

HIV Dementia Mechanism Discovered

Finding may lead to new therapies

Scientists at BNL have discovered a key mechanism in the brains of people with human immunodeficiency virus (HIV) dementia. The study is the first to document decreases in the neurotransmitter dopamine in those with the condition, and may lead to new, more effective therapies. HIV dementia is a type of cognitive decline that is more common in the later stages of HIV infection.

"Our results offer the first evidence of dopamine terminal injury — specifically injury to dopamine transporters — in HIV dementia patients," says BNL physician Gene-Jack Wang, the study's lead author. "This suggests that a decrease in transporters may contribute to the disease process. We believe our findings also indicate a new direction for treatment."

The study, which was funded by the Office of Biological and Environmental Research within DOE's Office of Science and the National Institute on Drug Abuse, appears in the September 2004 issue of the British scientific journal *Brain*. Physician Linda Chang, formerly a researcher at BNL and now with the University of Hawaii, initiated this research.

"This study clearly demonstrates that HIV infection damages dopamine-associated brain cells, and provides a pathway for developing more effective treatments," says National Institute on Drug

Abuse (NIDA) Director Nora Volkow, co-investigator, who worked on the study while at the Lab.

Using positron emission tomography (PET), a brain-scanning technique, Wang

whom had symptoms of dementia, and 13 HIV-negative volunteers. The purpose of the scans was to determine the presence of dopamine transporters and dopamine receptors.



Roger Stoulenburgh D0010601

Gene-Jack Wang

and colleagues — including BNL's Frank Telang, Jean Logan, Joanna Fowler, and Thomas Ernst, now with the University of Hawaii — looked at the brains of 15 HIV-positive study volunteers, some of

Dopamine transporters, found on the terminals of some brain cells (neurons), recycle dopamine, a brain chemical that sends signals between the cells. Dopamine receptors are "docking ports" on the receiving neurons. Dopamine is associated with pleasure and reward and is also essential for movement; low levels are found in conditions such as Parkinson's disease. Decreased dopamine transporters represent neuron damage and lower levels of functional dopamine neurons, as well as decreases in the release of dopamine.

Prior to brain scanning, each volunteer was given an injection containing a radiotracer, a radioactive chemical "tag" designed to "light up" activated areas of the brain. The PET camera picks up the radioactive signal and measures the level and location of the tracer. Two hours after the first scan, each volunteer was given a second radiotracer, and his/her brain was scanned again. The first scan looked specifically for the presence of dopamine receptors, and the second searched for dopamine transporters.

(continued on page 2)

Six Brookhaven Scientists Awarded Tenure

David Morrison, Physics Department, has been granted tenure for his crucial contributions to relativistic heavy ion physics, especially in regard to the analysis of Relativistic Heavy Ion Collider (RHIC) data from the PHENIX experiment and for the creation of a computing system and environment without which rapid and accurate analysis of PHENIX data would not have been possible.

Morrison received his Ph.D. in physics from the Massachusetts Institute of Technology in 1994, working on heavy ion experiments at BNL's Alternating Gradient Synchrotron. During his subsequent postdoctoral position at the University of Tennessee, he worked first in the heavy ion program at CERN, Switzerland, and then on PHENIX at RHIC. Joining BNL in 1997 as an assistant physicist, he was promoted to associate physicist in 1999 and to physicist in 2000.

Morrison is recognized as having made outstanding contributions to both the physics and the computing sides of his research. In physics, he has had significant impact on studies of the production of strange particles in heavy ion collisions and on determining the

Brookhaven Science Associates (BSA) granted tenure on June 1 to six Brookhaven scientists. They are: Larry Kleinman, Environmental Sciences Department; Vladimir Litvinenko, Collider-Accelerator Department; William Kilgore, Physics Department; Sergei Maslov, Physics; David Morrison, Physics; and Thomas Ullrich, Physics. The Bulletin will continue to feature a description of the accomplishments of each of the recent tenured scientists over the next few weeks.

David Morrison Physics Department



David Morrison

Roger Stoulenburgh D0130503

geometry of heavy ion collisions. For example, his insights led to PHENIX's first physics publication, a measurement of the charged particle multiplicity density as a function of centrality in gold-on-gold collisions at RHIC, and also to a broader understanding of the methods of measuring centrality. On the computing side, his expertise and acumen have greatly impacted the quality and timeliness of PHENIX data analysis. After working in the PHENIX group that was producing core offline software, he took over the leadership of this effort and later became PHENIX Computing Coordinator, a position he still holds.

"To sum up," says Sam Aronson, Physics Chair, "Dave Morrison is an outstanding performer with excellent potential. He has a record of solid, independent, and important accomplishments in both nuclear physics research and high performance computing, accomplishments that have strongly influenced the programs of PHENIX and of earlier relativistic heavy ion experiments. He is a complete experimentalist, with a balance of physics depth, technical expertise, and leadership that is not easily matched." — Liz Seubert

high performance computing, accomplishments that have strongly influenced the programs of PHENIX and of earlier relativistic heavy ion experiments. He is a complete experimentalist, with a balance of physics depth, technical expertise, and leadership that is not easily matched." — Liz Seubert

397th Brookhaven Lecture

McGuigan Discusses Applications Of Scientific Visualization

Imagine for a moment that someone is fanning pages of sheet music containing a full orchestral symphony — one page after another, in rapid succession. A non-musician would see lines, dots, and would possibly be able to decipher a note or two. Someone who is musically inclined may pick up a melody in the mix. An orchestra, however, delivers the full symphony directly to the ears and minds of even the most musically challenged.

Similarly, the applications of scientific visualization bring the orchestra to play on scientific data. By using images and three-dimensional graphics to understand complex scientific data, researchers are able to gain further insight into the results of their theories or experiments.

To learn about the visualization techniques and how scientists at BNL use them to interpret data, join computer scientist Michael McGuigan of the Lab's Computational Science Center (CSC), when he will present the 397th Brookhaven Lecture, "Applications of Scientific Visualization," on Wednesday, October 13, at 4 p.m. in Berkner Hall.

