to educate those who elect our officials. According to Leon, it will take a "grass roots effort" on the part of the scientific societies to accomplish this goal.

The American Physical Society is the leading society of physicists in the United States, with major influence internationally. The Society is a nonprofit scientific organization founded in 1899. Its purpose is the advancement and diffusion of the

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Five scientists receive promotions

At its recent meeting, the Fermilab Board of Overseers approved promotions from associate scientist to scientist I for **Michael Crisler** (RD), **Joshua Frieman** (RD), **Alan Hahn** (AD), **Stephen Kent** (CD) and **Michael Lamm** (TS). These promotions followed recommendations from Director **John Peoples** and the Fermilab Committee on Scientific Appointments.

Mike Crisler is a member of the Projects Group in the Research Division's Research Facilities Department where he worked on the conceptual designs for the KAMI (Kaons at the Main Injector) project and for the KTeV (Kaons at the Tevatron) project. He recently accepted the position of technical manager of the KTeV project. Mike joined the Laboratory in November 1983 as a research associate in the Physics Department. He worked on the E711 experiment, a study of large invariant mass hadron pair production. In 1986, Mike received a Robert R. Wilson fellowship. As a Wilson Fellow, he served as spokesperson for E774, a search for short-lived neutral particles produced in an electron beam dump, which completed data taking in 1990.

Josh Frieman joined the Laboratory in October 1988. He is a member of the Research Division's Theoretical Astrophysics Group. According to John Peoples, this promotion recognizes Josh's "important contribution to the new field of particle cosmology."

Alan Hahn is the head of the Accelerator Division Instrumentation Department and the deputy collider run coordinator. He joined the Laboratory in March 1989. He has recently been involved in beam diagnostics activities which included the construction of a synchrotron light telescope. This project was done with **Pat Hurh** (AD/Mechanical Department). Alan was commended by the director for his contributions to the E670 charmonium formation experiment and the flying wire system and the synchrotron radiation monitor.

Stephen Kent is in the Experimental Astrophysics Group in the Computing Division. He joined the Lab in September 1991. Since that time his major activity has been working on the Sloan Digital Sky Survey, a collaborative project between Fermilab, the University of Chicago, Princeton University, the Institute for Advanced Study, The Johns Hopkins University, and a Japanese collaborative group. He is also involved in a Computing Division project to build a CCD camera known as the Drift Scan Camera. It will be used on a 3.5 meter telescope at Apache



M. Crisler



J. Frieman



A. Hahn



S. Kent



M. Lamm

Point Observatory.

Mike Lamm joined Fermilab in 1983 as a Physics Department post doc. He worked with a team of physicists and technical staff to de-

velop and construct a large area drift chamber for the CCFR neutrino detector in Lab E. Mike participated in the running and analysis of E744 and E770 which used the CCFR detector to study neutrino charged current interactions. In 1987 he joined the Technical Support Section as an associate scientist. For the last four years, he has been the director of the Advanced Magnet R&D Test Facility (Lab 2), where quadrupole magnets for the Fermilab low-beta insertion and one-meter model dipoles for the SSC have been evaluated. He is a member of the E815 collaboration. E815 is an experiment designed to make precision measurements of neutrino neutral current interactions. Mike also serves as the coordinator of the SDC test-beam operations at the Lab.

DOE news

Langenfeld heads Chicago Field Office

Cherri Langenfeld, formerly acting director of the Office of Technology Utilization, Office of Science and Technology, is the new manager of the DOE Chicago Field Office.

The office, with 600 employees, is responsible for the management of five government-funded laboratories: Ames, Argonne, Brookhaven, **Fermilab** and Princeton Plasma Physics.

David Goldman, assistant manager for laboratory management, who has served for two years as acting manager, has been named deputy manager of the DOE Chicago Field Office.—*DOE This Month*

Quigg elected to AAAS fellowship

The American Association for the Advancement of Science recently announced the election of **Chris Quigg** (RD/Theory Department) to the rank of Fellow. The only AAAS members eligible to attain this rank are those whose efforts on behalf of the advancement of science or its applications are scientifically or socially distinguished.

Chris was elected to fellowship "for distinguished research in high-energy physics and theory of the fundamental interactions of the elementary particles." He will be honored at the next AAAS annual meeting to be held in Boston on February 14, 1993. At this meeting, each newly-elected Fellow will be presented with an official certificate and rosette pin.

