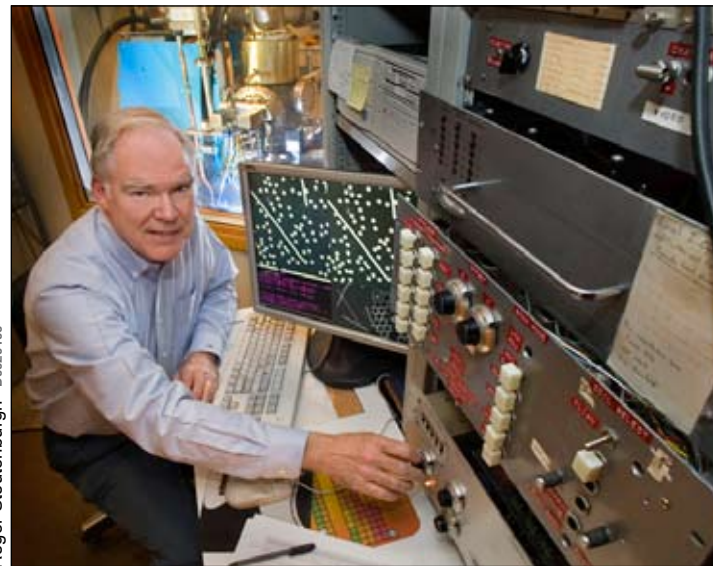


Microscopy Society of America Awards Joseph Wall, Biology



times. Wall explained that the microscope is uniquely suited for measuring long, thin objects. For example, researchers using STEM have observed prions, infectious proteins that are associated with Mad Cow Disease, and have also viewed filaments formed by a defective protein that accumulates in the

brain of people with Alzheimer's disease. The information researchers gain from viewing these structures on the atomic scale may lead to better understanding of how they function.

Current Projects

Wall is currently rebuilding the computer system for STEM, and, collaborating with BNL scientists Vyacheslav Volkov and Yimei Zhu, he is working on imaging simulation to make better microscopes, with the goal of being able to see small catalysts and magnetic materials on the atomic scale. Also among Wall's current research projects is his work on the next-generation Transmission Electron Aberration-corrected Microscope, an electron microscope with 0.5-angstrom resolution, allowing researchers to observe the atomic-scale order, electronic structure, and dynamics of individual nanoscale structures.

Wall earned a B.S. in physics from the University of Wisconsin in 1964, and a Ph.D. in biophysics from the University of Chicago in 1971. With colleagues, he completed development of the first STEM in 1970 and demonstrated the first imaging of single atoms with an electron microscope. In 1973, he joined BNL, and, by 1977, he had constructed a new STEM optimized for biological specimens. Wall became a senior biophysicist in 1980. He received DOE's Ernest Orlando Lawrence Memorial Award in 1988 for his contributions to the development and application of STEM, and the creation of the STEM user facility, which makes the technology available to a broad community of scientists.

— Diane Greenberg

Joseph Wall, a senior biophysicist in the Biology Department, has been selected to receive the 2006 Distinguished Scientist Award for the Biological Sciences, the highest honor bestowed by the Microscopy Society of America (MSA), an affiliate society of the American Institute of Physics. The award is given for internationally recognized research accomplishments and distinguished contributions to microscopy. Wall will receive the award at the 64th annual meeting of MSA on August 2.

Developing BNL's STEM

Wall is largely responsible for developing BNL's Scanning Transmission Electron Microscope (STEM), one of only a few microscopes in the world that can image single heavy atoms. In addition to DOE, the National Institutes of Health has supported STEM as a Biotechnology Resource since 1971, enabling 50 researchers per year from various research facilities and universities to use STEM to view biological specimens. STEM allows researchers to view specimens without staining or shadowing them. It also enables scientists to determine the masses of individual proteins and DNA molecules.

Wall commented, "I am pleased to be chosen for this award, and I am gratified that STEM is still a very useful instrument for studying biological specimens, even after almost 30 years of operation. I give credit to my excellent team who operate STEM, help with improving it, and keep it running well."

With a resolution of 2.5 angstroms (2.5 ten-billionths of a meter), STEM can magnify samples up to ten million

More Evidence for 'Stripes' In High-Temperature Superconductors

*Supports earlier controversial finding,
may help explain superconducting mechanism*

An international collaboration including two physicists from BNL has published additional evidence to support the existence of "stripes" in high-temperature (T_c) superconductors. The report in the April 27, 2006, issue of *Nature* strengthens earlier claims that such stripes — a particular spatial arrangement of electrical charges — might somehow contribute

to the mechanism by which these materials carry current with no resistance. Understanding the mechanism for high- T_c superconductors, which operate at temperatures warmer than traditional superconductors but still far below freezing, may one day help scientists design superconductors able to function closer to room temperature for applications such as more efficient power transmission.

Scientists from the Laboratoire Léon Brillouin, Saclay, France, the Institute for Solid State Physics in Karlsruhe, Germany, and Nagoya and Tohoku Universities in Japan collaborated on this research. BNL's work was funded by the Office of Basic Energy Sciences within DOE's Office of Science.

Claustrophobic in a Crowded Room

In the material the scientists studied, as in all materials, the atoms' negatively charged electrons repel one another. But by trying to stay as far apart as possible, each individual electron is confined to a limited space, which makes the electrons "unhappy" in the sense that it costs energy. "It's like putting a bunch of claustrophobics into a crowded room," says John Tranquada, Condensed Matter Physics & Materials Science Department, who leads the Lab's role in this work.

To achieve a lower-energy state, the electrons arrange themselves with their spins aligned in alternating directions on adjacent atoms, a configuration known as antiferromagnetic order.

Through chemical substitutions, the scientists can effectively "dope" the material with electron "holes," or the absence of electrons, to allow the electrons/holes to move more freely and carry current as a superconductor.

The big question is: How do those electrons/holes arrange themselves?

