



Roger Stoulenburgh 007/80310

Peter Genzer Named Manager Of BNL's Media & Communications And Production Services Office

Peter Genzer, a strategic communicator with significant experience in internal/external communications and social media, has been named manager of the Media & Communications and Production Services Office at the U.S. Department of Energy's Brookhaven National Laboratory, effective March 1. He succeeds Mona S. Rowe, who became communications manager for the Lab's Light Sources Directorate.

Part of Brookhaven's Community, Education, Government & Public Affairs Directorate, the Media & Communications and Production Services Office promotes Brookhaven's international reputation as a center for scientific excellence and innovation. The office communicates Laboratory initiatives, goals and accomplishments to internal and external audiences through numerous communications vehicles, builds and maintains relationships with media...

See Genzer on pg. 2

Princeton's Claire Gmachl To Talk On Quantum Cascade Lasers, 3/17

Claire Gmachl, professor of electrical engineering at Princeton University, will give a talk on "Engineering Light: Quantum Cascade Lasers," on Wednesday, March 17, at 4 p.m. in Berkner Hall.* Sponsored by Brookhaven Women in Science, the lecture is free and open to the public. Visitors to the Laboratory age 16 and over must bring a photo ID.

In 2010, the scientific community is celebrating the 50th anniversary of the invention of the laser, which has become a pervasive technology that has shaped much of modern life. For example, lasers are used in fiber optics needed for telecommunications and the World Wide Web, and they are used in eye surgery, DVD and Blu-Ray technologies, and optical storage data systems.

Gmachl has developed many quantum cascade lasers, which emit light in the mid-infrared region of the spectrum. These lasers are ideal for environmental sensing and medical diagnostic applications. In her talk, Gmachl will discuss how these lasers work, and their applications, including their use as chemical trace gas sensors. As examples of these applications, she will briefly present results from her field campaign at the Beijing Olympics, and ongoing campaigns in Texas, Maryland, and Ghana.

After earning a M.Sc. in physics from the University of Innsbruck in 1991, Gmachl went on to earn a Ph.D. in electrical



engineering from the Technical University of Vienna in 1995. Gmachl worked at Bell Laboratories from 1996 to 2003, eventually becoming a distinguished member of the technical staff. She joined Princeton's faculty in 2003 as an associate professor and became full professor in 2007. In 2006, she became director of the Mid-Infrared Technologies for Health and Environment Center, a six-university engineering research center funded by the National Science Foundation, which has the goal of developing laser-based sensors capable of detecting minute amounts of chemicals. *Popular Science* named Gmachl among its "Class of 2004 - Brilliant Ten," and in 2005, she won the MacArthur Foundation's "genius grant."

*Note: The talk will be in Berkner Hall, not in the Hamilton Seminar Room as previously announced.



Roger Stoulenburgh 000-01702

Nicholas Samios Inducted Into L.I. Tech Hall of Fame Also, Paul Kalb, John Heiser, Mark Fuhrmann honored for best environment, energy patent

Distinguished Senior Scientist Nicholas Samios, former Director of BNL and Director of the RIKEN BNL Research Center, has been inducted into the Long Island Technology Hall of Fame. One of five innovators to be honored at a ceremony and reception held at the Garden City Hotel on March 10, Samios is recognized for his numerous distinguished scientific contributions, including his leadership in the successful construction of BNL's premiere accelerator, the Relativistic Heavy Ion Collider (RHIC), and the experiments at RHIC that led to the discovery of quark-gluon plasma, a type of matter that is believed to have existed just microseconds after the Big Bang.

Also honored at the event were BNL scientists Paul Kalb and John Heiser, along with former BNL employee Mark Fuhrmann, for their mercury extraction technology, called "In Situ Mercury Stabilization," developed to passively remove toxic mercury from soil, sediment, sludge, and other industrial waste. Brookhaven Science Associates, the company that manages BNL for the Department of Energy, holds the patent for this technology.

The Long Island Technology Hall of Fame recognizes, honors, and preserves the contributions, accomplishments, and dedication of historical figures or current leaders in science or technology who have an impact on society. The organization raises funds for scholarships, outreach, and research initiatives that will ensure Long Island's economic and intellectual leadership.

"My Long Island roots go back a long way, from the time I worked at Brookhaven Lab as a summer student in 1952," Samios said. "I'm honored that the Long Island Hall of Fame is recognizing my contributions, and I'm proud to have spent a 50-plus year career at Brookhaven Lab — a world leader in science."

Samios' numerous honors include the 1980 E.O. Lawrence Memorial Award; the 1980 New York Academy of Sciences Award in Physical & Mathematical Sciences; the 1993 W.K.H. Panofsky Prize; the 2001 Bruno Pontecor-



Joe Rubino 012/09090

The Brookhaven researchers' patent award was selected from all patents given to Long Island residents during 2009 in the area of "Environment & Energy." Kalb (right), the principal investigator who developed the winning technology with Heiser (left) and Fuhrmann, said, "We are very pleased to be selected for this honor. Our invention can cost-effectively treat and remove mercury from contaminated soil and other wastes without requiring total excavation and disposal."

vo Prize of the Joint Institute for Nuclear Research in Dubna, Russia; and the World Federation of Scientists' 2009 Gian Carlo Wick Gold Medal Award. He was elected to the National Academy of Sciences in 1982 and is a Fellow of the American Physical Society, the American Academy of Arts and Sciences, the American Association for the Advancement of Science, and the Akademia Athenon.

Nicholas Samios earned his B.A. and Ph.D. degrees in physics from Columbia University in 1953 and 1957, respectively. He joined Brookhaven as an assistant physicist in 1959, and during his tenure at the Lab, Samios made many significant discoveries that helped define and lead to worldwide acceptance of the Standard Model, a physics theory that explains particle interactions. Samios rose through the ranks to become BNL Director in 1982, a position he held until 1997. During this time, Samios was instrumental in developing the plan for RHIC, a world-class accelerator that began operating in 2000.

See Samios on pg. 2

Linking Lava and 'Rust' to the Earth's Evolution

Especially in light of recent earthquakes in Haiti, Chile, and now Turkey, it becomes of even more vital interest that scientists should deepen understanding of what lies beneath the earth's crust. Facility users at BNL's National Synchrotron Light Source are researching part of this field.

By examining microscopic crystals that once lived deep in the Earth, a team of scientists is chipping away at a big story — one that tells the details of the planet's evolution. This research, conducted by University of Rhode Island researcher Katherine Kelley and Smithsonian Institution geologist Elizabeth Cottrell, helps explain why the Earth's mantle is more oxidized at subduction zones — areas of the ocean floor where tectonic plates merge — than at mid-ocean ridges, where the plates spread apart.

"The availability of oxygen in the mantle controls everything from viscosity and the types of minerals found there to the kind of gasses that are being put into the atmosphere by volcanoes," Cottrell said. "This study helps us understand how the mantle and the Earth's surface interact and evolve over time."



Joseph Rubino 035/11009

NSLS users Elizabeth Cottrell (left) and Katherine Kelley

The oxidizing process, Cottrell explains, can be thought of as a "rust conveyor belt." Similar to the metal on a bicycle or a car, iron in the oceanic tectonic plate also can "rust" (oxidize) when it comes into contact with the oxygen in seawater. As this plate moves across the mid-ocean ridge toward the subduction zone over millions of years, the rust builds and builds before slowly being transported into the Earth.

Researchers assume that this process adds oxygen to the mantle buried deep below the surface. Proof can be found in tiny crystals preserved in mag-

mas, like a prehistoric mosquito frozen in a piece of amber. Inside these crystals is glass with dissolved gases from volcanic eruptions. However, because the samples are so small (no larger than 50 microns), researchers have been without a technique to analyze them — until Cottrell and Kelley's success.

Working with researchers at the National Synchrotron Light Source (NSLS), Cottrell and Kelley fine-tuned a technique called micro x-ray absorption near-edge structure spectroscopy to determine the oxidation state of...

See Lava and 'Rust' on pg. 2

Laser Pointer Safety Alert

Recently a green hand-held laser was procured using a Laboratory credit card, nominally for use as a pointer. It was removed from service when it was realized the advertised power rating of 30 mW far exceeded the FDA regulatory limit of 5 mW for devices to be used as pointing devices. Worse still, the actual output power of the device as measured in a laser laboratory at BNL was nearly 100 mW, nearly 20 times the 'eye safe' limit.

A new group of laser pointers is on the market, frequency doubled Nd:YAG lasers or Nd:YVO4. The output beam is 530-532 nm, with a blocked infrared beam at about 1.06 μm . These pointers are exceptionally bright to the human eye, and for safety, it is critical that the invisible 1.06 μm beam-blocking filter be in place. There are some reports saying that cheap green laser pointers are being sold that do not have a filter to eliminate the infrared light, and therefore can emit levels of infra-red far in excess of what is safe.