Founded in 1848, AAAS is the world's largest general science organization and numbers more than 134,000 members worldwide. The Association publishes the weekly journal *Science* and the electronic journal *Current Clinical Trials*.



MSDS is important to your safety

Safety is an important element of working at Fermilab, and there are many programs in place to help ensure that your work environment is safe and free from any possible hazard. One aspect of the Laboratory's safety program, geared to maintaining safe use of chemicals, is Material Safety Data Sheets.

Material Safety Data Sheets, or MSDSs, give you all the critical information you need about how to use, transport and store chemicals in order to protect yourself.

Material Safety Data Sheets must be maintained in the work place where chemicals are being used and must be readily accessible to employees.

If your area or department does not have a material safety data sheet for a certain chemical that you use, it is essential to obtain one.

To obtain an MSDS for non-stockroom items first check with your division/section ES&H department. If your ES&H department does not have a copy, they will check with the ES&H Section. The ES&H Section maintains an MSDS database for most chemicals used on site. If it is not found in the ES&H Section database, include on the requisition for the item a request to obtain the MSDS from the vendor. Upon receiving the requisition with a request for an MSDS, the Purchasing Department will request that the vendor include the material safety data sheet with the shipment.

The Receiving Department, upon receipt of an MSDS, will forward a copy of the material safety data sheet with the chemical to the end user. The original MSDS is forwarded to the Business Services Section/ES&H department for their files. The BSS/ES&H then forwards a copy of the MSDS to the division/section ES&H Department of the end user of the product and a copy to the ES&H Section for inclusion into their database. Each division/section's ES&H department retains MSDSs for products used in its areas. In some cases, the vendor will send the MSDS directly to the Purchasing Department. Purchasing will in turn forward the MSDS to the BSS/ES&H Department who will distribute the MSDS as stated above.

According to **Steve Bluma** (BSS/ES&H), in some instances an MSDS cannot be obtained through this procedure. For example, if an employee uses a chemical that was purchased before September 23, 1987, the date when chemical manufacturers were first required to provide MSDSs by OSHA Standards, an MSDS may not be available. In that case, the division/section needing the MSDS must order
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The spirit of giving:

Tax-free payroll deductions

The time of year has arrived when employees are asked to contribute to charities through payroll deductions or one-time contributions. Using the payroll deduction plan, an employee may choose up to three charitable organizations including a community fund.

No pledge below \$12 per year for 1993 can be accepted through the payroll deduction plan. The selected charities must be among those approved by the Internal Revenue Service.

The payroll deductions an employee designates will be made every pay period, beginning January 1, 1993, and will continue throughout the year. At the end of 1993, employees taking advantage of this plan will receive a statement of their contributions for income tax purposes. Pledges for the 1992 year will end December 31 unless they are renewed.

Thanks to all who have given in the past or plan to give in the future. You are making a difference in your community by improving the lives of thousands of needy individuals.

For additional information contact Ruby Coiley at x8365.

Jovanovic elected to APS Forum

Drasko Jovanovic (Physics Section) has been elected chairperson of the American Physical Society's Forum of Education. Drasko was elected to the post in October and will officially assume his role when the forum begins its operations in January 1993.

Arlene Lennox (Neutron Therapy) was elected to the forum as an American Physical Society-American Association of Physics teachers member-at-large. She will serve a two-year term on the Executive Committee to help ensure coordination between forum and AAPT activities.

The forum is a newly formed subcommittee of the American Physical Society, a 45,000 member society dedicated to the advancement of science.

The forum, Drasko said, is a 2,500 member
Continued on page 8



D. Jovanovic



A. Lennox

Nalrec News

Tonight is the Turkey Trot at Kuhn Barn. There is still time to get those raffle tickets. Festivities begin at 5 p.m. and end at 9:30 p.m.

Orders for the first Fermilab cookbook will be taken beginning December 1. The cost of the book is \$5. It contains nearly 100 recipes. It is a great Christmas gift idea for family and friends. The pick up date is December 10. To order your copy, call Charlotte at x8640 or Nancy at x2902.

Get in the holiday spirit with Nalrec. We are having something for everyone: a formal dinner dance, employee barn party and yes, a visit from Santa.

The Christmas Dinner Dance is December 18 at the Wilton Manor in Wheaton. It will be a great time, one you won't want to miss. Cost and additional information will follow.

