

Doon Gibbs Named Deputy Director For Science & Technology

Doon Gibbs has been named Deputy Director for Science and Technology at BNL, effective June 11. A member of the Lab staff since 1983, Gibbs had been Associate Laboratory Director for Basic Energy Sciences since 2002.

BNL employs about 2,600 scientists, engineers, technicians and support staff and has an annual budget of \$492 million. In his new position at the Lab, Gibbs will work closely with the Laboratory Director, Associate and Assistant Laboratory Directors, and the Science & Technology Steering Committee of the Brookhaven Science Associates (BSA) Board in charting BNL's future direction in science. Home to six Nobel Prizes, Brookhaven has major programs in nuclear and high-energy physics, physics and chemistry of materials, environmental and energy research, nonproliferation, neurosciences and medical imaging, and structural biology.

"Increasingly, in all the sciences, we're in the era of team science," Gibbs said. "This is an approach in which Brookhaven Lab performs very well, since we are a multidisciplinary lab. For example, we are currently formulating an integrated team approach to energy-related research, a major focus at the Lab. With the Center for Functional Nanomaterials now beginning operations, and with the promise of a new light source at the Laboratory, we are well positioned to meet the challenge of tackling the nation's energy problems by enabling breakthroughs in the effective use of renewable energy through improved



Doon Gibbs

conversion, transmission and storage. There has never been a more exciting time at the Laboratory than now, and I'm looking forward to helping formulate the Lab's direction."

Doon Gibbs earned a B.S. in physics and mathematics from the University of Utah in 1977, and an M.S. and Ph.D. in physics from the University of Illinois at Urbana-Champaign, in 1979 and 1982, respectively. He joined BNL in 1983 as an assistant physicist and progressed through the ranks to become a senior physicist in 2000. Gibbs's managerial experience at the Lab includes the posts of Group Leader of X-ray Scattering, Associate

and Deputy Chair of Physics, Head of Condensed Matter Physics, Interim Director for the Center for Functional Nanomaterials, and Associate Laboratory Director for Basic Energy Sciences.

Gibbs was honored with the 2003 Advanced Photon Source Arthur H. Compton Award "for pioneering theoretical and experimental work in resonant magnetic x-ray scattering, which has led to many important applications in condensed matter physics." Over the last five years, Gibbs had been instrumental in overseeing the design and construction of Brookhaven's Center for Functional Nanomaterials, and he has overseen the growth of Brookhaven's basic energy sciences programs, including chemistry, materials science, and condensed matter physics. He is a Fellow of both the American Association for the Advancement of Science and the American Physical Society.

— Diane Greenberg

2007 RHIC & AGS Annual Users' Meeting

June 18-22

The Relativistic Heavy Ion Collider (RHIC) & Alternating Gradient Synchrotron (AGS) Annual Users' Meeting will take as its theme "From Solid Gold to Perfect Liquid," reflecting the achievements of the RHIC experiments. The meeting will include three days of topical workshops starting on Monday, June 18, followed by two days of plenary sessions on Thursday, June 21, and Friday, June 22. The plenary program will include the latest results from RHIC, AGS, and the NASA Space Radiation Laboratory; reports from Washington; elections; awards; and an Open Forum Meeting. Thesis awards, a poster session with a prize for best student/post-doc poster, and a banquet also follow.

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

ECS Honors Radoslav Adzic

Radoslav Adzic, a senior chemist in the Chemistry Department, has been honored with the 2007 Research Award of The Electrochemical Society's Energy Technology Division. The award recognizes Adzic's outstanding research contributions to the field of novel electrochemical energy technologies, such as fuel cells.

Established in 1902, The Electrochemical Society (ECS) is a professional organization with about 8,000 members in over 75 countries. Adzic received a citation and \$1,500 at the society's annual meeting in Chicago on May 8.

"This is a great honor that my colleagues have given me," Adzic said. "It is satisfying to know that the promise of basic research I've engaged in since the 1970s is now coming to fruition. Fuel cells are expected to

become a major source of clean energy, and my colleagues and I have been working on advances to make that goal possible."

Adzic, who earned his doctorate in chemistry at the University of Belgrade, came to the Lab as a visiting scientist in 1979. In 1992, he joined BNL as a senior research associate, rising to be senior chemist in 2005. Adzic won the Annual Award of Belgrade for Natural Sciences in 1983, the Medal of the Serbian Chemical Society in 1997, and BNL's Science & Technology Award in 2005. He was elected a correspondent member of the Serbian Academy of Sciences and Arts in 1993, and named Fellow of The Electrochemical Society in 2005.

— Diane Greenberg
For more details, see www.bnl.gov/bnlweb/pubaf/pr/PR_display.asp?prID=07-52.

Researchers Combine Atmospheric Science With Heartland Farming

Effects of land use on regional climate examined

This June, nine research aircraft and dozens of additional ground-based sensors are in Oklahoma as part of two scientific field studies of major uncertainties in climate models — clouds and aerosols. Both campaigns are focused on fair weather clouds, but one is studying the influence of land surface changes on cloud formation, whereas the other is investigating the effects of clouds on urban aerosols. Researchers expect to obtain a focused data set during a key season in the region — the winter wheat harvest, which coincides with fields of fair weather clouds throughout the Midwest.

Coordinated by scientists at Pacific Northwest National Laboratory (PNNL), the \$5.5 million multi-partner effort is sponsored mainly by two DOE programs, the Atmospheric Radiation Measurement Climate Research Facility (ACRF), and the Atmospheric Science Program (ASP). Participating DOE national labs and user facilities include: PNNL; Brookhaven, Argonne, Lawrence Berkeley, Los Alamos, and Oak Ridge National Laboratories.

BNL's CLASIC Campaign Role

BNL's Mark Miller is lead scientist of the Cloud and Land Surface Interaction Campaign (CLASIC). Scientists in the CLASIC study are investigating how changes in land use affect clouds through changes to surface heating and associated dynamics.

"The dynamics that occur between the land surface and the atmosphere are important mechanisms in regional climate, but because of the broad and complex range of disciplines involved — surface vegetation, moisture, clouds, aerosols, and solar energy exchange — it's very difficult to connect all the dots," said Miller.

The CHAPS Campaign

Conducted by DOE's ASP, the second campaign is the Cumulus Humilis Aerosol Processing Study (CHAPS), which has PNNL's Carl Berkowitz as lead scientist. Participating scientists from BNL include Peter Daum, Lawrence Kleinman, Yin-nan Lee, Jason Olfert, Stephen Springston, Gunnar Senum, and Jian Wang.

