

Popular Science Magazine Honors BNL Inventions



James Veligdan, Department of Advanced Technology (DAT), is seated in back of a 10-inch prototype of his invention, the Polyplanar Optics Display (POD). His associates from DAT are: (from left) Lenny DeSanto, Cyrus Biscardi, Marcy Chaloupka and Cal Brewster. In the background is a 40-inch prototype of the POD. —Photos on this page by Roger Stoutenburgh

A grease-eating apparatus and a novel video screen, both developed by BNL with funding from the U.S. Department of Energy's Office of Energy Research Technology Research Program, have been picked by *Popular Science* magazine as two of the 100 most significant products and achievements of 1996.

To make their selections for the magazine's annual "Best of What's New" edition, the editors of *Popular Science* reviewed thousands of new products, technologies and scientific achievements. The December issue contains a 24-page special editorial section highlighting the magazine's selections.



In a laboratory in Bldg. 815, John Lucido of Environmental Solutions Corporation (second from left) discusses the EnSoL System (shown in the right foreground) with Department of Applied Science researchers (from left) Jeffrey Yablon, Eugene Premuzic, Mow Lin and Lucy Shelenkova, who developed the system with help from the Nesconset company.

At a luncheon and exhibition on November 12 at Tavern on the Green in Manhattan, *Popular Science* presented awards to Scientist Eugene Premuzic from BNL's Department of Applied Science, along with John Lucido and Daniel Keenan, Environmental Solutions Corporation, for development of the grease-eating EnSoL

System, and to Senior Research Engineer James Veligdan, from BNL's Department of Advanced Technology (DAT), for inventing the Polyplanar Optics Display, a flat-panel video screen. Dorry Tooker, Outreach Coordinator from the Lab's Office of Technology Transfer (OTT), also attended the event. (continued on page 2)

BNL Lecture: Investigating The Stratospheric Ozone Hole — On the Trail of Chemical Clues

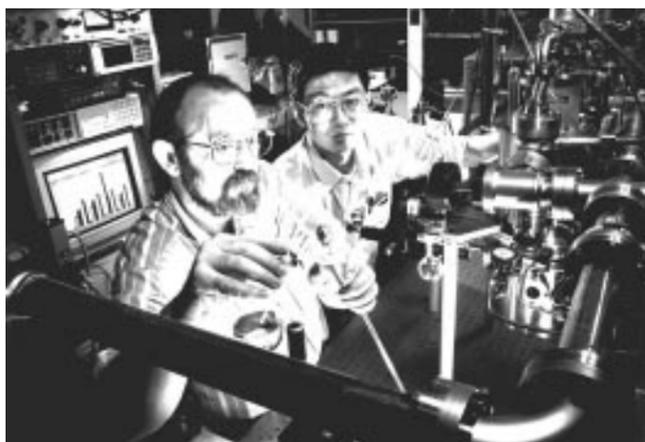
A noxious form of oxygen, ozone can form in smog, impairing people's vision and breathing. Yet, some 12 to 30 kilometers above the ground in the upper atmosphere, ozone is a boon — it protects life on Earth from such effects as skin cancer by absorbing the damaging ultraviolet radiation from the sun.

Also, by converting the absorbed energy into heat, ozone warms the stratosphere.

Damage to the ozone layer would imply not only increased cancer rates, but also a change in global climate.

Alarming, scientists have found that, each year since 1978, the ozone layer over the south pole has started thinning in spring, at some altitudes losing all of its ozone by October and forming what is known as the "ozone hole." Since 1974, scientists had recognized the potential for some ozone in the upper equatorial and midlatitude ozone layer to be destroyed by chlorine from chlorofluorocarbons, man-made chemicals used in aerosols. But what caused the much more serious ozone depletion over Antarctica?

Chemist Daniel Imre of the Environmental Chemistry Division in the



Dan Imre (left), Department of Applied Science, and Jun Xu, a graduate student from the State University of New York at Stony Brook, study aerosol particles and how their behavior can affect ozone depletion over the South Pole.

Department of Applied Science (DAS) will address this question in the 321st Brookhaven Lecture, on Wednesday, November 20. Imre will talk on "Is the Ozone (W)hole? From Ozone Depletion to Global Warming," beginning at 4 p.m. in Berkner Hall. He will be introduced by DAS Chairman James Davenport.