McGuigan will be introduced by CSC Director James Davenport.

In his talk, McGuigan will describe how visualization techniques here at BNL have led to advances in a wide range of scientific disciplines, including medicine, physics, and nanoscience.

McGuigan will also present an overview of the different visualization "theatres" that are available at the Lab for BNLers to use.

Before his 1998 arrival at BNL, McGuigan served as an assistant editor for

the Physical Review at the American Physical Society. He received a B.S. in math and physics from Carnegie-Mellon University in 1982, a M.S. in physics from Yale Uni-



Michael McGuigan

Roger Stoulenburgh D035904

versity in 1985, and he earned a Ph.D. in theoretical particle physics from Rockefeller University in 1989. His postdoctoral studies were at the Institute for Advanced Study at Princeton and at the University of Florida. McGuigan was also a 2002 recipient of DOE's "Outstanding Mentor" award. — John Galvin

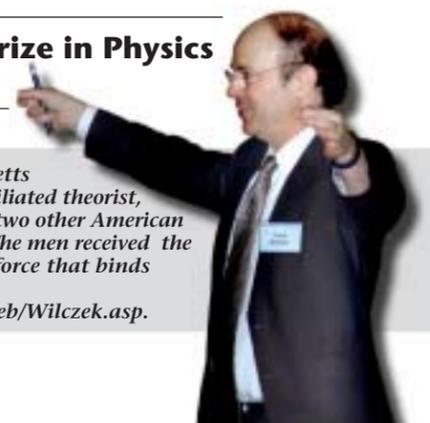
Those who wish to accompany the lecturer to a restaurant after the talk are invited to contact Christine Herbst, Ext. 5304.

Wilczek Receives 2004 Nobel Prize in Physics

Theorist has close ties to Brookhaven

Frank Wilczek, a professor at the Massachusetts Institute of Technology and a Brookhaven Lab-affiliated theorist, has received the 2004 Nobel Prize in Physics with two other American scientists, David J. Gross and H. David Politzer. The men received the prize for their studies of the "strong" force, the force that binds together the particles inside atomic nuclei.

For more information, see www.bnl.gov/bnlweb/Wilczek.asp.



Calendar of Laboratory Events

- The BERA Sales Office is located in Berkner Hall and is open weekdays from 9 a.m. to 3 p.m. For more information on BERA events, contact Andrea Dehler, Ext. 3347; or Chris Carter, Ext. 2873.
- Additional information for Hospitality Committee events can be found at the Recreation Bldg. and at the laundry, both located in the apartment area.
- Contact names are provided for most events for more information.
- Calendar events flagged with an asterisk (*) have an accompanying story in this week's Bulletin.

— EACH WEEK —

Weekdays: Free English for Speakers of Other Languages Classes

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

Mondays: BNL Gospel Choir

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

Mondays & Wednesdays: Pilates

Mon., Noon-1 p.m. in the Rec. Hall; Wed., 5:30-6:30 p.m. in the Rec. Hall. Christine Carter, Ext. 5090.

Mondays & Wednesdays: Yoga

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

Mon., Tues., & Thurs.: Kickboxing

\$5 per class. Mon., noon-1 p.m. in the gym; Tues., 5:15-6:15 p.m. in the gym; Thurs., noon-1 p.m. in the gym; Thurs., 5:15-6:15 p.m. in Brookhaven Ctr. North Room. Registration is required. Christine Carter, Ext. 5090.

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

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

Tuesdays: Welcome Coffee

10-11:30 a.m., Rec. Hall. First Tuesday of every month is special for Lab newcomers and leaving guests. Cindy Ottemann, 849-2646.

Tuesdays: BNL Music Club

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

Tuesdays: Jiu Jitsu Club

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

Tuesdays: Toastmasters

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

Tuesdays & Thursdays: Aerobics

5:15-6:30 p.m., \$5 per class or \$40 for ten classes. Rec. Hall. Pat Flood, Ext. 7886.

Tuesdays & Thursdays: Aqua Aerobics

5:15-6:15 p.m. Eight-week session. \$20 to attend once a week; \$40 to attend twice a week. Ext. 2873 for more information.

Tuesdays & Thursdays: Jazzercise

Noon-1 p.m., Rec. Hall. Preregistration is required. Christine Carter, Ext. 5090.

Tues., Thurs., Fri.: Upton Nursery School

8:30-11:30 a.m. Amie Kennedy, 727-8082, abk22@care2.com, Christine Carter, Ext. 5090, for information.

Tues. & Thurs: Rec Hall Activities

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

Wednesdays: On-Site Play Group

10 a.m.-noon. Rec. Hall. An infant/toddler drop-in event. Parents meet while children play. Kati Petreczky, 821-4131.

Wednesdays: Farmer's Market

11:30 a.m.-1:30 p.m., Berkner Hall parking lot.

Wednesdays: Weight Watchers

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

Wednesdays: Open Chess Night

5-8 p.m., Rec. Hall. Christine Carter, Ext. 5090.

Wednesdays: Dance Lessons

5:15-8 p.m. Brookhaven Cntr., North Room. BNL Ballroom Dance Club hosts lessons, beginner to adv. John Millener, Ext. 3853.

Thursdays: Reiki Healing Class

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

Thursdays: FreshDirect Delivery

3:30-5:30 p.m., Berkner Hall parking lot.

Fridays: Family Swim Night

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

Fridays: BNL Social & Cultural Club

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

— THIS WEEKEND —

Friday, 10/8

*Pine Barrens Research Forum

8:30 a.m.-4:30 p.m., Berkner Hall. All are welcome to attend this free public event. Talks will focus on various issues of monitoring within the Pine Barrens. See notice below and http://pb.state.ny.us/research/2004_agenda.pdf for agenda.

BERA Softball League Party

7-11 p.m., Rock Hill Country Club, Manorville. \$30 per person, cash bar.