Santa Claus is coming to town (no budget problems with him) on December 13 from 1 p.m. to 4 p.m. Cartoons, punch, cookies, toys and "the works" are on the agenda for all little ones under the age of eight.

Nalrec and Princess Vacations are sponsoring three trips to the Bahamas this winter. Packages include a golf outing, a Super Bowl extravaganza and fun in the sun at prices starting as low as \$329 per person. For further information contact Jesse Guerra at x4305, MS 221.—Charlotte Smith

Wellness works

Family life education lecture to be held at Fermilab

Fermilab's Wellness Committee and Fox Valley Counseling Services, a program of Lutheran Social Services of Illinois, will present part two of the Family Life Education Series on Monday, November 23. The series is designed to assist families with the challenges they face today by helping to strengthen family bonds and encouraging individual growth. The Family Life Education Series is a service that the agency provides in addition to individual, family and marital therapy, and specialized children's groups.

The second lecture topic is *Rituals and Traditions: Making Memories*. It will be held Monday, November 23 from 7:00 to 8:30 p.m. in Ramsey Auditorium. The speaker for the evening will be Pat Nemura. She will address such issues as: understanding the importance of rituals in family bonding, sharing personal memories of positive childhood

NALWO Events

Come and enjoy the sights and sounds of Chicago at Christmas time with NALWO as they take their annual Christmas shopping trip down Michigan Avenue on December 4. For more information, call Selitha Raja at 665-5539 or Brenda Kirk at x3440.

All women associated with Fermilab are invited to the annual NALWO Christmas Tea hosted by Nancy Peoples on December 10. Please bring your favorite dessert or appetizer to share. Babysitting will be provided at the playgroup, but call in advance to make reservations. Nancy's home is located at Site 29 and her driveway entrance is the first road going south after you enter the Wilson Street gate at Fermilab. For more information call Selitha or Brenda.

Sue Mendelson has a stretching exercise class which meets twice a week at the Users' Center. For more information, please call Sue at x2660.

The Guest Office has a coffee morning every Tuesday and Thursday morning from 10 a.m. until noon in the Users' Center. We will not have the coffee when special events are planned for a specific day. Everyone is welcome to come. We look forward to seeing you.—Selitha Raja



rituals, evaluating priorities and making choices that support your priorities, and learning specific new ideas for creating traditions this holiday season.

In recognition of family needs, Fox Hill will offer a unique opportunity to enable parents to attend these lectures: a children's event will be offered at the agency for children six to 10 years of age. Please call 708-879-7266 to register your child. Fox Hill is located at 113 North Batavia Avenue in Batavia, next to Burger King. A staff member will supervise the children, who should be dropped off between 6:30 and 6:45 p.m.

For more information, call Fox Hill Counseling Services at 708-879-7266. A donation of \$5 is requested to help defray the cost of the children's event.—Karin Etter

Gallery features Lederman and Carney

A new art exhibit opened Wednesday, November 11 in the 2nd Floor Art Gallery. The exhibit features the work of photographers Ellen Lederman and John M. Carney and will be on display through December.

Ellen Lederman: Recent Photography

Photography is a relatively new medium in the world of art. A remarkable process that began in the 1830s as a method of permanently documenting images, the photograph was a venue to capture accurately and instantly a realistic representation of a chosen subject. Prior to this, one relied on an artist to render a building, topography or a human figure as realistically as possible.

The evolution of photography during the past 150-plus years revolves around not only the mechanics of the medium but also the personality of the photographer. The mechanical aspects of photography such as the camera, film and processing have continually become more and more sophisticated. The camera has developed to the point of total automation, allowing the unprofessional photographer to document more accurately and precisely than ever before. In contrast, there are those who have used this piece of mechanical equipment to take them beyond this level of photography to the level of fine art: artists who have chosen to use a camera and film rather than a paint brush and canvas. Ellen Lederman is one of these artists.

Many photographers take pictures just for the purpose of documentation. Ellen Lederman's photographs are concerned with a different kind of documentation. It is the human element, the individualistic

character that makes the quality of one photograph identifiable from another. She is concerned with a picture of space that becomes a pattern—a construction of lines and forms. Her photographs emphasize a play between pattern and space giving the viewer a sophisticated sense of geometrics. In these photographs of sharply defined close-ups, light is used to harden the line while surface texture balances the severity of the total artistic image.