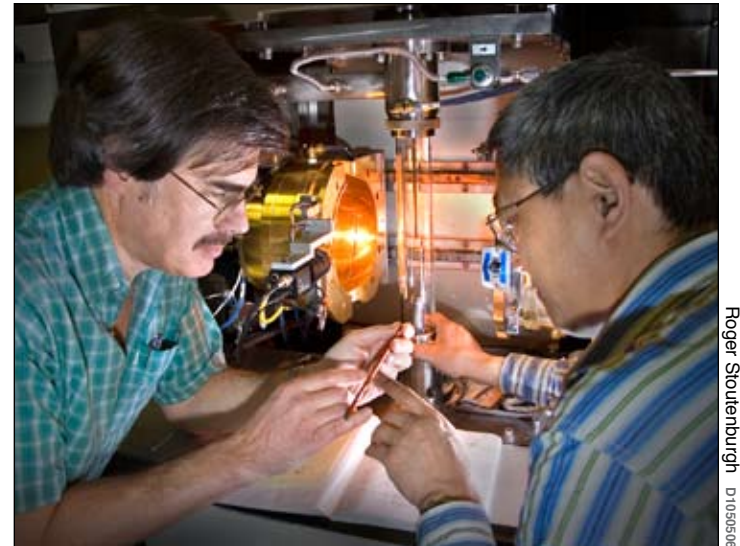
Seeing Stripes

"Our earlier research suggests that the holes segregate themselves into stripes that alternate with antiferromagnetic regions," Tranquada says. This conclusion is based on observing a similar magnetic signature in a well-known high- T_c superconductor and a material known to have such charge-segregated stripes. Ironically, the stripes in the latter material are observable only at a particular level of doping where the material loses its superconductivity. But because the magnetic spectra were so similar, Tranquada says, "We inferred that the stripes might also be present in the superconducting materials, just more fluid, or dynamic — and harder to observe."

Good Vibrations

Since then, Tranquada's group has been looking for additional experimental signatures to back up their controversial claim. In the current experiment, they examined the effect of the stripes on vibrations in the crystal lattice. Lattice vibrations, or phonons, are known

(continued on page 2)



John Tranquada (left) and high-temperature superconductor research team member Genda Gu, both of the Condensed Matter Physics & Materials Science Department

20th Anniversary of J/psi Suppression: Celebrating Prediction of Quark-Gluon Plasma

Highlighting 20 years of intense theoretical and experimental research, a workshop was held at BNL on May 9 to celebrate "The 20th Anniversary of J/psi Suppression." The research had developed after the appearance of a seminal paper by Tetsuo Matsui and Helmut Satz on the suppression of heavy quarkonium states in relativistic heavy ion collisions.

Some 60 participants attended the workshop, notably, authors Matsui and Satz themselves. Satz was a member of the Physics Department's Nuclear Physics Group, 1985-92, and Matsui a Massachusetts Institute of Technology postdoc who worked with Satz. Their theory, which first appeared as a BNL preprint in June 1986 (BNL-38344) and was published in *Physics Letters B* 178 (1986) 416,

has received over 900 citations.

The Matsui/Satz paper proposed that a rare event in particle physics, now known as J/psi suppression, could be a sign that quarks, the smallest building blocks of matter known to exist, could be "deconfined" — as opposed to being bound together in their usual positions by force carriers called gluons.

This is of special interest to all at BNL as well as to nuclear physicists worldwide, because it was the first suggestion that the formation of a quark-gluon plasma — the plasma of unconfined quarks and gluons that BNL's Relativistic Heavy Ion Collider (RHIC) was designed to reveal — would be signaled by evidence of what physicists

know as "the melting of heavy quark bound states." The paper also contained the first predictions for experimental observations of these heavy quark states at RHIC. And, last year, 19 years later, the first results on heavy quark bound states were reported by RHIC experimentalists.

Said Frithjof Karsch, who,

with Dmitri Kharzeev and Raju Venugopalan, organized the workshop, "The original idea of J/psi suppression as a probe for quark-gluon plasma formation in heavy ion collisions has been steadily refined over the last two decades and RHIC is now in a position to start a systematic analysis of this phenomenon." — Liz Seubert



Participants, including Helmut Satz and Tetsuo Matsui (front, center) of the '20th Anniversary of J/psi Suppression' workshop at BNL on May 9

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 Christine Carter, Ext. 2873.
- Additional information for Hospitality Committee events may be found at the Lollipop House and the laundry in the apartment area.
- The Recreation Building (Rec. Hall) 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 —

Weekdays: Free English for Speakers Of Other Languages Classes

Beginner, Intermediate, Advanced classes. Various times. All are welcome. Learn English, make friends. See www.bnl.gov/esol/schedule.html for schedule. Jen Lynch, Ext. 4894.

Mondays: CIGNA Rep On Site

10 a.m.-3 p.m. CIGNA's Janice Petgrave is in Bldg. 185, to assist CIGNA medical plan participants with claims issues. Call Linda Rundlett, Ext. 5126, for 30-min. appointment.

Mondays & Thursdays: Kickboxing

\$5 per class. Noon-1 p.m. in the gym. Registration is required. Christine Carter, Ext. 5090.

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

Noon-1 p.m., Brookhaven Center North Rm. Adam Rusek, Ext. 5830, rusek@bnl.gov.

Tues. & Thurs: Aerobics

5:15-6:30 p.m., Rec. Hall. 10 classes for \$40, or \$5 per class, pay as you go. Pat Flood, Ext. 7866.

Tues. & Thurs: Aqua Aerobics

5:15-6:15 p.m. \$20 to attend once a week, \$40 to attend twice a week. For more information, call Ext. 2873.

Tues. & Thurs: Jazzercise

Noon-1 p.m., Rec. Hall. \$88 for twice-a-week eight-week session, you may use the membership at several Jazzercise locations. Christine, Ext. 5090.

Tues. & Thurs.: Ving Tsun Kung Fu

Noon-1 p.m., Brookhaven Center, North Room. \$80/month or \$10 per class, pay as you go. Taught by Master William Moy. Scott Bradley, Ext. 5745 or bradley@bnl.gov.

Tue., Thu. & Fri: Upton Nursery School

8:30 a.m.-noon, Rec. Hall. 2- and 3-day programs available. Kati, 821-4131.

Tuesdays: Welcome Coffee

10 a.m.-noon, Rec. Hall. First Tuesday of every month is special for Lab newcomers and leaving guests. Lisa Yang, 979-3937.

Tuesdays: BNL Music Club

Noon, North Room, Brookhaven Center. Come hear live music. Joe Vignola, Ext. 3846.

Tuesdays: Jiu Jitsu Club

6:30-7:30 p.m. in the gym. All levels, ages 6 and above. \$10 per class. Tom, Ext. 4556.

Tuesdays: Toastmasters

1st and 3rd Tuesday of each month, 5:30 p.m., Bldg. 463, room 160. Guests, visitors always welcome. www.bnl.gov/bera/activities/toastmasters/.

