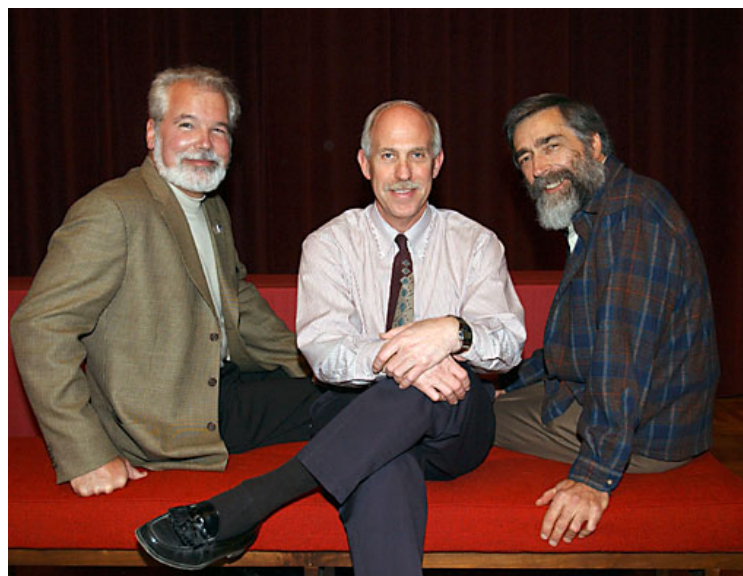




From left: Ralph Brown, Michael Schaeffer, and Thomas Shea.

Three BNL Engineers Win Lab's Top Awards

At the BNL Employee Recognition Award Ceremony on January 30, 12 Lab employees were rewarded with BNL's highest honors. The Bulletin of February 15 featured the four employees who won the Science & Technology Award. This week, the focus is on those who won the \$5,000 Engineering Award, which is given to recognize distinguished contributions to engineering or computing over one or more years. A future Bulletin will report on the five Brookhaven Award winners.

At the ceremony, the Engineering Awards were presented by Tom Kirk, Associate Laboratory Director for High Energy and Nuclear Physics. "Brookhaven has some of the best engineers in the world," he said, "and these awards highlight three of them." The three winners are Ralph Brown, Physics Department; Michael Schaeffer, Plant Engineering Division; and Michael Shea, Physics. A summary of their achievements can be found on page 2.

Swenson Named Manager Of Staff Services Division

Jeffrey Swenson has been named Manager of the Staff Services Division, effective January 1. He succeeds H. Ronald Manning, who had retired.

With an annual budget of about \$7 million and a staff of 54, the Staff Services Division provides BNL's 3,000 employees and approximately 4,000 annual visitors with housing, travel, transportation, intra-Laboratory mail delivery, and conference services. In addition, Staff Services manages BNL's automotive fleet of 335 vehicles and two fueling facilities for these cars, including the newly opened compressed natural-gas fueling facility (see story, page 2).

Also, Staff Services manages the contract with Flik International for the Lab's cafeteria and catering services, and with Upton Services, Inc., for the gas station on site used by employees and guests.

As of March 1, Staff Services will also take on the management of the recreational facilities on the Laboratory's 5,300-acre site, including the gymnasium, Recreation Building, pool, and tennis courts. In addition, Swenson's division oversees the more than 40 BERA clubs, which range from an antique auto club to an exercise and weightlifting club. The Human Resources Di-



Jeffrey Swenson

vision currently manages these functions.

"This is an exciting time for Staff Services," Swenson said. "We work closely with the Laboratory's Quality-of-Life Steering Committee, as well as with representatives from the Hospitality Committee, to reassess our services constantly and change them to suit our customers' needs."

As Staff Services Manager, Swenson will oversee the Lab's housing, travel, and mail Room activities. With 422 housing units on site, BNL provides temporary housing for many visitors and some new employees. Also, the Lab's off-site housing coordinator assists these visitors and employees to find new homes.

Travel services provided by Swenson's division include

(continued on page 2)

At the National Synchrotron Light Source at BNL

BNL Scientists Create Stripes, Islands, Towers

Watching someone align bricks on top of each other to build a wall or a flat surface can get routine. But watching as atoms align themselves like bricks — which can be done by using the intense x-ray light at the NSLS — can lead to seeing intriguing new structures, such as "stripes" and "towers," which may result in improved catalysts, compounds used to accelerate chemical reactions.