More Than FEW (Federally Employed Women)

Coordinated by BNL's Diversity Office and the Biology Department's Beth Lin, who also serves on the Women's Program Advisory Committee, 37 BNL women from various departments and divisions headed to Nashville, Tennessee, in July to attend the 35th Federally Employed Women's (FEW) National Training Program.

FEW is a membership organization working toward the advancement of women in government by encouraging diversity, enhancing career opportunities, and providing opportunities for professional growth through leadership, development, education, mentoring and networking.

The FEW workshops focused on a variety of topics including communication, leadership, teamwork, handling pressures at work as well as home, computing, and problem solving. Attendees reported that the workshops were empowering and motivating as well as useful in the workplace and at home. This year, country singer and songwriter Naomi Judd was the keynote speaker. Judd gave a motivational talk and

a powerful message about the challenges she has faced throughout her career, especially after she was diagnosed with potentially life-threatening hepatitis.

"I was so moved by Judd's talk," said Debra Pettit of the Nonproliferation & National Security Division. "For me, it set the tone of the conference. It made me recognize the challenges that women face at home and at work."

Says Mari Sullivan of Plant Engineering, "I met so many people from different federal agencies with whom we are tied with a common thread — our employment in federal government. It was great networking and sharing ideas."

Sol Rosario of the Lab's Diversity Office adds, "This is a wonderful opportunity for Lab employees. The important work relationships and friendships made during this conference are important to our workers. Attendees return excited, revitalized and ready to share their new ideas."

For more information on FEW, go to: <http://www.few.org/>. — Jane Koropsak



Grouped together in this photo are many of the BNL participants who attended the Federally Employed Women (FEW) National Training Program from Lab Directorates including: Basic Energy Sciences; Energy, Environment & National Security; Environment, Safety, Health & Quality; Facilities & Operations; Finance; High Energy Physics; and Life Sciences; as well as the Diversity Office; the Human Resources & Occupational Medicine Division; the Information Services Division; the Environmental Restoration Division; and the National Synchrotron Light Source Department.

Nobel Laureate Richard Smalley Gives Pegram Lectures, 10/19, 20

Richard Smalley, winner of the 1996 Nobel Prize in Chemistry for the discovery of a structure of carbon atoms known as a "buckyball," will give a series of two lectures at BNL. On Tuesday, October 19, at 4 p.m., Smalley will present a lecture on "Our Energy Challenge," and on Wednesday, October 20, at 11 a.m., he will speak about "The Brave New World of Buckytubes." Sponsored by Brookhaven Science Associates through the George B. Pegram Lectureship Series, in which distinguished scholars examine topics of both scientific and general interest, the lectures are open to the public and will be held in Berkner Hall. Visitors to the Lab age 16 and over must bring a photo ID.

'Family Planning' 11/18

Join Katherine Burnett, Vice President of Medical Services at Planned Parenthood Hudson Peconic, Inc., on Thursday, November 18, from noon to 1 p.m. in Berkner Hall, Room B, where she will present the Health Promotion Program talk "Family Planning: Today & Tomorrow."

In her talk, Burnett will discuss how contraception works, how to make informed choices, current contraception methods that are available in the U.S. and around the world, future products that are in development, and male contraceptives on the horizon.

For more information, contact Michael Thorn, Ext. 8612, or mthorn@bnl.gov.

HIV Dementia Mechanism Discovered (cont'd.)

The researchers found that HIV-positive patients with, but not those without dementia, had significantly lower dopamine transporter levels in the putamen and ventral striatum, the brain regions containing the most transporters, compared with HIV-negative volunteers. Higher levels of HIV virus correlated with lower transporter levels in the caudate — part of the striatum — and in the putamen. Dopamine receptor levels showed only mild decreases in HIV-positive volunteers.

"These findings suggest that HIV patients with dementia may benefit from dopamine-enhancing treatments, es-

Retirement Counseling

A TIAA-CREF consultant will visit BNL on Thursday, October 21, Tuesday, October 26, and Wednesday, October 27, to answer employees' questions about financial matters.

He will help you to:

- Understand the importance of protecting your assets against inflation
- Learn about TIAA-CREF retirement income flexibility
- Compare lifetime income vs. cash withdrawal options.

For an appointment, call Duane Walden, (800) 842-2733, Ext. 7289.

Save the Date! Wednesday, 11/3 11 a.m.-2 p.m. Volunteer Expo 'Sharing Our Caring'

Everyone is invited to visit Berkner Hall lobby at lunch time on Wednesday, November 3, where approximately 25 BNLers who volunteer their time to help various service agencies will be holding a "Volunteer Expo" — to explain some of the reasons why they support this worthwhile work.

Some of these agencies are:

Maureen's Haven for the Homeless; Little Flower Children's Services, St. Charles Hospital, Hope House Ministries, U.S. Coast Guard Auxiliary, Team in Training, Leukemia & Lymphoma Society, New York State Mentoring Program, Boy Scouts, Bellport-Hagerman-East Patchogue Alliance, Colonial Youth Family Services, Manorville Community Ambulance, Long Island Blood Services, Fire Island Lighthouse Preservation Society, American Red Cross, Thee Island Inn Soup Kitchen, and Community Support for South Ocean Middle School.

Representatives from each agency will be there also, with information about the contributions to the Long Island community made possible by these efforts. You may find a new interest in helping one of these organizations yourself.

Arrivals & Departures

Arrivals

Devicharan Chidambaram Env. Sci.
Birajalaxmi Das Biology
Andrei Chitov Physics
Adrian Gozar Mat. Sci.
Kuo-Wei Huang Chemistry
Vlado Lazarov Biology
Sean Mc Ilroy Chemistry
Andrei Savici Physics
Anna Stasto Physics
Denis Suprun Physics

Departures

Kaveh Adib Chemistry
Robert Aikman Plant Eng.
Miraculous Bhasen Physics
Deborah Botts PPM
Tameka Carter ITD
Zheng Chang Chemistry
Arthur Coone PPM
William De Santis Plant Eng.
Louis Di Mauro Chemistry
Douglas Gillette CFN
Victor Garza Chemistry
Galen Hon Env. Sci.
John Jackson Magnet
Myoung-Nyoun Kim EENS
Brian Leskiw Chemistry
Florence Lo Presti C-A
Ming-Shih Lu ES&T
Bernard Mc Caffrey Plant Eng.
Gerard Morris Medical
Thomas Nepssee C-A
Noelwah Netusil Medical
Yarema Prykarpatsky EENS
Kevin Schultz Chemistry
Mariola Sullivan Plant Eng.
Stanimire Tomov ITD
Johannes Van Zeijts C-A
Peggy Von Achen ITD
Patrick Zoccoli Plant Eng.