Tues., Wed. & Thurs: Rec Hall Activities

5:30-9:30 p.m. General activities, TV, ping pong, chess, games, socializing. Christine Carter, Ext. 5090.

Wednesdays: On-Site Play Group

10 a.m.-noon. Rec. Hall. An infant/toddler drop-in event. Parents meet while children play. Fang Dong, 871-5362.

Wednesdays: Weight Watchers

Noon-1 p.m. Michael Thorn, Ext. 8612.

Wednesdays: Yoga

Noon-1 p.m., B'haven Center. Free. Ila Campbell, Ext. 2206, ila@bnl.gov.

Wednesdays: Ballroom Dance Class

Brookhaven Center, N. Ballroom. Instructor: Giny Rae. New series starts 3/15. See notice, page 3. John Milner, Ext. 3853; Madeline Windsor, Ext. 5069.

Thursdays: Reiki Healing Class

Noon-1 p.m., Bldg. 211 Conference Rm. Nicole Bernholz, Ext. 2027.

Fridays: Family Swim Night

5-8 p.m. BNL Pool. \$5 per family.

Fridays: BNL Social & Cultural Club

6-9 p.m., North Ballroom, Brookhaven Ctr., dance lessons, 9-11:30 p.m. general dancing. Rudy Alforque, Ext. 4733, rudy@bnl.gov.

DOE's BHSO Holds 'Second Annual Unity Day'



Roger Stoutenburgh D1070506

Above: Among the participants of the DOE Brookhaven Site Office's (BHSO) Second Annual Unity Day were: (standing, from left) Susan Eng Wong, BERA Asian American Pacific Association (AAPA); Carmen Narvaez, BERA Hispanic Heritage Club; Deborah Bauer, BERA Gay, Lesbian & Bisexual Employees Club; Frank Crescenzo, DOE BHSO Deputy Manager; Barbara Simpson, BERA African American Culture Club; Nand Narain, DOE BHSO; Michael Holland, DOE BHSO Manager; and Kim Nekulak, DOE BHSO; (seated, from left) Beth Lin, AAPA; Nicholas Torres, DOE BHSO; and Shirley Kendall, Diversity Office Manager.



Roger Stoutenburgh D1110506

DOE Brookhaven Site Office staff who helped provide or organize the international exhibits for the Second Annual Unity Day were: (from left) Patricia Quit, Emily Lalima, Mohammad Ali, Nand Narain, Judy Badal, Lou Sadler, and Jerald Bond.



Roger Stoutenburgh D1160506

Displaying some of the exhibits at the Unity Day event are DOE BHSO staff Emily Lalima, Evelyn Landini, and Patricia Palladino.

'Stripes' in High-Temp Superconductors (cont'd)

to play a role in pairing up the electrons that carry current in conventional superconductors.

At Saclay, the researchers bombarded samples of superconducting materials and the same stripe-ordered non-superconductor with beams of neutrons and measured how the beams scattered. Comparing the energy and momentum of the incoming beams with those scattered by the samples gives the scientists a measure of how much energy and momentum is transferred to the lattice vibrations.

Each of these vibrations, like a vibrating guitar string, normally has a particular, well-defined frequency for a given wavelength. But in the superconductor experiment, at a particular wavelength, the scientists observed an anomaly: a wider range of frequencies in the lattice vibrations.

"It's as if a musician were able to make a single guitar string produce a chord," Tranquada says.

The scientists observed this

anomalous signature most clearly in samples with observable stripe order — that is, the special material that loses its superconductivity with a particular level of doping. But they also saw it in samples of good superconductors.

"Seeing this feature in both stripe-ordered samples and in good superconductors without static stripes leads us to believe that the signature is indicating the presence of dynamic stripes," Tranquada says.

"This result suggests that stripes are common to copper-oxide superconductors and may be important in the mechanism for high-Tc superconductivity," he adds. To support this case further, Tranquada notes that the anomalous signature goes away in cases where the superconducting material is either under- or over-doped. In this case, the material no longer acts as a superconductor, and may no longer have stripes, he says.

— Karen McNulty Walsh

BNL's Small Business Fair Brings Big Results

A record number of almost 500 people attended the 2006 biannual Small Business Fair at BNL. Sponsored by Brookhaven Lab and the Small Business Administration (SBA), the fair provided opportunities for small business personnel to network with buyers from large businesses, with the goal of winning contracts. About 450 small business people attended the fair, mainly to find out how to do business with the 37 large businesses that brought personnel and

exhibits to the event, while some attended workshops on SBA certification and small business loans.

"This was the best year ever," said Jill Clough-Johnston, Brookhaven Lab's Small Business Liaison Officer. "This was the tenth year the fair was held at BNL. The fair has grown in recent years, and the networking has really helped both small and large businesses to get big results — each gets to fulfill their business needs successfully."



Joseph Rubino D0905006

In the high-tech exhibit area at the fair, Hedy Sifre (right), a vendor from M-Tron Components, Inc., a Ronkonkoma-based firm that sells electronic components and computer products, discusses how her company can meet the technical needs of Brookhaven Lab's Center for Functional Nanomaterials (CFN) with (from left) Laura H. Lewis, Deputy Director of the CFN; David Paveglio, a contract administrator in the Laboratory's Procurement & Property Management Division; and Clough-Johnston. Construction of the CFN started in September 2005, and research at the center is expected to begin in 2007. The center will provide researchers with advanced probes to study materials at nanoscale dimensions — typically, billionths of a meter, or 1,000 times smaller than a human hair.



Joseph Rubino D09040506

Displays at the fair included several tables set up by BNL groups in which equipment is supplied by contractors. Security Police Officer Mark Opisso shows clothing and equipment used by the BNL Police Group.

On the BNL Intranet Homepage: Enjoy checking out "Take 5," the monthly video feature produced for the Lab community. Click on WBNL Streaming Media in the left column of <http://intranet.bnl.gov/>

2006 RHIC & AGS Annual Users' Meeting

June 5-9

The Relativistic Heavy Ion Collider (RHIC) & Alternating Gradient Synchrotron (AGS) Annual Users' Meeting will include three days of topical workshops followed by two days of plenary sessions on Thursday, June 8, and Friday, June 9. The plenary program will include the latest results from RHIC, AGS, and NASA Space Radiation Laboratory; reports from Washington; elections; awards; an Open Forum Meeting; thesis awards; poster session with prize for best student/post-doc poster; and a banquet. Workshops are scheduled Monday through Wednesday. An End-of-Run Party will follow the plenary session on Friday afternoon at 4 p.m. in the Building 510 courtyard.

