

# FermiNews

FERMI NATIONAL ACCELERATOR LABORATORY

## Stefanski appointed Associate Director

On October 18, Director **John Peoples** announced the retirement of Associate Director for Technology **Dennis Theriot** and the appointment of **Ray Stefanski** as associate director for operations support. Ray's appointment began on November 15.

Ray had worked at Fermilab for 20 years and at the SSC Laboratory for three years before returning to Fermilab in June 1992. Since Ray returned, he has served as Dennis' assistant, overseeing the development of the Quality Assurance Program, the implementation of the DOE Maintenance Order and the development of new projects such as KTeV and NuMI. He has also been active in the Fermilab collaboration with the Tesla project. In a letter to division and section heads announcing Ray's appointment, John remarked that Ray "is in an excellent position to take over Dennis' duties."

In his role as associate director for operations support, Ray is utilizing his experience with large projects as a basis for oversight of the Facility Engineering Services Section and the ES&H Section. Ray is dedicated to the task of implementing the Laboratory's policy on environment, safety and health, the Quality Assurance Program, and the maintenance program for Fermilab's facilities. His responsibilities include oversight of all general plant projects and in-house energy management projects.

"The Laboratory faces an important challenge as national science priorities change and the high-energy-physics program makes adjustments for the loss of the SSC," Ray said. "We must be ready to improve our methods and modernize our approach if we're to remain at the forefront of science and high-energy-physics research."

Ray chairs several committees, including the Environment, Safety and Health Policy Advisory Committee, the Laboratory Safety Committee and the Laboratory Quality Assurance Committee. Ray also has oversight responsibility for the Engineering Policy Committee, the Senior Safety Officers Committee, the Energy Conservation Committee and the Prairie Committee.

Before returning to the Laboratory, Ray headed the Detector Engineering Resources Department, later called the Experimental Facilities Support Department,

at the SSC. Ray also taught a senior-level quantum mechanics course at Texas Christian University during the spring 1991 term.

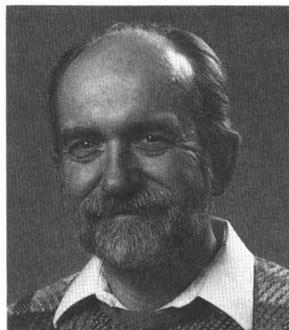
Ray received his Ph.D. in physics from Yale University in 1968 and came to Fermilab in August 1969. Beginning his Fermilab career as a member of the Experimental Areas Department, Ray worked on problems associated with the design and construction of the Neutrino Area. He participated in several counter neutrino experiments during this time and designed and built several neutrino beams. Later he worked on hadron experiments—most notably E-653 in the Neutrino Area—a heavy flavor hadron production experiment for which he designed the beams. From 1983 to 1986, Ray served as the deputy project manager for the Tevatron II project, and in 1986 he became associate head for construction in the Research Division, also serving as head of the Research Facilities Department. He received an M.B.A. from Chicago's Keller Graduate School of Management in 1983. He left the Laboratory to join the SSC in January 1990.

Ray and his wife, Liz, live in Naperville. Liz is an assistant division director at the Advanced Photon Source at Argonne National Laboratory. Paul, their 23-year-old son, is a graduate student studying architecture at the University of Washington in Seattle.

## Dennis Theriot retires

Associate Director for Technology **Dennis Theriot** has announced his retirement after 24 years of service to Fermilab.

Dennis was appointed associate director in May 1989, and has since been responsible for overseeing Technical Support, the ES&H Section and FESS. As Continued on page 3



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# Director calls on experimenters for Expressions of Interest

## Physicists meet to discuss the program of the future

Director John Peoples called a special all experimenters' meeting on Saturday morning, November 20th, to discuss with Fermilab users the recommendations of the Laboratory's Physics Advisory Committee, and to exchange ideas on what the future holds for the field of high-energy physics research and for Fermilab.

The director noted the excellence of the Fermilab physics program as it is planned, and his hopes that the Laboratory will have the resources to achieve it. "The Physics Advisory Committee is giving us excellent advice, and we have a program through the year 2000, when the goals of CDF and DØ should be accomplished," he said, adding that now is the time to plan for the Fermilab physics program for the beginning of the new century.

