# Joanna Fowler Wins DOE's Lawrence Award

BNL Senior Chemist Joanna Fowler of the Chemistry Department is one of six scientists selected from across the nation to receive an E.O. Lawrence Memorial Award. Energy Secretary Bill Richardson announced the 1997 award winners on Tuesday, October 27.

Fowler and the five others will receive their awards, which each consist of a gold medal, a citation and \$15,000, at a ceremony in Washington, D.C., this winter.

Established in 1959 and first given in 1960, the award recognizes outstanding contributions by U.S. citizens in the field of science related to atomic energy.

The award honors the memory of Ernest Orlando Lawrence, who invented the cyclotron and founded two national laboratories: Lawrence Berkeley and Lawrence Livermore.

"The scientists whom we are honoring with this award follow in Lawrence's footsteps, by having made marvelous contributions to our understanding of who we are and the world around us," Richardson said.

The five other winners are: Dan Cacuci of the University of Karlsruhe, Germany, the University of Virginia, Charlottesville, and the University of Michigan, Ann Arbor; Laura Greene, University of Illinois, Urbana-Champaign; Steve Koonin, California Institute of Technology; Mark Thiemens, University of California, San Diego; and Ahmed Zewail, California Institute of Technology.

Fowler, an organic chemist, will receive the award in the life sciences category, for having devised innova-



tive ways to attach radioactive isotopes to molecules for research in biology and medicine.

These short-lived radioisotopes are used along with imaging techniques such as positron emission tomography (PET) to measure and "see" metabolism as it takes place in the brain and other organs.

Fowler has contributed substantially to the popularity of PET technology for research and diagnostic use throughout the world. In her own collaborative PET studies, she has made major contributions to our understanding of biochemical processes in addiction, aging, and drug action.

Fowler is the eleventh BNL researcher to have won the Lawrence Award

The others are: Joseph Wall, Biology Department, in 1988; Betsy Sutherland, Biology, 1985 (see story, page 2); Martin Blume, Physics Department, 1981; Nicholas Samios, Physics Department, 1980; Benno Schoenborn, formerly of Biology, 1980; F. William Studier, Biology, 1977; Joseph Hendrie (see story below), retired from what is now the Department of Advanced Technology (DAT), 1970; Jacob Bigeleisen, retired from Chemistry, 1964; and Herbert Kouts, retired from what is now DAT, 1963.

#### **PET Research**

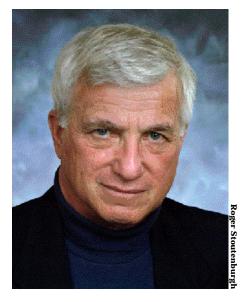
PET is a technology that measures metabolism in the brain, thereby providing images that reflect the functioning of the brain.

To document changes visually in the brain, a PET research subject is (continued on page 2)

## **Coming Up**

**Associate Scientist Aidnag** Diaz, Medical Department, will give the 340th Brookhaven Lecture on Wednesday, November 18. His talk, "Clinical Aspects of Boron Neutron Capture Therapy," will begin at 4 p.m. in Berkner Hall.

# Stephen Feldberg Is Honored With 1998 ACS Electrochemistry Award



Stephen Feldberg, a senior chemist in the Department of Applied Science (DAS), has won the American Chemical Society's (ACS) Division of Analytical Chemistry Award in Electrochemistry for 1998.

Sponsored by the Electrochemical Instruments Division of EG&G Princeton Applied Research, the \$4,000 award is given annually to an individual who has uniquely advanced the field of electrochemistry, a science that deals with the relationship between electricity and chemical changes.

The award was presented to Feldberg at the ACS's Division of Analytical Chemistry Awards Symposium held in Boston, Massachusetts, in

Feldberg's major contributions to

the field include basic and applied research in the theory and computer simulation of electrochemical phenomena, processes in which electrons are transferred from one material in a system to another, such as from metal to a solution in a battery. Electron transfer is the basis of many processes, ranging from aluminum smelting to myriad biological phenomena, such as photosynthesis.

