

Scientists Reveal How Germs Disrupt Cells' Distress Signals

Deadly mechanism, shared by plant and animal pathogens, may yield target for new drugs

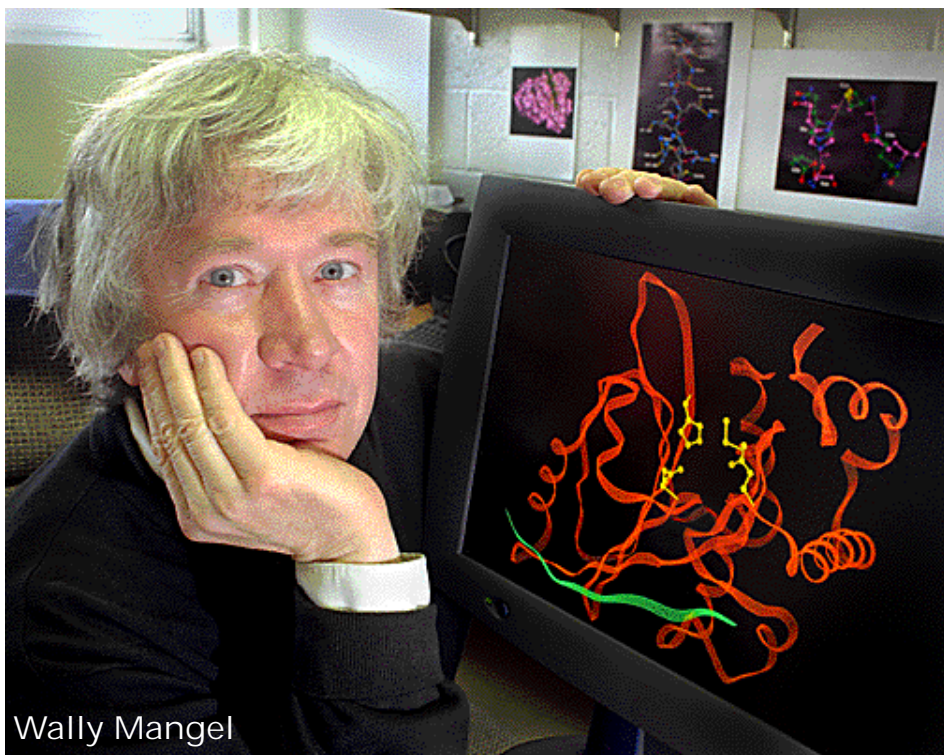
Scientists studying the germs that cause the Black Plague, plant infections, and colds have discovered that these three very different microorganisms share a common strategy: they all prevent the cells they are attacking from calling out for help.

In a paper appearing in the November 24 issue of *Science*, the scientists describe how all three microorganisms produce a similar protein to interfere with the infected cells' chemical-signaling pathways, which are designed to alert the immune system to attack the germs.

"Who would have predicted that these three, diverse pathogens would use the same protein to disrupt the same pathways to disable cell functions?" asks BNL biologist Walter Mangel, one of the collaborators.

They all prevent the cells they are attacking from calling out for help.

Understanding this common mechanism may provide scientists with a new target for combatting infections. The work may also provide insight into how cells communicate in diseases such as cancer.



Wally Mangel

Roger Stoutenburgh CN11-227-00

BNL biophysicist Wally Mangel displays a ribbon diagram of the three-dimensional structure of the adenovirus proteinase. The structure was determined at the NSLS with Bill McGrath and Bob Sweet. The subject of the article in *Science* is that YopJ, a protein from the bacterium that causes plague, was shown to be similar to the adenovirus proteinase.

Mangel and BNL biologist William McGrath began investigating an enzyme from adenovirus, a cold virus, in 1991. They showed that this enzyme was unique in its genetic sequence and its three-dimensional structure as determined at the National Synchrotron Light Source. They postulated that four crucial amino acids in the enzyme's active site gave it its ability to cleave proteins, an essential step in infecting cells.

Then, one day last year, Mangel received an e-mail from Jack Dixon, a microbiologist at the University of Michigan, who knew about Mangel's research and believed he was working with a

similar enzyme. This enzyme was produced by *Yersinia*, the bacteria that cause the Black Death, or the plague.

Dixon had already shown that the *Yersinia* enzyme, called YopJ, interrupted key signaling pathways in infected cells, effectively disabling the host's immune response. But he wasn't sure how it worked. If YopJ is similar to the adenovirus enzyme, he reasoned, then those four amino acids crucial to the adenovirus enzyme should also be crucial to YopJ.