"Last June, we asked the PAC for advice on where we should be going," the director told the audience of several hundred Fermilab experimenters. "The clear advice they gave us is that we should plan for a new round of collider detectors." He pointed out that in about 2003, CERN will begin operating a 6 TeV-on-6 TeV particle accelerator, the LHC, that will take Fermilab's place at the highest energy frontier and suggested that "we need to think about a [Fermilab] program existing at the same time as CERN's LHC."

Where might the physics of Fermilab's future lead? The director proposed B physics as one clear opportunity, and reiterated his support for a strong fixed-target program to take advantage of Fermilab's unique fixed-target capabilities, which no other laboratory will duplicate in the foreseeable future. He emphasized the need to explore other avenues of research as well, calling on experimenters to put forward their proposals for promising areas of exploration. He suggested that physicists look at alternative areas of research, not limiting their proposals to variations on existing experiments, but instead urging them to consider "other ways to do high-energy physics."

In discussing the future of the field, the director gave his view that "Certainly, in the

future the big accelerators will be international laboratories—I don't think anyone disagrees with that. The issue is whether the United States will be a partner. This is a very serious matter." He warned that "We shouldn't assume that people are going to shower billions of dollars on us. I think that is unrealistic in this climate. But I don't think it is crazy to assume that we could go back to a budget on the scale we had in 1990. That is at least possible. The downside would be to have a budget ten percent smaller than we have now."

Regardless of future trends, he cautioned that FY95 may be a difficult year for the U.S. high-energy physics program. He advised experimenters that "the Department of Energy's budget is down by \$1.6 billion for 1995. So we must plan positively, for a smaller, leaner enterprise."

After the director's opening presentation, Deputy Director Ken Stanfield discussed specifics of the PAC's recommendations for the Fermilab program, and the Laboratory's response.

The deputy director told experimenters that the long-range schedule published in September remains the Laboratory's plan. The schedule calls for Collider Run Ib to begin in December 1993. A fixed-target run will begin in mid-1995, continuing for about 12 months and spanning two fiscal years. In 1997, the schedule calls for a return to collider operation with Collider Run IIa, the last collider run scheduled before commissioning of the Main Injector in FY97 and early FY98. The schedule is based on the assumption that funding for FY94 and beyond will equal FY93 levels, he said.

In reality, however, Ken explained that the Laboratory expects FY94 resources to fall below FY93 funding levels, adding that "The Lab is working with experiment collaborations to try to understand the impact of the reduced FY94 budget on the schedule." He noted that the Laboratory's base budget, excluding funds for Main Injector construction, is lower than the budget for FY93 by \$11.4 million, before adjustment for infla-

## Fermilab calls for Expressions of Interest

The Laboratory is calling for Expressions of Interest for physics programs at the BØ and DØ interaction regions of the Tevatron Collider to commence with Collider Run III.

### May 1994:

Expressions of Interest due

### January 1995:

Letters of Intent due

### May 1995:

Proposals due

### April 1996:

Conceptual Design Reports due

### November 1996:

Design Report- Equipment funding to begin

### First Run:

Collider Run III

tion. "In terms of purchasing power or constant dollars, it means the Laboratory's base budget is down by over \$16 million," he said.

The deputy director next discussed the need to set Laboratory priorities in light of a reduced budget. He announced that the highest priority will be operation of the Tevatron and successful completion of Collider Run Ib. He reminded users of the run's goals to capitalize on the capabilities of the new Linac to increase luminosity and deliver 75 inverse picobarns of integrated luminosity to the collider detectors, as well as to operate the collider at higher energies. He pointed out the difficulty of predicting long-term future schedules without making budget assumptions, noting that "We currently have six fixed-target experiments approved, but that was at the FY93 budget level."

Ken then turned to the discussion of Fermilab's responses to the PAC's recommendations for the Laboratory's long-range program. He noted that in July 1991, the PAC recommended that high- $p_t$  physics at CDF and DØ should have priority through Run II. He reported the PAC's encouragement for Fermilab to continue R&D toward B physics and its emphasis on the importance

Continued on page 3

## Future continued

encouraged Fermilab to continue R&D toward  $B$  physics emphasizing that the  $B$  physics goals are very important for the Lab. The PAC also advised us to vigorously pursue mechanisms to provide a detector and a vital collaboration capable of observing CP violation in the early SSC-LHC era.