In his talk, Imre will describe the chain of events that forges the ozone hole: how icy temperatures within the vortex of winter winds cause polar stratospheric clouds to form, and how the clouds transform nonreactive, chlorine-carrying molecules into potential ozone destroyers, which, activated by spring sunlight, consume all the ozone by October's end. (continued on page 2)

McLane Wins Outstanding Woman Scientist Award

Victoria McLane, a senior physics associate in the Department of Advanced Technology (DAT), has won this year's Outstanding Woman Scientist Award from the Metropolitan New York Chapter of the Association for Women in Science.

Along with three other recipients, McLane was honored for her scientific contributions, and especially for her support and encouragement of women in the sciences, at a ceremony held in Manhattan on November 13. Louise Hanson, of BNL's Department of Applied Science and Office of Educational Programs, introduced McLane at the event.

McLane joins the ranks of Gertrude Scharff-Goldhaber, BNL's first woman Ph.D. physicist, and Jane Setlow of BNL's Biology Department, who both received this award in previous years.

McLane earned a B.A. in physics from Adelphi University in 1961. She joined BNL in 1962 as a physics associate in the then Department of Nuclear Energy (now DAT). Currently, McLane oversees the compilation and evaluation activities of neutron reaction data at DAT's National Nuclear Data Center, which publishes reference books and maintains an on-line database for 2,000 users.

In 1979, McLane cofounded Brook-

haven Women in Science (BWIS), and she has since been an active member and officer of this nonprofit advocacy group at BNL. In 1981, she founded the Renate W. Chasman Scholarship for Women, an award given by BWIS annually to a Long Island woman who has returned to college to study science after her schooling was interrupted.

McLane was also BNL's Women's Program Coordinator from 1993-96, and she served on the committee for the BNL Point-of-Contact to the U.S. Department of Energy (DOE) for Review of Laboratory Programs for Women, 1992-96. She was co-chair of that group's executive committee, 1994-96, and, 1995-96, she was chair of the BNL Planning Committee for the Fifth Review of Laboratory Programs for Women, held at BNL in May.

"The goal of these annual meetings is to provide DOE with up-to-date information on effective strategies and programs to improve women's access to careers in science and related fields, so that DOE can ensure that the national labs are exemplary places of employment for women," said McLane.

McLane is particularly proud of playing a part in setting up the Career Development Mentoring Pilot Program (continued on page 2)



Victoria McLane

*What Kind of Neighbor Are You? Rate Yourself!

**Simple, General Warning: This is a "message." You may damage your self-image if you read to the end and then don't bother to act on it . . .*

1. Your pleasant colleague at work is not handling an important project well. You:

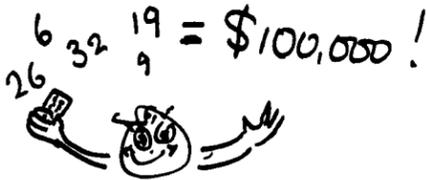
- take no notice.
- unobtrusively make helpful suggestions, but make sure that your name pops up by accident as the initiator of the improvements.
- unobtrusively make suggestions that you know will help, but keep your name out of it.

2. You won \$100,000 in the lottery. Your close neighbor is having a hard time out of work — but you have two kids in college and a very old car. You:

- use the whole sum for you and your family.
- consider offering your neighbor part of the windfall as an interest-free loan.
- actually succeed in getting your neighbor to accept an interest-free loan.

3. Your neighbors tell how wonderful some specialized agency was when an elderly relative got Alzheimer's, and you remember how the American Red Cross was right at the scene to help in the TWA Flight 800 disaster. You know that most service agencies have lost much of their state and federal funding and depend heavily on support from the United Way. You think:

- nothing like that will happen to my family. Even if it does, there's a lot of other people who earn more than I do who already donate. Maybe I'll do it next year.
- I already give to my church. OK, so that doesn't reach as wide a range of services to help Long Islanders as United Way does, but even if I did squeeze out another \$1 a week, it wouldn't make much difference (**Wrong!**).
- I've got a job and benefits, but most disasters that hit out of the blue take more than all that, even with a good savings plan. I'll help out United Way as much as I can. It's worth a few



dollars a week to keep the Long Island safety net as secure as possible.