"It is an honor to receive this award," Feldberg said. "For many years now, I've been applying finite difference methods to the simulation of a variety of electrochemical problems. When I first arrived at the Lab in 1961, BNL's IBM7090 computer was one of the fastest computers in the world, and it allowed me to attack problems that involved coupling of electron transfer and homogeneous chemical reactions, as well as other related problems. The results of that work were of direct interest to my colleagues in the electrochemical community.'

Feldberg acknowledged the contributions of his collaborators John Smalley, DAS, and Marshall Newton, Chemistry, as well as Christopher Chidsey of Stanford University. Supported by the Department of Energy's Office of Basic Energy Sciences, Feldberg and his collaborators have been investigating electron transfer in carefully designed systems as a function of time, distance and many other parameters.

(continued on page 2)

# Joseph Hendrie Recognized by ANS With Laurence Pioneering Award

Joseph Hendrie, who retired as a senior physicist from BNL's then Department of Nuclear Energy in June 1996, has been selected as the 1998 recipient of the American Nuclear Society's (ANS) George C. Laurence Pioneering Award.

The award, which is not limited to ANS members, is not given annually, but only to persons deemed appropriate as "having made outstanding pioneering contributions to the field of nuclear safety." The award is given in honor of George Laurence, a Canadian who originated the multichannel reactor protection systems now used on all modern reactors.

Hendrie was cited for "his outstanding contributions to reactor technology and power reactor safety, and for his leadership in developing the technical capabilities and processes used in reactor regulation. The Standard Review Plans and the technical excellence of the [Nuclear Regulatory Commission] staff are lasting testimony to his pioneering influence.'

The award of \$1,000 was given to Hendrie at the ANS Annual Meeting

Hendrie, who joined BNL in 1955, received his Ph.D. from Columbia University in 1957. A year later, he was named a project engineer and the Chairman of the Steering Committee for the High Flux Beam Reactor (HFBR), holding the position until the successful completion of the project in

It was 23 years later, in 1988, that



the ANS named the HFBR a Nuclear Historic Landmark, in part for the "elegant simplicity of its design" which "contributed to the HFBR's record of high availability and long, useful life."

Beginning in 1971, Hendrie headed the Engineering Division in the Department of Applied Science (DAS). Then, after two years in Washington as Deputy Director for technical review of the Atomic Energy Commission's (AEC) Directorate of Licensing, he returned to BNL in 1974 and became DAS Chairman in 1975.

In 1977, Hendrie was named NRC Chairman. On completing his term in 1981, he returned to BNL as a senior scientist, A long-term member of the National Academy of Engineering, he

(continued on page 2)

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## **Betsy Sutherland Elected to University of Tennessee Alumni Academic Hall of Fame**

Betsy Sutherland, a senior scientist in BNL's Biology Department, has been elected to the University of Tennessee, Knoxville, Alumni Academic Hall of Fame. Pictured here in her alma mater's Hall of Fame with John Peters, the university's Vice Chancellor for Academic Affairs, Sutherland is one of ten distinguished alumni who have received this recognition since it was first instituted four years ago, to observe the bicentennial of the university's founding in 1794.

After earning a B.S. and M.S. in biology in 1964 and 1965, respectively, from Emory University, Atlanta, Sutherland received her Ph.D. in radiation biology from the University of Tennessee in 1967. She completed her postdoctoral work at the Walter Reed Research Institute and the University of California, Berkeley. In 1972, she joined the University of California, Irvine, where she was on the faculty until 1977, when she came to BNL.

Sutherland investigates DNA damage and repair in organisms exposed to low doses of radiation or chemicals,



and she has produced more than 125 publications in peer-reviewed journals. Among her many honors, in 1985, Sutherland was the first woman to receive DOE's Ernest Orlando Lawrence Memorial Award for Outstanding Contributions in Atomic Energy. — Diane Greenberg

#### Stephen Feldberg (cont'd.)

In other work that he has performed with Manfred Rudolph of Friedrich-Schiller University, Germany, and Bioanalytical Systems, Indiana, Feldberg developed commercial software now used worldwide by researchers to study electrochemical reactions.