In November 1991, the PAC again emphasized the importance of  $B$  physics. "Frankly I think PAC was becoming irritated with our lack of motion on this advice," said Ken. The PAC noted, however, the importance of  $B$  physics knowledge gained from CDF and  $D\bar{0}$  during Collider Run I. At this time, John stated his intention to support the development of a detector design dedicated to  $B$  physics.

"We began to respond to this advice in a number of ways," said Ken. We participated with SSC in a series of workshops that culminated in a *Second Charm and Beauty Workshop* last summer. In addition, we opened a new Research Division Silicon Facility and the Research Division also participated in an electronics effort. Lastly, John charged the Computing Division to develop a plan for supporting  $B$  detector proposals.

In June 1993, the PAC reemphasized their support of a  $B$  physics program. They

## What should be included in EOI

There are several steps a physicist or group of physicists must take in order to get a future experiment approved. The first step is submitting an Expression of Interest. An Expression of Interest should be no longer than 10 pages and should be standardized to contain the following information:

- Physics goals of the proposed experiment, including critical comparisons with other possible experiments in the world pursuing similar objectives (e.g. pp at RHIC, fixed targets in HERA, LHC, etc.).
- The new idea or ideas that make this detector facility attractive and/or unique.
- A sketch of the detector and its major

components, including a discussion of the ability of the detector to operate in an environment of multiple interactions per crossing.

- A rough overall cost estimate including the fraction of existing detectors that are recycled.
- Some indication of the size of the collaboration needed for the proposed experiment.
- Resources needed to turn the EOI into a Letter of Intent.
- Tentative level of effort required to complete construction of the detector in a timely fashion.
- List of people contributing to the EOI.

also supported future exploitation of high  $p_t$  physics including the search for the top quark.

At their most recent meeting held on November 12-14, 1993 the PAC made the following statement:

"For at least a decade, the Tevatron Collider will continue to be the highest energy collider in the world and this, combined with the planned luminosity upgrades, makes this facility the centerpiece of high-energy physics research with very exciting possibilities."

During the course of the PAC meeting, the Laboratory management outlined its plans

for optimizing the physics output from the Collider in the Main Injector era. The committee strongly endorsed this plan, which calls for new proposals for the  $B\bar{0}$  and  $D\bar{0}$  interaction regions after the present detectors in their upgraded configurations have each collected approximately  $0.5 \text{ fb}^{-1}$  of integrated luminosity.

Based upon these recommendations and optimistic funding assumptions, Ken called for Expressions of Interest and set into motion the planning mechanism for future programs.

## Dennis retires continued

associate director, Dennis provided assistance during the Tiger Team visit, brought the Lab through a DOE culture change and helped to raise Fermilab's ES&H consciousness.

Dennis came to the Laboratory in 1969 as a staff physicist in the Radiation Physics Department. There, he was instrumental in designing the muon shields in the Meson and Neutrino experimental areas during the initial construction of the Laboratory. In 1972 he transferred to the Neutrino Department to become Mechanical Support Group leader. He also served as department head and associate department head for construction and was instrumental in the redesign of neutrino beamlines and shielding, for the 15-foot and 30-inch Bubble Chambers and the design and fabrication of the Neutrino

Target systems.

In 1981, Dennis moved to the Collider Detector Department, where he played a key role in guiding the construction of the detector and adjacent facilities. There, Dennis served as deputy department head, deputy operations group leader and experimental support group leader.

Director John Peoples said in a letter to Dennis in honor of his retirement, "Your ingenuity in bringing a little personal comfort to the [CDF] trailers in the face of a constraining bureaucracy was impressive. Most impressive was the construction of CDF. The past 20 years of collegial work have been exciting; from the Neutrino Target Service Building to ESHPAC, with lots of other stops on the way. You have helped me immensely as we both worked to shape the

best Laboratory in the U.S."

"Dennis has borne his share in the Director's Office in dealing with various changes in culture. We are going to miss him a great deal," Ken Stanfield added.

Dennis officially retires on December 31 and plans to become, as he said, a "beach bum" at his home in Longboat Key, Florida.

"I enjoyed my time here," said Dennis. "I found the work interesting. Most of the people were fun and interesting to work with."