For more information, with a complete list of workshops, go to http://www.bnl.gov/rhic_ag/users_meeting/.

Get to Know Your Lab!

Spring Bird Walk on Lunchtime Tour, 5/26

On Friday, May 26, take a walk on the wild side with Ernie Lewis of the Environmental Services Division. BNL, with its over 5,000 acres of land, much of which is left in its natural state, is home to a large variety of bird species. Some are migratory and some call BNL home all year round. Wear tick-proof clothing, bring your binoculars, and come spot some possible dinosaur descendants! You may see a red-tail hawk such as the one below snapped recently on site by Lab Photographer Roger Stoutenburgh. The group meets in Berkner Hall lobby at noon and will return there by 1 p.m.



Roger Stoutenburgh 00880506

Asian Pacific American Heritage Month Events

To celebrate Asian Pacific American Heritage Month, the BERA Asian Pacific American Association invites BNLers to the following events:

- **Tonight: Fri., 5/19 - Taipei Folk Dance Theater.** See page 4
- **Mon., 5/22 - Asian Cultural Exposition,** including Philippine Tinikling Bamboo Dance, 11:30 a.m. - 2 p.m., Berkner Hall lobby
- **Tue., 5/23 - BERA Martial Art Clubs Expo,** Noon, Berkner Hall front lawn (weather permitting) or lobby. Demonstrations of Chinese Ving Tsun and Japanese Samurai martial arts
- **Movie, 5/24 - Farewell My Concubine,** at 6:30 p.m. in Berkner Hall. The story follows the lives of two Peking Opera School stars. Chinese with English subtitles
- **Tue., 6/6 - Swami Veditatmananda: Vedanta lecture,** 4 p.m., Berkner Hall. Free, all welcome. Vedanta comprises the metaphysical teachings of the Veda tradition in India, teaching that the reality of the self, the world, and its source is one non-dual consciousness that transcends, yet is the essence of everything. See http://arshavidya.org/teachers_swamivid.html or call Vatsal Bhatt, Ext. 5453; Ramesh Gupta, Ext. 4805; or Ila Campbell, Ext. 2206.

Skin Cancer Screening, 6/8

Dermatologist Lawrence Lieblich will perform full-body examinations to screen BNL employees for skin cancer on Thursday, June 8, 9 a.m. to noon in the Occupational Medicine Clinic, Bldg. 490. Space is limited. For an appointment, contact Michael Thorn, Health Promotion Coordinator, Ext. 8612, or mthorn@bnl.gov.

Noon Recital, 5/31

The Euclid Quartet, a prize-winning string ensemble, will perform on Wednesday, May 31, at noon in Berkner Hall. The program will include Mozart's *String Quartet in B flat, K. 589*, and Debussy's *String Quartet in G minor, Op. 10*. Sponsored by BSA, the company that manages BNL, the concert is free and open to the public. All visitors to the Lab age 16 and over must bring a photo ID.

Roll Up Your Sleeve: Blood Drive, 6/20 & 21

To replenish Long Island's blood supply, BNL is holding a blood drive on Tuesday and Wednesday, June 20 and 21, from 9:30 a.m. to 3 p.m. in the Brookhaven Center. Donors must be from 17 to 75 years of age, in good health, and weighing over 110 lbs. Restrictions may apply to individuals from the United Kingdom and Europe. Donors should have photo identification and know their social security number. To learn more about blood donation, check out www.bnl.gov/HR/BloodDrive.

To make an appointment, contact Susan Foster, Ext. 2888; Liz Gilbert, Ext. 2315; or e-mail donateblood@bnl.gov. In your message, include your name, phone extension, and preferred time to donate.

Fidelity Investment Counseling, 6/15

A Fidelity Investment representative will be at the Lab on Thursday, June 15, to hold sessions with individual employees interested in learning more about their retirement-savings and investment options. Schedule one of the 30-minute appointments by calling (800) 642-7131.

Bus Trip to U.S. Open, 9/5

The BERA Tennis Committee has scheduled a repeat of its popular bus trip to the U.S. Open Tennis championships at the National Tennis Center. The date is Tuesday, September 5. The bus will leave from the Lab tennis courts parking lot at 8:30 a.m. and make one stop at Exit 63 at the Park and Ride on the Long Island Expressway. Departure from the National Tennis Center will be at 7:30 p.m.

The cost of the trip is \$66 per person, which includes a \$46 ticket for the day session, bus fare, and tip for the driver. Prepaid reservations are now being accepted in the BERA Store.

See www.bnl.gov/bera for BERA Trips, Discounts

Details on BERA trips and discounts are available at www.bnl.gov/bera, for example: the *Cirque Du Soleil*, 6/11; Six Flags Great Adventure, 7/21; "Sweet Charity" at Bellport Playhouse, 8/4; U.S. Open, 9/5; NASCAR at Dover, 9/24; and discounted tickets to many local attractions. For more information, stop by the BERA Store in Berkner Hall or contact Christine Carter, Ext. 5090.

Register 3- or 4-Year-Olds At Upton Nursery School

Parents may enroll their children now for the Upton Nursery School, a not-for-profit, cooperative pre-school that meets at the Recreation Building in the apartment area. The school provides a warm, caring, and stimulating environment for three- and four-year-old children, offering certified and caring teachers, social and language development, academic readiness for kindergarten, and a multinational student body. Classes are forming now for the 2006-2007 school year. Three-to-five-year olds are being accepted for Tuesday and Thursday mornings, 8:30 a.m. - noon.

Open House, 5/23 - Come visit the school on Tuesday, May 23, 9 a.m.-noon at the Recreation Bldg. For more information or to register your child, contact Katalin Petreczky, 821-4131, julika@optonline.net, and see www.bnl.gov/nurseryschool.

One-on-One Retirement Planning: Vanguard

The Vanguard Group invites BNLers to spend 45 minutes one-on-one with a licensed representative on Friday, June 2, at the Lab to talk about financial issues. BNLers will learn about investing for long-term goals such as retirement; selecting funds for your savings; and making the most of the services and investment tools that are available. Schedule a 45-minute session online at www.meetvanguard.com or call 1-800-662-0106, Ext. 14500.

One-on-One Retirement Counseling: TIAA-CREF

A TIAA-CREF consultant will visit BNL on Thursday, May 25; Tuesday, May 30; and Wednesday, May 31, to answer employees' questions about financial matters such as: the importance of protecting assets against inflation, finding the right allocation mix, learning about TIAA-CREF retirement income flexibility, comparing lifetime income vs. cash withdrawal options, and more. For an appointment, call Arlene Lyons, (866) 842-2053, Ext. 4629.