The FDA limits laser products promoted for pointing and demonstration purposes to 5 mW. Lasers that emit over 5 mW output power cannot legally be promoted as laser pointers or demonstration laser products. Product labels and user instructions must describe the hazard classification of the product and its output characteristics. The label needs to show the laser hazard symbol, laser classification, laser wavelength, and maximum power output. The laser pointer should not be used if it is missing this label.

What can I do?

- Purchase/use only those pointers labeled as Class 2 or 3A/R.
- Do not use a laser pointer if it is missing its label.
- Never intentionally stare into the laser beam.
- Never intentionally aim the pointer beam at oneself or another person, particularly in the facial area.
- The beam should always be directed away from the audience.
- The beam should be turned off when not in use.
- Mirror-like surfaces should be avoided when directing the laser beam. A reflected beam can act like a direct beam on the eye.
- Do not direct the beam toward any video display terminal.

BWIS: Promoting Women, Advancing Science

In honor of Women's History Month, this is the second article in a series of profiles of women who are members of Brookhaven Women in Science.

Meet Vivian Stojanoff

A physicist at the National Synchrotron Light Source (NSLS), Vivian Stojanoff spends her workdays studying a special kind of crystals — protein crystals.

"What are crystals?" Stojanoff asks rhetorically and explains, "Crystals surround us. We eat crystals such as sugar and salt. Small crystals in our ears help us to keep our equilibrium. Human-made crystals include silicon, used in digital cameras, microwaves, cell phones, and computers. Crystals are solids in which atoms and molecules present a regular, repetitive pattern, with a very distinct shape. That is why diamonds have all those nice facets!"

To determine the arrangement of atoms in a protein crystal, Stojanoff employs a technique called macromolecular x-ray crystallography at NSLS beam line X6A. Knowing the arrangement of the atoms in a protein allows scientists to better understand its function. For example, a lack of the protein insulin in the body, which allows the uptake of glucose, leads to certain forms of diabetes. Consequently, knowing the arrangement of atoms in insulin helped medical doctors to provide a better treatment for diabetes.

Born and raised in Brazil by

Austrian parents, Stojanoff earned her B.S. and M. Sc. in physics and her Ph.D. in crystallography from the University of São Paulo, Brazil. Prior to joining the NSLS as a physicist in 2001, Stojanoff held scientific staff positions at the Physics Institute of the University of São Paulo, the BNL Biology Department, and the European Synchrotron Radiation Facility.

Stojanoff recalled that nearly 40 percent of the undergraduate physics class at the University of São Paulo were women when she was a student there, and most of them continued on to graduate school. This was reflected in the faculty with about 27 percent being women. "Even today, the U.S. does not attract so many female students to physics," she said. "The fraction of women in science decreases at every step from high school through Ph.D. programs into the workplace. A diverse workforce provides for a creative and innovation-driven work environment."

Since 2009, Stojanoff has been a Brookhaven Women in Science (BWIS) executive board member



Vivian Stojanoff, who studies protein crystals, holds a model of the protein Lysozyme found in egg whites. On the table is a model of a silicon crystal, and a "real," not model, amethyst crystal sits on top of a silicon rod (front, left).

in charge of organizing speakers for BWIS-sponsored seminars and lectures. "Most speakers I invite are suggested to me by word-of-mouth, or I've actually heard them speak," she said. "I try to get speakers that will draw a wider audience, for their broader views of science and their active engagement in encouraging a diverse group of students into science careers." — Diane Greenberg

Notes From the Benefits Office

Qualifying Events

Changes to medical and/or dental coverage may be made during the benefits annual open enrollment. Also, certain changes may be made within either 30 or 60 days of when a qualifying event occurs depending on the event. Qualifying events include: birth or adoption of a child, marriage, divorce or legal separation, loss of dependent status (for instance, graduation, attainment of age limit, or no longer a full-time student), death of a dependent, change in the place of residence or worksite, or a spouse's gain or loss of employment. The Benefits Office will need documentation of the qualifying event. If the event results in a loss of coverage, and documentation is submitted within the allotted timeframe, coverage may be continued under COBRA.

For the change in benefits to be approved, the qualifying event must closely relate to the requested change in benefits. For example, if a child is born, a participant may add the child to his/her medical coverage. The participant cannot drop medical coverage at that time.

Some information you may want to update when you have a qualifying event include:

- dependents' medical and/or dental coverage
- life insurance beneficiaries
- retirement plan beneficiaries
- tax withholdings on Form W-4
- address changes
- emergency contact information

Employees covering dependent children over the age of 19 as full-time students should be aware that full-time students are covered during the summer only if the student attends classes on a full-time basis for both the Spring and Fall semesters. Otherwise, coverage ends on the last day that the child attended an accredited college or university on a full-time basis. If there is a possibility that the child may not attend school full time in the coming fall, please contact the Benefits Office immediately to discuss continuation of benefits through COBRA.

For more information or to make a change to your benefits due to a qualifying event, contact the Benefits Office, Bldg. 400B, Ext. 2877, Ext. 5126 or call (800) 353-5321.

March 31 Deadline for Submission Of 2009 Reimbursement Account Claims

As a reminder, March 31, 2010, is the deadline for submission of any 2009 reimbursement account claims. Claims incurred in 2009 should be sent to CIGNA.

You can submit claims to CIGNA via mail to:

CIGNA HealthCare
PO Box 182223
Chattanooga, TN 37422-7223

You can also submit your claims via fax: (423) 553-8953.

All claim submissions must be accompanied by a claim form. Forms can be picked up in the Benefits Office in Bldg. 400, or downloaded from the Benefits Office website at: <http://www.bnl.gov/hr/Benefits/ReimbursementAccounts.asp>.

See *Lava and 'Rust'* on pg. 2

...iron in a variety of glass samples from different tectonic areas.

"Every time we visited the NSLS, we asked for higher precision than the time before," said Cottrell, who worked closely with University of Chicago researcher and beamline X26A spokesman Tony Lanzirotti to improve the instrumentation. "We ended up with an order of magnitude increase in precision, which made this micro-analytical tool just as good as a bulk tool."

The researchers found that the oxidation state of iron in magma increases with the amount of water in the sample. It is already known that the water found in the magma comes from the subduction zone. This work takes that concept a step further, showing that the oxidized environment also is transferred from the subducting plate to the mantle below.

Their research was published in the July 31, 2009 edition of *Science*.

"This indicates that what happens on the Earth's surface influences what goes on beneath it," Cottrell said. "It's one of the first steps in understanding if the mantle oxidation state is evolving over time."

Funding for this study was provided by the Smithsonian and the National Science Foundation. The operation of the NSLS is supported by the Office of Basic Energy Sciences within the DOE Office of Science. — Kendra Snyder

Arrivals & Departures

— Arrivals —

Maureen McGarry..... PPM

— Departures —

John Fogus..... Maint. & Fab.

Jason Katz..... Physics

See *Genzer* on pg. 2

...representatives around the globe, and publicizes information about the Laboratory's research, personnel, events, policies and procedures. The office has 24 employees and an annual budget of \$3 million.

"It's a truly exciting time to be at Brookhaven, with construction quickly progressing on a world-leading light source; compelling research findings from the Relativistic Heavy Ion Collider on the origins of our universe; and expanding scientific programs in climate, energy, nanoscience, materials science, and medicine," said Genzer. "I look forward to working closely with our researchers, Lab management, the Department of Energy, and the media to highlight our progress and share our achievements with the world. Mona built a great team here, and I hope to use all that I've learned from her as we look to the future."

Genzer joined BNL in 1996. His many accomplishments include leading the development of the Lab's social media strategy and its first internal communications and involvement

See *Samios* from pg. 2

A Distinguished Senior Scientist since 1997, Samios became Deputy Director of the RIKEN/BNL Research Center (RBRC) in 1998, and Director of the center in 2003. Funded primarily by the

Japanese RIKEN Laboratory, RBRC explores both the theoretical and experimental physics potential of RHIC. Samios also was an adjunct professor in Columbia's Physics Department from 1970 to 1995.

— Diane Greenberg

Defensive Driving Course: Two Parts, 03/22 & 25

The next six-hour Defensive Driving (Point & Insurance Reduction) course will be held in two parts, on Monday and Thursday, March 22 and 25, in the Brookhaven Center South Room, from 6 to 9:15 p.m. The course is open to all BNLers, BSA and DOE employees, users, contractors, other guests, and their family members. The cost is \$38 per person. Preregistration is required. To register, call Ed Sierra, 821-1013, and leave a message. Or take a New York DMV approved course (Use code: "SAVE10" for \$10 discount) online: <http://www.lidrivsafe.com/>.

From the Louvre to NSLS-II: Eric Dooryhee's Research Bridges the Centuries

Over the past ten years, Eric Dooryhee has been using synchrotron radiation diffraction (SRD) to examine ancient objects and artifacts from the collections of the Louvre museum in Paris, France. Nowadays he is concerned with SRD's future frontiers as group leader for the x-ray powder diffraction beamline at what will be the most advanced synchrotron light source in the world, National Synchrotron Light Source-II (NSLS-II) at BNL.