Said Daum, "The overall objective of CHAPS is to develop an understanding of the effects of clouds on aerosols, and vice versa. The study will compare aerosol/cloud interactions in the Oklahoma urban plume to those interactions outside the plume. BNL's role in the program is to provide instruments and technical support as well as to participate in the measurements and ultimately develop scientific understanding and model-based representation of these aerosol-cloud interactions."

Why Oklahoma?

Oklahoma was chosen for this research because not only is it one of the largest agricultural producers in the country, but also its highly variable weather provides an outdoor laboratory for climate studies. DOE, the National Oceanic & Atmospheric Administration, and the Department of Agriculture all have extensive research facilities throughout the area. Given the influence of large-scale agricultural operations across the Great Plains area, this research is ex-

pected to gather important information for regional climate change studies.

Much of this article comes from a PNNL press release by

Lynne Roeder. For more information about CLASIC, see <http://science.arm.gov/clasic>; about CHAPS, <http://asp.lawworks.org/>.



Lynn Roeder, Pacific Northwest National Laboratory

In Oklahoma, with a Gulf Stream 1 plane in its (somewhat short) 1930s hangar are CHAPS team members: (from left) Yin-Nan Lee, John Jayne, Betsy Andrews, Connor Flynn, Matt Newburn, Claudio Mazzoleni, Ian McCubbin, Yury Desyaterik, Liz Alexander, John Hubbe, Gunnar Senum, Jason Olfert, Carl Berkowitz, Stephen Springston, Peter Daum, John Ogren, Larry Berg.

Nanoscience 101

On May 21, the BNL community celebrated the dedication of its new Center for Functional Nanomaterials (CFN). Science and technology based on nanoscience is expected to be revolutionary, and could lead to groundbreaking advances in the design and fabrication of a wide range of products — from automobile tires, to vaccines, to computer chips, to objects not yet even imagined.

Below is the fifth in a series of questions and answers to help familiarize members of the BNL community with nanoscience in general, the types of research planned at the CFN, and health and safety aspects of CFN operations.

Q: How do you know the potential impact of engineered nanoparticles (and their byproducts) on people, the ecosystem and on the food chain?

A: Many people and organizations around the world are seriously considering the health and environmental impacts of nanoscience. These include the five DOE nanocenters, which have been working together since 2004 to assess the information available from the regulatory and scientific communities to develop guidelines involving disposal and exposure control for nanomaterials.

Working safely is the Lab's highest priority. As in many areas where groundbreaking research expands the frontiers of knowledge, all of the potential impacts of engineered nanoparticles are not yet known. What is known is that the potential benefits of improved energy efficiency and life-saving medical applications are worth pursuing while doing everything possible to protect people and the environment. So, until all of the risks are known, BNL researchers will treat all nanomaterials as hazardous and take a precautionary approach in the way they handle those materials. The DOE nanocenters have worked together to develop a set of best handling practices based on this precautionary approach. These best practices are derived from a large body of existing knowledge in handling materials with unknown risk, and, depending on the form of the material (free particulate or bound into a matrix or solution) could include containment, special procedures, and/or use of personal protective equipment.

The majority of the nanomaterials research (more than 90%) conducted by BNL staff will involve bound or "fixed" nanomaterials that do not disperse in the air; the remaining work will be done on extremely small quantities, typically much less than a gram, of closely controlled nanoparticles.

Q: Does the Lab do or plan to do research on the potential impacts of nanotechnology?

A: The Lab has begun studies examining health and environmental impacts of nanoscience research in specific settings. These studies are aimed at providing scientists with information to help redesign nanoparticles to minimize safety concerns and to optimize their use in health-related applications. This research may also lead to effective screening practices.

Q: Shouldn't nanoscience be regulated?

A: Regulatory agencies are investigating the need for regulatory requirements, and work is ongoing on defining the risks associated with nanomaterials. Brookhaven is watching and participating in that work, along with DOE and others from across the nation and around the world, including the Environmental Protection Agency, the National Institute for Occupational Safety and Health, the Food and Drug Administration, and the National Science Foundation, among others. The Department of Energy is committed to ensuring that all research activities conducted under its auspices pose no harm to the public or the environment.

Then & Now — Meteorology and Atmospheric Science

Now, to find out the weather, one can go online and watch storms as they happen and get the latest computer-modeled predictions for the area. But in the late 1940s, science-based weather information was less easily obtained. As reported in the July-August, 1948, issue of *Isotopics*, BNL's first newsheet, the study of "a tempest in a teapot" — the teapot's being a circle within about a 12-mile radius of the Lab — was being carefully investigated by BNL's earliest Meteorology Group, headed by Norman Peers. Micrometeorology, or weather on a small scale, was of special interest at BNL. The U.S. Weather Bureau was also well in the picture, establishing a station on site to cooperate in the Lab's research program as well as to train personnel and do other research.

By mid-1948, a 75-foot weather pole had been erected with wind vanes, wind-speed indicators, and electrical temperature gauges jutting from it that sent data electronically to be recorded in a nearby building. Rain or snow measurements were taken "by hand" from the levels in can-shaped receptacles on the ground. To measure humidity, dry and wet-bulb thermometer readings were taken twice daily both on the ground and, in good flying weather, in the air above the Lab from an airplane. Wind direction and speed in the upper levels were measured by tracing the course of 30-inch helium-filled balloons released twice daily, using a device called a theodolite. Later, a 420-foot steel tower was built that carried an additional 20-inch steel pipe, 350 feet high. From this pipe, white "foggy" smoke was released at intervals. By studying the course of the smoke emitted from the pipe, the meteorologists traced the paths of wind currents in the Lab area.



A 1951 smoke run of three smoke devices from ground and tower. Note the change in wind direction at different levels.



In April 1948, technician Frank Scott is releasing a pilot balloon, which will have its flight checked in the "theodolite" device to determine wind conditions.

From all this information, and from teletyped reports of conditions from points all over the world, including from ships at sea, BNL's "weathermen" plotted and drew weather maps which were the basis for reports posted daily on the Lab bulletin boards.

Through the years, Lab weather recordings have been used as a resource by local newspapers and still, the information compiled annually at BNL is sent out as a press release and appears in many local newspapers. In October 1993, the National Weather Service Forecast Office was established on the Upton site and provides a wealth of weather information at weather.gov/nyc.