Bus Trip to New York City, 6/4

All BNLers and their families are invited to join the Hospitality Committee's trip for a "day in the city" on Sunday, June 4. The coach will leave from the Recreation Hall in the apartment area at 9 a.m., drop off at Bryant Park, and will leave the city at 6 p.m. The cost is \$10 for adults and \$5 for children ages 2-12. Payments must be made in advance at the Recreation Hall on May 23 and 31 between 11 a.m.-noon. For more information, contact Jing Rochman at deshanghai@yahoo.fr or 891-9430.

May Is Hispanic Heritage Club Membership Month

BERA's Hispanic Heritage Club (HHC) seeks new members. Lab employees, retirees and immediate family members are welcome to join. Membership fees are \$10, with renewals due in May of each year. To join, send a check payable to "BERA Hispanic Heritage Club" with contact information regarding on-site or off-site address and telephone number to Carmen Narvaez, Bldg. 422. Proceeds from dues support special efforts such as the HHC Scholarship Fund. Contact Narvaez at Ext. 3254 or narvaez@bnl.gov.

CALENDAR (continued)

— THIS WEEKEND —

Friday, 5/19

National Bike-to-Work Day
See www.bikemonth.com.

Meditation Talk, Instruction

Noon-1 p.m. Berkner Hall. Clinical psychologist Cheryl Kurash will give this free talk on meditation. All are welcome. Contact: Michael Thorn, Ext. 8612 or mthorn@bnl.gov.

*Taipei Folk Dance Theater

6:30 p.m. Berkner Hall lobby; reception, 7:30 p.m., performance in the auditorium. In honor of Asian Pacific American Heritage Month. Advance tickets only. See page 4.

Saturday, 5/20

***Hospitality Spring Potluck Dinner**
5 p.m., Rec. Bldg. DJ, dancing, attendees are asked to bring a dish to share for six people. Lisa Yang, lisayang@optonline.net.

— WEEK OF 5/22 —

Monday, 5/22

*Asian Cultural Exposition

11:30 a.m.-2 p.m. Berkner Hall lobby. Displays from Asian cultures, Philippines Tinikling bamboo dance. All welcome.

IBEW Meeting

6 p.m. Centereach Knights of Columbus Hall, 41 Horseblock Rd., Centereach. 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.

Tuesday, 5/23

BERA Martial Arts Club Expo

Noon. Berkner Hall lawn or lobby. Demos of Chinese Ving Tsun and Japanese Samurai martial arts. All welcome.

Wednesday, 5/24

Kaman Industrial Technologies Demo

9 a.m.-4 p.m., Berkner Hall. Representatives will feature manufacturers such as Baldoe Electric, Omron Electric, Norgen USA, THK-America. Automation and fluid-power specialists will answer questions and assist with design applications. There will be a TV/DVD raffle as well. John Marra 436-5090.

Movie, Peking Opera Duo, 1924-77

6:30 p.m. Berkner Hall. *Farewell My Concubine* follows the lives of two Peking Opera School stars. Chinese, English subtitles.

Thursday, 5/25

Mast Distributors Demo

10 a.m.-4 p.m., Berkner Hall. Mast Distributors will present BNLers with their latest in electronic components from innovative electronics manufacturers. See www.mastd.com or call Annmarie Keenan or Hank Rosenberg at 471-4422.

Elder Law: Medicare Part D

Noon-1 p.m. Berkner Hall, Room B. Seminar by Nancy Burner, National Academy of Elder Law Attorneys, on "The New Deficit Reduction Act: Medicare Part D Prescription Drug, What Else Is New?" All are welcome.

— WEEK OF 6/5 —

Tuesday, 6/6

Retirees' Get-Together Lunch

Noon-4 p.m. Bellport Country Club. Good food, prizes, surprises, entertainment. Visit www.brea.bnl.gov for details.

Wednesday, 6/7

HSBC Demo

11 a.m.-2 p.m., Berkner Hall. HSBC will present BNLers with information on their banking services (no-fee banking, 4.5% savings account, and more) for national and international customers. Michelle, 752-4324.

Pre-school cooperative seeks part-time Head Teacher. Located at BNL, our small, fun, cooperative nursery school for 3 to 5 years olds seeks an experienced, certified head teacher for a part-time position. The successful candidate should have at least six months' teaching experience, preferably as a Head teacher. We are looking for an enthusiastic, sunny personality, able to develop/enhance curriculum, manage a teaching assistant and parent helpers and work with the school's Board. The candidate will be expected to establish and maintain daily routine and should feel comfortable and confident with multinational children. Call (631) 821-4131 or send your resume and salary requirements to Search Committee, Upton Nursery School, P.O. Box 324, Upton, NY, 11973.

Classified Advertisements

Motor Vehicles & Supplies

04 CROSSROADS CRUISER - 30' trlr., dbl. slide, queen br, lg. bath, bunks, storage, used 5 times. \$21,500/neg. 924-0139.
03 TOYOTA TACOMA - V6, 5spd, ext. cab, abs, a/c, all pwr, new tires, Warn fog/driver lights, 44K mi. \$17,490/neg. 375-5257.
01 VW JETTA WOLFSCBURG ED - new 5 spd & LSD chip, sst exhst, a/c, p/w m/lf, 2 sets whls, more. 77K mi. \$12,000/neg. 902-8188.
01 LINCOLN LS - 4dr., loaded, 5cd, heated leather seats, dual temp. controls, s/roof, alarm, 50K mi. \$14,000/neg. 871-0561.
99 HYUNDAI ELANTRA - 2L, 5spd. a/c, spoiler, cosmetic drmg in fr. 65K mi. \$3,000/neg. Tonko, Ext. 7346 or tonko@bnl.gov.
98 HARLEY DAVIDSON 1200 - custom motorcycle, mint, anniv. ed., extras. 10K mi. \$6,000. 208-3008.
97 BUICK LESABRE - leather seats, good cond., white w/trailer hitch for boat, ltd. ed. 109K mi. \$3,000. 516-747-7910.
96 TOYOTA CAMRY - station wagon, 4cyl., good cond. 122K mi. \$3,400. Urs, 011 41 79 416 03 04 (Swiss mobile phone).
92 FORD TAURUS GL WGN - 6cyl, a/c, a/t, c/c, p/s, p/b, p/w, p/l, am/fm/cass, orig. owner. 154K mi. \$990. Ext. 3974 or 744-6962.
89 BUICK SKYLARK - lt. blue, 6cyl, 2dr, auto, a/c, vg cond. 112K mi. \$825/neg. Kenneth, Ext. 7915 or 929-0823.
87 MAZDA RX7 - Needs work, but many new parts. \$1,000, neg. Tom, 365-7381.
85 HONDA MAGNA - v700c, new tires, new batt, tune up, s/bags, windshield, 35 - 45 mpg. 36K mi. \$1,350. 484-1133.