The "bricklayers" at the NSLS are BNL physicists Doon Gibbs, Hubert Zajonz, and their colleagues. While looking at the properties of bimetallic catalysts — compounds made of two metals, which are known to be bet-

Suddenly, they noticed that the copper atoms were not simply piling up but had started to make new structures.

ter catalysts than simple metals are — they were building copper layers, atom by atom, on ruthenium. Suddenly, they noticed that the copper atoms were not simply piling up but had started to make new structures.

At first, they saw that, when a single copper layer is deposited, it does not settle as it would in bulk copper. Rather, the atoms adopt the same structure as the ruthenium underneath. "The copper atoms go exactly where the ruthenium atoms would have gone if you were depositing ruthenium instead of copper on the ruthenium surface," Gibbs says.

The surprise came when the scientists added more copper atoms, forming a second layer. This time, the atoms rearranged in domains, each taking one of two possible atomic configurations.

"We found that the atoms switch back and forth in two

"We started to see something really bizarre and fun: we started to get islands."

possible configurations in a regular way," says Gibbs. "We see a periodic distribution of stripes, each stripe corresponding to one configuration or the other."

So the researchers kept adding more copper to see what happens when more layers form on ruthenium.

"We started to see something really bizarre and fun: we started to get islands," Gibbs says.

No matter how much copper was deposited on top of the two layers of copper, no new layers formed.

"Little by little, the copper atoms create columns of copper,



Doon Gibbs

and, when you add more copper atoms, they run across the surface, jump up on one of the columns, and somehow climb up to the top," Gibbs says. "We end up with a structure in which there is a two-layer film that covers much of the surface, together with these columns of bulk copper sticking up like big buildings."



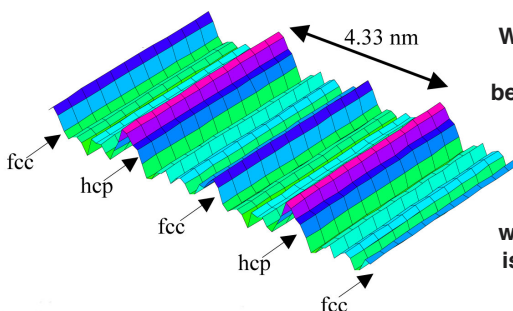
Hubert Zajonz

Gibbs and his colleagues then decided to grow layers of silver instead of copper to see if stripes and towers appeared again. This time, two layers of silver produced more convoluted structures, still with two different configurations.

"Instead of nice stripes following one another, we get little patches of one configuration or the other," Zajonz says. "It may be possible to grow new kinds of nanostructures on these patches, which would change the catalytic properties of the silver-ruthenium compound."

The scientists are developing models to understand the origin of such unusual structures. An important parameter is the difference between the interatomic

(continued on page 2)



When two layers of copper atoms are deposited on ruthenium, the relative distances seen between the copper atoms are larger than if they were part of bulk copper. The figure at left shows the relative strain undergone by the copper atoms, which creates two kinds of structures, alternately distributed in parallel with each other to form "stripes." One structure is called hcp (hexagonal close packed), and the other, fcc (face centered cubic).

Attend BNL's Nanoscience Workshop

March 8-9, 2002

Lab employees are invited to attend an on-site workshop March 8-9 at which BNL's future nanoscience research — including preliminary plans for a major nanoscience research facility at the Lab — will be discussed. The primary purpose of the workshop is to gather input from potential users of this facility.

The proposed BNL nanocenter will be dedicated to the study of materials at the scale of the nanometer — a billionth of a meter. The aim of the research program will be to tailor the chemical and physical responses of nanoscale functional materials. BNL is developing the center under the sponsorship of the U.S. Department of Energy's Office of Basic Energy Sciences (BES).

Speakers will include:

- Patricia Dehmer, Director of BES at DOE
- Russell Bessette, Executive Director of New York State's Office of Science, Technology and Academic Research
- U.S. Representative Felix Grucci
- U.S. Representative Sherwood Boehlert, Chairman of the House Science Committee
- Venkatesh Narayana-murti, Harvard University, speaking about "The Challenge of Nanoscience in the 21st Century"
- Randal Isaac, IBM, discussing "Nanofabrication in Industry"
- Tom Russell, University of Massachusetts, Amherst, talking about "Nanoscience of Polymer Systems."

In addition, a multidisciplinary group of materials researchers will discuss topics including nanoscience in novel functional materials, catalytic systems, molecular materials, and magnetics.

The workshop program and registration information are available at www.bnl.gov/nanocenter.