Got the message? Please pledge a donation to the United Way on the forms that will be mailed to you today to kick off BNL's annual United Way campaign. This year's BNL goal is \$90,000 by December 20, but even the smallest amount you can afford will help you or your neighbors in time of need.

To get a feel for the wide range of services supported by the United Way to help Long Islanders, come to Berkner Hall lobby next Tuesday, November 19, 11 a.m. to 2 p.m., to see representatives from 10 agencies concerning, for example, retarded children, domestic violence, or foster grandparents. For more information, United Way personnel will be on hand in Room D, for two weeks, or call BNL's United Way Chair, Pete Esposito, Ext. 2879; Coordinator Ann Emrick, Ext. 5756; or your department or division United Way representative (if you don't know who that is, call Esposito). — Liz Seubert

Be a Blood Donor — Alisha Would!

Alisha Sussman is 12 years old, and some of the credit for that goes to BNLers who donated their blood to her.

Alisha, who is the daughter of Mitchell Sussman, Safety & Environmental Protection Division, was diagnosed with Acute Lymphoblastic Leukemia when she was five years old. In the difficult years that followed, Alisha had to undergo extensive chemotherapy treatments, which destroyed not only the rampant leukemia cells but also her healthy blood cells.

Thus, Alisha needed many blood transfusions, and BNL employees and their families made sure she had enough. Though four years have elapsed since her last chemotherapy session, Alisha still undergoes scheduled blood testing at Long Island Jewish Hospital. This screening period will last up to ten years before she is considered to be safe from a relapse.

In the meantime, says Mitch Sussman, "Thanks to the BNL employees who gave their support, prayers and help in our time of need, Alisha is living a very normal life — attending school, participating in Girl Scouts, enjoying music and playing



Alisha Sussman

soccer." A sixth-grader at North Country Junior High School in Miller Place, Alisha lives in Sound Beach with her parents, Mitch and Leslieann Sussman, and her brother, seven-year-old Aaron.

Brookhaven's upcoming Blood Drive — Tuesday and Wednesday, December 3 & 4, from 10 a.m. to 3 p.m., at the Brookhaven Center — is

your next chance to help other children who are still in need of blood. Alisha today is a healthy, happy and active child. But, whether it be from leukemia, hemophilia, accidents or other causes, many other children are still in desperate need of blood. You can make sure the blood is there when they need it by pledging to give blood.

Despite painful medical memories, Alisha confided that when she gets older, she plans to become a blood donor. In the meantime, she tries to give back to the community as a Girl Scout, through such activities as helping out at soup kitchens with her Girl Scout Leader — who is also her Mom.

"Through G-d's miracle of life, Alisha was able to overcome her illness, to touch and enlighten a magnitude of lives," said her father. "Again, we give our sincere thanks and appreciation toward our friends at BNL for being blood donors during our time of need. Thank you in advance for continuing to give to others in need."

In addition to giving blood at the upcoming Blood Drive, BNLers may also become part of the National Marrow Donor Program, a national registry to help all people with fatal blood diseases, but which is particularly short of registrants who are African-American, Asian/Pacific Islander, Hispanic or Native American.

To sign up for the bone marrow registry or the Blood Drive, complete and return the pledge card all employees received last week. If you have any questions, call Susan Foster, Human Resources Division, Ext. 2888, who organizes BNL's Blood Drive, or your department or division's Blood Drive captain (call Foster if you do not know who this is). — Anita Cohen

Healthline Lecture

Mediterranean Cooking Techniques

You've heard about the potential health benefits of the Mediterranean style of eating. And you've read about the importance of a low-fat diet. Now — for only \$4 — you can attend a deliciously informative workshop on the Mediterranean diet and how it can fit into your healthy life-style.

On Tuesday, November 19, Marlisa Brown, a registered dietitian with A Better You, will host a "lite" lunch along with an interactive workshop on Mediterranean cuisine. She'll offer simple techniques for you to take home, introduce the use of filo dough and some different herbs and grains, explain how much olive oil is a healthful amount, discuss how to put a Mediterranean meal together quickly and distribute recipes.