To test this hypothesis, Dixon mutated each of the four amino acids. None of the four mutants of YopJ was able to block the immune response. This showed that the four criti-

cal amino acids are essential to YopJ's ability to disrupt the cells' signaling pathways.

"Who would have predicted that these three, diverse pathogens would use the same protein to disrupt the same pathways to disable cell functions?"

And, it turns out, adenovirus and *Yersinia* are not alone. Homologous enzymes produced by plant pathogens and plant symbionts (microbes that "infect" but live in harmony

(continued on page 2)

Nora Volkow Elected to the Institute of Medicine



Nora Volkow

Roger Stoutenburgh CN12-10-99

Most recently, Volkow was one of four Long Island women honored by the Long Island Fund for Women and Girls at their sixth annual "Women Achievers Against the Odds" breakfast on November 15, at the Huntington Hilton. The nonprofit fund also awarded \$70,000 in grants to nonprofit organizations, the projects of which are in harmony with its goal of improving the lives of women and girls throughout Long Island.

Nora Volkow, Associate Laboratory Director for Life Sciences, has been elected a member of the Institute of Medicine of the National Academy of Sciences. Volkow is one of 70 members elected to the Institute this year.

Members are elected by the current membership based on professional achievement and demonstrated interest, concern, and involvement with problems and critical issues that affect public health. Currently, the Institute has 1,380 members.

"I'm honored to be elected to the Institute of Medicine, and I plan to participate actively in it," Volkow said. "I am committed to the Institute's goals of advancing health sciences and education, and improving health care."

A board-certified psychiatrist and a world leader in research on addiction, Volkow uses positron emission tomography (PET) to view how addictive drugs affect the brain. She is credited with being one of the first researchers to report that cocaine is toxic to the human brain. She has also used PET in pioneering studies of the biochemical changes in the brain associated with alcoholism and aging. Her studies are focused on finding an effective pharmacological treatment for addiction, and could aid in finding avenues for delaying and counteracting the deleterious effects of aging.

Volkow joined BNL in 1987, with a joint staff appointment in USB's Department of Psychiatry. Among her awards have been BNL's 1995 Distinguished Research & Development Award, the 1998 Brookhaven Town Award honoring women in medicine, the Society of Nuclear Medicine's 1999 Kuhl-Lassen Award for her pioneering work on the brain, and the American College of Psychopharmacology's Esker Award for her contributions to drug abuse research. —Diane Greenberg

Community Advisory Council Energy Forum, 12/5

With headlines warning of global warming and high oil prices, the community is asking questions about the future of energy production and its impact on Long Island and Long Islanders.

To encourage dialogue on this topic, the Community Advisory Council to BNL (CAC) invites the public to attend its Energy Forum, which begins at 7 p.m. on Tuesday, December 5, with the topic "Energy and the Environment: Sustainable Future vs. Global Demise."

Taking place at the Longwood Middle School, the forum will open with presentations by environmental scientist Richard Wolfson of Middlebury College and Gordian Raacke, executive director of a Long Island energy watchdog group. The public will be invited to join the discussion through a question-and-answer session.

Wolfson is a well-known physicist, teacher, and author. He has written books and articles about solar-energy engineering, nuclear technology issues, and climate change.

Raacke is the executive director of the Citizens Advisory Panel, a court-appointed consumer-advocacy group that now focuses on the Long Island Power Authority. He is an expert on electric utility regulation and energy technology.

Composed of 32 Long Island advocacy organizations, the CAC advises BNL Director John Marburger on various issues.

The Longwood Middle School is located on Yaphank-Middle Island Road, about one-quarter mile south of Route 25, Middle Country Road.

For more information on the forum, call Jim Hurst at Ext. 3844, or Connie Keper at 924-1427.

Coming Up

Noon Music Recital
Jaques Thibaud String Trio
next Wednesday
See story inside . . .



Blood Drive
Thursday, December 14
See note inside . . .

Calendar
of Laboratory Events

- The BERA Sales Office is located in Berkner Hall. It is open on weekdays from 9 a.m. to 3 p.m. For more information on BERA events, contact Andrea Dehler, Ext. 3347 or M. Kay Dellimore, Ext. 2873.
- Additional information for Hospitality Committee events can be found at the Lollipop House and the Laundry Room in the apartment area.
- The Recreation Building is located in the apartment area.
- Calendar events flagged with an asterisk (*) have a longer story appearing in this week's Bulletin.