Pool Closed Next Week

The BNL swimming pool will be closed next week, from Monday, October 11, through Sunday, October 17, and will reopen on Monday, October 18 as improvements are made to the pool facility.

Recital

BSA Noon Recital, 10/13 Adam Thomas Brown, Classical Guitar

All are invited to Berkner Hall on Wednesday, October 13, at noon when guitarist Adam Thomas Brown will present the next BSA Noon Music Recital.

Brown has performed throughout Europe, the U.S. and South America, with major New York performances at Alice Tully Hall and the 92nd.St. Y., and in London at St. Martin-in-the-Fields and the Wigmore Hall.



This summer, he played at the Spoleto Festival (Italy) and made a concert tour of Argentina and Uruguay. Born in Scotland to American parents, Adam studied at the Royal College of Music, then at the Juilliard School with Sharon Isbin.

His program for BNL will include pieces from the Spanish and South American guitar tradition, as well as a transcribed work of J. S. Bach.

Noon recitals are free, and open to the general public. Visitors to the Lab age 16 and older must bring photo ID.

Swing Band at Brookhaven Center, 10/29

The BERA Social & Cultural Club proudly presents "Tommy James & The All Stars" at the Brookhaven Center on Friday, October 29. All are invited to come and dance to the classic American cultural swing music. In between sets, a computer DJ will play music for ballroom and Latin dancing. Before the start of the performance at 8:30 p.m., a complimentary dance lesson will be given of two popular line dances — the Jitterbug Stroll, and the Shim-Sham! The lesson starts at 6:45 p.m.

This event is open to the public. Tickets are \$10 each at the door; there will be no advance ticket sales. Visitors to the Lab of age 16 or more must present a photo ID at the main gate.

For more information, contact Rudy Alforque, Ext. 4733, or rudy@bnl.gov.

Field Day Fundraiser for Upton Nursery School

Upton Nursery School invites the BNL community to the school's first annual Fall Field Day, which will be held on Tuesday, October 12, at 10:30 a.m. at the Recreation Hall playground area, with a rain date of October 19. The school is nonprofit status, so all contributions are tax-deductible. For more information, contact Cindy Ottemann, school registrar, 849-2646 or cjottabb@optonline.net.

Lectures on 'Vedanta' Indian Philosophy, 10/11

On Monday, October 11, all are welcome to attend two free lectures on Vedanta, the ancient philosophy of India. Given by Swami Parthasarthy, founder of the Vedanta Institute and acclaimed as the world's foremost exponent of Vedanta, the first talk, at Berkner Hall, 4-5:15 p.m., will be on "Science of Life: Life and its constituents, subjective and objective science, structure of the human personality, intelligence vs. intellect, the power of the mind, and The Self Within: The Supreme Enlivening Principle." Then, on the same day, at the Wang Center, Stony Brook University, 6:30-7:45 p.m., he will talk on "Life in Focus."

Social & Cultural Club Schedule

Every Friday after work, the BERA Social & Cultural Club offers an evening of dancing and lessons at the Brookhaven Center.

Current Schedule:

- 10/8: Beg/Intermediate Hustle with Vinny Antonelli
- 10/15: Beg/Int West Coast Swing with Ellen McCreery
- 10/22: Beg/Int Quickstep with Giny Rae
- 10/29: Live Music, "Tommy James & The All Stars"; (Free lessons, Jitterbug Stroll & Shim Sham, at 6:45 p.m.)
- 11/5: Beg/Intermediate Bolero with Rudy Alforque
- 11/12: Int/Adv West Coast Swing with Jack & Michele Cooper
- 11/19: Beg/Int American Tango with Donna Marie Portelli
- 11/26: Beg/Int. Viennese Waltz with Giny Rae

For more details, see www2.bnl.gov/rudy/social/activities.html.

The lessons are 2 1/2 hours long, from 6:30 to 9 p.m.; \$8 per person covers the lessons and the social dancing, or \$3 for social dancing only. A BERA member may bring a guest to participate in the lessons. The dance social from 9 p.m. is open to the public. Visitors to the Lab of age 16 or more must present a photo ID (driver's license is fine) at the main gate.

2004 Softball League Champs

Hounds and Foxes



The Hounds and Foxes gave chase to victory and came home as the winners of League M2. They are: (back, from left) Reggie Sanchez, Pat Moylan, Bob Colichio (Captain); (front, from left) Kay Conkling, Darcy Mallon, Onarae Rice, Regina Robinson, Adriana Tovar-Salazar. Not present are: Kerry Bonti, Kristie Bonti, Peter Bonti, Robert Brown, Dana Carasig, Jennifer Graham, Bryan Horan, Patricia Leone, Anna Lovejoy, Doug Marsteller, Vinal Patel, Tyler Rovig, and Deborah Snyder.

Well Heads, League M1



The Well Heads headed off all competition in League M1, drawing buckets of compliments. They are: (back, from left) Scott Smith, Jason Remien (Captain), Chris Ogeka, James Carlson, Keith Klaus; (middle, from left) Marty Meriwether, Brian McCaffrey, Michael Cowell, Doreen Ramirez, Bill Dorsch; (front, from left) Michelle Pizzulli, Peter Genzer, Debbie Bauer, Melissa Rodriguez, Barbara Moebes. Not present are: Joann Giambalvo and Kelly Smith.