Before joining the NSLS-II project staff last June, Dooryhee had never been to Long Island, and had only brief glimpses of the United States while attending conferences.

"I was at a conference in Warsaw, Poland, when I saw an ad for this position," he said. "The job description sounded like a good match with my profile and I liked the project; I thought I would have a go at it."

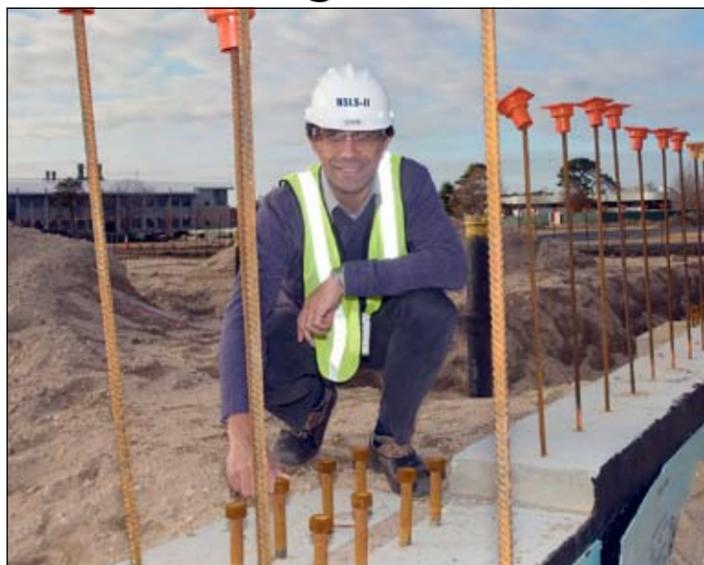
"It's fantastic to be on board such a new project in the initial stages," he said. "To start years before it opens and get involved in the initial conception and design — it's a great challenge. Everyone is so committed to the collective goal of getting the facility ready for Day One."

Dooryhee is a physicist who has specialized in powder diffraction at most of the research facilities where he has worked. These include the Synchrotron Radiation Source at Daresbury, UK; the Interdisciplinary Research Center with Ions and Lasers in Caen, France; the European Synchrotron Radiation Facility in Grenoble, France; and the Neel Institute, also in Grenoble. He has a master's degree in hard condensed matter physics and crystallography, and a Ph.D. in radiation physics, both from the University of Paris.

Egyptian Antiquities at the Louvre, Including Cosmetics

While working in Grenoble, he started to use SRD to examine ancient objects, in collaboration with the research facility at the Louvre.

"I started to work with L'Oréal chemists and the musées de France's Research Laboratory as part of a fellow researcher's Ph.D. project," Dooryhee said. "We analyzed the precious contents of dozens of makeup jars and reeds from the Louvre's Egyptian antiquities collection. Sophisticated analytical equipment and techniques such as



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scanning electronic microscope, x-ray diffraction, synchrotron radiation, spectrometry and chromatography were necessary to use on minute quantities of powder to solve the mystery of the ingredients that were used in these age-old cosmetics," he said.

Among the mineral pigments identified (either white or black, all lead-based), the team found other white minerals like laurionite and phosgenite, fairly rare in nature.

"Based on ancient texts, and since cerusite is equally white and much easier to obtain, we concluded laurionite and phosgenite were probably added to the makeup for their therapeutic properties," Dooryhee said. "This conclusion seems amazing in regard to the well-known toxicity of lead salts and this issue was recently addressed in a letter to *Analytical Chemistry*. My colleagues showed that these lead materials were likely to stimulate some immunological defenses and help the eyes resist the frequent bacterial contaminations in the marshy areas along the Nile river.

"Were Egyptians capable of synthesizing those, thousands years ago? The answer is 'yes,'" he added. "Moreover, our diffraction analysis of the powder microstructure revealed that Egyptian cosmetologists also knew how to artfully dose ingredients to create the shiny or mat finish texture they wanted."

SR2A: Synchrotron Radiation in Art, Archaeology

Subsequently, Dooryhee's work has included studies on a range of artifacts: cosmetic products, ancient ceramics, and fresco paintings of the Mediterranean

from the Greco-Roman times, gilded medieval Islamic glazed ceramics and easel paintings of the Renaissance. More recently, he did more diffraction and spectroscopic work on the Maya Blue pigment, found in the forests of Meso-America and renowned for the remarkable resistance of its color. Since 2005, Dooryhee has run a series of international conferences called SR2A, for Synchrotron Radiation in Art and Archaeology. The next venue is the Van Gogh Museum of Amsterdam in November 2010: <http://www.sr2a.ua.ac.be/>.

As team leader for his NSLS-II beamline, Dooryhee tries to envision the future of SR powder diffraction and materials science in five to ten years time.

"The scientific grand challenge is to obtain robust and quantitative structural information about materials that are complex, nanostructured and often heterogeneous," he said. "The beamline must address future challenges in areas like hydrogen storage, carbon dioxide sequestration, advanced structural ceramics, catalysis and materials processing — all *in situ/in operando* experiments difficult at other national user facilities."

He also feels an important responsibility to build both an exciting scientific program around the beamline and a vibrant community of users.

With such challenges ahead, Dooryhee still plans to find the time to explore his new home.

"I'm starting a new life in America, and I am looking forward to seeing some of the places that I have only heard about," he said. — Kay Cordtz

BSA Noon Recital, 3/17

Violist Jennifer Stumm will perform on Wednesday, March 17, at noon in Berkner Hall. Sponsored by Brookhaven Science Associates, the company that manages the Lab, the concert is free and open to the public. All visitors to the Lab age 16 and older must bring a photo I.D.

Stumm, hailed by *The Washington Post* for the beauty of her playing, has forged a unique musical path as a dynamic advocate for her instrument, the viola, which she spotlights with innovative programming and irrepressible enthusiasm.

Stumm is a winner of three major competitions: the Concert Arts Guild, the William Primrose, and the International of



Geneva. She recently performed at London's Wigmore Hall, and at the BBC Promenade Concerts, and is violist of the acclaimed London-based Aronowitz Ensemble. — Jane Koropsak

TIAA-CREF One on One Retirement Counseling

A TIAA-CREF consultant will visit BNL on six days in April: Thursday, 4/1; Wednesday, 4/7; Thursday, 4/8; Thursday, 4/15; Tuesday, 4/20; and Wednesday, 4/28 to answer employees' questions about their financial matters. The consultant will help you: understand the importance of protecting your assets against inflation, find the right allocation mix, learn about TIAA-CREF retirement income flexibility, and compare life-time income vs. cash withdrawal options. For an appointment, call 1-800-732-8353 or go on-line at www.tiaa-cref.org/bnl and select "set up a meeting."

Buy Daffodils To Benefit Cancer Research

BERA is selling daffodils to benefit the American Cancer Society. Make a \$10 donation and receive a bouquet of ten fresh-cut daffodils. Proceeds will help in the fight against cancer. Prepay at the BERA Store in Berkner Hall, weekdays 9 a.m.–3 p.m. The flowers will be delivered during the week of March 15.

Take Part in Federally Employed Women's 41st National Training Program

The national organization of Federally Employed Women (FEW) will once again sponsor the annual National Training Program (NTP) during the week of July 12 – July 16, 2010 in New Orleans, LA.

The FEW NTP offers workshops covering subjects in a variety of areas such as: career management, technology and technical skills, personnel, equal employment opportunity and diversity issues, as well as work, family, and health issues. These high-quality workshops are well run and relatively inexpensive when compared to other training courses. This training program has become very popular with the women who attended it in the past because of the quality of the professional and personal development classes.

Requests to attend the FEW 2010 NTP should be directed to departmental managers and supervisors. All managers and supervisors are encouraged to rotate this professional development opportunity as widely as possible within their departments, division or work groups. This year's FEW coordinator is Marge O'Loughlin, Diversity Office, Ext. 6253 or moloughlin@bnl.gov. She is available to answer all questions pertaining to the conference and FEW memberships. Employees interested in attending the conference should contact their supervisors as soon as possible; workshops and hotel accommodations tend to fill quickly.



Remember: Donate To the BNL Food Drive!

BERA Trips, Events, Updates

NY Knicks vs. Denver Nuggets: Tuesday, March 23. Leave BNL at 4 p.m. and leave Madison Square Gardens, NYC, after the game, about 10 p.m. Cost is \$55 per person, includes transportation and ticket.

Book Fair: April 1 & 2 in Berkner Lobby from 10 a.m. – 2 p.m.

International Auto Show: Saturday, April 10, at the Javits Center, NYC. \$20 per person. Leave Brookhaven Center at 9 a.m., leave the show at 4:30 p.m.