— EACH WEEK —

Tuesdays: Welcome Coffee

10-11:30 a.m. Recreation Bldg. Newcomers meet friends. Mimi Luccio, 821-1435 — Hospitality event

Wednesdays: On-Site Play Group

9:30 a.m.-11:30 a.m. Recreation Bldg. Parents can meet while children play. Free, drop in any time. Monique de la Bey, 399-7656. — Hospitality event.

*Wednesdays: Dance Club

Brookhaven Center North Room Latin & Swing Dance Club - American bolero & tango I Beginner Lessons 6-7 p.m. \$30 per person for 8 classes Marsha Belford, Ext. 5053.

Wednesdays: Yoga Practice Sessions

Free, 12:10-12:50 p.m. Recreation Bldg. More information: Ext. 3924.

Tues. & Thurs: Aerobic Dance

5:15 p.m., Recreation Bldg. \$4 per class or \$35 for any 10 classes. Pat Flood, Ext. 7886, Susan Montelone, Ext. 7235.

Mondays & Thursdays:

*Christmas Concert Rehearsals

From 11/27 to 12/18 at noon in Berkner Hall. Liz Seubert, Ext. 2346 or Bob Miltenberger, Ext. 2503.

Mon., Tues., & Thurs:

Cardio Kickboxing

Day Classes: noon-1 p.m. Mondays and Thursdays Evening Classes 5:15-6:15 p.m. Tues. & Thurs. Mary Wood, Ext. 5923, wood2@bnl.gov.

— NEXT WEEK —

Tuesday, 12/5

*Healthline Lecture

noon-1 p.m., Berkner Hall "Providing Financial Protection for You and Your Family" presented by Franklin Federmann. Check your mailbox for registration forms. For more information call Ext. 5923

*Pre-Retirement & Estate Planning

5:30-7:30 p.m., Berkner Hall Check your mailbox for registration forms. Joyce Wund, Ext.7516.

*CAC Energy Forum

7 p.m. Longwood Middle School. "Energy and the Environment: Sustainable Future vs. Global Demise." Jim Hurst, Ext. 3844 or Connie Kepert, 924-1427.

Wednesday, 12/6

*Noon Recital

Jaques Thibaud String Trio noon, Berkner Hall, free.

2000 Healthfest
BNL Health, Fitness & Safety Fair



Michael Herbert CNY1-162-00

Racing toward the finish line are several of the 150 BNLers who participated in the eight-mile mountain bike ride, which took place on the Lab's firebreaks during Healthfest.

Healthfest 2000 — A Week Of Health, Fitness & Safety

Healthfest 2000 — BNL's annual celebration of personal health, fitness, and safety — again drew a healthy crowd of employees, facility-users, and retirees to all of its offerings, inside and out.

Stretching from October 23 to 27, Healthfest began that Monday with 322 completing the two-mile Fitness Walk. On Tuesday, 74 runners competed over a five kilometer course during the Fitness Run, which was won by Peter Pohlot in 17:08. The fastest woman was Sharon Zuhoski, with a time of 20:47 (see results, below). The stretch clinics held before both events drew 80 participants total.

Then, on Wednesday and Thursday, some 500 BNLers attended the two-day Health, Fitness & Safety Fair, sampling the information and activities in Berkner Hall offered by 44 exhibitors, which was a record.

During the fair, 303 people took part in the water-tasting contest (see results in next Friday's Bulletin), 200 had their body composition analyzed, 120 had their blood pressure measured, 62 experienced a massage, 32 had their hearing

screened, 32 attended the podiatry screening, and ten attended the stress-management workshop.

Meanwhile, on Wednesday during the first organized Healthfest mountain bike ride, 150 cycled five to eight miles on the Lab's firebreaks. Then, on Thursday, 20 tennis players worked on their serve, forehand and backhand during an on-court workshop. Finally, on Friday, 33 golfers practiced their swing and strokes under the watchful eye of a professional during a clinic.

During the festivities, 750 T-shirts were awarded for participation, over 70 raffle prizes given away, and some 20 cartons worth of donated Snackwells were consumed.

According to the more than 150 evaluations that have so far been received by Healthfest organizer and Health Promotion Specialist Mary Wood, Occupational Medicine Clinic, the week was once again worthwhile. Many were motivated to make certain positive changes in their health habits.

"As one evaluator wrote,

"The week was perfect, and the friendliness engendered a great spirit,' and I couldn't have said it better myself," comments Wood, who thanked Healthfest co-chair Richard Machnowski and the Healthfest 2000 organizing committee and some 60 volunteers for their efforts. "They made the eighth annual Healthfest happen, as we could not have done it without each and every one."