Sure Fire, League E3



The Sure Fires fired up and kept their eyes on the target to become the League E3 champs. They are: (back, from left) Regalado Sanchez, Dan Carneiro, Don Zaharatos, Paul Humbert, and Don Abel; (middle) Frank Trapani; (front, from left) Richard Izzo, Gary Heyman, Joe DeVoe (Captain), Artie Harris, Jim Lacy. Not present are: Melissa Abramowitz, Tom Carroll, Bob Danowski, Dave Dono, Phil Maring, Anthony Mantone, Gary Nintzel, Boyze Singh, John Willie, Kevin Willie, Kyle Zaharatos.

Pine Barrens Research Forum, 10/8

The Annual Pine Barrens Research Forum, which is open to the public at no charge, will be held on Friday, October 8, in Berkner Hall, 8:30 a.m.-4:30 p.m. This year's event will feature the signing of "Twinning" documents between the Central Pine Barrens and the Migliarino-San Rossore-Massaciucoli (MSRM) Regional Park in Tuscany, Italy. Talks will focus on various issues of monitoring within the Pine Barrens. For the conference agenda, see http://pb.state.ny.us/research/2004_agenda.pdf.

Calendar

(continued)

WEEK OF 10/11

Monday, 10/11

*Lectures on Vedanta Philosophy

4-5:15 p.m., Berkner Hall. Sponsored by BERA's Indian American Association and Asian Pacific American Association, Swami Parthasarthy will discuss Vedanta, the ancient philosophy of India. All are invited to this free talk. 6:30-7:45 p.m., at SBU, Parthasarthy will give a second lecture. See more details in article below, left.

Wednesday, 10/13

*BSA Noon Recital

Noon, Berkner Hall. Guitarist Adam Thomas Brown will present the next BSA Noon Music Recital. See notice, page 3.

Rifle & Pistol Club Meeting

Noon, Conference Room, Bldg. 535. All are welcome. Come and learn about club activities and obtain assistance and instruction in the maintenance and safe use of firearms. Jim Durnan, Ext. 8236, or www.bnl.gov/bera/activities/rpc/.

*397th Brookhaven Lecture

4 p.m., Berkner Hall. All are invited to attend this free public lecture on "Applications of Scientific Visualization," by Michael McGuigan, BNL Computational Science Center, Information Technology Division. See notice on page 1.

Saturday, 10/16

Culinary Institute, Vanderbilt Mansion

\$52/per person. BERA-sponsored trip to the Culinary Institute of America and the Vanderbilt Mansion. See the fall foliage, enjoy a gourmet luncheon and tour. Christine Carter, Ext. 5090.

— WEEK OF 10/18 —

Tuesday, 10/19

*First of Two 2004 Pegram Lectures

4 p.m., Berkner Hall. Nobel Laureate Richard Smalley, Rice University, will talk on Our Energy Challenge. All are welcome. See notice on page 2.

Wednesday, 10/20

*Second 2004 Pegram Lecture

11 a.m., Berkner Hall. Richard Smalley will speak about "The Brave New World of Buckytubes." All are invited. More information is on page 2.

— WEEK OF 10/25 —

Friday, 10/29

*Tommy James & The All Stars

8:30 p.m., Brookhaven Center. All are invited to come and dance to the classic American Cultural Swing music performed by Tommy James & The All Stars. Tickets are \$10 each at the door; there will be no advance ticket sales. Rudy Alforque, Ext. 4733, or rudy@bnl.gov.

— WEEK OF 11/15 —

Thursday, 11/18

*Family Planning Talk

Noon-1 p.m., Berkner Hall, Room B. Join Katherine Burnett, Vice President of Medical Services at Planned Parenthood Hudson Peconic, Inc., presents the Health Promotion Program talk "Family Planning: Today & Tomorrow." Michael Thorn, Ext. 8612, or mthorn@bnl.gov.

ANS Meeting, 10/13

Charles Meinhold to speak on x-rays, radioactivity, radiation protection

At the next meeting of the Long Island Chapter of the American Nuclear Society (LIANS), the speaker, Charles Meinhold, guest scientist in the Nonproliferation and National Security Department, will talk on "Over 100 Years of X-Rays, Radioactivity, and Radiation Protection."

The meeting will be held on Wednesday, October 13, at the Brick House Brewery and Restaurant in Patchogue. Appetizers will be served at 6 p.m., and dinner at 7 p.m. Meinhold's talk will begin at 8 p.m. Make reservations by Monday, October 11, by calling Arnie Aronson, Ext. 2606, and leaving a voice message.

October Is Healthfest

BNL's Month-Long Celebration Of Health, Fitness, Safety

During this year's Healthfest, BNLers are encouraged to take responsibility for personal health, fitness, and safety. To do so, BNLers are welcome to take part in Healthfest raffles, health screenings, safety demonstrations, fitness events, and the "Health, Safety & Fitness Fair." For more information, contact HealthFest 2004 Co-chairs Michael Thorn, Ext. 8612, and Denise DiMeglio, Ext. 2881.

Next Week's HealthFest Events

- Tuesday, October 12** 11 a.m. – 2 p.m.
Cooking Demonstration by FLIK International – at Berkner Hall, Bldg. 488.
- Wednesday, October 13** 11 a.m. – 2 p.m.
Health Screening Day – at OMC lobby, Bldg. 490. Blood pressure, cholesterol, body composition, and diabetes screenings are available on a first-come, first-serve basis. Cholesterol screening is limited to approximately 50 people.
- Thursday, October 14** 11 a.m. – 2 p.m.
Health, Fitness & Safety Fair – at Berkner Hall, Bldg. 488. Displays, information, drinking-water taste-testing, home-water sample-testing, free raffles, and much more.
- Friday, October 15** 12:05 – 1 p.m.
Fitness Run – 5-kilometer (3.1 mile) run around the site, starting at Biology, Bldg. 463. Participants will receive a 2004 Healthfest t-shirt (supplies are limited).