Register via the Web if you plan to attend. Note that a special registration fee of \$15 has been arranged for BNL attendees.

— Karen McNulty Walsh

Calendar
of Laboratory Events

- The BERA Sales Office is located in Berkner Hall and is open 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 in the apartment area.
- The Recreation Building (Rec. Bldg.) is located in the apartment area.
- Contact names are provided for most events for more information.
- Calendar events flagged with an asterisk (*) have an accompanying story in this week's Bulletin.

— EACH WEEK —

Mondays: BNL Gospel Choir

5:15-7 p.m. Berkner Hall. www.bnl.gov/bera/activities/choir/.

Mon., Tues., & Thurs.: Aqua Aerobics

5:15-6:15 p.m. \$2 pool fee per class or use pool pass. Mary Wood, Ext 5923.

Mon., Tues., & Thurs.: Kickboxing

\$5 per class. Mon. & Thurs. noon-1 p.m. in the gym; Tues., 5:15-6:15 p.m. in the gym; Thurs., 5:15-6:15 p.m. in Brookhaven Ctr. Registration is required. Mary Wood, Ext. 5923, or wood2@bnl.gov.

Mon., Tues., & Fri.: Tai Chi

12:15- 12:45 p.m., Rec. Bldg. Scott Bradley, Ext. 5745, bradley@bnl.gov.

Tuesdays: Welcome Coffee

10-11:30 a.m. Rec. Bldg. Hospitality event. Come and meet friends. The first Tuesday of every month is special for Lab newcomers and leaving guests. Hospitality Chair Mimi Luccio, 821-1435.

Tuesdays: Toastmasters

Meetings are 1st and 3rd Tuesday of each month at 5:30 p.m. in Bldg. 463, Room 160. Guests, visitors always welcome. www.bnl.gov/bera/activities/toastmstrs/default.htm.

Tuesdays & Thursdays: Aerobics

5:15-6:30 p.m., \$4 per class. Rec. Bldg. Pat Flood, Ext 7886.

Mon. Tues., Wed., Thurs., & Fri.: English for Speakers of Other Languages Classes

Various times. Rec. Bldg., 2nd Floor. Learn English, Make Friends. Jen Lynch, Ext. 4894.

Wednesdays: English Exchange Table

noon-1:30 p.m., Berkner Hall. Native and non-native English speakers are welcome. Make friends and improve English skills. Jen, Ext. 4894, lynch@bnl.gov.

Wednesdays: Weight Watchers

noon-1 p.m., Brookhaven Center South Room. Mary Wood, Ext. 5923, wood2@bnl.gov.

Wednesdays: Yoga Practice

noon-1 p.m., Rec. Bldg. Free. Jla Campbell, Ext. 2206.

Wednesdays: Stretch

5:15-6:15 p.m., \$4 per class. Rec. Bldg. Pat Flood, Ext 7886.

Wednesdays: BNL Ballroom, Latin & Swing Dance Club Lessons

6-9 p.m. North Ballroom, Brookhaven Center. Marsha Belford, belford@bnl.gov or Ext. 5053, or www.bnl.gov/bera/activities/dance.

Thursdays: Falun Dafa Class

noon-1 p.m., Free. Rec. Bldg. Falun Dafa refines the body and mind through exercises, meditation. www.falundafa.org.

Fridays: BNL Social & Cultural Club

7-11:30 p.m., Brookhaven Ctr., dance social. Rudy Alforque, Ext. 4733, rudy@bnl.gov.

March Is Women's History Month

See "Coming Up" notice on page 3 for lecture information.

— NEXT WEEK —

Tuesday, 3/5

***'An Evening of Jazz' Concert**

7 p.m., Berkner Hall. See notice on page 4.

Wednesday, 3/6

***BERA Ski Trip to Camelback**

Bus leaves from Brookhaven Center at 5:30 a.m. and returns to BNL at approximately 8 p.m. See notice on page 3.

Thursday, 3/7

***Softball Captain's Meeting**

Noon, Berkner Hall, Room A. Captains should submit team rosters to softball@bnl.gov or bring them with you to the meeting. A \$50 commitment fee is due at this meeting as well.

Science Discussion Group

12:30-1:30 p.m., Berkner Hall, Room D. People who enjoy talking about science are invited to join this group to explore current scientific events and issues. Patrice Pages, Ext. 3270, pages@bnl.gov.

Cycletrons Meeting

4:45 p.m., Brookhaven Center. Frank Dusek, Ext. 2022 or frankd@bnl.gov.