In addition to Wood and Machnowski, the Healthfest 2000 organizing committee included: Patti Bender, Nicole Bernholz, Sharol Busby, Joe Carbonaro, Sheryl Carey, Nancy Concadoro, M. Kay Dellimore, Jack Ellerkamp, Denise Di Meglio, Y. Renée Flack, Pat Flood, Diane Greenberg, Augie Hoffmann, Claudia Hatton, Peter Pohlot, Chris Ronick, Jack Russell, Ed Sperry, Laura Miller, Kevin Wolniewicz, Jeff Williams, and Kevin Wolniewicz.

Overseeing the organizers is the Healthfest executive committee, which included: Bryce Breitenstein Jr., Ken Brog, Bob D'Angio, Greg Ogeka, and Tom Sheridan. —Marsha Belford

Germes (cont'd.) with plant cells) have the same arrangement of the four critical amino acids. This work was done by scientists at Michigan and the University of California at Berkeley.

"All these data strongly suggest that, like the adenovirus enzyme, YopJ and the enzymes of the plant pathogens are acting as proteinases, enzymes that cleave proteins, to disrupt universal cell-signaling pathways," Mangel says.

The findings may be useful in medicine. "Knowing how cells communicate with each other should allow the development of means to prevent communication, for example to prevent cancer cells from communicating with each other," adds Mangel. "And if cancer cells can't talk to one another, then they might not be able to grow into tumors."

Already, Mangel's laboratory has synthesized drugs that inhibit adenovirus proteinase. "It will be interesting to see what these drugs do with the *Yersinia* and the plant pathogens," he says.

The study was funded by the National Institutes of Health, DOE, and the Walther Cancer Institute. The State University of New York at Stony Brook was an additional collaborator.

— Karen McNulty Walsh

Afro-American Club
Holiday Program

The Afro-American Culture Club will host a holiday program on December 16, at 3 p.m., in Berkner Hall, to benefit underserved community children 12 and under.

The theme of the program is "The Gift of Giving." BNL's Gospel Choir will participate in the program. Santa will give each child a holiday gift.

To make this program a success, the club appreciates the sponsorship of children by BNL employees. Contact one of the following members to sponsor a child:

Carol Bell, Ext. 2587
Shelby Bowers, Ext. 4660
Robert Brown, Ext. 4216
Leon Lawrence, Ext. 2907
Arlean Vanslyke, Ext. 4267
Ralph Wilson, Ext. 3900.

In Memoriam

Elma Karlund came to the Human Resources Division on 11/20/1987, retired as a senior secretary from the Department of Nuclear Energy on 10/1/1998, and died at age 56 on 9/23/1999.

Fred Hohmann, who had joined the Fiscal Division as senior auditor on 6/26/1961, died at 68 years old on 1/23/2000. He had retired as Fiscal Coordinator on 8/19/1994.

Richard McCluskey joined the Plant Engineering Division on 5/31/1967, retired as a technical associate II in the Relativistic Heavy Ion Project on 9/30/1996 and died on 2/26/2000. He was 58 years old.

2000 Healthfest 5-kilometer Fitness Run Results

Peter Pohlot	17:08	Daniel Weiss	23:06	John Ostaszewski	27:01
John Robinson	17:55	Alice Cialella	23:11	Tom Clifford	27:08
Martin Von Zimmermann	18:19	Richard Wagener	23:21	Wen-Shi Yu	27:10
Richard Ferrieri	18:38	Neil Wade	23:45	Kevin Fox	27:11
Paul Geiger	18:44	Barry Cornell	23:50	Robert Sikora	27:24
Wolfgang Caliebe	19:38	Peter Cameron	23:51	Ali Lopez	27:29
Joseph Nasta	19:44	Barry Karlin	23:59	John Dunn	27:32
Matt LaBorg	19:53	Jay Adams	24:01	Craig Diaz	27:41
Tim Morrin	20:02	David Graham	24:30	Richard Izzo	27:49
Kevin Corbett	20:05	Frank Marotta	24:32	Steve Shapiro	27:53
Victor Usack	20:25	Wei-Min Zhou	24:47	Swapna Mukherji	28:02
Sean Kelly	20:26	Robert Litzke	24:48	Pat Snyder	28:04
Sharon Zuhoski	20:47	Lisa Miller	25:02	Michael Zarcone	28:05
Gene Van Buren	21:03	Stuart Carroll	25:05	David Pate	28:30
Tim Powers	21:07	Leif Ahrens	25:10	Jim Hainfeld	28:50
Roger Davis	21:08	Ben Ocko	25:27	Lisa Jansson	28:56
John Bohenek	21:31	Tony Tanza	25:35	Ken Perkins	29:00
James Alessi	21:41	Ray Duffield	25:39	Margareta Rehak	30:08
David Phillips	21:47	Peter Kohut	25:44	Kelly Guiffreda	31:46
John Young	21:51	Jeff Mitchell	25:59	Kathy Tuohy	32:13
Seth Nemesure	22:05	Kurt Netter	26:38	Jack Russell	32:57
Bill Reeside	22:13	Gary Nintzel	26:42	Peggy Micca	33:11
David Morrison	22:28	Doug Zibrosser	26:43	Beth Yu Lin	34:18
John Dabrowski	22:46	Jon Laster	26:50	Dave Alburger	34:58
Tom Butcher	22:47	Michael Villaran	26:52		