The program will start at noon, in Room B, Berkner Hall, with the \$4 registration fee payable at the door. Space is limited to the first 50 people who return the registration form on the bottom of the Healthline flier recently sent to all employees.

Founded in 1993, Environmental Solutions Corporation has over 200 clients in the New York and New Jersey areas who use the technology, including McDonald's franchises, Marriott Hotels and King Kullen supermarkets.

Thin Screen Displays Promise

Currently being developed for cockpit displays in U.S. Air Force airplanes by DAT's James Veligdan and his associates, Cyrus Biscardi, Cal Brewster, Marcy Chaloupka and Lenny DeSanto, Brookhaven's Polyplanar Optics Display has several other potential commercial uses. For example, it could possibly be used to make a six-foot wide television screen that is only four inches thick and would have excellent

picture quality. Other possible uses include video advertising displays, computers, and automotive-dashboard displays.

This display works by directing light from a laser or incandescent source to a scanner, which guides the light beam into the proper sector of laminated wave guides. Composed of multiple sheets of laminated glass or plastic, the wave guides direct the light to the screen for displaying the video image.

The new technology is eye-safe, high-contrast, and offers exceptionally wide viewing angles. The screen can be adapted to display 3D images. Also, it can be equipped with a laser or infrared pointer to make it interactive. The pointer would be used in much the same way a person working

Popular Science (cont'd.)

Environmentally Friendly System

Developed under a Cooperative Research and Development Agreement between BNL and Environmental Solutions Corporation of Nesconset, the EnSoL System is an environmentally friendly technology that uses nonpathogenic bacteria for processing restaurant and food-industry wastes.

With help from the Nesconset company, Premuzic and his associates — Mow Lin, Hsienjen Lian, Lucy Shelenkova and Jeffrey Yablon — devised the EnSoL system, a five-gallon incubator that nurtures about 90 trillion bacteria until they are at their peak of grease-eating power, then releases them into a drain system. The bacteria digest grease and solid waste, completely changing those pollutants to water-soluble, environmentally benign by-products.

EnSoL's biochemical processing is better for the environment than cleaning up wastes with harsh chemicals or by physical methods. While grease-eating microbes are not new, the EnSoL System improves the timing of the bacteria's delivery. This increased efficiency results in a better than 70 percent digestion of grease, substantially cutting the volume of solid grease waste sent to septic systems and municipal sewage treatment plants.

BNL Lecture (cont'd.)

As Imre will relate, research in DAS on the unique physics and chemistry of aerosols that make up these polar stratospheric clouds has uncovered a previously unsuspected phase that is predicted to be a highly potent chlorine activator. In demonstrating how new insights from his work on these processes fit into analyses of available historic and new data on ozone, Imre will show that this finding may explain the present discrepancy between field and lab observations.

Imre received his B.A. from the

University of Oregon in 1979, and his Ph.D. in physical chemistry from the Massachusetts Institute of Technology in 1984.

After five years' teaching at the University of Washington and two years at the University of California, Irvine, Imre joined BNL as a DAS associate chemist in 1992, and was named a chemist in 1994.

After the lecture, all are invited to join Imre for discussion and refreshments. Those wishing to have dinner with the speaker at a restaurant off site should call Maggie Marsch or Pat Kriss, Ext. 3275. — Liz Seubert

at a computer would use a mouse.

Patents and Proposals

Associated Universities, Inc., holds the patent properties covering the Polyplanar Optics Display, and it holds a joint patent with Environmental Solutions Corporation on the EnSoL System. This patent has been licensed to Environmental Solutions Corporation.

OTT is currently soliciting proposals for licensing and commercialization of the novel video screen. A prospectus on the technology is available by calling OTT at Ext. 5217. All proposals must be submitted by December 31, 1996. — Diane Greenberg

McLane's Award (cont'd.)

gram, which began in DAT this June.