BERA Bridge Club

7 p.m., Berkner Hall Cafeteria. Morris Strongson, Ext. 4192, mms@bnl.gov.

BNL's Highest Awards for Engineers

(cont'd.)

Ralph Brown



Ralph Brown, a senior project engineer in the Physics Department, was awarded for the leadership and engineering skills that he exhibited during the completion and first running of the STAR Detector at the Relativistic Heavy Ion Collider (RHIC).

With an extremely high degree of coordination and organization over the last two years, Brown led the effort to complete the integration, installation, and testing of the STAR detector — on time and within budget. This included coordinating extensive modifications and the addition of new components during a scheduled RHIC shutdown. Evidence of his contributions is the fact that STAR's first scientific results were presented just one month after the end of RHIC's 2000 run, which showed that the detector became fully operational in an extraordinarily short time given its size and complexity. Brown's ability to work with scientific, engineering, and technical personnel from many institutions worldwide and his leadership of the engineering staff's effort were also cited among his outstanding achievements.

Michael Schaeffer



Michael Schaeffer, Manager of Engineering & Construction Services (E&CS) in the Plant Engineering (PE) Division, was honored for his contributions in managing and overseeing construction of the conventional facilities for BNL's major scientific projects. He has played a key role in projects such as the Heavy Ion Transfer Line tunnel, and the Radiation Effects Facility. He also served as RHIC Conventional Facilities Project Manager, while continuing to run PE's E&CS Group. For RHIC, Schaeffer oversaw the construction of the magnet-access tunnel structures and the 10 and 12 o'clock experimental halls, and ensuring that all RHIC's required buildings and utilities were completed on time and within budget.

Schaeffer was cited for his outstanding reputation in civil construction, project cost-and-scope development, and project management, both at BNL and within DOE. His expert advice has been used in reviews of DOE projects such as the Spallation Neutron Source. His success in managing teams of BNL engineers and outside consultants and his excellent rapport with all those involved in construction projects were also cited among his accomplishments.

Thomas Shea



Thomas Shea, a senior physics associate in Physics, is recognized for leading the PHENIX engineering staff in playing a significant part in ensuring the successes of the PHENIX experiment at RHIC. During the past two years, Shea has been responsible for the integration of all physical aspects of the 11 subsystems of the PHENIX detector. This included assembling, testing, and installing the 270-ton, 35-foot-tall south muon tracking spectrometer into the PHENIX experimental hall during a scheduled RHIC shutdown. Shea's achievement in coordinating the contributions of the many different groups needed to complete the task proved his exceptional management and communication skills.

This complex effort was carried out under intense time pressure and with limited resources. Shea is honored for his remarkable dedication and engineering skill, without which the PHENIX south muon spectrometer would not have been operated in time for the 2001 physics run at RHIC. The successful completion of these efforts within the time available made possible a major enhancement of the experimental program.

— Liz Seubert

Stripes, Towers

(cont'd.)

distances in copper or silver and ruthenium.

"The distance between bulk copper atoms is smaller than that between ruthenium atoms," explains Gibbs. "So, when you put a single layer of copper onto a ruthenium surface, the distance between the copper atoms is expanded because they are pulled apart. But they want to get closer together, which leads to stripes.

"For silver atoms, it is the opposite," he adds. "The distance between bulk silver atoms is larger than that between ruthenium atoms. So, when you put a single layer of silver on ruthenium, the silver atoms are squeezed, and they tend to move apart from each other, creating different kinds of structures."

Gibbs finds the structures "fascinating and beautiful." The scientists are now growing other metals on ruthenium and refining their models for a better understanding of the behavior and catalytic properties of these intriguing structures.

— Patrice Pages

Swenson

(cont'd.)

arranging all flights, other transportation, and accommodations for travelers on Laboratory-related business. The division also provides an on-call shuttle for transportation around the site, as well as twice daily complimentary transportation for guests to and from the Ronkonkoma Long Island Railroad station.

In addition to providing intra-Lab mail delivery to all employees twice daily, Staff Services also manages the contract with the on-site Upton Branch of the U.S. Postal Service.

After earning a B.A. in sociology and anthropology from Lycoming College, Pennsylvania, in 1976, Swenson worked as a hotel manager for Inn America Corporation at several locations, including at the Sheraton Smithtown on Long Island. He joined BNL as Housing Supervisor in Staff Services in 1992, becoming General Supervisor in Staff Services in 2000, which he remained until he took on his current position.