BWIS Seminar
Metalworking Practices Used by Natives

Brookhaven Women in Science will sponsor a seminar on metalworking practices used by the Native Illinois in 1640-1683, presented by anthropologist Kathy Ehrhardt on Thursday, December 7, at 11 a.m. in the Hamilton Seminar Room, Bldg. 555. Coffee and cookies will be served in the lobby before the seminar.

In her talk, the speaker will explore how the Great Lakes Indian tribe, the Illinois, made metal artifacts, and the ways in which the artifacts were used by this tribe during the mid-seventeenth century. Several techniques have been used to determine the origin of the material in these artifacts, including low-power microscopy, metallography, proton-induced x-ray emission spectroscopy, and neutron activation analysis.

Ehrhardt holds a B.A. and M.A. in anthropology from Montclair State University and New York University, respectively. For the past six years, she has been excavating materials and analyzing them at the Illiniwek Village Historic Site, Clark County, Missouri, a large Illinois Indian village visited by Marquette and Jolliet during their historic exploration of the Mississippi River in 1673. Ehrhardt teaches part-time at Montclair State University, and she is a Ph.D. candidate at New York University.

Contact Stephanie LaMontagne, Ext. 7141, to join the speaker for lunch following the seminar.

Blood Drive, 12/14

The Lab will hold its fall blood drive on Thursday, December 14, from 9:30 a.m. to 3 p.m. in the Brookhaven Center. To make an appointment, send an e-mail to donate blood@bnl.gov, or contact Sue Foster, Ext. 2888.



BERA Holiday Party

The 3rd Annual BERA Holiday Party will be held at the Knights of Columbus Hall in Patchogue on December 15 at 7 p.m. Tickets are \$25 and must be purchased by December 8. Contact, Charles Gardner, Ext. 5214; Louie Nieves, Ext. 4897; or the BERA Sales Office, Ext. 3347.

Dosimetry badges will be exchanged today, Friday, December 1. Therefore, place your badge in its assigned rack space before leaving work today.

BSA Noon Recital, 12/6
Jaques Thibaud String Trio

The Jaques Thibaund String Trio will perform on Wednesday, December 6, at noon in Berkner Hall. Winners in the 1999 Bonn Chamber Music Competition, the trio was founded at the Berlin School of Art in 1994 and first toured together that same year. Since then, the ensemble has performed throughout Europe, Japan and the U.S., receiving tremendous acclaim from audiences and critics alike. Noon recitals are free and open to the public.



Poinsettia Plant Sale

BERA will be selling poinsettia plants this holiday season to benefit BERA and the Timothy Hill Children's Ranch, a 106-acre working ranch in Riverhead that provides a "second-chance family" for troubled teens.

The seven-inch, foil-covered, potted plants will cost \$10 each and are available in red, white, pink, marble, pink peppermint, jingle bells, and monet. Prepaid reservations must be made by Tuesday, December 12, at the BERA Sales Office, which is located in Berkner Hall. The plants will be available for pick-up on Tuesday, December 19, between 9 a.m. and 3 p.m. For more information, contact Andrea Dehler, Ext. 3347.

Pre-Retirement & Estate Planning Seminar

On Tuesday, December 5, from 5:30 to 7:30 p.m. in Berkner Hall, American Express Financial Advisors will discuss how to calculate the cost of retirement, how to identify sources of retirement income, ways to determine how much you will need to save, and many other topics. Check your mailbox for registration forms. For more information, contact Joyce Wund, Ext. 7516.