"The Lab has a lot of talented people who would benefit from mentoring," said McLane. "Minorities and women are usually less visible in the workplace, and the mentoring relationship could provide them with more visibility and networking opportunities. By starting this program, which now involves four mentor-mentee pairs, I believe we are boosting employees' morale and helping them to develop important business skills and relationships." — Diane Greenberg

Enjoy Action and Art at Crafts-96 Show

Glass, exquisite and fragile, will be a star attraction among the many beautiful and interesting crafts to be displayed at the Art Society's Crafts-96 Show, Monday through Wednesday, November 25-27.

Designed and handblown by Barry Lafler, a scientific glassblower in the Chemistry Department for 28 years, delicate stemware and other examples of his creativity will be on view daily, 11:30 a.m.-1:30 p.m., and 5:30-7:30 p.m. at a reception on Monday evening.

At the reception, as you sip wine or coffee and partake of homemade hors d'oeuvres, you will also be able to watch Lafler at work with his blowtorch,

fashioning original and amusing beads and other items, just as he does in his home studio or at local craft fairs, where he often sets up his stall on weekends.

For example, Lafler will be blowing glass this weekend, November 16-17, at the 80-stall Craft Fair in the sports stadium at the State University of New York at Stony Brook.

Among the many other talented BERA exhibitors who will amaze and delight you with their skillful workmanship will be another master craftsman, Bob Dillingham.

Having retired from the Instrumentation Division's machine shop in 1977,

he'll be back at BNL for the Monday reception, to demonstrate the working miniature core-less steam engine he designed and machined out of solid bronze and brass.

At 100 pounds of steam or air and 150 rpm, Dillingham's engine actually reaches two horsepower.

—Liz Seubert



Glassblower Barry Lafler in his home studio.

Computing Corner

The following events have been scheduled by the Computing & Com-

munications Division (CCD):

MIX Meeting

The next Monthly Information

eXchange (MIX) meeting with CCD will be on Wednesday, November 20, at 11 a.m., in Room B, Berkner Hall. Discussion topics will be the BNL 3D Vis/Multimedia Lab and network news. All are welcome to attend.

PC Training Classes

The following PC training classes are scheduled for next month:

Dec. 3	Word, beginner
Dec. 4	Excel, beginner
Dec. 5	WordPerfect 6.1, intermediate
Dec. 9	Windows 95, basics
Dec. 11&12	ACCESS, beginner
Dec. 16	PowerPoint, beginner
Dec. 18&20	ACCESS, intermediate

The fee for each day of training is \$177.75. To register for a class, send a completed training request form to Pam Mansfield, Bldg. 515. For more information, contact your department/division training coordinator, or call Mansfield, Ext. 7286.

In Stormy Weather

Listen to:

Station	Area	AM	FM
WALK	Patchogue	1370	97.5
WBAB	Babylon	1440	102.3
WBLI	Patchogue		106.1
WBZO/B103	Suffolk/Nassau		103.1
WCTO/WGSM	Smithtown	740	94.3
WHFM	Southampton		95.3
WHLI/WKJY	Hempstead	1100	98.3
WLIM	Patchogue	1580	
WLIX	Islip	540	
WLNG	Sag Harbor	1600	92.1
WRCN	Riverhead	1570	103.9
WRIV	Riverhead	1390	

Or call: 344-INFO*

*Dial the letter O, not zero!

Sunday: Special BERA Concert

Two promising musicians from the State University of New York at Stony Brook — violinist Sif Tulinius and pianist Naomi Niskala — will be featured at the second BERA concert of the 1996-97 season. The concert will be held this Sunday, November 17, at 2 p.m. in Berkner Hall.

The program includes three duets: *Beethoven's Sonata for Piano and Violin, Op.30, No.1*; *Szymanowski's Mythes*; and *Brahms's Sonata for Piano and Violin, Op.78*; and one composition for violin only: *Bach's Sonata No. 1 in G minor*.

Tickets may be purchased at the door for \$6 general admission, and \$3 for students, youths under 18 and seniors.

This year, BERA has instituted a telephone line for information about upcoming concerts, including cancellations due to inclement weather. For an up-to-date recorded message, call 344-3550.

Healthfest '96 — Four Days of Health, Safety & Fitness

This year's Healthfest, BNL's fourth celebration of personal health, fitness and safety, drew a healthy crowd of employees to the weekday activities, and, despite the rain, an enthusiastic group of employees and their families to the Saturday festivities.

