

# THE PULSE

For the Personnel of the Laboratory for Nuclear Science

Volume 3 Number 2 \*\*\*\*\* December 1994

## ***Congratulations:***

Michael Kogan - Received his U.S. Citizenship.

Ernie Ihloff - Became a Licensed Professional Engineer.

Dave Scoggins - Received a Master Electrician's License.

To Ernie Moniz - in honor of his **50th Birthday** on December 22!!

## ***Marriages:***

Joe D'Ambrosio - Married on June 12.

Ken Jacobs - Married on July 22.

Townsend Zwart - Married on August 6.

Abbi Zolfaghari's son, Alex - Married on October 22.

## ***Special Mention***

We would like to take this opportunity to say thank you to Bill Lobar for all the wonderful things he has done for the employees of this Laboratory. Bill came to MIT in 1951 and then to Bates in 1972. The employees at Bates will remember him as a man who was always available to help them out either by offering a service or by lending an ear whenever there was a need. Mere words cannot express how much he will be missed! We all wish him the best in whatever future endeavors he undertakes!

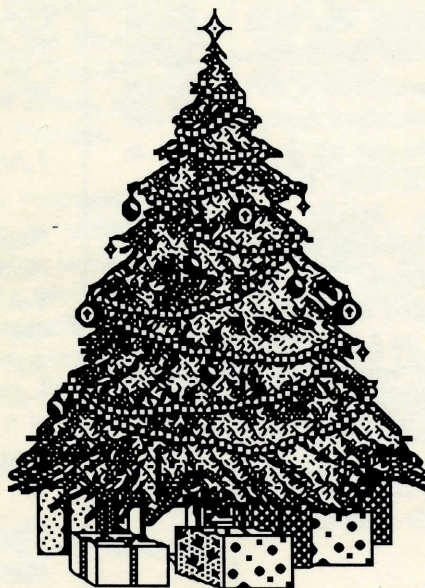
## ***Small Fry Notes***

Hadley Tieger, 10, daughter of Dan Tieger is performing in the Nutcracker Suite at the Emerson Majestic Theatre with the Ballet Theatre of Boston. This is her 4th year of performing. Congratulations, Hadley!

*Happy Holidays  
to everyone at  
LNS*

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**For Sale**  
**LNS Recipe Books**  
**(1992 Left Overs)**



If you didn't get a chance to purchase the LNS Cookbook the first time and would like one, we still have a supply and are selling them for \$3.00 ea. (Great Stocking Stuffer!!) If you wish to purchase a cookbook, contact Jean Flanagan at 8-5447 or Heidi Stirling at 8-5448.

***New System  
for Preprint  
Covers***

We would like to try a new procedure for preprint covers and we would like to have your feedback on whether or not it works for you. For the groups who

wish to use the preprint covers, please follow these steps: 1) One copy of the preprint should be given to Elsy. 2) Let Elsy know how many copies of the preprint you need. 3) Elsy will send the preprint out to be copied and the covers will be put onto the preprints. The cost of the covers will be shared by LNS Headquarters and the group.

***Reception Held for  
Milda Richardson***

On Friday, December 9th a reception was held in honor of Milda Richardson. Milda has accepted a new position as Executive Assistant to the president at J. Howard & Associates in Lexington, Mass. Milda gave a slide presentation of her travels to Lithuania. Her presentation included many aspects of her work on Lithuanian Folk Art. Milda worked at the Center for Theoretical Physics as an Administrative Assistant for the past 16 years.

***Retirement of 9-track Drives***

The LNS Computing Facility is planning to shut down the 9-track tape drives on May 1, 1995. They have been replaced by 8mm tape drives connected to various workstations. If you have data or programs stored in 9-track reels, please transfer this information to 8mm cartridges as soon as possible.

The Archiver program, which is supported by these tape drives, will also be terminated at that time. If you have files stored in the Archiver that you wish to retain, we suggest that you retrieve them and backup these files to an 8mm cartridge before May 1.

If you have any questions or require any assistance in the conversion process, please contact Ed Alvarez at x3-6066 or e-mail at smtp%"edalve@mitlms.mit.edu"

***New Video Conferencing Sites***

Several new video conferencing sites have been added to es.net. The new sites are Yale University, University of Calif. at Riverside, Cornell University, Purdue University, University of Texas and Texas A&M. The rates to use the LNS facility are \$125 per hour + telephone charges.

***LNS United Way***

Nagel Stone, LNS Machine Shop, has agreed to be this year's LNS United Way solicitor. The campaign continues through December. Your support for the United Way will be greatly appreciated. Contributions may be sent to Nagel in Bldg. 20B-026 or directly to MIT United Way Headquarters, Bldg. 20A-023. Please call Nagel at 3-2371 or 3-2392 for more information.