Atlantic City: Saturday, April 17, at the Showboat casino on the boardwalk. \$25 per person, get \$25 in slotplay on arrival. Leave Brookhaven Center at 9 a.m., leave Atlantic City at 8 p.m.

Long Island Ducks: The Ducks' baseball season begins on April 22 and BERA has six seats for each home game. Tickets go on sale at 9 a.m. on Friday, March 19, at the BERA Store. Tickets are \$10.

NOTE: Limits apply: one fireworks game only, plus two additional games maximum (first week only).

Brooklyn Botanic Garden: Saturday, May 1, for the Cherry Blossom/Hanami Festival. \$20 per person. Leave Brookhaven Center at 9 a.m., leave the gardens at 4:30 p.m.

Note from BERA: Due to limited availability and high cost, BERA will not be able to buy Yankee tickets this season. We are waiting to confirm two Mets games.

CALENDAR

— WEEK OF 3/15 —

Wednesday, 3/17

*BSA Noon Recital

Noon. Berkner Hall. Prize winner violist Jennifer Stumm will perform. See notice below.

*Claire Gmachl Gives Talk on Lasers

4 p.m. Hamilton Seminar Room, Bldg. 555. Claire Gmachl, Princeton University electrical engineering professor, will discuss "Engineering Light: Quantum Cascade Lasers." All are welcome to this free event, sponsored by Brookhaven Women In Science. Visitors of 16 and older must carry a photo I.D. See pg. 1.

— WEEK OF 3/22 —

Monday, 3/22

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.

Friday, 3/26

*Virginia Bluegrass Concert

8 p.m. Berkner Hall. "The Crooked Road" star performers and featured guests. For ticket information, see pg. 4.

Saturday, 3/27

*Gypsy Jazz Concert

8 p.m. Berkner Hall. Frank Vignola and the Hot Club, and Bucky Pizzarelli. For ticket information, see pg. 4.

— WEEK OF 3/29 —

Thurs. & Fri. 4/1 & 2

Book Fair

10 a.m.–2 p.m. Berkner Hall lobby. Books, games at discounted prices.

— WEEK OF 4/12 —

Monday, 4/12

Pegram Lecture I: Dark Energy

4 p.m. Berkner Hall. Christopher Stubbs, Harvard University, will give the first of two Pegram Lectures, on dark energy. All are invited to this free lecture, open to the public. Visitors to the Lab of 16 and older must carry a photo I.D.

Tuesday, 4/13

BREA Meeting

1-2:30 p.m. Research Support Bldg. 400, Conference Room 1. Brookhaven Retired Employees Association meeting. All retirees welcome.

Pegram II: Gravitational Effects

4 p.m. Berkner Hall. Christopher Stubbs, Harvard University, will give the second Pegram Lecture, on novel gravitational effects. All are invited to this free lecture, open to the public. Visitors to the Lab of 16 and older must carry a photo I.D.

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 benefits-eligible employees within the department/division and/or appropriate bargaining unit, with preference for those within the immediate work group; (2) present benefits-eligible 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. Access current job openings on the World Wide Web at www.bnl.gov/HR/jobs/.

To apply for a position, go to www.bnl.gov. Select "Job Opportunities," then "Search Job List."

LABORATORY RECRUITMENT - Opportunities for Laboratory employees only.

ADMINISTRATIVE SERVICES ASSISTANT (A-2) - Requires formal secretarial or office administration training or equivalent, plus four years of relevant experience; some BNL experience preferred. Excellent communication skills, both oral and written, are required. Must possess computer proficiency in MS Office Products such as Word, Excel, PowerPoint, Access and Outlook as well as knowledge of PeopleSoft for domestic travel systems, web requisitions and ordering supplies. Knowledge of MS Front Page or other web publishing software and the Assessment Tracking System (ATS) is also desirable. Provides administrative assistance to the Global & Regional Solutions (GARS) Directorate Research Operations Office with specific responsibilities in the Tier 1 process including data collection and entry, transmittal, and reporting. Primary responsibility for Research Operations Office support includes: web requisitions, meeting scheduling, tracking deliverables, travel arrangements, and presentation preparations. Will also serve as Alternate Property Management Representative and ATS Administrator for the Directorate. Must be able to work under pressure, balance multiple priorities and work independently and as part of a team. With minimal guidance will provide varied support to Directorate staff in the areas of ES&H, training, document control and records management, and facility management. GARS Directorate. Apply to Job ID #15231.

MAIL CLERK - Temporary (May 3, 2010 through September 19, 2010) - Under immediate supervision, processes, picks up and delivers incoming, outgoing, and intra-Laboratory mail. Training required. Staff Services Division. Send transfer form to Diana Hubert, Bldg. 400B.

OPEN RECRUITMENT - Opportunities for Lab employees and outside candidates.

SCIENTIST - Radiation Biologist/Biochemist - (DNA repair; space radiation; ionizing radiation; DNA damage responses) - Requires a Ph.D. in cell or molecular biology or biochemistry, postdoctoral experience, and at least six years of experience as an independent investigator is required. Will be expected to develop an innovative research program in mammalian DNA damage responses and/or the repair of DNA damage produced by ionizing radiation with an emphasis on systems related to the effects of protons and heavy ions on manned, long duration space flight. Will serve as the manager for cell biology experiments at NASA's Space Radiation Laboratory (NSRL; www.bnl.gov/medical/NASA/NSRL_description.asp) at BNL, a unique user facility that provides proton and heavy ion radiation similar to that found in space to researchers in NASA's life sciences research programs. Partial salary and a team of three user support personnel are provided by this task. May have an opportunity to develop and lead a research team to study the effects of low dose and low dose rate ionizing radiation for DOE's Low Dose Radiation Program (<http://lowdose.energy.gov/>). The Biology Department has a distinguished staff of ~30 scientists with strengths in molecular, structural and plant biochemistry and biophysics with which to interact (<http://www.bnl.gov/biology/>). Candidates should submit (in one document) curriculum vitae, description of research interests, and a list of the names and email addresses of three references. Under direction of Dr. Carl Anderson, Biology Department. Apply to Job ID #15233.

POSTDOCTORAL RESEARCH ASSOCIATE - (nuclear or high-energy physics) - Requires a Ph.D. in nuclear or high-energy physics with experience in lattice gauge theory and numerical analysis. Previous work in finite temperature QCD is highly desirable. Will be expected to contribute to the research of the Lattice Gauge Theory Group on topics in lattice-regularized field theory. This position will be a conditional two-year appointment. After electronic submission

of application, please arrange to have three letters of recommendation sent to nkelly@bnl.gov (email strongly preferred) or mail to N. Kelly, Physics Department, Bldg. 510, Brookhaven National Laboratory, Upton, NY 11973-500, USA. Under the direction of F. Karsch. BNL policy states that Research Associate appointments may be made to those who have received their doctoral degrees within the past five years. Apply to Job ID #15237.

TECHNOLOGY ARCHITECT (I-9) - Requires BA/BS degree or equivalent experience, and a minimum of 10 years' work experience as a telecommunications analyst/engineer in large enterprise environment. Demonstrated ability to work independently designing voice network, administering integrated telecommunications platforms & related data bases & processes. Comprehensive knowledge & experience of multiple voice technology architectures & their application design characteristics to include PBX, Voice Messaging, Call Center, Call Accounting, Integrated Voice Response, Conference Bridge & Video Teleconferencing, as well as Voice Network engineering & provisioning of carrier services are required. In addition to having technical knowledge base, must demonstrate the ability to manage & execute multiple high profile project initiatives concurrently and design & implement complex technology solutions & migrations with minimal supervision. High commitment to customer service and the ability to maintain flexibility in rapidly changing environments essential. Day to day responsibilities include supervision of Telecommunications operational functions & contracted services, project support for all aspects of site wide telephone system replacement project. Certifications on Siemens, Avaya &/or CISCO products preferred. Experience with deployment of VoIP & IP Telephony preferred. Ideally, will have demonstrated experience in technology migrations & integrated services gained in an enterprise, scientific or academic environment similar to that of Brookhaven National Laboratory. Information Technology Division. Apply to Job ID #15229.

OFFICE SERVICES ASSISTANT (CW-2, term appointment) - Requires a high school or equivalency diploma and a minimum of two years' related work experience. Under close supervision, carries out basic work assignments that may require the appropriate selection of detailed guidelines and procedures. Accurate data entry skills are required; experience using a computer to schedule appointments and send correspondence is necessary. Excellent oral communication, interpersonal and organizational skills are all required. Requires a high level of personal integrity with emphasis on confidentiality and discretion. Experience in medical field preferred. Must be able to work effectively in a team environment as well as independently within established procedures. Responsibilities include clerical duties associated with services provided by the Occupational Medicine Clinic. Will be responsible for but not limited to: processing and filing medical records, photocopying, answering phones, scheduling in electronic record system and serving as primary liaison between the customer and OMC professional staff. Human Resources & Occupational Medicine Clinic. Apply to Job ID #15232.