At BNL, pioneering research that followed from work of the original Meteorology Group has involved "weather" in studies ranging from the smallest micro to the widest macro in scope. The research on clouds and aerosols being performed by Atmospheric Science Division scientists in the Environmental Sciences Department with colleagues from other national labs (see story, page 1) is one of the latest projects to be added to this long and fascinating thread of Lab history.

— Liz Seubert

Integrated Safety Management Refresher

Integrated Safety Management (ISM) is the framework used to help guide all work at BNL and is a key requirement of BNL's contract with DOE. ISM's five core functions call for the Lab, as well as each employee, to define the scope of work; identify and analyze all hazards; develop and implement controls for those hazards; work within these controls; and provide feedback to improve safety in future work. ISM ensures that employees combine their technical knowledge of their jobs with the safety steps they need to take to prevent accidents and injuries.

Although "safety" is the key objective of ISM, it actually encompasses much more than that, as it defines a set of core functions and guiding principles that are applicable to all work-related activities. It is as much about "culture" as it is about safety, and, for the most part, incorporates and reinforces best management and good work practices.

BNL will undergo a crucial Integrated Safety Management (ISM) review

this August. The overall approach of the review is to focus on how BNL plans and safely conducts all work at the institutional, facility, operations, and maintenance levels in both science and support areas. The auditors will likely interview a wide cross-section of BNL employees. Over the next few weeks, the Bulletin will publish some general ISM questions for BNL managers, supervisors, and staff. While responses will vary depending on each individual's work environment, the text below each question gives examples of processes that may be appropriate as references for understanding the BNL ISM program.

Question for all: What should managers, supervisors, and staff know about ISM program expectations?

- Know and support the "All Work is Planned" concept. Know how work is planned and controlled in your everyday work activities.
- Stop and seek input from supervisors; managers; environment,

safety and health coordinators; building managers; or facility support representatives if conditions change and/or work extends beyond authorizations.

- Always perform work within established controls and authorizations. When performing work activities, pause and take a two-minute break to verify that current activities have not crept beyond the scope of work authorized.
- Encourage employees/co-workers to bring forth safety issues, concerns, and ideas.
- Consider the influence human factors can have on your decision-making:
 - Am I cutting corners by rushing to meet a deadline?
 - Am I taking hazards/controls for granted because I've done this many times before?
 - Is my desire to succeed technically compromising sound environment, safety, and health judgment?

For more information, contact Steve Coleman, at Ext. 8705 or coleman@bnl.gov.

Benefit Coverage Notes: Making Changes During Qualifying Events

Changes to medical and/or dental coverage may be made during the benefits annual open enrollment period in fall. 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 being 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 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.

In addition, you may want to update other items when you have a qualifying event, such as: covered dependents for medical and/or dental coverage, life insurance beneficiaries, retirement plan beneficiaries, tax withholdings on Form W-4, address change, and emergency contact(s).

Employees covering dependent children over the age of 19 as full time students should be aware that full time students are only covered over the summer if the student attends classes on a full-time basis for both the spring and fall semesters. Otherwise coverage ends on the last day the child attended an accredited college or university on a full-time basis. If there is a possibility that the child may not be in full-time attendance in the 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.

Arrivals & Departures

— Arrivals —

Vincent BolognaEM
 Arthur Fernando CA-D
 Chang-Yong Nam NC
 Sally Swain DO

— Departures —

Douglas Gallagher PPM

BSA Noon Recital, 6/27

On Wednesday, June 27, at noon in Berkner Hall, Paul Schenly will bring a selection of soloists from the Pianofest intensive performance workshop held annually in the Hamptons. Pianofest students in the past have gone on to make a mark at both the national and international level. All are welcome to the free noon recitals sponsored by BSA. Visitors to the Lab of 16 and over must carry a photo ID.

BNL Health Promotion Elder Law Seminars

On Wednesday, June 20, a talk on "What is happening with estate tax reform?" will be held in Berkner Hall, Room B, noon-1 p.m. On July 26, same time and place, a talk on "Planning for individuals with large retirement accounts" will follow. All are welcome. Register at Ext. 8612 or mthorn@bnl.gov.

One-on-One Retirement Counseling, 6/19 & 21

A TIAA-CREF consultant will visit BNL on Tuesday, June 19, and Thursday, June 21, to answer employees' questions about financial matters such as: protecting assets against inflation; finding the right allocation mix; TIAA-CREF retirement income flexibility; and comparing lifetime income vs. cash withdrawal options. For an appointment, call Suzanne Leone, (866) 842-2053, Ext. 4601.

On-Site Nursery School Enrollment

Attention, parents of 3-and 4-year-olds: Upton Nursery School is an on-site, not-for-profit, parent cooperative preschool that meets at the Recreation Hall in the apartment area. The school provides a warm, caring, and stimulating environment for preschool aged children. A two or three-day mornings schedule is available for a reasonable tuition fee. Classes are forming now for the fall 2007-2008 school year. For more information or to register your child, contact Katalin Petreczky, 821-4131, julika@optonline.net, or visit the school's website at www.bnl.gov/nurseryschool.

NSLS-II Users Workshop, 7/17 & 18

To update the user community on the status and plans for NSLS-II, the Lab will welcome participants at a workshop July 17-18. The goals of the workshop are to: describe the conceptual design and current status of NSLS-II; describe the process for beam-line development at NSLS-II; discuss plans for transitioning from NSLS to NSLS-II; and provide opportunity for feedback and input.

For more details on the workshop and registration information, go to www.bnl.gov/nsls2/workshops/UserWorkshop.asp.

Summer Student Talent Show, 7/24

The Office of Educational Programs invites all the Lab community to attend their annual Summer Student Talent Show on July 24, at 5:30 p.m. in Berkner Hall.

Anyone who would like to perform in this Summer's Talent Show should contact Tabatha Wyche, Ext. 4503.

MATHEMATICA 6 Seminar, Training, 6/20

On Wednesday, June 20, representatives from Wolfram, Inc. will give a seminar and hands-on training in Berkner Hall, Room B. The "What's New in MATHEMATICA 6" seminar will be held 2-3 p.m.; the "Hands-On Training," at 3-5 p.m. Registration is required at the hands-on session.

Mathematica 6 introduces a sweeping unification of language and interface concepts, making possible a new level of automation in algorithmic computation, interactive manipulation, and dynamic presentation. The seminar will cover new Mathematica 6 visualization power and groundbreaking dynamic capabilities and how to utilize these tools with Mathematica's solving and modeling abilities.