Feldberg received a B.A. in 1958 and a Ph.D. in 1961, both in analytical chemistry, from Princeton University. He joined BNL as a postdoctoral fellow in 1961, and, in 1963, he became a visiting assistant professor at the University of Kansas. In 1964, he returned to BNL, where he has pursued his career in research, while holding numerous visiting professorships in chemistry departments around the

A member of the American Chemical Society, Feldberg is also affiliated with the Electrochemical Society and the American Association for the Advancement of Science. He is on the editorial board of the Journal of Electroanalytical Chemistry. In 1992,  $Feldberg\,also\,won\,the\,Society\,for\,Elec$ troanalytical Chemistry's Charles N. Reilley Award in Electroanalytical Chemistry. — Diane Greenberg

# Suggest an ERC Candidate

At the end of December, three members of the Employee Relations Committee (ERC) will have completed their three-year terms. Therefore, the Laboratory Director is seeking three new members to appoint to this eight-person group.

The task of the ERC is to help non-bargaining, non-scientific employees solve work-related problems that they were unable to resolve with their supervisors. Therefore, members of the ERC must be people who are able to hear all sides of an issue objectively, work out equitable solutions and maintain the complete confidentiality under which the

If you would like to suggest a candidate for the ERC or request consideration for yourself, contact your the head of your department, division or office by November 10.

To bring a problem to the ERC's attention, call chairperson Conrad Koehler Jr.,\* Ext. 4005, or one of the other current members: Ann Corr, Ext. 2427; Sue Ellen Gerchman,\* Ext. 3417; Betty McBreen,\* Ext. 5111; Jon Sandberg, Ext. 4682; Neil Schaknowski, Ext. 4261; Lisa Toler, Ext.

\*outgoing member

2276; and Arline Willsey, Ext. 3490.

#### **Service Awards**

The following employees celebrated service anniversaries during October:

#### **40 Years** Walter R. Kane ...... Adv. Technology

Walter M. Reams App. Science				
John H. SonderickerRHIC				
35 Years				
Jeffrey L. Knighton Info. Services				
Dieter ZantoppRHIC				
30 Years				
George A. Hughes ES&H Services				
David C. Rorer Reactor				
25 Years				
Arthur B. Harris Env. Restoration				
Peter E. Haustein Chemistry				
Michael J. Murtagh Physics				
Joseph S. Wall Biology				
20 Years				
Thomas S. Dickinson NSLS				
Tack S Foldman Plant Fng				

Thomas S. Dickinson NSLS				
Jack S. Feldman Plant Eng.				
<b>Dorothy-Jean Greco</b> Director's Off.				
<b>Garfield Hawthorne</b> Info. Services				
Toni Hoffmann Fin. Services				
Ruth Ann Lutz Director's Off.				
Robert J. Malachowsky Reactor				
Joseph C. Roecklein AGS				
Kenneth Sullivan Adv. Technology				
Kevin B. Yachnik Plant Eng.				
10 Years				

IU Tears				
Robert A. Aikman	Plant Eng.			
Pierrot Bichoneau	Physics			
Joel J. Errante	Reactor			
Patricia E. Flood	. Info. Services			
David A. Graham	AGS			
Hung Sui Lee	App. Science			
Edwin V. Losee	Central Shops			
Ioannis M. Marneris	AĜS			
Lino Miceli	Physics			
John M. O'Hara A	dv. Technology			
Darlene A. Peragine	Human Res			

## **Computer Training**

The following classes will be offered in November by the Computing & Communications Division:

11/9	EXCEL, beginner
11/10 & 12	ACCESS, beginner
11/17	EXCEL, intermediate
11/18	HTML, beginner
11/19 & 20	ACCESS, intermediate
11/24	Word, intermediate

To view the catalog of available courses, contact your Department or Division training coordinator. To register interest and have your name d on a waiting list, submit pleted training request form to Pam Mansfield, Bldg. 515. All classes are scheduled based on the number of requests received. For more information, contact Mansfield, Ext. 7286 or pam@ bnl.gov.