CUSTODIAN POSITIONS (LG-1) - Temporary (May 3, 2010 through September 19, 2010) - Under general supervision, performs general cleaning and housekeeping duties in all Laboratory housing units. Staff Services Division. Apply to Job ID #15234.

Motor Vehicles

08 SUZUKI GSXR 1000 - 5.5K mi. mint never dropped, blue/white, must sell. \$10,000 neg. Charles, Ext. 2021, 786-4195.

06 TOYOTA SIENNA - Excel. cond., orig. owner, well maint., loaded, must sell. 806-1410.

05 KZ TRAVEL TRAILER - FRONTIER - 25' in tow; slps 8-10, outside shower & stove. UVW 4,773 lbs. \$13,500 neg. 275-0745.

05 HONDA SHADOW SPIRIT - 750, excel, w/shield, sddl bgs, just svcd, pics avail. \$3,500 neg. Ext. 7132, asweet@bnl.gov.

05 FORD FOCUS ZX5 - 61K mi. 5dr h'back, a/t, excel, 2 sm scratches on hood, 6 CD changer. \$5,800 neg. Ralf, seidl@bnl.gov.

02 LINCOLN TOWN CAR - 480K mi. Sig. Series, 1 owner, all opts incl, heated seats, cd, showrm cond. \$9,500. 698-0057.

01 HONDA ACCORD EXL - 119K mi. no accidents, V4, leather, pwr all, cd/satt, c/c, p/s, a/c, rem start, grt cond. \$5,600 neg. 742-1202 or c/jz_chem@yahoo.com.

00 TOYOTA CELICA - 114K mi. 5 spd manual, excel, new tires, blue Spoiler, m/roof, p/w, p/l, CD, \$4,900. Ext. 7161, dalesio@bnl.gov.

99 MAZDA MIATA - 58K mi. c/c, a/c, p/s, p/b, p/w, 5 spd manual, prem. stereo, enkei wheels, excel cond. \$6,400 neg. 878-7655.

89 VOLVO 240 WAGON - 250K mi. Fair cond, won't start, gd parts & tires. a/t. \$200 neg. 929-6189, behrens@bnl.gov.

Boats

19' BAYLINER CAPRI/CUDDY - 125hp Merc. outbrd motor, escort trailer. Needs some int. restor. Must sell. \$1,500 neg. 873-7547.

Furnishings & Appliances

3-PC COFFEE/END TABLE SET - oak, carved details, turned legs, new/cost >\$1k, sell/\$300. Ext. 5669, harringt@bnl.gov.

ANTIQUA STEAMER TRUNK - w/keys, cust wden hangers, 21x21x40", \$50; sm m'wave w/carousel, 600W, \$25, Ext. 2854.

BUNK BED - metal, twin over full, red, mattresses incl, used but in excel cond, u pic up, \$200/obo. ah_sa73@yahoo.com.

DINING ROOM TABLE/HUTCH - Ethan Allen Trestle table (exp to Banqu sz), hutch w/glass/wood doors. aschroed@bnl.gov.

LOVESEAT - Thomasville, 60x36, off white, matching chr, osemi attached pillows, excl cond, ask/\$300. 744-7225.

ROCKING CHAIR - Wooden frame, v/gd cond, upholst'd, blue w/multi-colored flecks, u pick up, \$30. Susan, 949-4046.

ROLLING KITCHEN CART - White tile top over white/nat. wood cabinet, 24W x 18D x 33H. \$40. 878-9020 or sivertz@bnl.gov.

Miscellaneous

MINK COAT - full length, excel cond, sz 8/10/med, ask/\$500. Ext. 7187, niksa@bnl.gov.

PARAFFIN SPA PLUS - by Homedics; NEW- Never used, ask/\$20 w/extra paraffin refill incl. Jane, Ext. 2198, 909-7080.

PRINCESS COSTUMES - for 13 and 16 year old girls. Donna, Ext. 2716, 878-2425 or storan@bnl.gov.

TREADMILL REDUCED \$ - Pro-form Crosswalk LM folding/space saver treadmill w/upper body arm workout. excel cond, \$200. lysik@bnl.gov.

YORKIE/MIX PUPPY - Female 3 mos old, needs loving home, no sm children, puppy is v/sm, ask/\$200. Linda, Ext. 7187.

Audio, Video & Computers

CELL PHONE - Verizon wireless prepaid Samsung Smooth. Hardly used. Balance of \$36.32. Mike, Ext. 2550, 744-7360.

DELL DIMENSION 4600 D'TOP - Intel Pent'm 4, 2.4 GHz, 512MB RAM, 128MB NVidia Gefce FX5200 grphcs crd, more. \$200. Ext. 7570.

NORTON ANTIVIRUS 2010 - 3pc, new/\$20. Ext. 3485.

RCA 52" TV - Projection screen on wheels, excel cond, 3 yrs old, to lg for rm, model #R52WH76 ask/\$450. 445-4027.

SIRIUS STARMATE (SS) PLAYER - Model ST-B2R, this is the boom box attachmt for the SS, works well, have orig box. Ext. 3317.

STEREO CASSETTE - dual tape player, \$25; Acstic Rsrch Pwr Partner 570 cntr spker 70W, \$15; 2/36" JV spkrs, \$30. 375-7264.

WEB CAM - Logitech QuickCam Pro 9000, \$25. Michael, Ext. 4872.

Sports, Hobbies & Pets

GUITAR TUBE AMP - Crate V50 50W all Tube Guitar Am, 6L6 Power tubes, 12" spkr, like new, Mark, Ext. 2599.

LITTLE TYKES BASKETBALL HOOP - extends to 6 ft, \$10. John, Ext. 4028.

MOTORCYCLE CHAPS, LADIES - black leather, plain, Biker's Club, worn 2-3 times, Sm., for about 5'4". Ext. 3906.

PILATES POWER GYM - Brand New Still In Box-Fitness Quest Inc. Brought from HSC \$250. Melinda, Ext. 2280.

SKI BOOTS - Mens Rossignol Saito 4/ buckel size 28.5, about 10 or 10.5, in great shape, \$50. Mark, Ext. 3172, 365-9822.

Tools, House & Garden

COLEMAN GENERATOR 1850 - Powermate, rarely used, grt cond. Runs up to 7 hrs, 2-120V outlets, 70lbs, \$250 neg. Ext. 7132.

TORO BLOWER/VACUUM - Metal Impeller, Model 51599, \$15; wet vac, Ridgid 5 HP. 12-gal., missing exten. wand, \$10. Ext. 4872.

Community Involvement

VOLUNTEERS NEEDED - Help educate 5th & 6th graders on dangers of smoking, alcohol, drugs. Just 2 hrs/month (one hr Mon. 7-8 p.m. for training w/script provided, & one hr in school time Thur or Fri., with trained vol. student to assist) Prog. runs through May. Marilyn Gibbons Wanek. 744-4077.

Wanted

BOOSTER CAR SEAT - in v/gd cond, for a child 40-100 lbs. Linda, Ext. 7430 or lindab@bnl.gov.

DONATIONS OF DOG/CAT FOOD - needed for pets of struggling families/elderly. Donations to go to LI Cares which distributes to pantries on LI. You can help w/putting collection bin in your bldg. Kathleen, Ext. 3161 or kratto@bnl.gov.

ELECTRIC PERCOLATOR - excel cond only. 291-2039.

HOME HEALTH CARE AIDE - needed for sweet elderly woman in Bayport, live in w/ personal care, 5-7 days wkly. 874-3606.

NEW/GENTLY USED CLOTHES - all sizes, children's books, and toys to be donated to 76 families living in a local shelter. Contact Laura X4027, lbussemi@bnl.gov and Kathleen, Ext. 3161 or kratto@bnl.gov.

Lost & Found

HYUNDAI CAR KEY - found nearby Biology bldg 463, single key on small ring. Christine, Ext. 5090 or carter@bnl.gov.

Musical Takeover at BNL: Friday & Saturday, 3/26 & 27

Two magnificent concerts are in store at the Lab for late March — read details about them below. On Friday, March 26, Appalachian Mountain bluegrass folk music will take the stage — and on Saturday, March 27, wild gypsy jazz will take over: two deep-rooted, unique styles of American music, interpreted by acclaimed musicians at the peak of their skill. Don't miss either, come to both!

Traditional Country Music Arrives On Long Island via 'The Crooked Road' Virginia bluegrass musicians will perform, 3/26

The uniquely American folk music of the Appalachian Mountain region of southwestern Virginia is very much alive and well and, sponsored by BERA, BNL will host an evening of music and fun when musicians from Virginia's "Crooked Road" project perform at Berkner Hall on Friday, March 26, starting at 8 p.m. The Crooked Road is an area within the Appalachians which has a rich musical heritage Through "The Crooked Road:

Virginia's Music Heritage Trail," a project founded in 2003, the tradition is being preserved.