— Diane Greenberg

Nobel Laureate Ting Visits BNL To Discuss Space Research



Roger Stoutenburgh DO502022

Interim BNL Director Peter Paul (left) with Sam Ting

Sam Ting gave a physics colloquium at BNL on Tuesday, February 12, on "The Alpha Magnetic Spectrometer (AMS) Experiment on the International Space Station (ISS)." The NASA-run ISS orbits the Earth some 354 kilometers up in space. Sponsored by DOE and an international collaboration led by Ting, the AMS experiment is designed to study the properties and origin of cosmic particles and nuclei, including anti-matter and what is called dark matter. As the first large-magnet experiment to orbit the Earth, a prototype of the spectrometer was tested during a ten-day Space Shuttle mission in 1998, providing data on background radiation and verifying the detector's ability to perform in space. Now, the collaboration is completing fabrication of the AMS spectrometer, which will be assembled at the Kennedy Space Center before it is launched for three years' data taking in space. Ting, the Thomas Dudley Cabot Professor of Physics at the Massachusetts Institute of Technology, is the Nobel Prize-winning leader of the team that discovered the J particle at the Alternating Gradient Synchrotron in 1974. The J was codiscovered in 1974 as the psi by a California team and now is known as the J/psi.

Filling Up With Natural Gas



Roger Stoutenburgh DO502022

BNL's transportation fleet includes 26 bi-fuel vehicles which can run on compressed natural gas. Now these vehicles can be filled up on site at BNL's new compressed natural gas fueling facility. Trying out the new filling station is Staff Services' Veronica Varlack (center), who fills in for the Lab chauffeurs and has brought one of Staff Services' passenger vans to the facility. She is joined by: (from left) Henry Hauptman, also of Staff Services; and Robert Gordon and Timothy Drawbridge, both from the DOE Brookhaven Area Office. With Long Island Clean Cities Coalition as a contributor, DOE was instrumental in securing funding for the new facility, which uses gas piped in from Keyspan. The main gas line was originally installed in 1997 to bring gas to BNL's Central Steam Facility. Natural gas was brought to Bldg. 526 in early 2000, and to the new fueling facility in late 2001. These activities are implemented by the Plant Engineering Division as part of BNL's long-range plan to reduce dependence on foreign oil and to improve air quality by burning cleaner natural gas. The warning sign pictured is a required posting, seen at gasoline stations on and off site.

In Memoriam

Louis Caiola, who had joined the Lab on September 17, 1947, as a design draftsman B in what became the Plant Engineering Division, died on January 16, 2001, at 85 years of age. He had risen to Project Engineer II before retiring on January 23, 1981.

Kenneth Grist, who had taken a position in the Biology Department as a biologist associate III on July 11, 1960, died on February 14, 2001 at the age of 70. As Biologist Associate II, he had had left the Lab on long-term disability on April 26, 1983.

Anthony Meo, who had joined Staff Services as a clerk A on March 25, 1947, died on May 1, 2001, at age 82. After 34 years at the Lab, he had retired as a senior technical specialist on May 8, 1981, from what is now the Instrumentation Division.

Special Colloquium Will Celebrate Gen Shirane's 40 Years at BNL
Tuesday, March 5, 3:30 p.m.

To celebrate his 40th Anniversary at BNL, Gen Shirane of the Physics Department has been invited to give a special physics colloquium. Shirane will speak on "Piezoelectricity, Waterfalls, and Neutrons" on Tuesday, March 5, at 3:30 p.m., in the Physics Large Seminar Room. Coffee and cookies will be served before the talk. All are welcome.



Roger Stoutenburgh 12-332-43

Coming Up

On Wednesday, March 20, at 4 p.m. in Berkner Hall, Morgan May of the Physics Department will give the 371st Brookhaven Lecture, title to be announced.

Civil rights leader Amelia Boynton Robinson, winner of the 1990 Martin Luther King Freedom Medal, is celebrating her 90th birthday with a "Dialogue of Civilizations" tour. At BNL on Thursday, March 21, Robinson will talk about her lifetime experiences. The talk, to be held at noon in Berkner Hall, is free. All are welcome to attend.

Arrivals & Departures

Arrivals

Nicholas Capazzola Plant Eng.
Fabian H. L. Essler Physics
Brent Gingrich C-A
Seetharaman Jayaraman Biology
Katherine Onderdonk Dir. Office
Alexander Sabelnikov NNS

Departures

Jacquelyn Klemm Plant Eng.
Oleg Yakovlev Physics

Daffodil Sale

BERA will sell daffodil bouquets at \$7 each to benefit the American Cancer Society. Paid reservations are being taken at the BERA Sales Office. Pick up the daffodils on Tuesday, March 19, at the BERA Sales Office. Daffodils will also be on sale that day in the Berkner Hall lobby, from 11:30 a.m. to 1:30 p.m. For more information call Andrea Dehler, Ext. 3347.