Because of what she chooses to photograph—old buildings, doors, steps—all locations with a sense of place and time, she is elevating these trivial things by aesthetically transfixing them in her photographs. Ellen Lederman is further accenting her visual images by only using black and white film. The use of color in her photographs would be a distraction from the composition of the elements. She does not want the viewer to dwell on the color but rather on the parts that represent the whole image. Her photographs are clean-edged planes and geometric shapes that are defined with precision.

Ellen Lederman has taken photographs in many locations around the world. What is striking about this body of work is that one cannot readily identify where she has taken the photograph. It is a photograph that is not to be readily recognized as a place but rather as an interesting combination of shapes and surfaces. It is a universal view of the world to her as an artist.

Over the years, Ellen Lederman's photographs have not changed direction but have become more artistically complex. Through her many years of traveling she has matured, and, in turn, her photography has matured. The lines on her photographs have become more defined and the surfaces more accentuated, but it has always been the work of an artist. An artist from a tradition of



Ellen Lederman and John Carney

documentation but one who has taken her photography to her own personal level of fine art.—*Thea Burger*

Night Light

The title of this ongoing body of work is *Night Light: The Aesthetics of Time by Events in Space*. I find this concept interesting because of the condensation of time into an imager that appears as a moment, and, therefore, the photograph allows an interpretation of events through time not readily perceived. Most of the images in this exhibition are of one hour duration. The foreground often contains cultural references of man's activity during earth's movement in time through space. What appears in the photographs as the movement of the stars, planets, and moon, is, in fact, earth spinning and moving through space. Our home, Earth, is rotating 1,000 miles per hour on its axis and revolving around the sun at 66,000 miles per hour. This rate of travel through space is as much as fifty times faster than a bullet.

One of my joys in making the image is locating an interesting site and previsualizing what may occur: where the stars and moon will be in the composition, where airplanes may cross the sky, and which roads may be traveled. The site research is most often accomplished during the day, and at night while making a photograph, I often sit and watch the image evolve, mentally recording the unfolding events in time. Most often what is assumed to happen does, and, occasionally, the exposures are shortened or lengthened to attain desired results.—*John M. Carney, professor of art at Western Michigan University*

Finance Seminar to be held in December

A second in a series of finance seminars sponsored by the Employee Assistance Program titled Consumer Rights & Legal Issues will be held on Thursday, December 3 from 12 noon to 1 p.m. in Curia II.

Attorney Lisa Nyuli and credit counselor Diane Bedenbaugh will discuss the use of credit, credit ratings, bankruptcy and other money matters. For information call Employee Assistance at x3591.

Fermilab reinstates Employee Energy Conservation Awards Program

In October, the Fermilab Employee Energy Conservation Awards Program Committee was reconstituted with members nominated to serve two year terms. This program was established to provide the means for a regular employee to submit constructive energy conservation ideas in any area of the Laboratory's operations, to have these ideas evaluated and to possibly receive a cash award for approved and implemented suggestions.

The new committee expects to meet for the first time this year in mid-November and includes the following people: Associate Director **Dennis Theriot**, chairperson, **Jeff Irwin** (BSS), **Tom Jurgens** (AD), Energy Management Coordinator **Steve Krstulovich** (FESS), Energy Engineer **Venkat Kumar** (FESS), **Jack Mills** (FESS), **Stanley Orr** (RD), **Joe Otavka** (TSS), **Jim Priest** (ES&H) and **Age Visser** (RD).

Under this program, employees are encouraged to submit their ideas for energy savings and cost savings in a specific operation, process, method or practice at the Laboratory. Suggestions may pertain to the

individual's work area or to the work of other employees, but must be consistent with the mission and purpose of the Laboratory. Implementation of the suggestion must result in direct energy savings and cost savings within allowable payback constraints. The job responsibilities of the employee making the suggestion will be a primary factor in deciding whether the suggestion qualifies for an award. Awards will be given for an accepted suggestion whose subject is ruled to be outside the scope of the suggestor's normal duties, responsibilities and authority. All employees except the director, deputy and associate directors, division and section heads, FEECAP committee members and the energy management coordinators are eligible to receive awards.

When writing up a suggestion, state the problem or the situation the suggestion addresses; propose a reasonably specific solution or an approach; and describe the benefits that you believe will result from the implementation of your suggestion. The suggestion may specifically address locations or buildings for the application.