## Dosimetry program offers new option

The personnel dosimetry program at Fermilab is intended to document workers' exposure to ionizing radiation and to help keep cumulative doses as low as reasonably achievable. The radiation badges are obtained from a vendor and Fermilab pays for their processing. However, due to the "on and off" nature of high-energy-physics experiments, it often happens that badges remain on the racks unused for long periods of time. In the interest of minimizing the administrative workload and cost of the dosimetry program, Fermilab is instituting a system whereby badges can be temporarily removed from issue. It must be stressed that the purpose of this program is not to take dosimetry service away from any individual who might actually need it, but to avoid distributing and processing badges that are definitely not needed. Examples of such a case would include an absence from the laboratory for at least one full calendar quarter, as in the case of a user returning to his or her home institution; or a period of at least one calendar quarter in which the person to whom the badge is issued will definitely not be doing radiological work. An example of the latter case is an experimenter whose data acquisition is complete and who will be spending all of his or her working hours in an office environment.

The affected badge is "flagged" so that the vendor will not place it on the rack for shipment to Fermilab at the beginning of the next calendar quarter. This is done by the Radiation Physics Group in the ES&H Section via computer modem. The space for the badge remains on the rack and the holder of the badge remains in the database. The space on the badge rack is simply left empty so that no badge is assigned or processed for that quarter. Because it is simply a "flagging" process, the program has been dubbed "Red Flag."

Participation in the Red Flag program is strictly voluntary on the part of the badge wearer. The Radiation Physics Group does not take it upon itself to remove badges from issue, but will do so only upon request from the wearer.

## Monetary awards for patents and copyrights increased

If you are an inventor or software developer, it will now be more profitable work for you than in the past. The URA prime contract with DOE was recently revised to allow for increased monetary awards for patents and copyrights.

"For some time now, we have realized that our association needs to improve the monetary awards for inventions and copyrighted computer software resulting from our employees' work," said John Toll, president of URA.

Under the old contract an employee or group of employees received a total of \$100 when the invention was disclosed and an additional \$100 at the time the patent was issued. "This did not prove to be a sufficient motivation in all cases, particularly where more than one employee was involved," said

Bill Schmidt, URA corporate council. In the case of multiple inventors, the \$100 award for patent issue was split by the total number of inventors. "If there were 8 employees involved in the project, they were receiving checks for \$12.50," said John Venard, manager of the Fermilab Office of Research and Technology Application. Under the new awards schedule, each inventor would receive at least \$150.

Also, an improvement over the old contract is the inclusion of an award for software copyright registration, which was not included in the past contract. This is "a technology transfer program that has grown in pre-eminence since the contract was developed," said Bill.

The new employee incentive awards are as follows:

### Number of Inventors

	1	2	3	4 or more
<b>Record of Invention (Hardware or Software)</b>	\$100	\$75	\$50	\$25
<b>Award of Patent</b>	\$500	\$350	\$250	\$150
<b>Software Copyright Registration</b>	\$250	\$175	\$125	\$75

The key to the success of this program is communication between the badge wearers and the Radiation Physics Group. The Radiation Physics Group will send out periodic reminders about the program and how it works, typically once each quarter. These reminders are sent out via *Ferminews*, the lab-wide INFO electronic mail and by written information posted beside the racks. Additional information will be sent to radiation safety personnel to make them aware of the program. They can give appropriate advice on it to anyone in their area who might seek it.

If a badge holder decides to participate

in the Red Flag program, he or she must then notify the Radiation Physics Group through one of the following channels:

- Written request through lab mail to MS119, dosimetry program manager
- E-mail request to FNAL::SCOLLINS
- Telephone x3642
- Stop by Wilson Hall, 7th floor east

The request must include the reason for temporary removal of the badge from service.

Once again, this program is intended only to remove temporarily from service those badges which are definitely not needed.

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# ES&H issues statement on bloodborne pathogens

The ES&H Section recently added Chapter 5072, Bloodborne Pathogens to the *Fermilab ES&H Manual*. This chapter summarizes the OSHA requirements and describes what employees can do to protect themselves from exposure to bloodborne pathogens.

Bloodborne pathogens are microorganisms that may be present in human blood and body fluids. These microorganisms are capable of causing bloodborne diseases such as Hepatitis B Virus (HBV) and Human Immunodeficiency Virus (HIV).

## What can you do to protect yourself from exposure?

1. Do not clean up spills from blood or body fluids unless they are your own.
2. Minor injuries that require first aid should be treated by the injured employee only. Injuries that require medical attention should be immediately reported to x3131.
3. Avoid contact with items that are contaminated with blood or body fluids, such as gauze, rags, clothing, equipment and walking surfaces. Only trained

personnel wearing personal protection equipment are allowed to have contact with contaminated items.