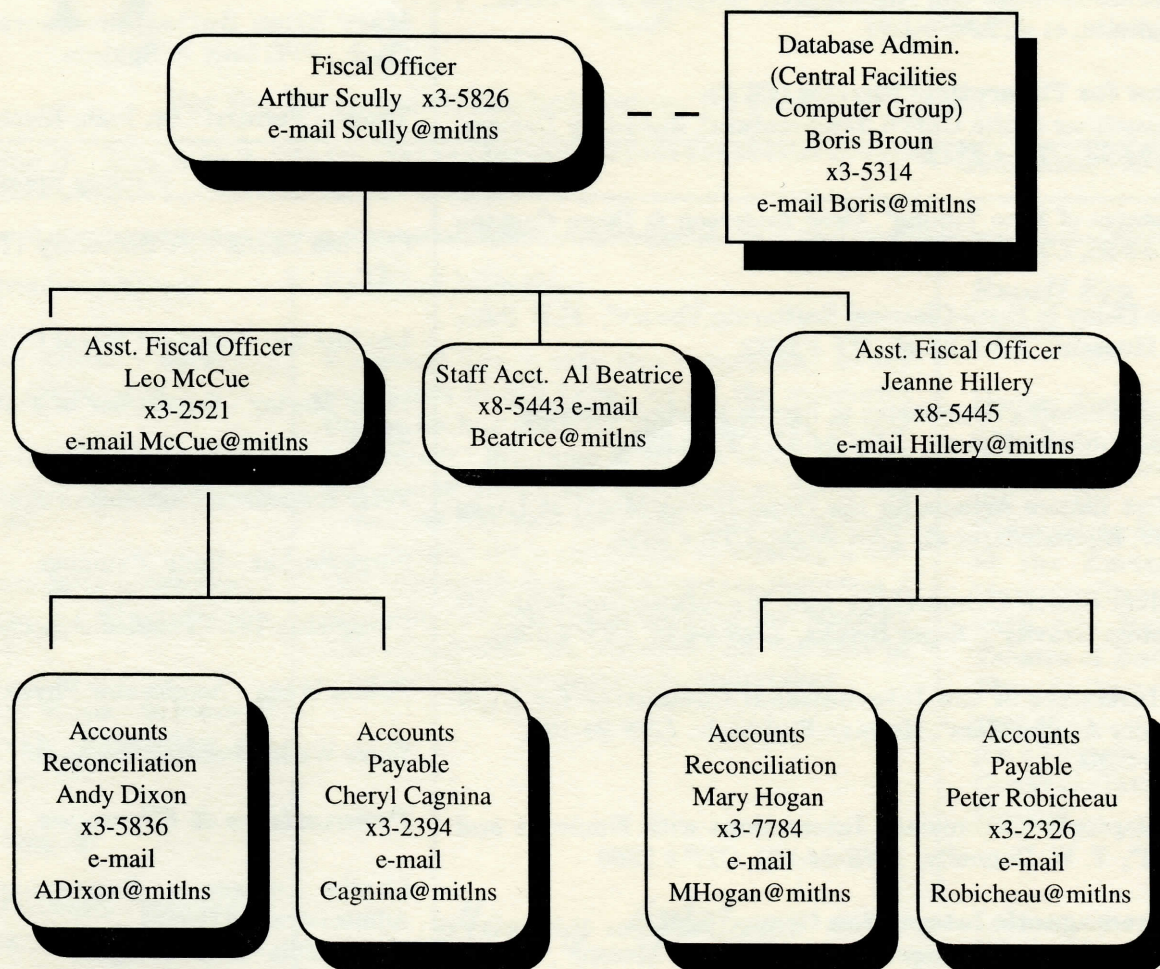
***The Tradition Continues -- IAP International Lunch***

Cheryl Cagnina has agreed to keep the tradition of the IAP International Lunch alive.

*Continued P. 3 Right column*



## LNS Fiscal Office



### ***Fiscal Office Restructured***

The LNS Fiscal Office is in the process of restructuring. Leo McCue, Assistant Fiscal Officer and Peter Robicheau, Accounts Payable are new members of the Fiscal Office staff. The new system consists of two teams. One team, led by Leo McCue and assisted by Cheryl Cagnina and Andy Dixon will be responsible for Bates Operations, EMI/L3, the Particle Physics Collaboration, Solar Neutrino, Machine Shop, Mechanical Engineering, Axion Physics, and the Nuclear Interactions Group. The other team is led by Jeanne Hillery and assisted by Mary Hogan and Peter Robicheau, will be responsible for Bates Equipment, AIP, GPP, Linac, Medium Energy Physics

Group, Logistic Support, LNS Headquarters, LNS Director, Accelerator Physics Collaboration, Lepton/Quark Studies, the Electronics Facility, the Computer Facility, the Relativistic Heavy Ion Group and the Center for Theoretical Physics.