## **Correction: CIGNA**

The toll-free phone number for CIGNA's new reimbursement account claims office is 1 (800) 242-2269, not 212-2269 as was previously published. Claim forms should be sent to the new address: CIGNA Reimbursement Accounts, P.O. Box 0976, Bristol, CT 06010.

### **Arrivals & Departures**

#### Arrivals

Fredrick J. Brechtel Appl. Science				
Francesco Lanni Physics				
Damien M. Pierce Physics				
Departures				

None

#### Joanna Fowler (cont'd.)

injected with a short-lived radioisotope which is attached to one of a number of compounds that bind to specific brain sites. The radiotracer emits energy that is recorded by detectors in the PET instrument, which signal the location and concentration to a computer. The computer translates these data into an image of brain activity.

The chemical challenge in PET research for Fowler and her colleagues is to incorporate radioactive isotopes into the complex organic compounds that can be used as probes for specific biological targets. The short lives of these isotopes — for example, carbon-11 has a half-life of only 20.4 minutes place very strict limitations on the methods that can be used.

Early in her career, Fowler took on the challenge of labeling biologically interesting molecules with radiotracers to track and study the molecules.

In 1976, Fowler and colleagues developed 18F-fluorodeoxyglucose (FDG), a short-lived radiotracer that mimics glucose — and FDG is currently used in PET centers around the world as a basic scientific tool. It is used in the neurosciences, to diagnose and study neurological and psychiatric diseases; in oncology, to diagnose lung and colon cancer; and in cardiology, to aid in the treatment of heart disease.

Then, using carbon-11-labeled cocaine, Fowler was the first to show the binding sites of cocaine in the human brain. Fowler, who heads the Brookhaven PET Group, is generally acknowledged to be the leader in using PET technology to understand the pharmacological actions and addictive properties of cocaine in humans.

In other research, Fowler also developed radiotracers for mapping the enzyme monoamineoxidase (MAO), a molecular target of drugs used to treat depression and Parkinson's disease.

In 1996 (see Brookhaven Bulletin, February 23, 1996). Fowler and her colleagues discovered that smokers who are less prone to Parkinson's disease — have an average of 40 percent less MAO, which breaks down dopamine, a brain chemical that is important in movement, motivation and reward.

This study suggests that an undetermined substance in cigarette smoke inhibits the enzyme, which may keep dopamine levels up. Findings such as these offer important clues to understanding addiction and the epidemio-

#### Joseph Hendrie (cont'd.)

became ANS President for 1984.

Among numerous fellowships and honors. Hendrie received the AEC's E.O. Lawrence Award in 1970 and was made a Commander of the Order of Leopold II by King Baudouin of Belgium in 1982. - Liz Seubert

logical features of smoking.

To expand on her group's research, Fowler was active in the establishment of Brookhaven's Center for Imaging & Neurosciences.

Established last year (see Brookhaven Bulletin, May 23, 1997), the center undertakes research using PET, magnetic resonance imaging and single photoemission computed tomography to investigate the workings of the human brain. Ongoing studies of addiction are under way, as well as investigations into the biochemical nature of obesity and aging.

#### **BNL Career**

Joanna Fowler earned her B.S. from the University of South Florida in 1964 and her Ph.D. from the University of Colorado in 1967. Except for a year as a senior research associate at the University of East Anglia, Norwich, England, she has spent her entire career at BNL.

Fowler's many honors include: the Jacob Javits Investigator Award in the Neurosciences in 1986 (with Senior Chemist Alfred Wolf, Chemistry) and in 1992: the Esselen Award for Chemistry in the Public Interest from the American Chemical Society in 1988; BNL's R&D Award in 1994; the Paul Aebersold Award from the Society of Nuclear Medicine in 1997; the Biological & Environmental Research 50 Program Recognition Award for Exceptional Service presented by DOE and the National Research Council in 1997; and the Francis P. Garvan-John M. Olin Medal from the American Chemical Society in 1998.