4. Do not perform CPR unless you are certified by the American Red Cross or American Heart Association and use a mouthpiece. Make sure someone calls x3131.

## What should you do if you are exposed to blood or body fluids?

1. Immediately wash the exposed area with non-abrasive soap and large amounts of water. (Note: eyes should be flushed with water for 15 minutes).
2. Contact your supervisor immediately. If he/she is not available, contact your division/section ES&H Department.
3. The supervisor, division/section ES&H Department or the employee should contact the Medical Department as soon as possible to report any occupational exposure to blood or body fluids. The Medical Department will give further instructions to the exposed employee after the initial reporting.

## What other sources of information are available at Fermilab?

1. Bloodborne Pathogen Exposure Control Plan (Available in the Medical Department).
2. OSHA 29 CFR 1910.1030, Occupational Exposure to Bloodborne Pathogens (See your division/section ES&H Department).
3. *Fermilab ES&H Manual*, Chapter 5072, Bloodborne Pathogens.
4. Medical Department staff.
5. Division/section ES&H Department staff.

Bloodborne diseases like HBV and HIV can infect anyone regardless of age, sex or race. Employees should observe the "Universal Precautions" rule that states you should treat all human blood and body fluids as if they were known to be infected with HBV, HIV or other bloodborne pathogens.

You can't identify every person who may transmit infection. Yet, you can't afford not to since it takes just one exposure to become infected.—*Don Cossairt, ES&H Section*

# The how-to of recycling

In the November 5 issue of *Ferminews* we presented an article on the Business Service Section recycling program. In this, the sixth in a series of articles on waste minimization efforts at the Laboratory, we show how to properly dispose of many of these recyclables so that they can efficiently be sent on to a recycler.

Properly disposing of these materials will ensure that we are doing our part to conserve natural resources and reduce waste.

One the newest materials to be processed for recycling at the Laboratory is laser printer toner cartridges. Currently, there is only one recycling bin for the toner cartridges located in the basement of Wilson Hall. Both EP and EPS-type toner cartridges can be placed there for recycling. Used cartridges should be repackaged in their original boxes, sealed with tape and taken to the recycling bin. Boxes can also be marked for

recycling and placed by the elevators on each floor. Custodial Services will then take the boxes to the bin. The cartridges will be removed from the bin when it is full and taken to Site 38 for delivery to the recycler.

As part of the recycling efforts, the Laboratory has also been selling scrap metal since 1988, under the direction of the Contracts Department. Metals such as copper, scrap steel, sheet iron, stainless steel, aluminum, mixed aluminum, lead and various electronics are collected by the Property Office from locations on site and taken to the Railhead. After sufficient quantities have accumulated, approximately once every three months, the scrap metal is offered for sale. Scrap metal in your area should be segregated by metal type either in a bin, such as a garbage can, or in another designated area. The metal must be surveyed by your ES&H Department for radioactivity and possible hazardous mate-

rial before you call the Property Office at x3585 for pickup of the material.

The individual requesting the pickup or disposal is responsible for the hazardous material review/radiation survey and signing the material move request at the time of the pickup. The Property Office recommends limiting the amount of scrap placed in a container so it can be easily handled by the Property Office. The scrap metal that is taken to the Railhead is secured in a designated fenced-in area according to the division/section from which it was received. BSS/ES&H personnel will survey the area on a regular basis. Any metal found to contain hazardous materials will be returned to the generating division/section for proper cleanup.

By properly disposing of these and other recyclables, Fermilab can maintain a strong recycling program and do our part to protect the environment.

## Arts Series presents

Don't miss *Einstein: The Practical Bohemian*, December 4 at 8 p.m. in Ramsey Auditorium. Ed Metzger portrays Einstein the man—the original absent-minded professor, confused and troubled father, ardent pacifist, philosopher and humorist.

Many know of Einstein the genius, the man whose revolutionary theories have boggled the minds of the greatest scientists. But few know of Einstein the man, warm sensitive and funny. Since 1978 Ed Metzger has brought the human side of Einstein to audiences in his one-man show.