All suggestions will be evaluated by

individuals with expertise in the area involved in the suggestion. The recommendations of the evaluators will be reviewed by the FEECAP committee members. This committee, composed of staff with a broad knowledge of Laboratory operations, makes final recommendations relating to suggestion adoption and award.

Adopted suggestions may or may not result in a cash award. To be eligible for the minimum cash award of \$100, the suggestion must result in a first year net cost savings of \$250 or more. The award amount increases in steps with increased energy savings up to a maximum amount of \$5,000.

Since the inception of the program, 133 suggestions have been received. Most of the suggestions have been evaluated, however, quite a few are still pending. The pending suggestions will be evaluated in the order of receipt. Revised suggestion forms will be made available to all the committee members during the first meeting.

For further details on this program and for a copy of the revised suggestion form, please contact Venkat Kumar at Site 39, x8503.—*Venkat Kumar*

Buffalo shot!

Fermilab's entire buffalo herd was shot on October 29.

But, sources say, it didn't hurt them that much. Actually, the herd received their annual inoculations and no harm was done.

Each year around this time, the buffalo are inoculated for seven different diseases and viruses. Among the diseases the buffalo receive shots for are Bovine Rhinotracheitis, Virus Diarrhea, Parainfluenza 3, Respiratory Syncytial Virus and *Leptospira Canicola*. The heifer calves also receive a shot for *Brucella Abortus*, a disease that can cause the heifers to abort. In addition, Ivomec, a parasiticide, is poured on all the bison during the inoculation process to rid them of different parasites.

This year, the entire herd of 134 American Bison, or buffalo, including 36 calves,

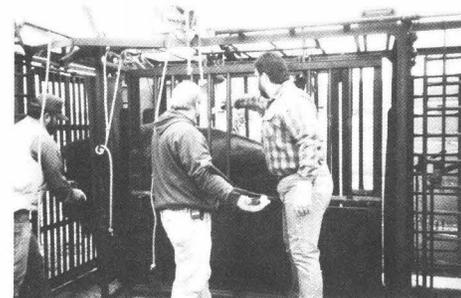


Bob Lootens looks on as Dr. Koch inoculates a buffalo.

were inoculated during the process. Missing or broken ear tags on the buffalo were also replaced and the new calves were tagged for the first time.

The inoculations took most of the day with the entire 17-person Roads and Ground crew assisting. The actual inoculation was done by Dr. Howard Koch, an Oswego, Illinois veterinarian.

The larger buffalo were the first to receive their shots, followed by the smaller buffalo and then the calves. A small tractor



Don Hanson (l) checks an ear tag while a parasiticide is poured on the buffalo.

in the corral guided the buffalo, one small group at a time, from the holding pen, down the corral to a squeeze shoot where each buffalo was held and then shot.

Herdsmen **Don Hanson** said it is important for the inoculations to be done each fall before the newborn calves are 10-months old.

Don added there have been no problems over the years with the inoculations other than a couple of mad bulls and a broken horn or two.

Kids observe Energy Awareness Month

October was a busy month for the children at Fermilab's Children's Center. They spent most of the month dusting light bulbs, going on leak hunts and running sock experiments.

As part of Energy Awareness Month in October, the staff at the Children's Center created a series of projects such as these for the children to do at home in order to become more energy efficient and aware.

Each week, the children were assigned a different energy-related task. One week they were asked to count the number of light bulbs they use at home and then help their mother or father dust some of them to improve the efficiency of the light bulbs. They were also asked to try to catch someone in their household who left a light on and then remind him or her to turn it off.

Al Schmitt (FESS) said his daughter Allayne enjoyed doing the various projects throughout the month. "It was fun for her to do," Al said, "and she did learn."

Al said he and Allayne counted light bulbs (about 100 total throughout their house) and talked about how it costs money to operate those lights.

Jan Whiteaker (BS) said that her son Jake also liked the exercises. "It was very useful," Jan said. "We counted light bulbs, and if we left a light on, he'd run in and turn it off and yell at us for leaving it on."

During the "If it's Not Too Far, Don't Take the Car Week," the children were asked to help with a car/sock experiment in which one of their parents placed an old sock on the tailpipe of their car and let the car run for a

minute. The children were then asked to examine the sock to see the harmful exhaust the car emits. The children were also asked to try to walk or ride their bikes instead of having their mother or father drive them.