Among her professional activities, Fowler is on the Board of Scientific Counselors of the National Institute on Drug Abuse and the Board of Directors of the Society for Nuclear Imaging in Drug Research. Also, she serves on the editorial board of the Journal of Nuclear Medicine. She has published more than 250 papers in peer-reviewed journals, and she holds eight patents for radiolabeling procedures.

Diane Greenberg

Brookhaven Bulletin October 30, 1998

### **Bowling**

#### Red and Green League — 10/13/98

Congratulations to Eric Larsen with a perfect game of 300 followed by a 207 with a 694 scratch series, R. Mulderig Sr. 255/216/667 scratch, R. Larsen 254/ 205/653 scratch, R. Deam 224/218/ 203/645 scratch, J. Griffin 234/227/ 645 scratch, R. Mulderig Jr. 225/222/ 633 scratch, K. Koebel 244/203/639 scratch, J. Mayeski 245/602 scratch, K. Riker 236, R. Raynis 235, E. Meier 233, T. Sullivan 224, E. Sperry III 221, M. Meier 209, A. Pinelli 204, F. Wahlert 200, K. Asselta 200.

#### Purple and White League -10/8/98

M. Guacci 216/189, G. Mehl 207/ 187, M. G. Meier 191/178, J. Zebuda 190/189, D. Keating 185/173, S. Reynolds, 184/182,, Don King 211, M. Meier 210, B. Mullany 185, G. VanSickle 180, D. Meier 180, T. Mehl 180, F. Simes 179, L. Simes 173.

#### Water Aerobics

Water Aerobics classes will begin again on Tuesday, November 3, and Thursday, November 5, from 5:20 to 6:20 p.m. Classes will be held on Tuesdays and Thursdays for seven weeks.

No fee will be charged, but participants must pay a \$2 pool fee or show a pool season ticket. To register, call Mary Wood, Ext. 5923.

# Police Dog McGruff Shares Safe Halloween Tricks

At Halloween, when children are extra excited about candy and disguises, extra care is needed in warning them about the possible dangers of trick or treating. So, last Thursday, October 22, children at BNL's on-site Child Development Center were intrigued when bicycle-patrol officers of the Lab's Police Group of the Safeguards & **Security Division** escorted Police Dog McGruff into the playroom to give a few tips on Halloween safety. Captain Michael Delph (back, center), with Officer Richard Sanniola (center), and Of-

disguised Sergeant Sharol Busby as McGruff — re- their treats before eating, and other important Halminded the children about never going trick- loween safety-awareness rules.



ficer Mark Opisso (not pictured) — assisted by a well- or-treating alone, always having their parents check

Safe Sets proved that winning League II was no setup.

# 1997-98 Volleyball League Champions

When the winners in League I are Set to Kill, this is as good as it gets. The team includes: (seated, from left) Ruimei Ma, Michael Cowell, Michi Miura, with (laptop) Don Shea. Not shown: Mike Behrenfeld, Dion Durnford, Cathy Kolsky, Nick Lievers, and Ralph Wiet-

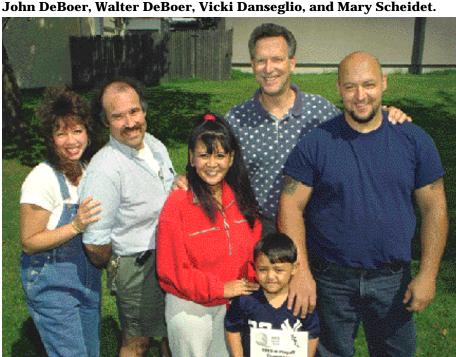
mann.



They include: (from left) Doug Paquette, Dawn Mosoff, Ed Taylor, and Nancy Meier. Not shown: Alice Cialella, Leon Goudikian, and Ed Schwaner.

Photos on this page by Roger Stoutenburgh.