Register for the hands-on training for these major new features. Current users will see many improvements and new features, but prior knowledge of Mathematica is not required. Bring your own laptop to the training session, with Mathematica 6 installed. To register or to get a copy of Mathematica 6 installed on your laptop, contact Susan Wong at sge@bnl.gov or Ext. 7988.

Congratulations, 2006 Perfect Attendance Employees!

BNL's annual Perfect Attendance celebration to recognize the full-time employees who have won a certificate and a \$200-bond Perfect Attendance Award for the previous calendar year was held on April 24. Those of the 50 winners who were able to attend the afternoon event at the Brookhaven Center were welcomed by Human Resources & Occupational Medicine Division Director Bill Hempfling. The winners were warmly congratulated by BNL Director Sam Aronson, who thanked the awardees for their dedication and service to the Lab. Also present to congratulate the winners were Deputy Lab Director for Operations Mi-

chael Bebon and Assistant Lab Director for Facilities & Operations Andrew McNerney.

The Perfect Attendance award was first given in 1992, when full-time employees on the technical and clerical schedules were recognized for their attendance during 1991. In 1995, these employees and those from the Paper, Allied-Industrial, Chemical & Energy Workers International were joined in being eligible for the award by BNL employees represented by the International Brotherhood of Electrical Workers. In 1998, members of the Suffolk County Security Police Association in the Safeguards & Security Division also became eligible for the prize.

This year, as previously, many awardees had achieved multiple years of perfect attendance: ten were winning for the first time, five for the second time, seven for the third, four for the fourth, four for the fifth time, four for the seventh time, one for the ninth time, and four for the tenth time. Thomas Crews won for the eleventh time; Cornelius Jackson, Richard Lutz, Alex Reben, and Shelby Williams, for the twelfth time — and Phyllis Tinsley-Smith won for the fifteenth time. Employees who became eligible for the prize after its inception have often served BNL with additional years of perfect attendance that are on record elsewhere.



Photographed at the celebration with Laboratory Director Sam Aronson (front row, left), Deputy BNL Director for Operations Michael Bebon (front, second from right), Assistant Laboratory Director for Facilities & Operations Andy McNulty (second row, second from left), and Human Resources & Occupational Medicine Division Bill Hempfling (front row, right) are many of the forty-five 2004 Perfect Attendance Award winners, who each received a certificate and a T-shirt with their \$200 prize. The winners are listed alphabetically in their departments/divisions with the number of years they have won this perfect attendance prize after their name.

Biology: Christopher Dropp, 1; and Phyllis Tinsley-Smith, 15; **Community, Education Government & Public Affairs:** Cornelius Jackson, 12; and Alex Reben, 12; **Emergency Services:** Gary Schaum, 10; **Plant Engineering:** John Bourquin III, 3; Wayne Boyd, 2; Martha Bryant, 3; James Callihan, 10; Robert Callister, Jr., 4; Tage Carlsson, Jr., 1; Thomas Crews, 11; Susan Dobzeniecki, 1; Ralph Giordano, Jr., 5; Darren Harris, 5; Ruth Harris, 5; Lawrence Kunzig, 4; Richard Lutz, 12; Carol Mason-Shorter, 2; Antonio McGill, 2; Lisa Metz, 7; Richard Muller, 3; Stephen O'Kula, 10; Frank Pomaro, 1; Dennis Renahan, 7; Andrew Trent, 2; Johnnie Turner, Jr., 3; Connie Turpin, 1; Wingrove Wilkins, 1; Fred Wojtuniak, 1; Salvatore Zarba, 3; **Procurement & Property Management:** Eva Esposito, 7; Isidro Garcia, 4; Dhruba Ghimiray, 10; William McPherson, 5; Regis Saitta, 1; Janet Soper, 7; Charles Whiting, 9; and Shelby Williams, 12; **Safeguards & Security:** Mark Opiesso, 3; and Victor Pineiro, Jr., 3; **Staff Services:** Jean Bunselmeyer, 4; Dennis Fuzie, 1; Susan Santana, 1; and Brenda Turner, 2.

Defensive Driving Course in Two Parts, 6/21 & 28

During the summer months, the six-hour Defensive Driving (Point & Insurance Reduction) course will be held in two parts on consecutive Thursday nights: June 21 and 28, in the Brookhaven Center South Room, 6 p.m.-9:15 p.m. The course is open to BNL, BSA, and DOE employees, facility-users, and their families. The cost is \$30 per person. Preregistration is required. To register, call Ed Sierra, 821-1013, and leave a message. Include your phone number. For more information, call Sarah Wiley, Ext. 4207.

Yard & Garage Sales

WADING RIVER - 6/16&17, lacrosse, jacuzzi, daybed, double incl., comforter set, furn., more. Barnes Rd. Ext. 4432 or 766-8628.

Happenings

CHINESE MEDICINE FOR HEALTH - talk by Yemeng Chen, President, NY College of Traditional Chinese Medicine, 6/26, LH1 SBU Wang Ctr., 6-8:30 p.m. Hai-Dee, Ext. 2062.

Wanted

.NET DEVELOPERS - I want to set up a Lab-wide forum for .Net developers on site, contact gorden@bnl.gov. Pat, Ext. 5159.
 APARTMENT - 1 bdrm. furn. for 2, nr BNL, \$1000-1200, util. incl., required by 06/15/07. Nizamuddin, Ext. 4360 or 344-1200.
 DONATED KIDS' BOOKS - ages 3 to 11, for disadv. kids' smr sch. in Trinidad. Ext. 2346.

Lost & Found

CELL PHONE - on 6/5 by bldg. 459 training room or parking lot area, grey in black case. Hugh, Ext. 2031.
 SAMSUNG CELL PHONE - Lost on 6/4, in belt clip case. Ext. 3680.

For Rent

BELLPORT - 2 bdrm. apt., all incl., \$1,100/mo. 803-2588.
 EAST PATCHOGUE - 1 bdrm. apt., renovated, kit., l/r, bath, pvt. ent., no smkg/pets, 1 mo. sec., util. incl. \$995/mo. Ext. 2922.
 FARMINGVILLE - v.lg excel studio apt., fully furn., incl. util. cable/VCR/net, use of backyd., lggp, no smkg/pets, pvt. ent/drway. \$950/mo. 732-2474.
 HARLEM - sublet furn. 1 br for July, poss part of Aug overlooks Central Pk, female only to share 3 br apt. N/S, walk to Columbia, close transp., \$950/mo. Anna, Ext. 7132.
 MASTIC BEACH - brand new, 2 bdrm. bsmt. apt., full bath & kit., l/r, priv. yd., all new appl., \$1,250/mo. 516-817-1428.
 MEDFORD - 1 br. apt., l/r, eik, full bath, sep. ent., all util. incl., avail now. No smkg/pets. \$850/mo. Betty, Ext. 3562 or 758-2653.