Candidates for BERA Board Elections

The BERA Nominating Committee has selected the following slate of candidates for the 2002 BERA Board elections:

- John McCaffrey
- Susan Monteleone
- Terry Monahan
- Gerald Shephard

During the week of March 25-29 eligible employees of BNL, DOE, other permanent on-site employees, BNL facility users and guests may vote for two of the four candidates to serve on the 2002 BERA Executive Board beginning May 1, 2002. Information on the candidates and on the election will be published in a future issue of the Bulletin.

Retirement Counseling

A TIAA-CREF representative will visit BNL on Tuesday and Wednesday, March 19 & 20, to answer BNLers' questions regarding the TIAA-CREF retirement plan. You might ask about:

- TIAA and CREF differences
- allocating funds between TIAA and CREF
- options, flexibilities with TIAA/CREF
- retirement options

To arrange a 45-minute appointment, call Duane Walden, (800) 842-2733, Ext. 7289 (not the on-site Ext. 7289).

Summer Camp Expo

On Thursday, March 7, from 11:30 a.m. to 1:30 p.m. in Berkner Hall, several Long Island summer camps will be providing facility and registration information to BNLers. Check your mailbox for a flyer containing more information, or contact Sue Foster, Ext. 2888 or foster2@bnl.gov.



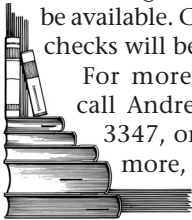
Defensive Driving

A six-hour defensive driving course will be offered on Saturday, March 16, 9 a.m.-3:30 p.m., in Berkner Hall, Room B. The course is open to BNL, BSA, and DOE employees, BNL facility-users and guests, and their families. To register, send a check for \$23 per person, made out to Empire Safety Council, care of Scott Zambelli, P.O. Box 670, Mount Sinai, NY 11766. Include your telephone number in case you need to be contacted. All checks must be received no later than March 10.

BERA Book Fair

BERA will sponsor a Book Fair in Berkner Hall on Tuesday & Wednesday, March 12 & 13, 10 a.m.-3 p.m. Books will be fun reading ranging from children's stories to cookbooks to New York Times bestsellers. New, hard-cover books will be in stock and sold at up to a 70 percent reduction. Some gift items will also be available. Credit cards and checks will be accepted.

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



Moose Season at BNL, 3/6

The five resident Swinging Moose have been rounded up to appear at noon in Berkner Hall on Wednesday, March 6, to render some traditional Celtic dances, airs, and songs. If you have never heard a Moose in full swing, come to see why these get-togethers pack the house. Moose never charge admission and welcome the public.



The Swinging Moose herd consists of BNLers: (from left) Elaine DiMasi, Physics Department; Jeff Landgraf, Physics; Sean McCorkle, Biology Department; Sam Carr, Physics; and Peter Siddons, National Synchrotron Light Source Department.

Attn.: BNLers Of Asian Heritage

Volunteers are needed to join a Committee for Asian Heritage to suggest and prepare events for Asian Heritage Month in April. It is hoped that BNLers from most Asian backgrounds can be represented, including individuals from, for example, Burma, Cambodia, Indonesia, Malaysia, Singapore, Srilanka, Thailand, and Vietnam. Contact Hai-Dee Lee, Ext. 2062, or Achyut Topé, Ext. 5672, for more information.

BERA Ski Trip, 3/6

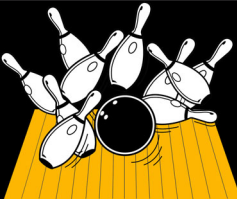
Space remains available on the BERA-sponsored ski trip to Camelback Mountain, Pennsylvania, next Wednesday, March 6. The cost is \$49 per person. Ski rentals are an added \$15; snowboards rent for \$22. A New Skier package, at \$55, includes a restricted lift ticket, equipment rental, and a 1.5 hour beginner lesson. The bus will leave from the Brookhaven Center at 5:30 a.m. and return to BNL at about 8 p.m.

Make paid reservations at the BERA Sales Office, 9 a.m.-3 p.m. For more information, contact Andrea Dehler, Ext. 3347; Tom Dilgen, Ext. 7455; or Bob Marascia, Ext. 7779.