Just-4-Fun may be their name, but they played to win in League III. They include: (from left) Phyllis Domenech, Joe D'Ambra, Aimee Mastromateo, Rich Scheidet, and Rick Mastromateo, with team mascot Ricky Mastromateo (center front). Not shown are: John Biemer, Gloria DeBoer,



points of the Spikers' games won them victory in the Open League. They include: (from left) Travis Shrey, Bill Kropp, and Dan Mullaly. Not shown: Dave Kawall, Christian LaVoye, Dieter Lott, and Jean Spears.

The many high

# Brookhinen

Rude Dogs

Published weekly by the Media & Communications Office for the employees of BROOK HAV EN NATIONAL LABORATORY

MARSHA BELFORD, Editor UZ SEUBERT, Assistant Editor

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### League standings 10/23

	•		•	
Open League A		Mixed League 2		
	Spikers	3-0	Spiked Jello	3-0
	Death Volley	2-1	In-Sideout	3-0
	Far Side	1-2	Safe Sets	3-0
	Shank, Carry & Throw	0-3	Monday Nite Live	0-3
Open League B		How-Bout-Dis	0-3	
		Nuts & Bolts	0-3	
	Star	3-0	Setups	0-3
	Bump Uglies	3-0	Butlers	0-3
	Late Entry	0-3		
Rice Ball 0-3		Mixed League 3		
			Upton Ups	3-0
	Mixed League	1	Group Sets	2-1
	Scared Hitless	2-1	Just-4-Fun	2-1
	Bikers & Spikers	2-1	Six Samurai	1-2
	Set to Kill	1-2	Net Setters	1-2

1-2 NWO

0-3

#### **That's Entertainment**

#### **Halloween Madness** — Tonight!

Join in the ghostly fun at BERA's first annual Halloween Madness Costume Party to be held tonight, Friday, October 30, 6-11 p.m., at the Brookhaven Center. Refreshments, door and best costume prizes, and dance music by E.T. are included in the \$5 admission. A cash bar will be available.

#### **BERA Atlantic City Trip**

A few seats remain for the next BERA-sponsored, one-day trip to Trump Marina Hotel and Casino in Atlantic City, on Saturday, November 7. The initial cost will be \$24, but the hotel-casino will give a \$17 coin return and two deferred vouchers for a return visit.

The bus will leave Brookhaven Center promptly at 8 a.m. and return at approximately 10 p.m. If requested, there will be a pickup at LIE Exit 63.

Buy tickets at the BERA Sales Office, Tuesday through Friday, 9 a.m. to 1:30 p.m. For more information, call Andrea Dehler, Ext. 3347, or M. Kay Dellimore, Ext. 2873.

# No Bulletin 11/13 — Notices 11/2

The Lab will be closed for the Veterans Day holiday on Tuesday, November 11, and no Brookhaven Bulletin will appear for that week, on Friday, November 13.

Therefore, notices regarding events during the week of November 16-20 should appear in the Bulletin on next Friday, November 6. The deadline for submitting these notices is noon of this Monday, November 2.

### Classified Advertisements

#### **Placement Notices**

The Laboratory's placement policy is to select the best-qualified candidate for an available position. Candidates are considered in the following order: (1) present employees within the department/division and/or appropriate bargaining unit, with preference for those within the immediate work group; (2) present employees within the Laboratory; and (3) outside applicants. In keeping with the Affirmative Action Plan, selections are made without regard to age, race, color, religion, national origin, sex, disability or veteran status.

Each week, the Human Resources Division lists new placement notices, first, so employees may request consideration for themselves, and, second, for open recruitment. Because of the priority policy stated above, each listing does not necessarily represent an opportunity for all people.

Except when operational needs require otherwise, positions will be open for one week after publication. For more information, contact the Employment Manager, Ext. 2882; call the JOBLINE, Ext. 7744 (344-7744), for a complete list of all job openings; use a TDD system to access job information by calling (516) 344-6018; or access current job openings on the World Wide Web at http://www.bnl.gov/JOBS/jobs.html.