*The Los Angeles Herald Examiner* said, "Metzger performs with unusual tenderness and delicacy. It is a lovely tour de force." Clad in a rumpled gray suit over an incorrectly buttoned cardigan sweater, with a shock of graying fuzz, Metzger becomes Einstein. He brings to the stage Einstein's absent mindedness (he once had to ask a neighbor for directions to his house), his passion for



vanilla ice cream, his Jewish consciousness and his persistent protest against war.

Metzger, a veteran actor for 25 years, has appeared on Broadway, in films and many television shows.

Tickets are \$10. Call xARTS for reservations.

## Nalwo events

Nalwo invites you to join their annual shopping expedition to downtown Chicago. See the decorations and stores on Michigan Avenue. A bus leaves the Users' Center at 9 a.m. on Friday, December 3 and returns there about 3 p.m. Adults contribute \$2 towards bus fare; children are welcome free; lunch is on your own. Browse and/or buy in elegant Chicago!

Nalwo is presenting a Holiday Craft Workshop on Friday, December 10 from 1 p.m. until 4 p.m. in the Users' Center. Tentative things you can make include origami wreaths; pasta, bean and seed ornaments; colorful printed paper and several more. Some projects are simple enough for children ages five and over. Please register for this event with Selitha Raja, 708-305-7769; Mady Newfield, 708-584-0825 or Brenda Kirk, x3440.

Nalwo is very pleased to invite all Fermilab women to the Annual Christmas Coffee on Thursday, December 16 from 10 a.m. until noon at the home of Nancy Peoples. If you can easily do so, please bring a favorite dessert or appetizer. If you cannot, please come anyway! Enjoy a congenial, sociable morning. Babysitting is available at the

Playgroup from 9:45 a.m. to 12:15 p.m. Please call Connie Rusy at x2034 or 708-879-6339 to register children.

The Fermilab International Folk Dancing group sponsored by Nalwo extends an invitation to everyone to attend a holiday dance party at the Village Barn on Friday evening, December 17 from 7:30 p.m. until 11 p.m. Hear the excellent music of Jutta and the Hi-Dukes! There will be plenty of easy dances for beginners, and several experienced dancers to "talk you through" the steps. Refreshments are welcome. The cost is \$4 per adult and \$1 per child. See you there!

The Nalwo coffee morning on Tuesday, December 21 has been changed to a family "Caroling and Cookies" party from 10:30 a.m. until 1 p.m. in the Users' Center. The men and women of the English classes at the Lab and other guests will gather to sing songs from many lands and taste holiday treats and cookies brought by anyone who cares to do so. Please join Nalwo for a relaxing family morning of cheer and good fellowship. Come sing during your lunch break!—Susan Mendelsohn

## Movie schedule announced

The Fermilab International Film Society presents movies from all over the world. Movies are shown at 8 p.m. Fridays in Ramsey Auditorium. All foreign films have English subtitles. Admission is \$3 for adults, \$.50 for children 12 and under. Coffee and cookies will be served on the second-floor mezzanine following each film.

December 3: *Animated Myths*. Fables, allegories and creation stories from all over the world are retold in this unusual and imaginative series of animated shorts. From the Chicago Filmmakers collection. (104 min.)

December 17: *La Discrete*. A political speechwriter is spurned by his lover and meticulously plots revenge on the whole female sex by seducing a random young woman. Christian Vincent, dir. France, 1989. (95 min.)

## Congratulations to

Joy Bolden Plumer and **Robert Plumer** (FESS/O&M) on the birth of their daughter Meghan Amber. Meghan was born on November 7, 1993 at 2:17 a.m. at Delnor Community Hospital in Geneva. She weighed eight pounds, 14 ounces and was 19.5 inches long. Meghan is the Plumer's first child.

Tom and **Patti Watson** (BS/Accounting) on the birth of their son Kevin Thomas. Kevin was born on November 12, 1993 at 10:32 p.m. at Central DuPage Hospital in Winfield. He weighed eight pounds, 6.5 ounces and was 19.5 inches long. Kevin is Tom and Patti's first child.

## Harper's Index

Chances that an American who moves to a new address will also change his or her brand of toothpaste: 2 in 5.

Ratio of the number of Americans who prefer toilet paper to unroll off the top to those who prefer the bottom: 3:1.