Bowling Scores

The following people earned Valentine's Day high scores:

Brian Mullany	233
Paul Campbell	231/228/607
Scott Reynolds	222/217/189/628
Peter Lombardo	222
Paul Callegari	204/189
Maryann Musso	192
Ed Meier	187/187
Ron Picinich	181
Marilyn Picinich	169
Liz Simes	167



Softball Captains, 3/7

There will be a meeting for all softball team captains on Thursday, March 7, at noon in Berkner Hall, Room A. Captains should submit team rosters to softball@bnl.gov or bring them to the meeting. Each team's \$50 commitment fee is also due at this meeting. For more information, e-mail softball@bnl.gov.

Hot Hoops

Basketball Scores From 2/21

Fab Five 70 — Chemically Imbalanced 60
Titans 60 — Shorties 40

Volleyball Standings



BERA Volleyball League standings as of February 22 are as follows:

Open League A	
Death Volley	47 - 23
Shank, Carry, Throw	46 - 24
UCB Roof Company	28 - 42
Far Side	19 - 51
Open League B	
Easy Spikers	41 - 7
What Ball, Where?	33 - 15
PHENIX Fire	27 - 18
Setting Ducks	28 - 20
Starmageddon	23 - 22
Late Entry	23 - 25
Bumpin Uglier	12 - 36
Six Samurai	2 - 46
Mixed League 2	
Upsetters	30 - 6
Nuts and Bolts	26 - 10
Group Sets	23 - 13
Spiked Jello	19 - 17
Underdogs	14 - 22
Wazups	10 - 26
Newbies 2	4 - 32
Mixed League 3	
Upton Ups	31 - 14
New Blood	29 - 16
Net Workers	26 - 16
Net Setters	20 - 13
NWO	13 - 26
Newbies 3	4 - 38

Calendar (continued)
Friday, 3/8

GLOBE Meeting

The Gay, Lesbian, and Bisexual Employee Club at BNL will hold its monthly meeting at 7 p.m. For the meeting's location, contact Debbie Bauer, Ext. 5664, or Mike Loftus, Ext. 2960. For more information about the GLOBE club, see www.bnl.gov/bera/activities/globe.

— WEEK OF 3/11 —

Monday, 3/11

ESOL Monday Night Movie

7 p.m. Location and movie title to be announced. Meet new people, eat popcorn, and watch the free video. Children are welcome. Sponsored by BNL's English for Speakers of Other Languages Program. Jen Lynch, Ext. 4894, lynch@bnl.gov.

Tuesday, 3/12

*BERA Book Fair

10 a.m.-3 p.m. Berkner Hall. See notice on page 3. Andrea Dehler, Ext. 3347, or M. Kay Dellimore, Ext. 2873.

Modular Devices Demo

11 a.m.-5 p.m., Berkner Hall Lobby. A representative from Modular Devices Inc. will present radiation-tolerant and radiation-hardened DC to DC converters and power supplies. Catalogs will be available as well. Bill Henry, 345-3100.

Workshops: Cholesterol & Hypertension

Cholesterol workshop: 11:30 a.m.-12:15 p.m. Bldg. 490, small Conference Room. Participants must register in advance to have blood work done prior to the workshop.

Hypertension workshop: 12:30-1:15 p.m. Bldg. 490, small Conference Room. Topics will include nutritional foods, healthy dining out, easy cooking, travel monitoring for success. Program will be facilitated by a registered dietitian. For registration information, contact Mary Wood, Ext. 5923, wood2@bnl.gov.

Wednesday, 3/13

*BERA Book Fair

10 a.m.-3 p.m. Berkner Hall. See notice on page 3. Andrea Dehler, Ext. 3347, or M. Kay Dellimore, Ext. 2873.

Rifle & Pistol Club Meeting

noon, Conference Room, Bldg. 535. Jim Durnan, Ext. 5993, or www.bnl.gov/bera/activities/rpc/.

Science Discussion Group

12:30-1:30 p.m., Berkner Hall, Room D. Patrice Pages, Ext. 3270, pages@bnl.gov.

— WEEK OF 3/18 —

Wednesday, 3/20

Brookhaven Lecture

4 p.m., Berkner Hall, Brookhaven Lecture to be delivered by Morgan May, Physics Department.

Thursday, 3/21

Civil Rights History Talk

noon, Berkner Hall. Civil Rights Leader Amelia Boynton Robinson, winner of the 1990 Martin Luther King Freedom Medal, will describe her lifetime experiences. All are welcome to this free event.