Classified Advertisements

Placement Notices

The Lab's placement policy is to select the best-qualified candidate for an available position. Candidates are considered in the following order: (1) present employees within the department/division and/or appropriate bargaining unit, with preference for those within the immediate work group; (2) present employees within the Laboratory; and (3) outside applicants. In keeping with the Affirmative Action Plan, selections are made without regard to age, race, color, religion, national origin, sex, disability or veteran status. Each week, the Human Resources Division lists new placement notices, first, so employees may request consideration for themselves, and, second, for open recruitment. Because of the priority policy stated above, each listing does not necessarily represent an opportunity for all people. Except when operational needs require otherwise, positions will be open for one week after publication. For more information, contact the Employment Manager, Ext. 2882; call the JOBLINE, Ext. 7744 (344-7744), for a list of all job openings; use a TDD system to access job information by calling (631) 344-6018; or access current job openings on the World Wide Web at www.bnl.gov/HR/jobs/default.htm.

OPEN RECRUITMENT – Opportunities for Laboratory employees and outside candidates.

MK2487. ASSISTANT ATMOSPHERIC SCIENTIST – Requires a Ph.D., extensive experience in the area of Millimeter Cloud Radar (MMCR), and the application of data from surface-based remote sensors to problems of climate change. Should have demonstrated expertise in the analysis of Doppler spectral data, cloud radar design and operation, analysis of MMCR moments data, multi-wavelength remote sensing, and microwave radiometry. Under the direction of M. Miller, Environmental Sciences Department.

MK2138. POSTDOCTORAL RESEARCH ASSOCIATE – Requires a Ph.D. in physics or related field, a detailed understanding of beam physics, and familiarity with the UNIX operating system and C++ programming codes. Experience with accelerator operation, beam optics, and simulation codes for nonlinear dynamics is desirable. Research will involve working on improving the performance of the Relativistic Heavy Ion Collider (RHIC), and the development of new accelerator projects. Under the direction of V. Litvinenko, Collider-Accelerator Department.

MK2783. POSTDOCTORAL RESEARCH ASSOCIATE – Requires a Ph.D. in physics, chemistry, materials science or a related field and experience in nanofabrication, including e-beam lithography, transport measurements, optical measurements, ultrafast science and synchrotron techniques. Under the direction of J. Misewich, Materials Science Department.

MK3225. POSTDOCTORAL RESEARCH ASSOCIATE – Requires a Ph.D. in accelerator physics or related field with experience in the area of storage rings. The successful candidate will be involved in research and development on lattice design and collective effects for NSLS VUV ring operating in coherent emission mode. Both experimental work and computer simulations will be required. Under the direction of B. Podobedov, National Synchrotron Light Source Department.

MK4151. POSTDOCTORAL RESEARCH ASSOCIATE – Requires a Ph.D. in experimental nuclear or high energy physics and relevant experience in the field of relativistic heavy ion physics, simulation programs in particular Geant3 and knowledge of object oriented programming, C++ and some knowledge of FORTRAN. Candidate will join the ATLAS experiment with focus on studies of the atlas detector performance in the heavy ion collision environment at the LHC. The

ATLAS detector is now under construction and expected to start data collection in 2007. The experiment is designed for the study of high pt phenomena in proton-proton collisions. In heavy ion collisions we will concentrate our attention in jet physics and quarkonia. The candidate will be expected to develop jet reconstruction algorithms in the challenging high multiplicity environment and participate in the ATLAS QCD study group. Under the direction of H. Takai, Physics Department.

TB3153. MATERIALS SCIENCE ASSOCIATE II (P-5) Requires an MS in physics, chemistry, or materials science plus two years related experience with demonstrated ability to operate transmission electron microscopes (TEM) and maintain/manage routine operation of microscope labs. Experience on conventional structural characterization using TEM including bright-field, dark-field, contrast analysis, electron diffraction and crystallography, high-resolution imaging, energy dispersive X-ray spectroscopy and electron energy-loss spectroscopy is desired. Routine duties include operating microscopes, coordinating with microscope service engineers, and training internal and external microscope users. Center for Functional Nanomaterials.

Motor Vehicles & Supplies

02 PONTIAC MONTANA EXT - Fully loaded, MontanaVision, DVD player, leather, p/w, capt. chairs, cd, excel. cond. 46K mi. \$15,999/neg. John, Ext. 2745.

01 FORD RANGER - 4x4, excel. cond, ext. warr. a/t, a/c, 6-CD changer, new tires, bed liner & cover, tow pkg. 40K mi. \$10,500. Cheryl, Ext. 2852 or 654-2041.

99 DODGE CARAVAN LE - V6, 3.3L, a/t, a/c, all pwr., c/c, abs, remote start, alloy wheels, 7-pass, 2 sliding drs. 82K mi. \$5,900/neg. John, Ext. 8082 or 929-8204.

98 BUICK PARK AVENUE - all pwr., 6 pass., cd/cass. stereo, beige, smooth ride, excel. cond., 59K mi. \$7,000. Blair, 286-1253.

97 FORD THUNDERBIRD - 6-cyl, 2dr, a/t, am/fm/cassette, a/c, tan/tan cloth int., excel. cond. 96K mi. \$4,000/neg. David, 395-3484.

97 BMW 328i - 4dr. sedan, black, a/t, am/fm/6-cd changer, leather int., sun roof, 2nd owner, v. well maint. \$9,850. 1-607-435-2287.

95 DODGE NEON - sport sedan, a/c, a/t, c/c, abs, am/fm cd + mp3, 135K mi. \$2,000/neg. Ext. 2352.

95 TOYOTA CAMRY LE - 4-cyl., a/t, p/w, p/s, a/c, 105K mi. \$3,500/neg. Christoph, Ext. 4820.

94 FORD TAURUS - all pwr. 153K mi. \$600. Raul, Ext. 4990 or 924-3964.

93 PONTIAC BONNEVILLE - excel. cond, very reliable, V6, a/t, p/b, p/l, p/s, p/w, well maint., hwy. miles. 128K mi. \$1,850/neg. Rama, Ext. 8215.