Associate Director Dennis Theriot presented 20-year service awards to 41 Fermilab employees at a luncheon held October 15, 1993 at Chez Leon. The recipients were: (Row 1, l to r) Keith Schuh, Jerry Knauf, Myrtis Jenkins, Loretta Nemec, Don Byrd, Don Walker and Dennis Theriot. (Row 2, l to r) Larry Thomas, Dave York and Sue Schultz. (Row 3, l to r) Ray K. Solfisburg, Bill Noe Jr., Carmen Rotolo and Bruce Brown. (Row 4, l to r) Al Thomas, Greg Lawrence, Pat Liston and Ruth Christ. (Row 5, l to r) Jack McBride, Marion Richardson, Craig Moore, Paul Mantsch and Armstard Waldon. (Row 6, l to r) Earl Shaffer, Lee Benson, Merle M. Watson, Sam McGhee, Tom Droege and Jim Finks. (Not pictured) James Boye, Robert Florian, Judith Irwin, Shirley Jones, Judith Nicholls, Terrence O'Brien, Frank Pearsall, Fred Rittgarn, Roy Rubinstein, Gary Smith, Willie Stitts, George Villa and Donald Walsh.

## Nalrec news

Bring the kids! Santa and Mrs. Claus will be stopping by the Laboratory for the Children's Christmas Party December 12, 1993 from 1 until 4 p.m. in Ramsey Auditorium. As well as the appearance of Santa and Mrs. Claus, there will be cartoons, refreshments and games for children up to eight years old. The party is free of charge. For more information call John Satti at x3088 or Jesse Guerra at x4305.

Nalrec would like to thank all those who purchased turkey raffle tickets. The raffle was a great success. One hundred turkeys were given away for the holiday.—Denise Bumbar



Ryan Hagler (AD) enjoys the festivities at a recent Nalrec party. Nalrec invites all employees to join Ryan and plenty of others for fun, food and good times at the next gathering.

## Chez Leon

Lunches are served Wednesdays at 12:30 p.m. for \$13. Dinners are served Thursday evenings at 7 p.m. for \$23.50. For reservations call x4512.

### Wednesday, December 8

Fresh minestrone, seafood lasagna, Caesar salad, sliced oranges w/cranberry coulis

### Thursday, December 9

Salad Nicoise, lobster tail w/caviar, lemon mousseline sauce, vegetable of the season, pear and almond strudel

### Wednesday, December 15

Brie souffle, pork loin stuffed w/apples and prunes, lacy potato pancakes w/chives, vegetable of the season, pastry cones filled w/whipped cream and berries

### Thursday, December 16

Booked

### Wednesday, December 22

Clam chowder, quail in pear halves, risotto porcini, vegetable of the season, spinach and pomegranate salad, chocolate raspberry cake

### Thursday, December 23

Closed

### Wednesday, December 29

Closed

### Thursday, December 30

Closed

## ACU seeks volunteers

Argonne Credit Union is seeking volunteers to serve on its 1994 Board of Directors. No experience is necessary. All ACU members in good standing are eligible, including Laboratory employees, retirees and family members.

Applications are available at the Credit Union Office. The deadline for applications is December 15, 1993. Please direct any questions to Rudy Gebner at 708-252-4752 or Bob Kolar at 708-840-4191.

## For your health

Free blood pressure checks will be given December 21, 1993 from 11:30 a.m. until 1 p.m. in the Wilson Hall Atrium. Stop by and have your blood pressure checked—for the health of it.

## Library news

### New in the Library

*Principles of Circular Accelerators and Storage Rings.* Philip J. Bryant, Kjell Johnsen. Cambridge U. Press, 1992. QC787.P3 B79 1992, locked cases.

*Physics of Nearby Galaxies: Nature or Nurture?* 1992 Moriond Astrophys. Meeting. Editions Frontieres, 1992. QB857.5.E96 R46 1992, main.

*First Light in the Universe: Stars or QSOs?* 8th IAP Astrophys. Meeting, 7-11 July 1992, Paris. Editions Frontieres, 1993. QB856 .I57 1992, main.

SLAC Summer Inst. on Particle Physics, 20th, 1992: *The Third Family and the Physics of Flavor.* QC793 .SU64 1992, main.

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This program will become effective in the first quarter of 1994. Those whose badges are flagged before mid-December will have their badges removed from service from January through March, 1994. Thank you in advance for cooperating with this program.—  
*Dave Boehnlein, ES&H Section*