BAC Meeting

12:30-1 p.m., Berkner Hall, Room C. Brookhaven Advocacy Council Meeting, Open Session. www.bnl.gov/bac.

BERA Bridge Club

7 p.m., Berkner Hall Cafeteria. Morris Strongson, Ext. 4192, mms@bnl.gov.

— WEEK OF 3/25 —

Monday, 3/25

IBEW Meeting

6 p.m., Knights of Columbus Hall, Railroad Ave., Patchogue. A meeting for shift workers will be held at 3 p.m. in the union office. The agenda includes regular business, committee reports, and the president's report.

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.

OPEN RECRUITMENT – Opportunities for Laboratory employees and outside candidates.

MK2263. PHYSICIST (S-3) – Requires a Ph.D., a distinguished record of initiative and accomplishment in relativistic heavy ion physics research and excellent credentials in hardware, software and physics analysis. In addition, must have demonstrated ability to work well in a diverse group setting and be capable of taking a lead role in helping to define the physics goals of the group as well as to provide hands-on contributions in achieving them. Will be expected to devote 100% of effort to RHIC physics, divided equally between detector/operation and physics research. Position is with the PHENIX Group, which has a major responsibility for the design, construction, operation and exploitation of the PHENIX detector. Research activities include Coulomb dissociation, global event characterization and event-by-event fluctuations, high transverse momentum pizero, photon and electron physics, identified charged- hadron and anti-neutron physics and charm physics in nuclear and polarized proton collisions. Under the direction of M. Tannenbaum, Physics Department.

MK2265. POSTDOCTORAL RESEARCH ASSOCIATE – Requires a Ph.D. in nuclear or high energy physics with extensive experience in high-performance computing, numerical algorithms and the creation and maintenance of large software systems. Position is in the Nuclear Theory Group to work in lattice gauge theory in conjunction with the SciDAC (Scientific Discovery through Advanced Computing) program at the Department of Energy. Research will involve a combination of direct research in lattice gauge theory using large scale numerical simulation, the development and testing of new algorithms, and software support for the com-

'An Evening of Jazz' at Berkner Hall, 3/5, 7 p.m.

Don't miss the BNL Music Club's "An Evening of Jazz," on Tuesday, March 5, at 7 p.m. in Berkner Hall. The Music Club warmly invites the public to come and enjoy the performances of the Oak Street Quartet and the William Floyd High School (WFHS) Jazz Ensemble.

Tickets may be purchased at the door, or in advance at the BERA sales office in Berkner Hall on weekdays from 9 a.m. to 3 p.m., at WFHS, or at the Elk Street Grille in Port Jefferson. The suggested donation for tickets is \$3 each. All proceeds will go toward supporting WFHS music programs. For more information, call the BNL Music Club at Ext. 3846, or e-mail jjv@bnl.gov. All concertgoers over 15 years old must have a photo ID to be allowed on site.



Note that the time of 7 p.m. is correct; it was previously given as 8 p.m. in error.



Roger Stoutenburgh D05-40102

munity of users of the present and planned Teraflops-scale parallel computers at BNL and Columbia University. Under the direction of L. McLerran, Physics Department.

NS7931. SCIENTIFIC ASSOCIATE II (P-5) (part-time 50%) – Requires an MS in atmospheric science or a related discipline. At least three years' experience in the retrieval of aerosol optical thickness using shadow-band radiometry and knowledge of associated instrument caveats are required. Responsibilities will include processing, quality control, and submission of data collected using specialized shipboard atmospheric radiometers. Environmental Sciences Department.

LABORATORY RECRUITMENT – Opportunities for Laboratory employees.

TB2460. SR. ADMINISTRATIVE SERVICES ASSISTANT (A-3) — Requires an AAS degree or equivalent, five or more years' relevant experience including at least three years as an administrative services assistant. In addition, proficiency with the IPAP travel system, knowledge of MS office applications (Word, Outlook, Excel), and a thorough knowledge of Laboratory policies and procedures are required. Must be able to work independently, prioritize workload, and be highly organized and capable of handling non-routine matters. Responsibilities will include being the Guest Information System administrator, Conference Management and Foreign Visits and Assignment Point of Contact for the Department. Will be responsible for performing highly complex administrative functions and providing secretarial assistance and support to the Chair's office. May direct the work of other support personnel as required. Physics Department.

Services that did not appear in this week's Bulletin will run in next week's edition.