92 FORD EXPLORER - V6, 4wd, gd. body and int., new exhaust & brakes, 147K mi. \$2,500. Mike, Ext. 3434.

91 LEXUS ES 250 - a/t, a/c, p/b, p/s, p/w, mint cond., well maint., white, orig. owner, 107K mi. \$2,000. Dhruva, 212-682-1443.

91 HONDA CIVIC - 5-spd. hatchback, a/c, am/fm/cd, runs well, front right dented, very clean, avail. 11/15, 109K mi. \$2,500. Ingo, Ext. 5360 or 969-9456.

87 SUNLINE TRAVEL TRAILER - 22 foot, sleeps 6, full bath, a/c, tow pkg., \$3,000/neg. Ext. 4303.

84 PLYMOUTH HORIZON - 4-cyl., gently used by one owner, good cond., needs minor repairs, gets great gas mileage. 43K mi. \$800. Rita, Ext. 3320.

83 SUZUKI GS850G - new tires, many new parts, extras, excel. cond., 23K mi. \$1,300. Chris, 289-5827.

80 CHEVY PICK UP C-10 - a/t, p/s, new tires, p/b, am/fm, good homeowner truck, reliable, 87K mi. \$700/neg. Stephen, Ext. 2575 or 924-3944.

SHOCK ABSORBERS - Rancho RS 5000 cellular gas, new in box, \$20 ea.; Roadhandler gas shocks \$10. John, Ext. 4028.

RADIATORS - cast iron, 4.5" w x 25" h, 28", 35", 42", 48" long, excel. cond. Rich, 589-9103.

TIRES - 2-15" mounted on rims, \$20/ea.; 2-16" Dunlop A2 sport, \$10/ea. Paula, Ext. 4719.

Boats & Marine Supplies

16' HOBIE CAT CATAMARAN - '80, w/ trailer, all new lines and many new parts, sails in good shape. \$1,400/neg. Peter, Ext. 4028 or 486-8199.

16' SILVERLINE EAGLE - Newly painted red/black, '98 Yamaha 15 Hp, oars, gas tank, remote steering station, mint cond. \$2,000/neg. Carlee, 255-9620.

OUTBOARD ENGINE - '05 Tohatsu MFS9.8AEL, 4stroke, 9.8hp, 20" shaft, new 3-yr. warr. \$1,740 Ext. 4708.

Furnishings & Appliances

ENTERTAINMENT CENTER - wood, 4.5' x 4.5' \$45; white bakers' rack, \$45; Ab Roller, \$10; Teddy Bears 2.5' tall, \$2. 875-1026.

SLOW COOKER - Rival 3.5 qt. \$5; Oster designer carousel rotisserie, \$15. Angela, Ext. 5322.

END TABLES - 2, w/bevel glass top, stone base, Seamans, excel. cond. \$150. Cynthia, 924-6475.

COUCHES - 80" queen sleeper, 58" loveseat, beige w/accent pillows, v. gd. cond., \$250/all. Judi, 928-5714.

LIVING ROOM - Thomasville, sofa loveseat, coffee table, 2 end tables, 2 lamps, \$1500. Joe, 758-2938.

DINING ROOM SET - table w/pads, 60" x 42" + 3 extra leaves, 12"/ea. 6 chairs, china closet, more. \$350. Edward, 727-1410.

BEDROOM SET - dark pine, 3 dressers, 2 hutches, twin mattress/boxspring, more, \$150; d/r table, Fruitwood, \$75. William, 732-9102.

SOFA - 6', 2 Queen Anne chairs, ottoman, gd. cond., \$100. Willy, 929-2885.

Audio, Video & Computers

SPEAKERS - Infinity, \$1,000; Nordic Track treadmill, used 3 times, \$800. Maryellen, Ext. 3670.

TV - SONY 24" HD Trinitron WEGA flat screen, model KV24FS100 slightly used, in box, \$200. Ext. 5159 or 399-1679.

Sports, Hobbies & Pets

AQUARIUM - 50 gal. bowed fish tank, cherry wood base, filter, heater, temp. glass, 14 African Cichlids, \$350. Jack, 847-4049.

CHIHUAHUA - baby, must sell, ask. \$100. Ext. 7692.

GOLF CLUB SET - w/bag. \$25. Richard, 924-6751.

KITTENS - rescued baby needs home, 5 wks. old, gray, tiny, adorable. Sherry, Ext. 6558 or 727-6714.

KITTENS - looking for gd. home, 1 male, 1 female, blk./white, 6 wks., vet. checked. Alison, Ext. 8367 or 455-2102.

Tools, House & Garden

OLDER SHOPSMTIH - mounted on mobile base, has table saw, drill press, and wood-turning attachments. \$150. Rolf, Ext. 2305.

CHARCOAL GRILL - Weber 22, good cond. \$35 Susan, Ext. 7235 or 399-7997.

Wanted: BNL Art and Crafts for Fall Show

BNL artists, photographers, sculptors, and crafters — your most beautiful, eye-catching work is needed for the BNL Art Society's upcoming Art and Crafts Exhibit to be held at Berkner Hall from Monday to Wednesday, November 22-24, 11:30 a.m. - 1 p.m. An evening reception with refreshments will also be held on Monday, November 22, from 5 to 7 p.m.

BNL employees, retirees, facility users, guests of BNL, and family members 15 years and older, may all contribute. More than one piece may be entered by an exhibitor, to be shown as space permits. There is plenty of time to start, finish or frame an artistic contribution — bring your finest skilled and creative works for the Lab community to enjoy.

Exhibits for the show must be brought to Room C, Berkner Hall, the afternoon of Friday, November 19. To be included in the catalog, complete a form for each work entered and return it by Friday, November 12, to Robert Chrien, Bldg. 510A, or e-mail the information requested below to chrien@bnl.gov.

Entry for BNL Art, Craft Exhibit, November 22-24, 2004

Name home phone

BNL contact BNL extension

Type of art/craft: painting, sculpture, photo, pottery, quilting, etc.

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Title of work if there is one:

Description (medium/material, size)

.....

Please print clearly, return to Robert Chrien, Bldg. 510A, or chrien@bnl.gov by 11/12.