During the "Join the Heat-Busters Week," children watched their mother or father change the air filter on the furnace and also went on a leak hunt. On a leak hunt, children were instructed to take around a six-inch piece of ribbon on a cold and windy day to several windows and doors in their house. If they noticed the ribbon move, they discovered a leak.

During each week, the staff at the Children's Center recorded the results of the children's activities and held discussions with them on what they found.

Sports season comes to a close

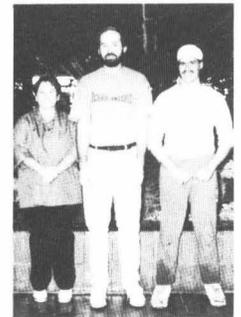
Fermilab's athletes finished yet another summer of fun in September as the basketball, volleyball and softball league seasons came to a close.

The Dream Team took first place honors in the basketball league, ending their season with 8 wins and no losses. Members of the undefeated team were: **Carl Penson** (TS), **Drue Wallace** (AD), **Stan Boyson** (TS), **Toney Richardson**, **Mark Davidson** (TS), **Leonard Nelson** (TS), **Don Meade**, **Don Koehn**, and **Ryan Hagler** (AD). The Lakers, led by team captain **Fred Lewis** (RD), came in second place at 5-3. Third place honors went to the Bad Company at 4-4, led by **Brian Lavoy** (Physics).

The Beer Smugglers, led by **Angie Velasquez** (LS), finished in first place in the volleyball league. Members of the hard-spiking team were: **Angie Velasquez**, **Paul Allcorn** (RD), **Carlos Gonzealez**, **Roy Justice** (Physics), **Dennis McAuliff** (BS), **Dave Jakubek** (RD), **Patty Jakubek**, **Gordon Bagby** (FESS), **Jenny Hall**, and **Wes Mueller** (AD). Team captain **Paul Lahue** (BS) led his team to second place, while third place honors went to **Roger Slisz** (FESS) and his team.

The first place softball team, Mr. P.S., led by **Mark Nylund** (AD) ended their season at 9-1. The hard-hitting members were:

Tony Busch (AD), **Dan (Zoot) Ziemba** (AD), **Mark Nylund**, **Paul Forester** (AD), **Pat Coffey** (AD), **Carl Staples** (AD), **John W. Brown Jr.** (AD), **Mercedes Nylund** (LS), **Keith Hronek** (AD), **Audrey Hopper** (AD), **Dave Bulmahn** (AD), **Rose Callaghan** (AD), **Dan Murphy** (AD), **Terry Morrison** (AD), **Randy Zifko**, (AD) and **Carolyn Busch**. Second place honors went to **Fred Lewis** and the Knights with a record of 6-4. Finishing third at 5-5 was the Byte Sox led by **Ron Rechenmacher** (CD).



Top left: row 1: Tony Busch, Dan Ziemba, Mark Nylund, Paul Forester, Pat Coffey, Carl Staples, John W. Brown, Jr., row 2: Mercedes Nylund, Keith Hronek, Audrey Hopper, Dave Bulmahn, Rose Callaghan, Dan Murphy, Terry Morrison, (not pictured) Carolyn Busch.

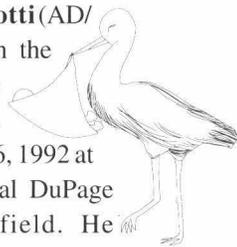
Top right: l to r Angie Velasquez, Paul Allcorn, Carlos Gonzealez, (not pictured) Roy Justice, Dennis McAuliff, Dave & Patty Jakubek, Gordon Bagby, Jenny Hall, Wes Mueller

DPF meeting continued

knowledge of physics. The Society accomplishes its purpose principally through the publication of scientific journals and the organization and management of meetings for the exchange of scientific ideas and results. Within the Society are Divisions serving research specialties. The Division of Particles and Fields is one of these. The DPF meetings began in Santa Fe. They are held every 18 months. The last two meetings were held at Rice University in Texas and in Vancouver, Canada. Fermilab was selected for this year's meeting after submitting a proposal to the Executive Committee of the DPF in Dallas, Texas in late January 1992.