Boats & Marine Supplies

17' ISLANDS SAILBOAT - includes trailer \$1000; Yamaha 2 HP motor (used one season), \$800. \$1,000. Ext. 4176 or 286-3833.
19 ft. GRADY WHITE TOURNAMENT - 130 h.p. Yamaha, Magic Tilt trailer, full encl., VHF & DF, swim pttfm. \$7,500. 878-8302.
23' PEARSON P23K - 1979, head, galley, lights, 4' draft, lead fin keel, 4 berths, 3 sails, well maintained. \$3,900. Ext. 2788.
24' 2000 SEARAY SUNDANCER - Mercruiser Bravo III, full head & kit, 120 hrs, 2001 trailer, \$34,999/neg. Ext. 7658 or 495-2596.
25' MORGAN M-24 - 2 sets of sails, 8 hp Evinrude, includes launch from Oakdale, ready to sail. \$3,500. Peter, Ext. 5636.
26' CRUISERS INC. HOLIDAY26 - 1986, full cnw., wtr. htr., ac/dc frig, elec. stv. head, shwr, slps. 6, eng. nds wrk. \$3,500/neg. 775-0724.

Furnishings & Appliances

AIR CONDITIONER - thru-the-wall/window, 25K Btu, 220V, great cond. \$100. Chris, Ext. 2094 or 929-5008.
COUCH - L-shape sectional 107x88 w/pullout bed & recliner, blue, \$99. Ext. 3116.
COUCHES - 2, Broynhill, fantastic cond., 92" & 68" lite grey, pink & aqua. 369-5870.
DEHUMIDIFIER - Sears, vg cond., auto shut off. \$55. Joe, Ext. 3783.
DINING ROOM SET - glass tabletop w/pedestal, 4 fabric chairs, good cond. \$225. Jerald, Ext. 3988 or 631-897-2266.
DISHWSHR/MICROWAVE/STOVE - Dshwrshr s.stl interior, \$75; m/wave \$30; stove GE elec 4-burn, w/glass dr \$100. Ext. 3116.
HOSPITAL BED - electric, very good cond. Kenneth, Ext. 7915 or 929-0823.
RANGE - White Kenmore Elite 30 in, gas convection, self-clean, freestanding, paid \$1,600, ask \$850. Paul, 516-633-7275.
REFRIGERATOR - white Frigidaire, 18.2 cu. ft., \$200. Chris, Ext. 2094 or 929-5008.
SECTIONAL SOFA - gray velour w/pindot pattern, excel. cond. \$275. Ext. 5937.
TODDLER BED AND MATTRESS - hardly used, wood, sleigh bed, fits crib mattress. \$80. Can sell separately. Mary, Ext. 3670.
WASHER & DRYER - Kenmore Hvy-Dty top-load washer & GE Hvy-Dty frontload dryer 220V, \$75 each or \$125 both. Ext. 3116.
WATERBED - king sz, w/dual bladders, controls, hrs, liner, mattress casing w/foam panels. \$40. Ext. 5744 or 929-4440.
WOOD FLOOR CLEANER - Hoover PowerMate, like new, used 3 times, incl. qt. of Lysol cleaner, paperwork. \$35. 475-7891.

Audio, Video & Computers

CAR STEREO - Pioneer, 50W/ch, CDR/RW/MP3/WMA plybck, sat/ipod compatible, \$200. Laura, Ext. 7842.

PLAYSTATION 1 - w/controller, game & mem. card, \$35. Chris, Ext. 2094 or 929-5008.
ROUTER - Linksys, 4 port, cable/DSL, new, in box, vac. packed, orig. \$100 ask \$50. 434-5824.
TV & CD PLAYER - 13-in. Symphonic TV/VCR combo w/remote, good cond.; Sony 5 CD changer. \$40 ea. obo. Renee, Ext. 8278.
TVS - 3 (one 25" & two 19") \$25 ea. obo. Kim, Ext. 7465 or 399-3098.

Sports, Hobbies & Pets

SWIMMING POOL - above grnd., oval, 12'x18'x54", 3/4 hp pump, sand filt., all access., orig. \$3,500, ask \$800 obo. 246-5070.
BARBIE DOLLS - Barbie's Fashion Shop, 1960s, vg. cond., kea06msw@optonline.net for photos and info. \$125. 803-0506.
CROSSBOW - Weider, Bowflex knock-off, 350 lbs, power rods, \$350. 849 2520.
DOLLS - 1960s.; Tressy, Tammy, Skipper, Pepper, Samantha, need sme cleang. Fran-cie & Barbie Electric Drwg Set, 803-0506.
HALFPIPE - For beginner skateboarder plastic and steel, can be disassembled. \$100. Roger, Ext. 4084 or 878-8847.
NORDICTRAC PRO - little used. Pd \$600, ask \$200; 200 lbs. wghts, bar, dmbells, bench, lthr. back sppt, \$50. Ken, Ext. 3124.

Tools, House & Garden

CHAIN LINK FENCE - 4'x50' green vinyl & 4'x120' grey galv., w/2 gates, all hardware except posts, best offer. Ext. 5288.

Miscellaneous

BRIDAL GOWN SLIP - size L, never worn, \$30. 878-2239.
DOUBLE STROLLER - good cond. \$50. Chris, Ext. 2094 or 929-5008.
GENERATOR - Yamaha 1000, small and portable. \$500. Mary, Ext. 3670.
GOWN - Lord & Taylor. McClintock Gown, strapless, green & ivory, size 4. Paid \$275 never worn, w/tags, \$40. 422-1033.
METS TICKETS - (4) Sun. 6/18 @ 1:10 vs. Orioles. Mezz. Sect 18 Row C Face Value \$27 will sell all 4 for \$100. Rick, Ext. 6183.
POOL TABLE - Bar size, full 3/4" slate with access., \$200. George, Ext. 5288.
PORTABLE PLAYPEN - Graco Pack & Play w/case. Cindy, 584-5136.
RADIATOR - Delonghi, Safe Heat, oil filled, never needs refilling, plugs into electric outlet. 584-5136.
WEDDING GOWN - new, size 10, pictures avail. Paid \$1,350 ask \$250. Ext. 3621.
WEDDING GOWN - white, beaded satin, Victorian style w/headpiece, size 4/6, best offer. 395-9610.