Among performers will be singer and bassist Linda Lay and her husband David on guitar, and recording stars Jonny Clutch and the Jambusters.

Tickets are \$15 in advance at the BERA Store in Berkner Hall and www.ticketweb.com and \$20 at the door. All visitors to the Lab 16 and older must bring a photo I.D.

Now We Hazz — Jazz! 3/27

Guitar virtuoso Frank Vignola & the Hot Club With guitarist, banjo player 'Bucky' Pizzarelli

Berkner Hall will surge to life with wild, gypsy jazz music on Saturday, March 27, when guitar virtuoso Frank Vignola and the Hot Club perform the music of jazz legend Django Reinhardt. Joining Vignola on stage will be "Bucky" Pizzarelli, an American jazz guitarist and banjoist.

Sponsored by the BNL Music

Club, the concert, which starts at 8 p.m., is open to the public. Visitors to the Lab 16 and older must bring a photo I.D.

Tickets for the show are \$25 in advance and \$30 the day of the show. Buy tickets at the BERA Store, through www.ticketweb.com or at the door. Advance ticket purchase is recommended.

AdoptaPlatoon Needs Lip Balm, More

AdoptaPlatoon is collecting new items for 40 men serving in the military in Afghanistan. Some items they could use are: lip balm (with or without sun block), cornstarch powder, medicated powder, and baby wipes. Please place donations in one of the collection boxes in Bldg. 490, Clinic; Bldg. 400, Lobby; Bldg. 488, Lobby; Bldg. 510, Library, by March 18. If you prefer to send a check, please send it to Brookhaven Veterans Association "AdoptaPlatoon," P.O. Box 671, Upton, NY 11973.

KEYS & USB DISK - lost 3/8, important data on the disk. Thanks a lot. Chenghao, Ext. 5060.

Free

BUNK BED FRAME - Ikea white metal, full over full bunk bed frame. Built in ladder. Sean, Ext. 5331.

COAL - for coal burning stove, u pick up. Peter, 467-4386.

INTERIOR DOOR - 36 in, new, framed, luan, never installed. And 4x8 sheet 1/2" particle board. You pick up, Cutchogue. Ext. 3492.

For Rent

KISSIMMEE, FL - T/Share, 2-bdrm unit, sleeps 8, Orlando, 15 mins to Disney World, www.calypso.com for pics. \$1,200/wk neg. Ext. 5894 or nrvera@bnl.gov.

NEW BERN, NC - T/Share, Waterwood Townhouses on Lake, 2 bdrms, sleeps 8, full kit, w/d, fishing, 7/18-7/25, <http://tinyurl.com/af8zc5>. \$550/wk. Ext. 3750.

BELLPORT VILLAGE - 1 bdrm upstairs apt, fully carpeted, lr/kit combo, priv ent & drway, enjoy village amenities, incl util, avail 4/1. \$1,125/mo. Jim, 275-0745.

CALVERTON - 2 brm (1200 sqft) guest house, Btg Hollow, 1 bth, eik, huge l/r. Cent. air. Use of pool. Furn/urnfurn. No smkg. Sec. Dep. \$1,200/mo neg. Ext. 7502.

CALVERTON - Btg Hollw 4 bdrm 3 bath, b'ment (extra bdrm, bath, sauna etc.), l/r, d/r, laundry, swim pool, lge prop., furn/urnfurn, sec.dep., refs. \$2,200/mo neg. Ext. 7502.

FARMINGVILLE - 1st fl bdrm in lg shared house, open access to kit, d/r, l/r. incl. cable, wifi, phone, elec. \$450/mo. Ben, 513-8275 or benonium@gmail.com.

MASTIC - 1 bdrm, eik, full bath, den, own entr, own driveway, 1 month sec, no pets/smok, 10 min to Lab, all incl. \$850/mo. joe mondi, Ext. 3499, 219-7241.

Services

A complete list of services available from fellow BNLers and their family members — carpenters, chefs, electricians, personal trainers, photographers, tutors, weekend elder caretakers, and more — is available in the PDF version of this week's Bulletin. Those who do not have access to the Internet can request a printed copy of this list by calling (631) 344-2346.

On the Web, the Bulletin is located at www.bnl.gov/bnlweb/pubaf/bulletin.html. A calendar listing scientific and technical seminars and lectures is found at www.bnl.gov/bnlweb/pubaf/calendar.asp.

Bldg. 134, P.O. Box 5000 Upton, NY 11973-5000 phone: (631) 344-2345 fax: (631) 344-3368 e-mail: bulletin@bnl.gov

Services

Services are neither screened nor recommended by the Bulletin.

#1 TUTOR MATH – Mathematics & SAT, Physics, Science, Electronics, Test Preparation, Special Projects, Practical Internet, All Grade Levels, For Top Results call. 344-3588.

35MM SLIDE SCANNING – www.picture-perfectscans.com scans & color corrects 35mm slides, photos, negatives & converts them to DVD. DVD Music slide-shows available. Port Jeff. 928-6469.

A+ SINGER WITH DUO – Weddings, Events, Concerts: Yvette Sings Popular Songs with Bob on Piano/Guitar, Brian on Drums. Select Music for Occasion. Reasonably Priced. 516-680-4012.

A1 LAWN IRRIGATION – complete lawn sprinkler systems installed, repairs, start ups. quality work. Michael, 284-2277.

ADULT CARE GIVER – Certified in: PCA, HHA & CNA Available Weekday Nights and Weekend Nights . Christy, 682-2471.

AIRPORT SERVICE – we go to all airports and nyc lab discounts call ask for tony. 589-5555.

AMAZING FONDANT CAKES – Artist/chef creates 3 dimensional cakes that are works of art. order now for the holidays great centerpieces. mike, 775-7247 or mmicari28@yahoo.com.

AUTOMOTIVE SERVICE – all makes & models, 30 yrs dealer exp, factory trained, professional, Ref avail, drop off in the AM pickup in the PM. 10% lab discount. Bill, 681-3061.

BABY SITTING – college student home for summer w/9yrs experience from newborn-12yrs of age. Carolyn, 613-514-5447.

BABY/PET SITTER & DOG WALKER – 14 yrs experience w/newborns & older as well as special needs. BS in Animal Behavior from Purdue University. Ref avail. Sarah, 603-6114 or sarahrseiler@gmail.com.

BABYSITTER – Experienced, responsible, 16 year old will babysit evenings and weekends in your home. Miller Place/Rocky Point/Mt. Sinai area. 806-6378.

BABYSITTER – Experienced & responsible 26yr old BNL Admin Assit avail to watch your children wk/nights/wkends. I have much experience and references available immediately. Michelle, Ext. 7146, 767-9755 or mscaduto@bnl.gov.

BABYSITTING – Responsible college grad is available to babysit your children in the evening and on weekends. Lots of experience with kids! References available. Emily, 516-662-5896.

BABYSITTING – 14 year old honors student, will babysit in your home, eve's and weekends. Reliable. Manorville and surrounding area. Amanda, 874-8631.

BABYSITTING & PETSITTING – Retired nurses aide will watch your children or pets while you are away. Donna, 398-8024.

BABYSITTING/HOUSEKEEPING – experienced woman will babysit and give TLC to your child, day/evening avail; will clean your house to meet your standards. 874-4049.

BABYSITTING/MOTHER'S HELPER – 14 year old honors student, will babysit or give an extra hand in your home, eve's/wkends, reliable, reasonable rates, Rocky Point and surrounding area. Megan, 744-6309.

BOAT STORAGE – Out/inside boat storage avail. @ CM yd., trailer boats welcome, summer boat slip avail. for 15' boat. 878-2577.

BOUNCE HOUSES/INFLATABLES – Summer Party?! We've got the best babysitter you can rent! Our bounce houses, Obstacle course, wet/dry slides keep kids entertained for hours!!! www.Linflatables.com. Party Playgrounds, 681-7711.

BRICKWORK – Spring is near, reset your existing walk or patio to look brand new, BNL discount, no job too small, call for free estimate. Tony, 736-7942.

C&S HOME IMPROVEMENTS – Restorations and renovations including windows, cust woodwork, siding, crown moldings, doors, floors, kitchens, extentions, baths, dormers, Lic & Ins'd. Rob Berry, 714-4654.

CAR DETAILING SERVICE – Great service, reasonable prices, call for info & appointment. Chris, 960-6243.

CAREGIVER – Nurse available to take care of elderly/sick, 10 yrs experienced, references, own car. Janina, 283-0561.

CARPENTER/CONTRACTOR – General Contracting, Home Improvements and Maintenance on Large and Small Jobs. 30 yrs Experience, Excellent References, Reliable, Licensed and Insured. Tony, 727-6550 or agkas@hotmail.com.