Congratulations to

Laurie and Ed Barsotti (AD/Instrumentations) on the birth of their son Brian Edward. Brian was born October 16, 1992 at 5:07 p.m. at Central DuPage Hospital in Winfield. He weighed nine pounds, 14 oz. and was 22 inches long. Brian is the Barsotti's first child.



Jovanovic and Lennox continued

group "that reads like a who's who in education, who are all doing their best to help educate children in physics."

The forum was created to provide a mechanism for all interested APS members to become involved with education. One important goal of the forum is engaging more professional research physicists to collaborate in educational efforts with high school teachers in their area.

As chair of the forum, Drasko will be involved in organizing sessions that address these issues.

Ferminews deadline tightened

Due to the upcoming holiday season the deadline for the Friday, December 4 issue of *Ferminews* has been moved up to Friday, November 20. The deadline for the December 18 issue is Wednesday, December 9. There will be no January 3 issue. Publication will resume January 17. The deadline for that issue is Wednesday, January 8.

Harper's index

Price of one 20-pound crate of kindling from trees "felled by natural causes," from Eddie Bauer: \$59.

MSDS continued

one directly from the vendor. After obtaining the MSDS, the division/section ES&H department will keep a copy on file and forward a copy to the ES&H Section. Steve added that it is important that employees do not use a chemical unless they are completely aware of the hazards of that chemical and know how to work with the chemical safely.

To obtain a material safety data sheet for an item in the stockroom, employees should follow the instructions on the signs located at each stockroom that direct personnel to their division/section ES&H department for acquisition of an MSDS. The division/section ES&H departments have access to the ES&H Section MSDS database.

When a new stock item is received in the stockroom, stockroom personnel place a copy of the safety data sheet in their master MSDS binder, which is available only to stockroom personnel, and send a copy to BSS/ES&H. BSS/ES&H forwards a copy of the MSDS to the ES&H Section for inclusion in their database. Another copy is sent to the division/section ES&H department of the person requesting that the item be added to stock.

Hot off the press

The latest issue of *Fermilab Report* is now available. It features the 1992 report and recommendations from the Fermilab Physics Advisory Committee, results from Fermilab E665, a review of the accelerator performance during the 1991 fixed-target run, a report on test beam activities during the last run, an article about the EPICURE control system and news from around the Laboratory. If you would like a copy, stop by the Publications Office, WH6NW or contact FNAL::TECHPUBS or x3278.

Tonight's movie

The International Film Society presents *Drowning by Numbers*, a metaphorical game-playing of sex and death set in an idyllic English landscape. The movie will be shown at 8 p.m. in Ramsey Auditorium.

Classified ads

Gray extended height cap for 6 ft. bed, S10 Chevy truck, \$500. Call Don Mizicko at x4309 or page 510.

Gulbranson transistor organ model B-2. Excellent condition, completely reconditioned, \$500. Call 708-897-2820 after 5 p.m.

Sears metal desk, 5 drawers, \$50. Wooden port-a-crib with mattress and sheets, \$25. Contact Lynn at x2061 or FNAL::GARREN.

Farm fresh eggs, \$.75 a dozen. Call Bill at x3632.

Men's brown leather jacket by Members Only, size 46, worn only twice, \$300. Call Shelley at x3324.

Bogen 3035 tripod and accessories, \$135. Call Al at x4829.

Baldwin console organ. Great for the kids, music lessons or sing-a-longs at the holidays. In good condition, \$300 o.b.o. Small entertainment center on casters. Medium oak wood-like finish, \$50 o.b.o. Call Nan at x4550 or 708-897-7812 and leave a message.

0.45 carat **Marquis-cut diamond ring** with accompanying gold ring. Appraised at \$1,600. Will sell for \$700. Call Mike at x4860.

Two foot **artificial Christmas tree** (new). Comes complete with ornaments, tinsel and stand, \$12. Call Donna at 708-289-3813.

Mobile home for sale in Bartlett, 1989. 14' x 70', 2 bedroom, 2 bath, central air, appliances, dishwasher, washer & dryer, shed, eat-in kitchen with skylight, quiet neighborhood, \$29,900. Call Irene at x4788 or 708-888-0918 after 4 p.m.

How's the service

We have changed the method of distribution for *Ferminews* and are now sending them in bundles to mail stations only. If you are not receiving the correct number at your mail station, please notify the Publications Office by phone or e-mail. Be sure to tell us your mail station and the **total** number of copies you need.