Yard & Garage Sales

MANORVILLE - 5/20 & 5/21, 9 a.m.-4 p.m., 339 Woodland Ave., off Moriches-Mid Isl. Rd. Thomas, Ext. 4507.
MEDFORD - Sat., 5/20, 9:30 a.m.-5 p.m., rain 5/27, 22 Petty La. off N. Ocean Ave. nr LIE, dolls, clothes, more. 395-6784.

Car Pools

RONKONKOMA - Need ride each day from BNL to Ronk. or Shirley station around 7 a.m. & back around 7:30 p.m. Ext. 6236.

Community Involvement

US TRANSPANT GAME - sponsor Team Liberty, get raffle tickets for a new Corvette. \$10 ea. or 3 for \$25. Rich, Ext. 7013.

Happenings

SBU CAFÉ CONCERT - Wed., 5/24, 7:30 p.m., Dylan's 65th Birthday Celeb w/Larry Kirwan, Terence Martin, more, tickets \$20, \$15/students. Reserv'n suggested. 632-6027 or gpalaia@notes.cc.sunysb.edu.

Free

FERRET CAGE - steel, 3-tier, approx. size 20"x40"x36, good cond., includes some access. Mike, Ext. 5194 or 816-5431.
POOL FILTER - Doughboy pump and DE filter for above-grd. pool. Jack, Ext. 3884.
TENNIS RACKET - Wilson T-3000. P/U at Bldg. 933, lunchtime. First come... first to get. Fred, Ext. 2792.

Wanted

2-BEDROOM APT - in Miller Place or Shoreham area. Wang, Ext. 5673.
BOATERS - with an interest in joining the U.S. Coast Guard Auxiliary. 289-5625.
DEHUMIDIFIER - reliable & inexpensive. Ext. 3621.
KITCHEN AID MIXER - need for a baking class, call with a price if you have one for sale. Mary, Ext. 3670.
STUDIO APARTMENT - for 2-3 months for single, non-smoker w/2 indoor cats, must be close to BNL. Melanie, 830-7427.
TEMPORARY ROOM - 3-5 nights/wk, May-Aug., for doct. student & intern in Pine Barrens study, call for details. 917-482-3705.
VENDORS - Handmade crafts or specialty items for the BNL Market Day on Wednesdays, June to Oct. 1. Joanne, Ext. 8481.

On-Site Service Station

BOAT & MOTORCYCLE STARTERS, ALTERNATORS - The Lab's on-site service station can supply starters & alternators, incl. electrical relays, etc., for boats and m/cycles, as well as all vehicle services: oil changes, NYS inspections, new batteries, tires, timing belts, etc., while you are at work. Ext. 4034.

For Rent

COOPERSTOWN - 4-bdrm. house on 200 acres, spectac views, newly remodeled, all new appl., furnished, sleeps 8 comft. \$875/wk. Rick, Ext. 3005 or 874-9639.

EAST SETAUKET - 1 rm. in 4-bdrm. house, 2.5 baths shared w/3, d/w, w/d, 3 mi. E of SBU w/campus, biking distance to vill., avail. 7/1 + util. \$650/mo. 235-0141.

FARMINGDALE - 4 bdrm., 2 bath, all new kit./bath, s/s appl., nr golf, hot tub/SPA, great back yard, newly painted, great SD, \$52,600/mo./neg. Paul, 516-633-7275.

FARMINGVILLE - 1 lg. bdrm. in house, share bath w/1, full kit., elec incl., avail. 4/1. \$450/mo. Ben, 513-8275.

MASTIC - ground-flr. apt., 1 bdrm, l/r, kit. and bath, newly renovated, on the water, elec. extra. \$1,000/mo. Sue, 399-6367.

MASTIC - new 1-bdrm. apt., kit/lr combo, full bath, pvt. ent., heat/elec. incl., a/c pay extra, no smkg./pets, single, 1 mo. sec, 7 min/BNL. \$900/mo. 335-4907.

MILLER PLACE - share lg., furn., non-smkg., Col. house in resid. area, i/net, cac, tv, cable, fenced backyard, deck, own 14x12 w/w bdrm. 10mi. to BNL. \$675/mo. 744-8386.

PATCHOQUE - 2 bdrm., 1 bath duplex on river, 5 min. to LIRR & Fire Isld. Ferry, 15 min to Lab, pvt. ent. & parkg., deck, w/d, no smkg./pets, \$1,400/mo. 516-768-7909.

RIDGE - 1 lg. studio, bright, w/full bath, priv. ent. and fenced garden, house apart from owner, park in drwy, quiet n'hood. \$700/mo. Zhen, 821-0859.

S. SETAUKET - 2-bdrm. apt., bath, kit., a/c, w/d, l/net/cable, http://tinyurl.com/s8s4e. \$1,000/mo. Lin, Ext. 4508 or 902-6888.

SHIRLEY - studio apt. for 1 person, microwave kit., full bath, sep. ent., no pets/smkg., use of internet, 5 min. to stores/beach. One mo. sec. \$550/mo. Ext. 8321.

SHIRLEY SMITHPOINT ESTATES - 1-bdrm. bsmt. apt., eik, lg. l/r, full bath, no pets/smkg., cable, util. inc., pvt. ent., \$1,000/mo. Diana, Ext. 3681 or 399-3910.

SHOREHAM - summer rental (June, July, August) 3-bdrm. ranch, 1 bath, l/r, den, kit., washer/dryer, 1-car gar., lg. yard, utilities extra. \$1,800/mo. 258-4607.

SHOREHAM - 2 lg. bdrms & l/r, fully carpeted, kit., full bath, cable, pvt. ent., on cul-de-sac., no smkg./pets, 8 mi. to BNL. \$1,200/mo. 445-7838.

SHOREHAM - 2 lg. bdrms & l/r, fully carpeted, kit., full bath, cable, pvt. ent., on cul-de-sac., no smkg./pets, 8 mi. to BNL, avail. in July. \$1,200/mo. 445-7838.