CARPENTER/CONTRACTOR – All phases of home improvements. Specialize in custom kitchens, tile work. Landscape ponds and decks. 25 yrs exper. refs, pics avail, Lic/insured. Ray, 654-1970.

CARPENTRY – int/exterior work, built-in cabinets, entertainment centers, all types of moldings, raised paneling & more, see pics on www.RCcustomwoodwork.com, best job absolute lowest price. Rick, 236-3677 or Rickchick3rd@yahoo.com.

CENTRAL AC – Start ups, repairs, & installations rasonable prices, also available power washing and gutter cleaning. Tom, 345-6337.

CENTRAL AIR CONDITIONING – Spring Maintenance including filter change, refrigerant charge, amperage draw, thermostat accuracy, acid wash condenser coil. \$110.00 per unit Central Air Installations. Paul, 821-4003.

CERTIFIED TEACHER – Available to tutor Elementary Ed. up to grade 6 and Literacy (Birth-12th grade); flexible schedule. \$35.00/hr. Refs furnished upon request. Call Agnes. 516-526-9091.

CHAINSAW SHARPENING – \$5/off saw or \$7/on saw, any length chain, can have ready by next day. Peter, 772-4751 or pheilig@bnl.gov.

CHILD CARE – Mature woman with 22 years experience will care for your child in my home in the Holbrook area. References upon request. Please call. Terry, 472-1193.

CHILDCARE – High School student available for summer childcare, all hours, lab vicinity, Manorville area, experience with young children. (Mom works at lab). Nicole, 672-5981.

CHILDCARE AVAILABLE – Loving mother available to care for your child in my home or yours. Very qualified to work with children with disabilities and children of all ages. References available. Call for availability. Anna, 775-7350

CHILDCARE IN NO. SHIRLEY HOME – clean, kid friendly, smoke free home. Located right off exit 68 of LIE and Wm. Floyd Pkway. Available Tue-Sun. (Mon. are negotiable) starting at 6 AM. Reasonable rates. Shirley Tuerlings, 281-7658 or tully2@optonline.net.

CHIMNEY SWEEPS – Fireplaces, wood, coal and oil flue systems. Stainless steel chimney caps, chase pan tops and liners. Michael, 821-5526.

COMPUTER REPAIR – PC Software/Hardware/Network repair, installation, consultation. Certified and Experienced. Ryan PC Support, 926-1075.

COMPUTER REPAIR – I love to fix computers, Virus removal, tune up, repairs. Save your data, pictures, music, etc., 100% satisfaction guaranteed. Richard, 816-1590.

COMPUTER REPAIR SERVICES – Does your computer have you ready to go crazy? I specialize in software issues such as viruses, malware...etc. I also fix all hardware issues. My business is your satisfaction. Jeffrey, 682-0092 or jccprepairs@gmail.com.

COMPUTER REPAIR/ TRAINING – Reliable, affordable, one on one training and repair. For more information visit www.axiompc.net. Nicholas, 413-5491 or info@axiompc.net.

COMPUTER SERVICES – Repair/PC Tune Ups/Virus Removal, Remote Support or Onsite Support for all of Suffolk & Nassau Counties. Reasonable rates, Why Call a Geek? When You Can Call a Hero!. Tom McCabe, 888-443-7683 or tom@herotechs.biz.

COMPUTER SERVICES, ALL – Home & business specialist. New system set ups, tune-ups, virus control, lessons from cert. business teacher. Plenty of references, reasonable rates. Jim, 821-2558.

CUSTOM DESIGNS & WOODWORKING – State-of-the-art cabinetry design, Interior Design, Color Consulting, and Window Treatments. Over 12yrs experience. Browse our website at http://woodbinge.com/. Michael Paluck, 929-5480 or woodbinge@optonline.net.

CUSTOM PAINTING – all types of paint, spackle, business or residential, Lab discount. Billy, 834-2945 or kawibp@hotmail.com.

CUSTOM QUILTING – Turn your keepsakes; Wedding invitations, Birth & confirmation announcements, Bar/Bat Mitzvah and more, into works of art to display. Unique Wedding/Shower gift idea. Carol, 727-7227.

D J MUSIC ENTERTAINMENT – all occasions weddings graduations sweet sixteens birthdays ect. budget rates. wade, 516-807-3438.

DAY CARE – The Learning Experience, brand new facility in Mount Sinai, all BNL employees recieve 10% off tution, 6wks-6yrs old. John, 476-8700.

DECORATIVE GLASS – Beautiful solutions for all decorative glass needs, front door, kitchen, bath, skylight, or odd-shaped windows all types of glass, custom designs. 338-5412.

DEFENSIVE DRIVING COURSE – Take a New York DMV approved course online: http://www.lidrivessafe.com, For more information or a traditional classroom schedule call Ed Sierra at 631-821-1013. esierra@bnl.gov.

DISC JOCKEY – Guaranteed to have every song you want to hear, customers can submit a special playlist for their occasion. Satisfaction guarantee! Available for all occasions. Affordable Rates. Michael, 719-492-8229 or mcross@bnl.gov.

ELDER CARE – wkends, 24 yrs experience, live in/out, BNL Employee. Susan, 384-3147.

ELECTRICIAN – replace defective switches and outlets, upgrade service equipment, run additional circuits, lighting. Steve, 758-7002.

ELECTRICIAN – 11 years experience, no job too big or too small, reasonable. Aaron. 905-1696.

EXPERT WRITING COACH – Fiction, poetry, college applications, term papers, SAT essays: Published author/poet works with students at all levels, including gifted. \$60/hr. References. Orel Protopouloscu, 473-4375 or orelprotopouloscu@gmail.com.

FITNESS AND NUTRITION – FOCUS ON YOURSELF FOR A CHANGE. Experience a progressive fitness methodology which guarantees YOU success, customized for YOUR body and lifestyle. On location or in home. Jean, 707-2029 or tully_jean@yahoo.com.

FLOORING: INSTALLS & REPAIRS – Carpeting, Vinyl and Laminate. Quality sales and service. Over 20 years experience. John, 987-6479.

FRENCH CLASSES – for children and adults (3-99 yo) on Sundays in Stony Brook University. Registration: http://www.schoolplusstonybrook.org/. 615-4215 or schoolplus_sb@yahoo.com.

GENEALOGY – advice and research on family history and genealogy, 30 yrs experience. Jim, Ext. 2432, 821-9178 or jchiggins22@hotmail.com.

GLUTEN FREE BAKING – The holidays are right around the corner! Place your order now! Pies, cookies, cakes, brownies ect. anything you need all GLUTEN FREE!. Amanda, 926-4384.

GUITAR INSTRUCTION – expert, patient, professional w/music degree and 30+ yrs of experience, inquiries invited. Reid Alburger, Ext. 4554.

HAIRCUT – 10% discount on all hair services for bnl employee and family, 145 Middle Country Rd, Pinewood Commons. Kim, 775-8585.

HAIRSTYLIST – full head hair weave; hair extensions/100. Cynthia, 803-2923.

HAND PAINTED PINSTRIPING – Old school hand painted pinstripping, boat/custom lettering, airbrush since '90. Dominick, 576-5195.

HANDYMAN – licensed & insured, home remodeling, interior/exterior painting, tilework, woodwork, renovations, powerwashing and building decks etc. Work done w/TLC. Bill, 281-4492.

HANDYMAN – Dependable, On-Time, Expert Service with Attention to Detail. Excellent references. Discount for BNL employees, Veterans & Seniors. John. 365-4815.

HANDYMAN – Need a Handyman? Call Joe, 875-0584.

HANDYMAN/CARPENTER/HOME IMPROV – Ig/sm, dropceilings, tree/club houses, countertops, sinks, faucets, vanities, drywall, patches, painting, furniture, fencing, cleanups, electrical, plumbing, \$125-\$175/. Rich, 255-3550.

HOME CAREGIVER/COMPANION – Mature, dependable, experienced in providing a caring, safe environment for your loved one, evenings, overnight, ref. avail. Paula, 834-6956.

HOME CLEANING – Home Cleaning Service: local long-islander with several generations of experience in cleaning homes; free estimates for cleaning, or routine errands for sick and elderly. I have a valid NYS driver's license as well as excellent references. Phone 878-7904; (cell) 631-514-4142. 878-7904.

HOME IMPROVEMENT – All types of repairs, roofing, siding, baths, kitchens, window replacement, decks. Licensed, insured, reliable. Brian, 399-0445.

HOME IMPROVEMENTS – Meticulous. If your home needs work or repairs, large or small, call Anthony. Lic./insured. Anthony, 312-2670.

HOME IMPROVEMENTS – Your home care co. All phases of home improvements: roofing, siding, bath, kitchen, decks & more. Call for any questions. Lic & Ins. George, 878-1178.

HOME REMODELING – siding/roofing/windows/kit., fin bsmts, trim work etc, 15yr exp, Lic/Ins, attention to detail is 1st priority, BNL discounts. Ronald, 804-5842.