MILLER PLACE - 2 rms., bdrm. 11'x12', living area/kit. combo 10'-12', grd. flr., bright & sunny, no smkg/pets, suitable for 1 person. util. incl., \$750/mo. 928-8322.

ROCKY POINT - 1-bdrm. apt., kit., l/r, bath, pvt. dr.way/ent., no smkg/pets, 1 mo. sec., utils. not incl. \$850/mo. 821-3287.

SHIRLEY - 1 person rm, full bath, sep. ent., furn, tv, wireless, incl. all, 15 min. to Lab, 5 min. to stores/beach, 1 mo sec., no smkg/pets. \$650/mo. Regis, Ext. 8321.

SHOREHAM - Share house. One partial furn./without furn. bdrm. 7 mi. to BNL, \$650/mo., single pref. \$650/mo. 744-3543.
 SOUND BEACH - 1 bdrm. apt. w/lr, bath, & kit. net, new pergo flrs., 2 prkg. spots incl., all util. cable, elec. & heat incl. \$950/mo. 831-2006.

For Sale

MEDFORD - Updated 3 bdrm. condo in Blue Ridge Development, details go to www.forsalebyowner.com/20793141. \$329,900/neg. Ext. 3995 or 696-4366.
 MIDDLE ISLAND - Strathmore-on-the-Green, Gated priv. comm., 3 bdrm., 2.5 baths, right on the 17th fairway. \$349,000/neg. Michael, Ext. 7941 or 345-0605.
 RIDGE - Leisure Vill. 55+ gated comm., Baronet II 2-bdrm, 1.5-bath condo, l/r, eik, new windows, a/c, refrig, w/d, end unit on nature pres., no broker. \$205,000 744-8673.
 SHOREHAM - 4 br, 2.5 bath Colonial, l/r, dr, den w/tp, lg. kit. w/bkfst area, fin. bsmt., gas ht, hardwd. flrs., igs, lots of extras, SWR Schools. \$589,000/neg. 821-3320.

In Appreciation

To all my friends at BNL: Thank you for your support after the passing of my dear husband Stanley. Your kindness will not be forgotten. — Caroline Mars

A heartfelt thank you to all of my BNL friends and co-workers for your prayers, cards and words of comfort after the loss of my brother. Your kindness is deeply appreciated. — Terry Jones

CALENDAR

— THIS WEEKEND —

Friday, 6/15

Employee Lunchtime Tour

Noon. Berkner Hall, upper lobby. Meet the group for transportation to the BNL Water Treatment Facility where Plant Engineering's Bill Chaloupka will explain the process. Return to Berkner by 1 p.m. No reservations needed.

*JOHNNYVOLUME — Blues, More

7:30 p.m. Brookhaven Center. Sponsored by the BNL Music Club. JOHNNYVOLUME plays Chicago and British blues, Motown soul, rock 'n' roll. BNL's Joe Carbonaro, Mike Herbert & friends — The ML-5 — will open the show playing Motown, blues, funk. Buy tickets, \$10 each, at the BERA Store, or at the door. See page 4 also.

Sunday, 6/17

Hospitality Bus to NYC

9 a.m. Depart from Rec. Hall to drop-off at Bryant Part, midtown Manhattan. Bus will leave the city at 6 p.m. Adults, \$10, children up to 12, \$5. E-mail Jing at deshanhai@yahoo.fr to reserve.

— WEEK OF 6/18 —

Mon.-Fri., 6/18-22

*RHIC, AGS Annual Users' Meeting

Three days of workshops are followed by two days of plenary sessions. For more information, see page 1 and www.bnl.gov/rhic_ags/users_meeting

Tues. & Wed., 6/19 & 20

*Blood Drive

9:30 a.m.-3 p.m. Brookhaven Center. To schedule a time to give blood, go to www.bnl.gov/HR/BloodDrive/default.asp or call Ext. 2315 or 2888. For important info, see notice, page 4.

Wednesday, 6/20

*Estate Tax Reform Talk

Noon. Berkner Hall, Room B. BNL's Health Promotion Program presents an Elder Law talk on Estate Tax, by Nancy Burner of Burner, Cherches & Smith. Learn how to plan now or risk paying significant estate taxes.

*Mathematica 6 Seminar, Training

2-3 p.m. Berkner Hall, Room B, Seminar on "What's new in MATHEMATICA 6?"
 3-5 p.m. Hands-on training in MATHEMATICA 6. Registration required. Contact Susan Wong, sge@bnl.gov, Ext. 7988. See notice at left.

Thursday, 6/21

*Defensive Driving Course, Part I

6-9:15 p.m. Brookhaven Center. See notice at left.

— WEEK OF 6/25 —

Monday, 6/25

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.

Wednesday, 6/27

Brookhaven Lecture

4 p.m. Berkner Hall. David Jaffe of the Physics Department will talk about "The Pesky Neutrino." All are welcome to this free lecture, open to the public. Visitors to the Lab of 16 and over must carry a photo ID.

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

Call for Blood Donations BNL Blood Drive, 6/19 & 20

How grateful we all are when beloved friends and family are saved after a terrible accident or emergency operation by a supply of blood that is ready for a crisis. But Long Island's supply of blood is low. Many people who would give blood are prevented from donating by a previous illness. This puts more pressure on those who have the right age, health, and weight conditions — we all depend on these generous people more and more.

At the Lab, many people give blood at every blood drive. They are the heroes who save others — but more are needed. Knowing this, one of the BNL blood donors, Don Farnam of the Radiological Controls Division suggests that when possible, donors might try reaching out to other BNL friends or fellow BERA club members to make an extra effort to give blood. Farnam, who with other friends has recently formed the BERA Veterans Association, feels that this gift of life is well worth the time and effort involved.

Says Farnam, "I wanted to pass along a few words about the upcoming blood drive. This is a call to arms that everybody can answer. It's very personal to each of us. The need for blood arrives suddenly and unexpectedly. It could affect your household or mine at any time. At the moment when you're consumed with concern for a loved one, the last thing you want to hear is talk of a blood shortage. Let's support each other and this worthwhile cause."