Healthline Lecture Series
Money Matters II - Providing Financial Protection for You and Your Family

On Tuesday, December 5, from noon to 1 p.m., in Berkner Hall, Franklin Federmann, Director of Internal Audit will present "Money Matters II - Providing Financial Protection for You and Your Family." He will discuss how to protect one's assets and improve your financial situation. The program will be videotaped, and audiotaped and made available in the Research Library. Check your mailbox for registration forms. Contact Mary Wood, Ext. 5923, for more information.

Voicestream Wireless Demo, 12/7

On Thursday, December 7, from 10 a.m. to 2:30 p.m., in Berkner Hall Voicestream Wireless will discuss special rates for BNLers for digital PCS wireless services on its GSM network.

2001 BNL Holidays*

Holiday	Holiday Observed	
New Year's Day	Monday	January 1
floating holiday	Monday	January 15
(Martin Luther King Jr. Day)		
Presidents' Day	Monday	February 19
Memorial Day	Monday	May 28
Independence Day	Wednesday	July 4
Labor Day	Monday	September 3
floating holiday	Tuesday	September 4
Thanksgiving	Thursday	November 22
Day after Thanksgiving	Friday	November 23
Christmas Eve (1½ day)	Monday	December 24
Christmas Day	Tuesday	December 25

* Note: The Bulletin will not be published the Friday of weeks containing BNL holidays.

Arrivals & Departures

Arrivals

Deana L. Buckallew
Radiological Control
John J. Dowd
Plant Engineering
Taeko Ito
Physics
Serguei A. Kokhanovskii
Collider-Accelerator

Peter H. Oddo
Collider-Accelerator

Departures

Brian M. McCaffrey
Environmental Restoration
Jeffrey B. Raynor
Plant Engineering
Milton F. Yee
Information Technology

Hospitality Events

Bus to Manhattan

On Sunday, December 10, Lab families are invited to join a bus trip to Manhattan. The bus will depart at 9 a.m. from the Lollipop House in the apartment area and return at 6 p.m. The cost is \$10 for adults and \$5 for children 2-12. Pay at the Recreation Bldg., Tuesday and Wednesday, December 5 & 6, 10-10:30 a.m.

For reservations, call Joe O'Connor, Ext. 2212.

Co-op Baby-sitting

Those interested in joining a new cooperative baby sitting program, may contact Nora Robles, 345-3204, or atomsfamily@altavista.com.

MicroComputer Club Holiday Party, 12/14

The BERA MicroComputer Club will hold its annual holiday party on Thursday, December 14, from noon to 1:30 p.m., at Alfredo's Pizzeria, located on Route 25 in Ridge. The club will be serving "soft sector" disks (pizza) to everyone.

All BNLers interested in becoming members are invited to join this free celebration, to learn more about the club. The annual dues of \$15 dollars will be waived for new members' first year.

Reservations must be made by December 7 by contacting the club's president, Steven Stein, Ext. 5694. For more information about the club, click on www.bnlmcc.gov.

2001 Time Card, Pay Date Exceptions

Usually, weekly time cards are due in Payroll each Monday before noon, while monthly non-exempt and exempt time cards are due by noon on the last work day before the 21st day of each month. However, as a result of the shortened work weeks containing BNL holidays (above), time cards are occasionally due earlier, as follows:

Pay Period Ending	Pay Day	Time Card Due
— WEEKLY —		
12/31/00	1/4	Fri., 12/29/00
1/14	1/18	Fri., 1/12
2/18	2/22	Fri., 2/16
5/27	5/31	Fri., 5/25
7/1	7/6*	Mon., 7/2
9/2	9/7*	Fri., 9/31
11/11	11/15	Fri., 11/9
11/18	11/21*	Fri., 11/16
12/23	12/27	Thu., 12/20
— MONTHLY —		
9/30	9/28	Wed., 9/19
11/20	1130	Fri., 11/16
12/20	12/31	Tue., 12/18

* Note: change from regular Thursday pay day for weeklies.

Calendar
(continued)

Thursday, 12/7

***Voicestream Wireless Demo**
10 a.m.-2:30 p.m., Berkner Hall.
Richard Goll, (516) 343-5900.

***BWIS Seminar**
"Metalworking Practices Used by Natives"
11 a.m., Hamilton Seminar Room, Bldg. 555. Stephanie LaMontagne, Ext. 7141.

Bridge Club
7:15 p.m., Brookhaven Center South Room. Morris Strongson, Ext. 4192, mms@bnl.gov.