Miscellaneous

CRIB - light oak, with Simmons Beauty Rest mattress, mint cond., \$100. John, Ext. 7018.

WINE DECANTER - beautiful, new 24% lead crystal, Essex, 34 oz., 11-1/4" h, 7-3/4" diameter, Waterford quality, \$22. Leslie, 225-0642.

OPERA TICKETS - 2 tickets for Otello at the Met., Sat., 1/8, matinee, balcony box seats. \$35/ea. Ext. 4637.

Free

AMERICAN ROSE MAGAZINE - back issues and annual from 2003-04. Maria, Ext. 5483.

LAWN MOWER - Craftsman, w/grass catcher bag, works well except for the self-propeller, you pick it up. Ext. 7022.

SOFA - 82", you pick up, red/gr/navy plaid, good cond. Linda, Ext. 4887.

WINDOW GRILLS - Andersen, wood, int., sizes: 2842, 2832, 2432, 3042. Jason, Ext. 2417 or 654-5510.

Yard & Garage Sales

SOUND BEACH - Corner of Malba & Richmond Hill, 9 a.m.-3 p.m.

Wanted

BOX TOPS FOR EDUCATION - local school is collecting box tops from any General Mills product, for educational materials. Send to Pam Mansfield, Bldg. 515.

GENTLY USED BOOKS - New/gently used books for adults & kids to be placed in BNL on-site libraries in dorms, B'hvn. Center & Rec. Hall. Christine, Ext. 5090.

AQUARIUM - 20 gal. or larger with stand. Albert, Ext. 5128.

WOOD LATHE - Looking for inexpensive lathe for hobby. Daniel, Ext. 4798.

WHEELCHAIR - adult size, gd. cond. Annamarie, 878-8967.

For Rent

CAROLLA, NC - 5bdm., 3bath, in Outer Banks, pool/hot tub, pool table, PS2, 5-min. walk to ocean. www.family-vacation-homes.com. \$695-\$2,695/wk. Carrie, 889-5303.

SOUND BEACH - MPSP, 3 bdrm., new eik, 1 bath, partial bsmt. w/washer+dryer, no smoking, util./sec. extra. \$1,575/mo. Brian, Ext. 3370 or 929-0383.

SHIRLEY - 1-bdrm. efficiency apt. w/full bath, priv. ent., sm. kit., non smoker, no pets, 1 mo. sec. req. \$700/mo. Regis, Ext. 2375.

MILLER PLACE - furnished, lg. apt., 18' x 13' bdrm. internet/TV/phone, 9 miles to BNL, prof. residential neighborhood, no pets, responsible non smoker. \$825/mo. 744-8386.

FARMINGVILLE - 1-bdrm. grd. flr. apt., heat control, no smkg/pets, single preferred, 15 min. to BNL, all utilities/cable incl., 1 mo. sec. reqd. \$800/mo. Thomas, Ext. 4866 or 974-0771.

WADING RIVER - 1-bdrm. apt., lg. vr, eik, full bath, priv. ent., 10 min. to BNL, 1 bk. to LI Sound, non smkr. only, no pets, single, 1 mo. sec. util. incl., \$900/mo. Richard, 929-3419/eves.

YAPHANK - 3-bdrm. colonial house, lg. yd., wooded area, 5 mi. from BNL, avail. 11/1. \$1,600/mo. Jerry, 924-5219.

RIDGE - mint 2-bdrm. 1st. flr. apt., lg. eik, l/r, bath, parking, no/smkg/pets, util. incl. + sec. \$1,395/mo./neg. Casper, Ext. 3469 or 917-721-2277.

For Sale

GORDON HEIGHTS/MEDFORD, NY - land, 100 x 173. \$115,000 Cynthia, 698-9016.

PORT JEFFERSON STATION, NY - 10-rm. high ranch on 1-acre flag lot, 3 bath, 5 bdrm., 30-ft. agp w/deck, children's play ground, 200W amp, 100W sub in back yard, taxes \$6300 w/star \$519,000 Victor, 484-1133.

MILLER PLACE, NY - new, 4 bdrm., 3 full baths, antique wood & ceramic floors, f/p, basement, garage, 3/4 corner acre, 1 block to beach with beach rights \$550,000 Jim, 821-2558.

PORT JEFFERSON, NY - 4-bdrm. colonial, mother/daughter addition, 1-car gar., 1/3 acre, 3 Village SD, \$390,000 Dave, 395-3484.

WADING RIVER, NY - Lewin Hills Beach Assn., deeded bch. rights, 3-bdrm. ranch, deck, priv. 1/2 acre, 2 new baths, mstr. bdrm. suite w/f/p, cedar clst., 1-car gar. \$409,900 Gina, 219-4405.

In Appreciation

Thank you to my CAD family and BNL friends for a wonderful farewell. You will forever remain a part of my heart.

— Penny Lo Presti

BNL Walks for Diabetes Research, 10/17

Supported by the BNL Volunteers in Partnership program, Ruth Comas of the Staff Services Division is forming a BNL team to join the October 17 Suffolk County Walk to "Blow Away Diabetes" with forefront research. The 5-kilometer (3.1-mile) walk will be held on the campus of the New York Institute of Technology in Central Islip, ending at the Student Activity Center where a Fitness Festival, Youth Zone and refreshments will be located. Registration begins at 9 a.m., and the walk starts at 10 a.m. Each team member is required to have a sponsor-form filled, the average sponsorship being \$150 per member. If you are interested, contact Comas at comas@bnl.gov.

Bike Tour of NYC For MS Society, 10/17

Volunteers are invited to join a team from BNL planning to participate in a bike tour for the Multiple Sclerosis Society of New York, with rides of 30, 60, and 100 miles in and around Manhattan and New Jersey. The Asymptotic Freedom Riders of BNL have been participating in this event for several years and are welcoming more people. Team T-shirts and support will be provided by the BNL Volunteers In Partnership (VIP) program. Other contributions for the event are also welcome. Contact: Ofer Rind, rind@bnl.gov or Ext. 6299.