Joseph Rubino D7210507

*"Let's support each other and this worthwhile cause."
— Don Farnam*

BNL's upcoming blood drive will be held next week on Tuesday and Wednesday, June 19 and 20, from 9:30 a.m. to 3 p.m. in the Brookhaven Center. Donors must be from 16 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 make an appointment, log on to the Human Resources webpage, click on "Blood Drive," and select "Schedule an Appointment," or contact Susan Foster, Ext. 2888 or Liz Gilbert, Ext. 2315.

OPEN RECRUITMENT - Opportunities for Lab employees and outside candidates.

ASSOCIATE LABORATORY DIRECTOR - BASIC ENERGY SCIENCES - Reports to the Laboratory Director. This Directorate contains both major research and facility sectors, including Chemical Sciences, Condensed Matter Physics, Materials Sciences, and The Center for Functional Nanomaterials (CFN). The annual budget of the Directorate is about \$50 M, with a staff of over 160. The Associate Laboratory Director (ALD) is responsible for the scientific and managerial leadership of the Directorate. The successful candidate must have a Ph.D. degree and a distinguished research career in the physical sciences accompanied by proven experience in the management of a mid-sized research effort. The ALD-BES will develop internationally leading programs that are aligned with the mission of the U.S. Department of Energy, and will maintain and enhance a world-class scientific and technical staff. The ALD is the primary contact with BNL's programs and facility sponsors, principally the Department of Energy. The ALD participates at the Director's level in the Laboratory-wide planning for new programs and user facilities and has line responsibility for safe and environmentally sound operation of his/her program. Recent areas of scientific focus include nanoscience, catalysis, strongly correlated and complex systems, interface of life and physical sciences, and photo/radiation chemistry & chemical dynamics. New programs are developing at the Laboratory level in renewable energy and energy efficiency. In the facilities sector, the focus will be on start up and transition to operations of the Center for Functional Nanomaterials as a major research and user facility with scientific thrusts in nanocatalysis, biological and soft nanomaterials and electronic materials, among others. The BES Directorate has, and will continue to play an important role in the development and use of BNL's National Synchrotron Light Source II. Emphasis will also be applied to coupling BES programs to those in other BNL Directorates, including the Life Sciences and Energy, Environment and National Security. Resumes should be sent electronically to William Hempfling, hempfling@bnl.gov, responding to Position #WH 4189, or by mail to: W. Hempfling, Brookhaven National Laboratory, Bldg. 400B, PO Box 5000, Upton, NY 11973-5000.

MANAGER OF COMMUNICATIONS, Light Sources Directorate (M1) - Requires an advanced degree in the physical or life sciences (Ph.D. preferred) and at least a combined total of 15 years' related experience, including significant experience in research, media relations, writing, and editing. Management and strategic communications experience preferred. Candidate will serve as the Manager of Communications for the Light Sources Directorate, coordinating projects with on-staff writers, editors, and graphic designers, and being instrumental in all aspects of communications and outreach efforts of the National Synchrotron Light Source, the National Synchrotron Light Source II Project, and the Joint Photon Sciences Institute. Successful candidate must be a strategic thinker, be creative and articulate, have highly refined communications skills, and be experienced in writing and editing research-based documents. Requires knowledge of terminology, processes, and technical issues related to synchrotron radiation facilities and their associated research fields. Experience in conducting research and collaborating with scientists, university faculty, and administrators, and in interacting with a diverse community of scientific, professional, and technical personnel at all organizational levels is highly desirable. Experience in assessing needs and developing effective systems for information management and communication is also desired. Responsibilities will include providing comprehensive information about the organization, capabilities, status, scientific initiatives, programs, news, and developments of Light Sources Directorate organizations through the production of activity and progress reports, periodic newsletters, brochures, science highlights, and promotional materials in electronic, web-based, and hard-copy formats. Will develop and coordinate outreach efforts such as events and tours associated with the facilities and will be responsible for the Light Sources Directorate websites. Candidate will report to the Associate Laboratory Director for Light Sources and work collaboratively with other BNL organizations, notably the Community, Education, Government, and Public Affairs Directorate. Light Sources Directorate peterespo@bnl.gov, referring to Position No. PE 4668.

SR. HUMAN RESOURCES REPRESENTATIVE (Employee Relations/Labor Relations, A-6, reposting) - Requires a bachelor's de-

JOHNNYVOLUME Band at BNL, 6/15

JOHNNYVOLUME, a band that plays a mix of Chicago and British blues, rhythm and blues, Motown soul and rock 'n' roll, will appear in concert on Friday, June 15, at 7:30 p.m. in the Brookhaven Center.

BNL's Joe Carbonaro, Mike Herbert & friends — The MI-5 — will open the show playing Motown, blues, funk. Not to be missed! Sponsored by the BNL Music Club, the concert is open to the public. All visitors to the Lab age 16 and over must bring a photo ID.



Tickets cost \$10 each and can be bought at the BERA Store in Berkner Hall, at www.ticketweb.com, or at the door on the evening of the show. Call Ext. 5257 for more information.

gree and at least four years' related experience in a human resources environment; excellent written and oral communication skills (including confrontation skills) and a proven track record of multitasking in a rapidly changing environment. The ability to analyze issues in order to arrive at an equitable solution is required. Certification in HR areas and HR coursework, in-depth knowledge of resolution procedures, including legal aspects, familiarity with employment and labor law, and previous experience working in a union environment are highly desirable. An understanding of Laboratory's policies as they relate to human resources is desirable. Will provide varied professional support to both the Employee Relations and Labor Relations functions of the HR Division, which will include interpreting and providing guidance on the application of HR policies and resolving employee and labor issues with employees and managers. Will conduct investigations, and prepare and maintain documentation for labor relations proceedings. Human Resources & Occupational Medicine Division. sobrito@bnl.gov, referring to Position No. NS 4418.