Lasting four days, October 16-19, Healthfest '96 began on Wednesday with 100 employees stretching before the Employee Fitness Walk, in which 320 BNLers paced themselves over 2 miles.

Then, on Thursday, the pre-run stretch involved 35 BNLers, while 97 completed the 5-kilometer Employee Fitness Run.

This year, the first person to cross the finish line was Jennifer Schretzmayer, Chemistry Department, who, with a time of 17:43, was the first woman to win the run in its four-year history.

The two-day Health, Fitness & Safety Fair in Berkner Hall drew 36 exhibitors and approximately 450 employees on Friday. Some 150 adults and their children came to the Lab for Healthfest's family day on Saturday.

During the days of the fair, some 30

employees took part in the stress management and relaxation techniques workshop, 13 BNLers and their family members completed the Reiki healing circle, 80 attended the podiatry screening, another 75 had their hearing tested, and some 70 had their body composition analyzed. Of the 114 who had their blood pressure gauged, 40 were referred for medical attention due to elevated levels.

Due to Saturday's heavy rain, the Tennis Tune-Up & Fun Doubles and the 10-mile Individual & Team Fitness Biathlon were canceled.

"Again, this year, Healthfest was a success due to the volunteers who organized the events, the exhibitors that spent two days at the Lab to share their knowledge and expertise with us, and all the participants — Lab staff and their families — who got into the spirit of the week," says Mary Wood, BNL's Health Promotion Specialist in the Occupational Medicine Clinic (OMC), who chaired the Healthfest '96 planning committee.

That committee was co-chaired by Richard Machnowski, Instrumentation Division, and involved: Marsha



During Healthfest's Health, Fitness & Safety Fair, massage therapist Nicole Bernholz of the Loving Touch Center in Setauket, who is also a project engineer in the Safety & Environmental Protection Division, demonstrated how the technique stimulates circulation, increases suppleness and enhances relaxation.

Belford, Public Affairs Office; M. Kay Dellimore, Recreation Office, Human Resources (HR) Division; Denise DiMeglio, HR; Renée Flack, Office of Educational Programs; Patricia Flood, Information Services Division; D.J. Greco, Director's Office; Claudia Hatton, Chemistry; Augie Hoffman, Physics Department, representing the Brookhaven Employees Recreation Association (BERA); Fredrick Horn, Safety & Environmental Protection Division; Donna-Ree Rodriguez, Computing & Communications Division; Christine Ronick, Administrative Support Division; Richard Rosetti, Safeguards & Security Division (S&SD); Jack Russell, Division of Contracts & Procurement; Camille Saville, OMC; Edward Sperry IV, Relativistic Heavy Ion Collider Project, representing BERA; and Michael Timm, S&SD.

Overseeing the planning committee is the Healthfest executive committee: Bryce Breitenstein, OMC Manager; Robert D'Angio, HR Manager; Sue Davis, Associate Director for Reactor, Safety & Security; and Richard Setlow, Associate Director for Life Sciences.