Saturday, 12/9

Radio City Christmas Show
BERA event — Sold out.

Sunday, 12/10

***Bus Trip to Manhattan**
Bus departs at 9 a.m. from the Lollipop House and returns at 6 p.m.
\$10 - adults
\$5 - children age 2-12
Joe O'Connor, Ext. 2212

—WEEK OF 12/11—

Tuesday, 12/12

Peconic Cleanup Workshop
8:30 a.m.-5 p.m., Berkner Hall.

Peconic Poster Session
6-9 p.m., Berkner Hall.

Wednesday, 12/13

Rifle & Pistol Club
noon, 535A conference room.
Jim Duman, Ext 5993, or the club's hotline, Ext. 2658.

Thursday, 12/14

***Computer Club Holiday Party**
BERA MicroComputer Club's Annual Holiday Party
noon-1:30, Alfredo's Pizzeria (Route 25 in Ridge.)
Steve Stein, Ext. 5694, by 12/7 for reservations.

Friday, 12/15

GLOBE Meeting
Mike Loftus, Ext. 2960, or Chris Gardner, Ext. 4537 for time and location.

***Holiday Dinner Party**
7 p.m., Knights of Columbus Hall, Patchogue. Tickets \$25, purchase by 12/8. Charles Gardner, Ext. 5214; Louie Nieves, Ext. 4897; BERA Sales Office, Ext. 3347.

Saturday, 12/16

***Holiday Program**
5 p.m., Berkner Hall. The Afro-American Culture Club Holiday Program features a gospel concert, guest speakers and Santa Claus.

Note: This calendar is updated continuously and will appear in the Bulletin whenever space permits. Submissions must be received by the preceding Friday at noon to appear in the following week's Bulletin. Please enter the information for each event in the order listed above (date, event name, description, and cost) and send it to bulletin@bnl.gov. Write "Bulletin Calendar" in the subject line.

Classified
Advertisements

Placement Notices

The Lab'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 list of all job openings; use a TDD system to access job information by calling (631) 344-6018; or access current job openings on the World Wide Web at www.bnl.gov/JOBS/jobs.html.

LABORATORY RECRUITMENT – Opportunities for Laboratory employees.

DD8389. OFFICE SERVICES POSITION - Requires previous travel office experience, including several years' SABRE computer experience. Will assist Laboratory staff in all aspects of travel such as airline, railroad, bus and ferry reservations, limousine or car rentals, and accommodations. Staff Services Division.

OPEN RECRUITMENT – Opportunities for Laboratory employees and outside candidates.

MK9149. DIRECTOR, HUMAN RESOURCES DIVISION - Requires an individual who will lead the ongoing creation, implementation, and management of the human resources infrastructure to support and enhance continued professional growth of all Brookhaven employees. The ideal candidate will have at least 10 years' of increasing responsibility in Human Resources. Experience and/or exposure to interactions with government organizations is a plus, as is an advanced degree and registration as a certified HR professional. In addition, she/he should have experience at senior corporate and operating levels and be able to approach this position from strategic and tactical perspectives. Knowledge of the legal environment surrounding HR functions, excellent oral and written communication skills with a good understanding of modern conflict resolution methods is also required. Responsibilities include, but are not limited to: implementation of an HRIS application, formal succession planning methodology, human capital management focused on attracting and retaining future and current employees, union negotiations, management/organizational development programs, compensation and benefits management, as well as the overall dissemination of programs and services designed to enhance and increase the quality of work-life at Brookhaven. Director's Office.

MK8636. ASSISTANT SCIENTIST - Requires a Ph.D. in physics or engineering and experience with linacs, electron and photon beam diagnostics, and calculational tools for the design of transport systems. Will work on the development of advanced synchrotron light sources with the immediate goal being the development and commissioning of the DUV-FEL, a linac based high-gain harmonic-generation free electron laser. Under the direction of S. Krinsky. National Synchrotron Light Source Department.

MK8637. POSTDOCTORAL RESEARCH ASSOCIATE - Requires a Ph.D. in physics with experience in experimental or theoretical accelerator physics desired. Will work on the development of Energy-Recovering Linac light source. Under the direction of I. Ben-Zvi. National Synchrotron Light Source Department.

MK2030. POSTDOCTORAL RESEARCH ASSOCIATE - Requires a Ph.D. in physics with experience physics of high brightness electron beams, light optics, electron beam diagnostic instrumentation and operation of accelerators highly desirable. Will work on the high-gain harmonic-generation FEL experiments at the ATF and the DUV-FEL (Deep Ultra-Violet Free Electron Laser). Under the direction of L.-H. Yu. National Synchrotron Light Source Department.