DESIGN ENGINEER (T-5, term appointment, reposting) - Requires a BS degree in mechanical technology, mechanical drawing, or equivalent and 10 years' experience in 3D modeling of complex mechanical components and systems. Requires substantial knowledge of engineering materials, machine shop practices and vendor products, and demonstrated skill in developing engineering concepts into detailed 3D models and drawings. Considerable experience in managing layouts, parts, and assemblies in the drawing database is also required as is substantial experience in specifying drive components such as motors, gears, bearings, actuators, switches and connectors. Good interpersonal skills and strong self-motivation are required. Work experience in the design of ultra-high vacuum systems and RF systems is desirable. Expertise in 3-D modeling with Autodesk's Inventor will be given preference. The NSLS-II Mechanical Design Engineer will have the following major responsibilities: to generate 3D models and 2D drawings of accelerator and beamline components such as magnets, ultra-high vacuum chambers, RF mechanical components, x-ray absorbers, diagnostics devices; develop conceptual designs to meet physics and engineering specifications; create and maintain mechanical layouts and assemblies of major subsystems; interpret and ensure conformance to applicable standards, codes and policies including ANSI Y14.5; conduct tolerance stack-up and interference analyses; document designs through detailed drawings including bill of material, ECN and catalogue items; and perform checking procedures as assigned by the immediate supervisor. May direct and coordinate the work efforts of other design personnel. Will report to the Design Room Supervisor. National Synchrotron Light Source II. Send résumé to peterespo@bnl.gov referring to Position No. PE 4282.

SR. DESIGNER (Mechanical, T-4) - Requires a AAS degree in mechanical technology and design or equivalent experience, and a minimum of 6 years' experience with 3D modeling software and 10 years' experience overall with CAD software designing mechanical components and systems for fabrication. Experience with Pro-E wildfire and/or AutoCad inventor is also required. Must have the ability to perform mechanical design functions with general direction and review by a mechanical engineer or scientist. This includes knowledge of material properties, component choice, manufacturing/machine shop processes, and dimensioning and tolerances. Must be able to create accurate and detailed 3D system designs as well as mechanical manufacturing drawings to ANSI Y14.5 standards. Must be able to review and check the work efforts of other design personnel. Work experience with vacuum system components, high voltage/high current systems, RF systems, and cryogenics is highly desirable. With engineering support, will design and provide fabrication drawings for components used in particle accelerators such as magnets, power supplies, RF systems, vacuum chambers, and electronic diagnostics. Collider-Accelerator Department, morales@bnl.gov, referring to Position No. RM 4411.

MECHANICAL DESIGN ENGINEER (T-5, reposting) - Requires a BS degree in mechanical technology and design or equivalent experience, and a minimum of 10 years' experience with 3D modeling software and 20 years' experience overall with CAD software designing mechanical components and systems for fabrication. Experience with Pro-E wildfire and/or AutoCad inventor is also required. Must have the ability to perform mechanical design functions independently with general direction and review by a mechanical engineer or scientist. This includes knowledge of material properties, component choice, manufacturing/machine shop processes, and dimensioning and tolerances. Must be able to create accurate and detailed 3D system designs as well as mechanical manufacturing drawings to ANSI Y14.5 standards. Must be able to review and check the work efforts of other design personnel. Work experience with vacuum system components, high voltage/high current systems, RF systems, and cryogenics is highly desirable. With engineering support, will design and provide fabrication drawings for components used in particle accelerators such as magnets, power supplies, RF systems, vacuum chambers, and electronic diagnostics. Collider-Accelerator Department, morales@bnl.gov referring to Position No. RM 4105.

ADMINISTRATIVE SECRETARY (A-2) - Requires formal secretarial training or equivalent, plus 4 years' experience in a secretarial or office administration role. Demonstrated proficiency in MS Word and Outlook required; familiarity with Excel and Access desired. Must have strong communication, organizational and problem-solving skills, the ability to work independently, handle multiple projects, prioritize workload, and handle non-routine office matters. Must have the ability to maintain confidential administrative records and reports. Knowledge of Laboratory practices, policies, and procedures is essential. Complete knowledge of the PeopleSoft Travel System is required and knowledge of the BNL Web Requisition System is preferred. The ideal candidate will have writing and editing skills and will also have experience within the Lab and with outside organizations regarding arranging conferences and meetings, travel, appointments, services, and information gathering. Responsibilities include both routine and non-routine administrative assignments which include, but are not limited to: preparing reports and correspondence; processing travel, coordinating and scheduling appointments and meetings, coordinating workshops and reviews. The successful candidate will provide administrative secretarial duties and tasks for the NSLS-II Accelerator Division staff. National Synchrotron Light Source-II. peterespo@bnl.gov, referring to Position No. 4675.

Motor Vehicles & Supplies

- 05 HARLEY SPORTSTER 883 - Cust., saddle bgs, w/shld, hwy. lights, forwd ft. ctrls., pics avail. 3,100 mi. \$7,000/neg. 929-6467.
- 04 VOLVO CONVERTIBLE - a/t, a/c, 2.3i turbo, silver w/gray lthr. int. \$25,000/neg. 924-6105.
- 04 DODGE INTREPID - 6 cyl, 4 dr, a/t, a/c, p/w, alarm, auto start, am/fm/6cd, more, excel. cond. 42K mi. \$12,000/neg. 466-1744.
- 03 DODGE GRD CARAVAN SPORT - New tires, brakes, CD/DVD, Entertainment. 21+ mpg hwy. 62K mi. \$9,500/neg. Ext. 3091.
- 02 YAMAHA TTR 125 - excel. beginner dirt bike, well maint., runs well, looks excel. \$1,100. James, Ext. 4026.
- 01 TOYOTA COROLLA - 4cyl 1.8L, a/t, a/c, p/s, p/w, p/l, c/c, dual fr. airb. mertaybat@yahoo.com. 74K mi. \$5,500/neg. 632-7977.
- 00 FORD EXPEDITION XLT - 5.4 L, AWD/4WD, 3rd seat, lthr, 6cd, trailer pkg, rem start, k/les ent. 133K mi. \$8,000/neg. Ext. 7277.
- 00 FOREST RIVER CHEROKEE 275B - 5th whl trail, excel., bunks, big slide, all opts. \$10,500/neg. Rich, Ext. 7160 or 929-8294.
- 00 SATURN SL - a/t, a/c, c/c, p/l, p/b, p/s, p/w, 4 dr., 4 cyl., cd/am/fm, gd. cond., hwy. mi., 123K mi. \$2,500/neg. 942-8444.
- 98 FORD EXPEDITION XLT - 4WD, 5.4 liter, 3rd seat, lthr., 6CD, loaded, excel., KBB val \$8,500. 126K mi. \$7,100. Rich, Ext. 7294.
- 98 VOLVO WAGON V70 - a/t, p/w/, c/c/, abs, cd, excel. cond. 179K mi. \$4,100. Dejan, Ext. 3078 or 834 -3158.