— Marsha Belford

Healthfest '96 — Results of the 5-K Employee Fitness Run

Jennifer Schretzmayer	17:43	John Skonieczny	20:52	Barry Karlin	23:41	Kathy Blackett	25:45	John Mollica	26:53
Donald MacKay	17:48	Jerry Hastings	21:11	Michael Anerella	23:45	David Diamond	25:49	Peter Palamidis	27:02
Donald Shea	18:01	Prasil Ondra	21:18	John Flannigan	23:47	Peter Komut	25:49	Joyce Towell	27:03
Paul Geiger	18:12	John Escallier	21:21	Raymond Duffield	23:59	Alessandro Ratti	25:49	Swapna Mukherji	27:11
David Phillips	18:16	Bom Soon Lee	21:23	Jeffrey Coderre	24:15	Craig Diaz	25:53	Anthony Tanza	27:22
Emmanuel Onillon	18:21	Ed Gallagher	21:24	Michael Furey	24:16	David Cox	26:02	George Walczyk	27:26
Michael Mapes	18:24	Diane Hatton	21:24	Mow Lin	24:26	Joseph Pagano	26:19	Kelli Stauning	28:35
Wayne Rambo	19:33	Paul Lageraen	21:27	Bhavesh Patel	24:36	David Pate	26:27	John Toner	28:35
Michael Brennan	19:41	Bill Thomlinson	21:30	Weimin Zhou	24:47	Lisa Miller	26:27	Walter Grossman	29:03
Paul Montanez	19:49	Edward Sierra	21:49	Joseph Klemish	24:48	Roger Davis	26:28	Vincent LoDestro	29:16
Michael		John Bohenek	22:06	John Duggan	24:49	Sharon Wang	26:30	Joseph DeVoe	29:16
DePhillips	20:06	Neil Wade	22:08	Pooran Singh	24:58	Sheryl Carey	26:41	Jack Brennan	30:08
Wolfgang Daliebe	20:13	Alice Ciaella	22:12	Gary Nintzel	25:13	Richard Conte	26:46	Inan Feng	32:07
Michael		Seth Nemesure	22:44	James Hainfeld	25:19	John Taylor	26:46	Jack Russell	32:07
Fulkerson	20:49	Thomas Clifford	22:50	Michael Sypes	25:34	Randolph Church	26:48	Bonnie McGahern	33:31
		Peter Cameron	23:27	Robert Sikora	25:42	Samuel Velazquez	26:49	David Alburger	34:08
		Jacek Capala	23:33	Michael Paquette	25:42	Patricia Rogers	26:50	Y.Y. Chu	36:27

Please note: Fewer than 97 runners are listed because some participants did not report their names upon finishing.

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BWIS Meeting Thyroid Disease In the Marshallese

Jean Howard, a medical oncologist in the Medical Department, heads the BNL team that goes to the Marshall Islands annually to monitor health effects in people who were exposed to fallout following a 1954 nuclear weapons test on Bikini Island.

Having recently returned from this year's mission, Howard will speak about "Thyroid Disease in the Marshallese," at a Brookhaven Women in Science (BWIS) meeting on Thursday, November 21, at noon, in Room B, Berkner Hall.

Howard, who joined Medical as a scientist in 1991, earned her B.A. in 1962, at the University of California, Berkeley; her M.S. in 1964, at Yale University; and her M.D. degree in 1969, at the University of California, San Francisco.

All are invited; please bring your lunch.

Note to Employees:

Attendance at lectures, meetings and other special programs held during normal working hours is subject to supervisory concurrence.

Run the Stop Sign, Get a Ticket

The four-way stop at the intersection of Brookhaven Avenue and Center Street has been in effect since mid-July, but some people are still going through the intersection without heeding the stop signs, said Al Berretta, Manager of the Police Group in the Safeguards & Security Division (S&SD). So, to remind BNL drivers of the stop signs' importance, S&SD is now citing violators with tickets.

Until now, drivers have been alerted to the upcoming four-way stop by red flags positioned before it.

But these flags are now down, so BNL drivers are asked to be particularly vigilant in remembering to stop before entering this intersection from any side.

"It's not just a matter of law — it's a matter of safety," said Berretta. "We have chased down several violators, and there have been some real close calls. We don't want anyone killed."

Calling All Carolers

The BNL Choral Group will present its annual Christmas Concert in the Cafeteria, at the special Christmas luncheon scheduled for Wednesday, December 18.

Rehearsals for this concert will be held at noon sharp as follows: Tuesday, December 3; Thursday, December 5; Tuesday, December 10; Thursday, December 12; and Tuesday, December 17.

All rehearsals will be in Berkner Hall except on December 10 and 17, which will be in the North Room, Brookhaven Center.

Singers are needed for all parts: soprano, alto, tenor and bass. For more information, call Janet Sillas, Ext. 2345; Kara Villamil, Ext. 5658; or John Weeks, Ext. 2617.