**LABORATORY RECRUITMENT** - Opportunities for Laboratory employees.

DD7495. OFFICE SERVICES POSITION - (reposting) Requires an AAS degree or comparable experience in performing a variety of clerical assignments, such as data entry and file organization and maintenance, with particular emphasis on recordkeeping skills. Should have a thorough knowledge of basic office procedures, and Lab practices, policies and procedures. Will assist the Instrumentation & Calibration Group in maintaining required instrumentation documentation. Environment, Safety & Health Services Division.

DD7643. SECRETARIAL POSITION - (reposting) Requires an AAS in secretarial science, or equivalent experience, good communication skills, knowledge of Lab policies and procedures, and proficiency in word processing, preferably with Microsoft Word. Experience with the IPAP system is highly desirable, as is knowledge of e-mail, Excel, databases, WWW, and Latex for typing and editing technical papers. Will work for the international collaborations of ATLAS and BRAHMS: arranging conferences and meetings; coordinating domestic and foreign travel; arranging housing for visitors; preparing collaborator appointments; maintaining filing system; preparing and distributing collaboration reports; maintaining collaborator and publication lists; and performing some library functions. Physics Department.

**OPEN RECRUITMENT** - Opportunities for Laboratory employees and outside candidates.

MK7939. ECOLOGY ASSOCIATE POSITION - (term appointment) Requires a Ph.D. or equivalent experience in plant physiology, with several years of experience in creating GUI modeling software for physiologically based models, knowledge of the WIMOVAC system, and an ability to create innovative modeling tools with successful application on the Internet. Will be responsible for modeling various aspects of plant photosynthesis, with particular emphasis on the effects of global climate change. Department of Applied Science.

## Memorable Halloween Haunts



Last Halloween, when it was time for a little something to happen around the offices at BNL corner, Winnie-the-Pooh (Ann Fort) with (front, from left) Piglet (Kathleen Nasta), Tigger (Patty Van Gurp), Rabbit (Janice DePass), and Eeyore (Linda Thompson), along with (center, middle row) Christopher Robin (Sonja Santos), Kanga (Mary Anne Corwin) and (back) Owl (Barbara Roland) took time out to trick viewers into an A.A. Milne treat. For the eleventh year running, they took vacation time or came back from retirement to don costumes and spread the Halloween spirit around the Lab. Back in 1987, Fort, Jeanne Madaia, and Nasta first started this annual tradition by gyrating through the Lab as the never-to-be-forgotten California Raisins, and, with the help of many others, they have provided BNLers with hauntingly happy memories of Halloweens past ever since.

#### **Diwali Celebration**

To celebrate the beautiful Indian tradition of Diwali, the Festival of Light, the BERA Indo-American Association, along with the India Society at the State University of New York at Stony Brook, is offering an evening of Indian dances and music followed by an ethnic Indian dinner.

The festival will be celebrated on Saturday, November 7, in Berkner Hall. The admission charges of \$11 per adult and \$7 per child 5-12 years old include tea and snacks at 3 p.m.; entertainment, 3:30-6:30 p.m.; and dinner, 6:30-8 p.m.

Obtain tickets from Piyush Joshi, Ext. 3847; Kumi Pandya, Ext. 7734; and Geeta Tope, Ext. 5702.

#### **Wanted: Art Entries**

BNL artists and sculptors, enter your pictures, photos and sculpture in the BNL Art Society's Fall Festival of Art, to be at Berkner Hall, Monday-Wednesday, November 23-25. Exhibit hours will be 11:30 a.m.-1:30 p.m., with an evening reception 5-7:30 p.m. on Monday, November 23.

BNL employees, their family members 15 years and older, retirees and guests of BNL may contribute. Entries must be ready to hang.

Bring exhibits for the show to Room B, Berkner Hall, 1-3:30 p.m. on Friday, November 20. For the catalog, complete two forms for each work to be entered and return them by Friday, November 6, to Robert Chrien, Bldg. 510A. Forms are available at the BERA Store, Berkner Hall, or from Liz Seubert, Ext. 2346.