- 97 MAZDA 626ES - 6 cyl, 5spd, lther., all pwr., many new parts, clean car, looks great. \$3,000/neg. 902-8188.
- 96 FORD RANGER - 4cyl., mnl 5 spd., w od, grt on gas, 6' bed, new tires & shocks, no a/c. 110K mi. \$2,200/neg. Ext. 4026.
- 95 BMW 325i - 2.5L, 6 cyl., 4dr., a/t, well maint., garaged, 2nd owner. 172K mi. \$3,900/neg. 886-1316.
- 88 REATA BUICK - rare collectable, 2 seater, red w/gray interior, great cond. 96K mi. \$4,500. 698-6436.
- TIRES - for light weight truck, 3 General, Grabber, AW, 225-70R15, gd. cond. \$25 ea. Joe, 835-5681. Ext. 4229.

Boats & Marine Supplies

- 17' STARCRAFT FIBREGLASS - 1970 hull, 1988, 88HP. Evinrude, sea worthy, and fast. \$1,200/neg. 375-8519.
- 21' STIEGERCRAFT - 120 Hp Johnson, PT&T. cust. center pilothouse, new floor. Pic avail. Ready to go. \$3750. Ext. 5436.

Furnishings & Appliances

- AIR CONDITIONER - 28,000 Btu, window or wall mounted, Friedrich, used 2 yrs., \$700/neg. Tom, Ext. 3085 or 744-4535.
- BED - king size, unused, \$150; computer desk, 60\$; rocking chair, \$150; love seat, \$100. Mamta, Ext. 2176 or 355-5630.
- BOOKCASE - wicker, 67h x 26w x 13d, u pick up, ask. \$25. obo. Sue, Ext. 4931.
- BREAD MACHINE - 1 1/2 lb capacity, easy to use, excel. cond. \$15. Sue, Ext. 7235 or 399-7997.
- COUCH - Victorian style, mauve, 90w x 36d x 27h, 7.5' long, great cond., u pick up, ask. \$100. Sue, Ext. 4931.
- COUCH, DINETTE SET - Fabric Couch w/ two recliners \$150 Dinette w/ two stools \$125. Bob, Ext. 7189.
- DESK - Exec type desk, two file drawers, 2 pencil drawers, modern look, \$50. Pic available. Kelly, Ext. 4901 or 580-2940.
- DINING ROOM SET - 40 by 60, white formica w/6 chrome chairs, excel. cond., \$300. Richard, Ext. 5319 or 835-8309.
- DINING SET, WOOD - extendable table, 6 tall-back chairs, glassed-in breakfast, gd-looking, gd cond. \$90 neg. 255-8445.
- FREEZER - Westing House, 13 cubic ft. upright, approx. 20 yrs. old, works v. well, \$50.00. Peter, Ext. 4028 or 486-8199.
- FULL-SIZE MATTRESS - Sealy, \$200. V. g. cond. but no space to keep it. 603-7107.
- FUTON - queen, excel., all wood frame w/8" mattress, always covrd, \$100. Ext. 5920.
- GAS OVEN/STOVE - Tappan, almond color, older but works, \$75.00. Peter, Ext. 4028 or 486-8199.
- KITCHEN SET - oak table, top 3'x 5', 4 rattan chairs, \$125.00. Beth, Ext. 3103 or 728-0992.
- LIVING ROOM - 2 red ultrasuede couches \$200 ea., 4 pc. wall unit \$350, coffee table \$40, 2 end tables \$20 ea. 286-8523.
- MATTRESS - Sealey Posturepedic Presidential. Like new. \$200. 865 405-9734.
- REFRIGERATOR - top freezer, GE, 18 cu ft, 13 yrs. old, runs well, \$35 obo. Peter, Ext. 7687 or 744-1112.

Sports, Hobbies & Pets

- AQUARIUM - new, glass, 20 gal. w/screen lid, used approx. 1 wk. \$25. Sue, Ext. 4931.
- BICYCLE - girl's Murray, 1-sp, 20" wheels, excel. cond., \$25. Ext. 2194.
- MOUNTAIN BIKE - GT Timberline, 21 spd, 22" frame, Mozo front shock, cycle computer, Ext. 2432 or 821-9178.
- ROLLERBLADES - pwr. Flex Orbit inline skates, men's 6, gd. cond., \$10. Ext. 2492.

Tools, House & Garden

- CHAINSAW - Craftsman, Itino, excel. cond., \$75. Joe, Ext. 3783 or 487-1479.
- COMPRESSOR - Craftsman, tankless, small, \$25; Craftsman electric drill, 3/8" wks well, \$15. Joseph, Ext. 3783 or 487-1479.
- ELECTRIC CEMENT MIXER - 2.3 cu. ft., used once, like new, \$150.00. 698-6436.
- FAN - window, Holmes Elite Streamline, Model HAWF-3030, 4 spds, incl. sleep setting, fits all windows, \$15. Ext. 3217.
- FANS - window, Holmes Air: 2 spds Dual 8', Model HAWF 2080, fits all; also Mod. HAWF 1012ER, w/dow & floor, \$15 ea. Ext. 3217.
- LAWN MOWER - w/bag or mulch, Runs well, \$45; poll saw, \$10. Joe, Ext. 3783.

Miscellaneous

- ELECTRONIC HWY/RESTAURANT GUIDE - auto pilot 984: info on hwy's., food, motels, hosp's., travel time/dist. etc. \$10. Ext. 3005.
- FILE CABINETS - 1 drawer, rolling, \$10. 2 drwrs, hvy-duty, \$20. 1 legl-sz drwr + 3 storage drwrs, \$20. Ext. 5744 or 431-6737.
- FIREPLACE SCREEN - black metal, decorative, tri-fold, \$25, pic avail. 399-7997.
- HOT TUB - Cal Spa, 7x7 ft., 40 jets, 7 person, great cond., \$2,995. 929-1981.
- LANGUAGE TRANSLATOR - elec., translates words, phrases to/from Eng., Fr., Ger., Span., Ita., curr. conv., \$15. Ext. 3005.
- PERFUME - Clinique, "Happy to Be" gift set, 1.7 fl oz perfume & body lotion, never used, \$30. Donna, Ext. 2826.
- PRENATAL HEART LISTENER - Unused, monitor to hear baby's heartbeat in utero. 2 headsets. \$25 obo. Ext. 3807.
- TILES - glass block, 8x8x4 size, used, approx. 60/70 pieces, \$1/ea. Joe, 835-5681.

(continued on page 3)