Volleyball

Standings as of November 7

Open League		League I	
Shank, Carry & Throw	14-1	Bikers 'n Spikers	10-2
Pass, Set & Crush	8-7	Rude Dogs	11-4
Far Side	7-8	Scared Hitless	8-7
Death Volley	5-7	Set to Kill	4-11
Spikers	2-13	Net(e)scapers	3-12
League II		League III	
Spiked Jello	12-0	Silver Bullets	12-0
Safe Sets	9-0	Upton Ups	11-1
Jao-About-That	8-4	Just 4 Fun	7-5
Nuts & Bolts	6-6	Group Sets	6-6
Fossils	4-5	New Comers	6-6
Monday Nite Live!	3-6	Court Hogs	3-9
Lift, Carry, Throw	4-8	OER	3-9
Jolly Vollies	1-8	Over-in-Three	0-12
Night Court	1-11		

Fall Bake Sale

The Upton Nursery School (UNS) will hold its annual Fall Bake Sale on Thursday, November 21, from 11:30 a.m. to 1:30 p.m. in the lobby of Berkner Hall. Proceeds will be used to buy much-needed equipment for the school.

Open to children of Lab and AUI employees, guests and on-site contractors and their families, UNS is a non-profit cooperative nursery school operating September through June, Monday, Tuesday and Thursday from 8:30 to 11:30 a.m. For more information, contact the UNS registrar, Ivana Zezulkova, Ext. 1031, or UNS president, Sue Ellen Gerchman, 929-3732.

Microcomputer Club

Ralph Fullwood will give a presentation about "Getting Started in Visual Basic," at the next meeting of the BNL Microcomputer Club, on Thursday, November 21, at noon, in the second floor conference room of the Computing & Communications Division, Bldg. 515. Fullwood will present software written for a substance-abuse contract, give reading references and demonstrate some simple operations.

All are welcome; please bring your lunch. For more information, contact Steven Stein, club president, Ext. 5694 or stein1@bnl.gov. Or visit the club's website at: <http://sun20.ccd.bnl.gov/~bnlmcc/>.

Amateur Radio

The BERA Amateur Radio Club will next meet at noon on Thursday, November 21, in Room C, Berkner Hall. All BERA members and licensed amateur radio operators are invited to attend.

For more information, call Chris Neuberger, Ext. 4160, or Nick Franco, Ext. 5467.

Book Fair Next Week

On Thursday and Friday, November 21 & 22, BERA will sponsor a Book Fair, featuring new, hardcover books ranging from children's stories to cookbooks to *New York Times* best-sellers. At a 50-70 percent reduction, these books will be in stock, ready for immediate purchase.

Review a list of available books and a small, pre-sale display at the BERA Sales Office, Berkner Hall, from 9 a.m. to 1:30 p.m. weekdays, until the first day of the fair.

For more information, call Andrea Dehler, Ext. 3347, or Kay Dellimore, Ext. 2873.

Arrivals & Departures

Arrivals

Christopher C. Homes.....Physics
Min Li.....Advanced Technology
Joseph P. Lipski.....Comp. & Comm.

Departures

This list includes all employees who have terminated from the Lab, including retirees:

Patricia A. Cotton.....Director's Off.
Paul Mancini Jr......Financial Serv.

Classified Advertisements

Placement Notices

The Laboratory's placement policy is to select the best-qualified candidate for an available position. Consideration is given to candidates 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, handicap or veteran status.

Each week, the Human Resources Division lists new placement notices, first, to give employees an opportunity to request consideration for themselves through Human Resources, and second, for general recruiting under 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, or call the JOBLINE, Ext. 7744

(344-7744), for a complete listing of all openings.

Current job openings can also be accessed via the BNL Home Page on the World Wide Web. Outside users should open "<http://www.bnl.gov/bnl.html>", then, under "Information," select "Jobs." For scientific staff openings, select "Scientific Personnel Openings"; for all other vacancies, select "General Personnel Openings."

OPEN RECRUITMENT - Opportunities for Laboratory employees and outside candidates.

NS 4729. PROGRAMMER/ANALYST POSITION - Requires a BS in computer science or the equivalent, a minimum of two years' applicable work experience, and a thorough knowledge of WAN/LAN routing and TCP/IP protocols. Knowledge of ATM, FDDI, SNMP network-management software and experience administering firewalls is preferred. Programming experience with C, C++, Java and Perl is a plus. Responsibilities include router configuration, technology evaluation, and network monitoring and troubleshooting. Computing & Communications Division.