Arthur Scully will be responsible for the general management of the fiscal office, training, systems issues, data flow and how reports are used. Al Beatrice will be responsible for the Payroll. He will be taking over the payroll function from Elsy Luc in January. Al will also be responsible for petty cash and videoconferencing vouchers.

The next issue of PULSE will cover the restructuring in more detail.

### ***\*\*\*Please Note***

@mitlns.mit.edu must be used when you are using e-mail off campus.

### ***IAP (Continued)***

The lunch is planned for Friday, February 3rd at noon in the Kolker Room. Please call Cheryl at 3-2394 or send email to Cagnina@mitlns. As in the past, recipes should be turned in to Cheryl.



## **List of LNS Publications**

### **Accelerator Physics Collaboration (APC)**

"Neutrino-Induced and Atmospheric Single-Muon Fluxes...", M. Aglietta, et al, *LNS-94-91*.

### **Center for Theoretical Physics (CTP)**

"Fluctuations of the Unruh Temperature", Jean-Guy Demers, *LNS-94-94, CTP # 2342*.

"Measures of Fine Tuning", Greg Anderson & Diego Castaño *LNS-94-95, CTP # 2350*.

"Time Delay in Semi-Classical Scattering Theory", M.P. Pato, M.S. Hussein, *LNS-94-96 CTP # 2352*.

"Parity-Violating Asymmetry in Elastic E-4He Scattering", E. Hadjimichael, et al, *LNS-94-97, CTP # 2354*.

"Perfect Lattice Actions for the Gross-Neveu Model at Large N" W. Bietenholz, et al, *LNS-94-98, CTP # 2356*.

"Moduli Space Cohomology and Wavefunctionals in 3D Quantum Gravity", Roger Brooks, *LNS-94-99, CTP # 2363*.

"An Initiative of the International Committee for High Intensity Accelerators", Herman Feshbach, *LNS-94-100, CTP # 2364*.

"Semileptonic Electroweak Interactions with Nucleons and Nuclei", T. W. Donnelly, *LNS-94-101, CTP # 2366*.

### **Electromagnetic Interaction Group (EMI)**

"Test of QED and Photoproduction of Vector Mesons", Ulrich Becker, *LNS-94-89*.

"AMS-TPC-Basic Idea, Design, Prototype", Ulrich Becker, *LNS-94-90*.

"Very High Precision Tests of the Electroweak Theory", P. Fisher and U. Becker, *LNS-94-93*.

"Drift Velocity and Deflection in Non-Perpendicular Electric and Magnetic Fields", Ulrich Becker, et al, *LNS-TR-94-04*.

"Compilation of Measured Gas Parameters", U. Becker, Y.H. Chang, et al, *LNS-TR-94-05*.

### **Medium Energy Group (MEG)**

"High  $Q^2$  (e,e' p) Scattering", Naomi Makins & Richard Milner, *LNS-94-79*.

"The Spin Structure of  $^3\text{He}$ ", Richard Milner, *LNS-94-88*.

## **We Welcome**

Rachel Berkowitz - Admin. Assist.  
CTP

Mary Ellen Butts - Sr. Secretary  
(Tech.) PPC Prof. P. Sphicas

Thomas Ferrarri - Sr. Tech. Electronic

Stephen Haberek - Welding Specialist

Cynthia Lewis - Sr Secretary (Tech.)  
CTP

Leo McCue - Assistant Fiscal Officer

Peter Morley - Supervisor of Machine  
Shop

Peter Robicheau - Accounts Payable

Serge Sarkar - Instr. Engineer

Ching-Hua Tan - Postdoc. Associate

Fuhua Wang - Accelerator Physicist

Steve Wells - Postdoc. Associate

## **Promotions & Changes**

Sheila Dodson - Supervisor of  
Administrative Group

Frank Hills - Staff Designer

Gary Nixon - BLAUGI User Group  
Liaison

Wade Sapp - Community Outreach  
Liaison

**THE PULSE** is a publication of the  
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If you have any ideas and/or sugges-  
tions for new features in **THE**  
**PULSE**, please send them in to  
26-540.