HOME/BUSINESS CLEANING SERVICE – Experienced Local Cleaning Person to CLEAN HOME or BUSINESS. Reasonable Rates! Will do windows & light yard clean-up. Lisa, 909-1928 or misterplaia@yahoo.com.

HOMEMADE CAKES BY DEBBIE – All occasions, All shapes, Tiered or not. No fondant. Fillings upon request. Have references and pictures. Reasonable. Debbie, 776-0188 or djdg00@optonline.net.

HOUSE AND OFFICE CLEANING – Professional cleaning service, 20 years experience, leave a message for Sue. 281-7101.

HOUSE CLEANING – 15yrs experience. References available. Lab discount. Weekly, Bi-weekly or one-time cleaning, guaranteed satisfaction. Robyn, 804-6295.

HYPNOTIST – can help you make positive changes in your life; stop smoking, reduce stress, conquer fear, improve athletic performance. 474-3535.

INCOME TAX PREPARATION – Full accounting and tax services for businesses and individuals, personalized service at affordable rates, at your home or my office, 2042 North Country Rd., Wading River. Tomassa Rosini, CPA, 886-1545.

JEWELRY – All BNL employees recieve free verbal appraisal, free watch batteries and Jewelry cleaning, also get 20% off all Jewellery sales, excluding certified Diamonds. Salvatore, 259-2100 or jfalcone@bnl.gov.

KEITH'S CLEAN-UP SERVICE – Save yourself time and money call on Keith's Clean-up Service to remove unwanted debris from your garage and/or lawn. No Job is too small or too big. 569-1349.

LOCAL DRIVEWAY PLOWING – call for estimate. Steve, 404-8109.

MASONRY – Looking for an upgrade to your home/property? We specialize in brick paving driveways, cobblestone curbing, walkways, aprons, patios, blue-stone Plus. Licensed/Insured. Matt Ficeto, 478-7754 or ficetosmasonry@yahoo.com.

MESSAGE THERAPIST – PROFESSIONAL MESSAGE – Massages by Jamie. Specializing in Swedish, Amma, Stone and Pre-Natal. LMT will come to you, discount to BNL employees. Jamie, 294-6944.

MUSIC LESSONS – Flute and saxophone lessons, \$20/half hr or \$30/hr. Jenn, 806-6378.

OFF THE TOP TREE SERVICE – All phases of tree work Licensed/Insured free estimates, 957-6750 or 516-797-1080.

PAINTER – Interior and exterior painter, powerwashing, spackling etc. Very conscientious, neat and finished work looks like a piece of art done with TLC. Mike, 291-5026.

PAINTING/POWER WASHING – Painting/Staining/Specialty Finishes, Trim Work & Power Washing, free estimates, great prices, great work, honest and reliable. Tom Kramer, 300-7274 or Diamond0124@aol.com.

PERSONAL FITNESS TRAINER – OUR MISSION : to deliver the most effective, convenient and affordable fitness concepts to long island businesses and homes we come to you. www.enter-thebunker.com. bill, 456-2653.

PERSONAL FITNESS TRAINER – E.Setauket; Individually designed programs to meet your goals. Improve strength, conditioning, lose weight. knowledgeable, experienced. Reasonable rates. Bring a friend. Cory. 278-9076.

PERSONAL TRAINING – Only BERA sanctioned trainer, provide personal improvement routines and training, AFFA certified, motivational, sensitive, reasonable individual/couple rates, Get fit NOW!. Claire, 255-9333 or rhosereo@optonline.net.

PHOTO RESTORATION, PHOTOGRAPHY – Restoration of photos, 35mm-6x7 slides, negs. Film scanning & archiving (film to digital). Prints & mat cutting. Freelance Photography. Rick, Ext. 7444, 874-4917.

PHOTOGRAPHY – Fortunato Photography: weddings, children's portraits, photo restoration, color and/or black and white, Fortunato35@yahoo.com for info. Trisha, 258-3699.

PIANO LESSONS – Classical, All Levels, NYSSMA preparation, in Shoreham. 744-9763.

POWERWASHING – "AT YOUR SERVICE"-Home exteriors, decks, patios, boats, RVs. Excellent References. BNL employee, Veteran & Senior Discounts. John., 365-4815.

POWERWASHING – houses, decks, driveways, stain, and more, very reasonable prices, 821-6336. Tony, 345-0865.

PROFESSIONAL MASSAGE – Massages by Jamie. Specializing in Swedish, Amma, Stone and Pre-Natal. LMT will come to you, discount to BNL employees. Jamie, 294-6944.

SCHOOL DRUG, SMKG. PREVENTION – Riverhead Comm Awareness Program, Inc needs Adult Volunteers to help teach our 09-2010 Pulaski St School Drug and Alcohol Prevention Program, call for details. Marilyn, 727-3722.

SCIENCE AND LANGUAGE PROGRAM – For children ages 3-15 at Stony Brook University. The school offers: Math, Physics, Art, Russian, English and French languages. http://www.schoolplusstonybrook.org. 615-4215 or schoolplus_sb@yahoo.com.

SHEETROCK/SPACKLE/PAINT – free estimates. John, 563-6596.

SNOW PLOWING – local snow plowing, exits 62-66, call for estimate. paul, 978-6008.

SPACKLING – custom taping; sheet-rock, dustless sanding, painting, "Your satisfaction is my reward." Call for free estimate. Joe, 767-7785 or joze34@msn.com.

SPANISH TUTOR – High School Spanish Teacher will tutor in the North Shore area. Always successful & professional, ESL students are also welcomed. 312-2671.

SWIMMING POOL SERVICES – Experienced professional for your swimming pool openings and services. Weekly pool cleaning service, maintenance and repairs. Call for more information and estimate. Dominick, 926-2010.

TAXES – Prepared by Tax Consultant. Servicing lab personnel for over 30 years. Reasonable. John, 732-2472.

TICK SPRAYS AND LAWN CARE – Professional, provided by MK Lawncare and Landscape Maintenance. Mark Kozakiewicz, 987-4445.

TRAINER-CONSULTANT – Computer Software/Hardware. Kimberly Werner-Tagliaferro, 255-7061 or Tagliak@optonline.net.

TRAVEL SERVICES – Free concierge service for travel arrangements worldwide: accommodations, entertainment, tours and cruises available. Best prices! Certified, licensed and insured travel agent. Marie E. Lemmon, 772-1234 or Marie@TheMagicForLess.com.

TREE REMOVAL, GRINDING & FILL – Any yard work, Winter Clean Up, Stump Grinding, Top Soil, Fill, Flower Beds built, Storm Damage. Small Jobs OK. Dave, 774-3736.

TUTOR – Experienced chemistry teacher for Regents, AP or College Freshman courses. Stony Brook. 219-7494.

TUTOR – Physics and Mathematics. College or High School levels. Stony Brook. 626-7645.

TUTOR – NYS general ed, special ed, and literacy certified teacher, up to grade 4, reading and/or math focus, available evenings. \$55/hr. 922-1310.

TUTOR – NYS Certified Earth Science Teacher. \$50/hr. Edward, 821-1013.

TUTOR – Certified Teacher avail to tutor Elem Ed up to grade 6 and Literacy; birth-12th grd; flexible schedule, \$35/hr, Refs turn upon request. Agnes, 516-526-9091.

TUTOR MATHS AND SCIENCE – Stony Brook Engineering PhD student with impressive transcript. Can tutor maths and science from middle school to college level. Ref avail, competitive rates. 516-474-6300.

TUTOR READING/ WRITING – Now accepting new students! Master Level teacher available for private sessions with your child (grades k- 12). Very competitive rates. Excellent references available upon request. Jennifer, 395-0984.

TUTOR/READING – Now accepting new students! Certified teacher experienced in literacy and special education (grades pre k-6). East Patchogue area. Excellent references. Brandi, 872-2002 or brandi.decaro@tmo.blackberry.net.

TUTORING – Math and Science for \$40/hr, Port Jeff/Smithtown area. 624-0494.

TUTORING – Honors college grad will tutor your children in science and elem/ middle school math. Transcript and references available upon request. Emily, 516-662-5896.

VINYL SIGNS – banners, store fronts, magnets, vehicle lettering and graphics, customize anything, helmets, skatebrds, motorcycles, etc, lab discount. Bobbi, 775-7247 or li.viyldestination@yahoo.com.

WATCH BATTERIES – drop off at lunch, next day return, starting at \$8, Lithium higher, no Swiss Army. 513-9106.

WEEKEND ENRICHMENT PROGRAM – Science and Language School for children 3-15 years old. Math, Physics, Art, Russian, English, online registration: schoolplusstonybrook.org. 615-4215 or schoolplus_sb@yahoo.com.

WINDOW CLEANING – Call me for sparkling window cleaning. Free estimates, mention BNL for your discount. You will not be disappointed. John, 291-2407.