SOUTH SETAUKET - 6 min. to SBU, 3 Vill. S. Dist., 3-1/2 bdrm., 2 bath, l/r, f/r, eik, w/d. util. extra, family pref., 1 mo. sec. reqd. \$1,680/mo. 516-241-5666.

SOUTH SETAUKET - 1-bdrm. apt., 2nd floor, quiet, pvt. ent., a/c, bath, kit. \$1,000/mo./neg. George, 974-3952.

WADING RIVER - 1 bdrm, all util. incl. \$800/mo. Bruce, 929-3474.

WADING RIVER - 2 bdrm., eik, lg. l/r, lg. den, lg. deck, pvt. pkg., no kids/pets/smkg. util. extra. \$1,500/mo. 928-9328.

WADING RIVER - Newly renov., 3-bdrm. house, d/r, l/r, bsmt., bath w/jacuzzi, good for 4-5 pple (price neg. dep. on # of people) \$2,200/mo. 929-1481.

YAPHANK - 2 bdrm., l/r, kit., full bath, lg. yd., + util \$1,000/mo. Christopher, 436-6357.

For Sale

CENTEREACH - 4-yr.-old Center Hall Col., 5 bdrm., 2-1/2 baths, eik, great room, d/r, fin. bsmt., f/p, 1st flr. laundry, 20 min to Lab, 5 min to SBU. \$509,990 981-2471.

CENTEREACH - 3-bdrm. ranch, 2 bath, eik, l/r, d/r, fam rm. w/fp, fin. bsmt., cac, heated semi-igp, igs. htd. tile flrs., alarm, sky lgts., deck. \$449,000/neg. 871-0561.

EAST QUOGUE - new 2/2 condo up unit, 1-car gar., sr. comnty, cust closets, 42" cabinets, tiled baths, cac, maint. free, low comm. chgs. \$629,900/neg. 723-0770.

FARMINGDALE - beautifully renovated 4-bdrm., 2 bath Cape Cod, great SDs, nr golf & pkwys, all new kit./bath, hot tub & BBQ incl. \$500,000/neg. 516-633-7275.

MILLER PLACE - 4-bdrm. Col., lg eik, d/r, l/r, fam. rm. 2-1/2 baths, gar., wooded lot, 20 min. to Lab & SBU, 2 miles to beach. \$475,000/neg. 473-4715.

OLD MEDFORD - exp. ranch, 4 bdrm., 2fb, 16x30 gr. rm w/cath. ceil., l/r, f/d/r, den, eik, incl. 3-bdrm. ctgge. new sdg, roof, deck, cac, 100x150. \$459,000/neg. 525-4416.

PORT JEFFERSON - histr Victorian in ctr. vill., 4 bdrm., 2 bath, 2-l/r, gas f/p, d/r, renov. eik, pool, decks, waterfront views, 2 attics, gas heat, cac. \$724,000/neg. 804-4662.

PORT JEFFERSON STA. - hi-ranch, mint+, 3 bdrm., 2 bath, updated kit, l/r, windows, office, fully renov. bath, new fr (w/warr), great loc. \$419,999/neg. Ext. 3327 or 331-6725.

SHOREHAM - Dutch Col., 4 bdrm., 2 bath, d/r, l/r, lg. fam. rm., wood flrs., new lg. kit, new appl., 1-car gar., igp, fenced yrd., family n'hood. \$510,000/neg. 258-4607.

SHOREHAM - north of 25A, updated L-ranch, 5 bdrm., 3 bath, lg. fam. rm., 2/fp, eik, dn/lr, fin. bsmt. w/2-bdrm. apt., igp, top schools, poss. M/D. \$435,000 849-2984.

In Appreciation

On 4/17, I was taken out of the Lab by ambulance. BNL firefighters Frankie Palmeri, Theresa Edrehi, and Craig Diaz: I want to say thank you again for reassuring me. — Barbara Langhorne

Taipei Folk Dance Theater, Tonight, 5/19

The Taipei Folk Dance Theater, the first professional ethnic dance company in Taiwan, will perform in Berkner Hall this evening, Friday, May 19, at 7:30 p.m. Before the performance, starting at 6:30 p.m., a reception will be held, along with an opportunity to view an exhibit from Taiwan. The event is open to the public. All visitors to the Lab age 16 and over must bring a photo ID.

Tickets must be purchased or reserved in advance. They are available in the BERA Store, Berkner Hall, on weekdays, 9 a.m.- 3 p.m. Tickets cost \$10 each, \$5 for children under 12 and students with a student ID. Tickets may also be reserved via telephone and picked up at the door on the evening of the performance. For reservations or for more information, call Ext. 7988.

Softball League

The 2005 Champs Make Ready For the Challengers of 2006



Roger Stoutenburgh p1s41105

Last year, the Hounds and Foxes hunted their way to victory over the Mixed League M-2. Back, from left, Tyler Rovig, James Biancarosa, Onarae Rice, Reggie Sanchez; front, from left, Vinal Patel, Adriana Torar Salazar, Darcy Mallon, Regina Robinson. Missing from picture are: Kerri Bonti, Peter Bonti, Robert Brown, Dana Carasig, Bob Colichio, Kay Conkling, Janelle Gilbert, Jennifer Graham, Doug Marsteller, Patrick Moylan, Sandra S. Victor, Danielle Williams.



Roger Stoutenburgh p1s41105

Cool N' Gang overcame all heated 2005 individuals in League E-3. The Gang are: (back from left) Gerry Shepherd, Tony Mendez, Pat Browne; (front, from left) Tim Farmer, Bob Hernandez, and Arthur Walker. Not in picture: Torre Boucher, Pete Cancel, Pete Eterno, Katie Farmer, Linda Farmer, Ryan Farmer, Joe Fortunato, Jerry Gaeta, Keith Greiner, Paul Infranco, Alan Jones, Steve O'Kula, Pete Palamidis, Mike Paquette, and Jim Rowehl.



Roger Stoutenburgh p1s41105

The OER Wellheads' buckets of energy won them first place in the 2005 Mixed League M-1: (front from left) Barbara Moebes, Pete Genzer, Debbie Bauer, Michelle Pizzulli; (back from left) Michael Cowell, Scott Smith, Bill Dorsch, Jason Ramien, and Chris Ogeka. Not in the picture are: Alain Domingo, Joann Giambalvo, Bob Howe, Keith Klaus, Brian McCaffrey, Mart Merriwether, Bob Metz Jr., Regina Nash, Carlee Ogeka, and Doreen Ramirez.