MK9125. POSTDOCTORAL RESEARCH ASSOCIATE - Requires a Ph.D. in materials science, physics or chemistry, detailed knowledge of magnetism and magnetic materials, knowledge of rapidly-solidified materials and experience with aspects of nanostructured materials. In addition, excellent oral and written communication skills are required. Experience in materials synthesis, especially using rapid solidification methods and experience with magnetic materials and magnetism is highly desirable. Will participate in research in the area of magnetic nanodispersions, a multidisciplinary program that is designed to provide detailed insight into the fundamental materials parameters governing magnetic exchange at the nanoscale. Under the direction of L.H. Lewis. Environmental Sciences Department.

DD8635. PRINTED CIRCUIT-BOARD DESIGN POSITION - Requires an AAS degree in electronics or equivalent. Will use PADS Power Logic and PADS PCB to design printed circuit boards for custom scientific equipment. Responsibilities include schematic entry, board layout and the design and related assemblies. Must have knowledge of routing and parts placement issues and be able to prepare schematics and assembly drawings for manufacturing. Knowledge of transmission lines and other high-speed techniques, the ability to use PADS products and a recent revision of AutoCAD is desirable. Should have a working knowledge of IPC-D-275 and ANSI Y14.5 and ANSI Y32.2. National Synchrotron Light Source Department.

DD8939. SIGN PAINTER - Under minimum supervision lays out, plans and composes a wide variety of signs, posters, symbols, etc., using all colors and materials both business and decorative. Must be capable to freehand lettering all styles, silk screen work and stencil cutting. May renovate existing signs, and install new or renovated signs in field using such tools as required. Requires broad shop skills requiring ingenuity on complex jobs where previous standards or methods of operation do not offer complete solution. May be required to work as Painter. Plant Engineering Division.



Volleyball

*BERA Volleyball League
Standings as of November 22*
Open League A

Drilling & Excavation Co.	15 - 3
Shank, Carry, & Throw	12 - 6
Death Volley	5 - 13
Far Side	4 - 14

Open League B

Dump & Dink	15 - 0
Easy Spikers	12 - 3
Late Entry	8 - 7
Monday Nite Live	8 - 7
Setting Ducks	8 - 7
PHENIX Fire	5 - 7
Bumpin Uglies	1 - 14
STAR	0 - 12

Mixed League 2

Nuts & Bolts	13 - 5
Upsetters	11 - 7
Group Sets	10 - 8
Wazups	10 - 8
Spiked Jello	10 - 8
Underdogs	0 - 18

Mixed League 3

Upton Ups	14 - 4
Net Workers	10 - 8
Net Setters	6 - 6
NWO	7 - 11
Six Samurai	5 - 13



Calling Carolers!

All members of the Lab community, including guests and families, are welcome to the Berkner Hall auditorium at noon sharp on Mondays and Thursdays to rehearse for the annual Christmas concert in the cafeteria, to be held the week of December 18. All singers are needed: soprano, alto, tenor and bass. It is not necessary to be able to read music. For more information, call Bob Miltenberger, Ext. 2503.



**BNL Cats Need Homes
Call Ext. 4305**

Books & Videos Wanted

The Quality Of Life Steering Committee and Guest Services Program are requesting donations of books and videos, for use by the families of BNL's guests and visitors.

Your books and videos will enhance the English language and reading skills of the families of BNL's visitors and guests, in addition to offering insight into American culture and providing a source of entertainment.

All books must be in good, clean condition.

The committee is looking for adult and children's books: current novels, biographies, history, classics, and special interest, including gardening, hobbies, crafts, and cooking.

The committee is also seeking donations of video tapes which must be in working condition before donation.

Bring all books and videos to the collection sites listed below. Books and videos become the property of the Guest Services Program and will not be returned. For more information contact, Karen Adelwerth, adelwerth@bnl.gov or Mickey Haller, haller@bnl.gov.

Employee Contacts	Collection Sites	Bldg. Number
Maureen McDonnell	Accounts Payable	134B
Christine Ronick	Berkner Cafeteria	480
Bob Gordon	DOE	464
Robin Koebel	Medical	490
Debbie Botts	Property & Procurement	211
Mickey Haller	Property & Procurement	355
Diana Votruba	RHIC	902A
Ann Lamberti	RHIC	1005