These talks filled Stony Brook’s 1,049-seat Staller Center for the Arts, and the excitement overflowed into the lobby as participants continued discussing the new findings in small groups during the breaks.

"We were thrilled with the turnout, the liveliness of the scientific presentations, the level of discussion, and the enthusiasm that everyone who participated brings to the field of quark-matter physics," said conference co-chair Michael Marx, SUNY Binghamton. The conference marked the first opportunity for international physicists to examine the latest theoretical and experimental results from their searches for a new state of matter—the quark-gluon plasma.

New Study Shows How Ritalin Works

New BNL research on Ritalin, a drug prescribed to millions of American children each year with Attention Deficit Hyperactivity Disorder (ADHD), shows for the first time how the drug acts in the human brain and why it is so effective.

The findings are reported in the January 15 issue of the Journal of Neuroscience. The publication can be found on the Web at www.jneurosci.org/cgi/content/full/20014896.

Although Ritalin has been used for more than 40 years as a successful treatment for ADHD, minimal information has been gathered to date, outside of limited animal studies, on exactly how the drug works in the brain. This latest study of humans indicates that Ritalin significantly increases levels of dopamine in the brain, thereby stimulating attention and motivational circuits that enhance one’s ability to focus and complete tasks.

"For the first time, we are seeing that Ritalin given at doses commonly used to treat children with ADHD, significantly increases levels of dopamine in the brain," said Nora Volkow, head of the research team, and through in-person and telephone interviews from as far away as Sweden, these reports got the hottest physics story of the year — and the media relations staff at Stony Brook, they also implemented a plan to maximize media coverage of the exciting science news.

In the end, no one went away without at least one of the science reporters. By attending the presentations, a media representative for the conference team and, through in-person and telephone interviews from as far away as Sweden, these reporters got the hottest physics story of the year — and the media relations staff at Stony Brook, they also implemented a plan to maximize media coverage of the exciting science news.

The method the scientists are using to search for QGP is to heat up ordinary nuclear matter by colliding the nuclei of heavy atoms at high speeds in "atom smashers" such as RHIC. If the collisions are energetic enough, the heat should allow the ordinary nuclear matter, which is composed of quarks and gluons confined within protons and neutrons, to undergo a phase transition. Some what analogous to boiling water to create steam, this phase transition would allow the quarks and gluons to flow freely in a hot, soup-like plasma, no longer confined within individual protons and neutrons.

In February 2000, scientists at CERN, the European laboratory for particle physics, suggested that they had observed "tantalizing hints" of quark-gluon plasma in experiments similar to those performed at RHIC. They presented their findings Monday morning and (continued on page 2)
Calendar of Laboratory Events

- The BERA Sales Office is located in Berkner Hall and is open weekdays from 8 a.m. to 5 p.m. For more information, contact K.B. Dunn, Ext. 3024. (Contact information for BERA employees can be found in the Address Book, site wide.)
- Additional information for Headquarters contacts can be found in the Office Guidebook for the area.
- The building is accessible to the area building.
- Calendar events flagged with an asterisk (*) have an accompanying story on the next week in the Bulletin.

**EACH WEEK**

**Tuesday, 2/1**
Coffee 9:30 a.m. - 10:00 a.m., Recreation Bldg. Noon-1 p.m. Mon. & Thurs. 5:15 p.m., Recreation Bldg. Free. For more information, call Ext. 9023 or wood2@bnl.gov.

**Wednesday, 2/2**
- *Outreach & Healthline Lecture*
- Tues. & Thurs: Aerobic Dance
- Wednesdays: Yoga Practice Sessions

**Calendar**

**noon - 1 p.m. in Berkner Hall**

**Monday, 2/5**
- Mary Wood, Ext. 5923, or wood2@bnl.gov.
- Monique de la Bey, 399-7656. — Hospitality event.
- Susan Montelone, Ext. 7235.

**Friday, 2/2**
- **Outreach & Healthline Lecture**

**Monday, 2/5**
- Mary Wood, Ext. 5923, or wood2@bnl.gov.
- Monique de la Bey, 399-7656. — Hospitality event.
- Susan Montelone, Ext. 7235.

**Friday, 2/2**
- **Outreach & Healthline Lecture**

**Evolution and Impact of the Human Genome**

**Monday, 2/5**
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**BNL’s New Exercise, Weight-Lifting Facility Opens**

About 250 BNLers celebrated the opening of the new exercise and weight-lifting facility at BNL’s gymnastics on January 23. Battelle Memorial Institute and Stony Brook University funded the building of a 650-square-foot mezzanine and the purchase and installation of 17 new pieces of exercise equipment, including a treadmill with pulse meter, an elliptical treadmill, a stair climber, several cycles and a cable crossover, suitable for various types of general fitness and bodybuilding exercises.

Recreation Supervisor M. Kay Dellimore and Karen Adeworth of the Office of Management Services coordinated the opening celebration, which included a performance by the BNL Gospel Choir, refreshments, a ribbon-cutting ceremony, a tour of the new facility, and information on 20 BERA activities, as well as the opportunity to speak with BERA club representatives.

“We are privileged to work at Brookhaven, which offers so many opportunities for the BNL community to pursue their interests through BERA,” Dellimore said. “The exercise and weight-lifting facility is very popular, and the new addition will allow many more people to enjoy it in a safe and pleasant environment.”

The hours of the new exercise and weight-lifting facility are weekdays: 11 a.m. to 12:30 p.m., BERA Bodybuilding Club members only; and 12:30 p.m. to 2 p.m., all employees, retirees, and BERA facility users. All BNLers are also invited to use the facilities on weekdays evenings, 5 - 9 p.m., and Saturdays, 10 a.m. - 5 p.m. The facility is closed on Sundays. No one under 18 years old is permitted to use the facility.

Those interested in joining the BERA Bodybuilding Club may contact one of its officers: Charles Gardner, Ext. 5214; Lori Stiegler, Ext. 4617; John Alois, Ext. 7018; or Elliott Levitt, Ext. 2495. — Diane Greenberg

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**Outreach and Healthline Lectures**

Caring for Aging Parents & Relatives

Many in the sandwich generation are currently coping with caring for aging parents while struggling to balance responsibilities for family, work, etc. As a result, old issues with parents and siblings often reemerge. To address how to deal with these problems, Linda Costanza will present the first lecture in a two-part series called “Caring for Aging Parents & Relatives” from noon to 1 p.m. today in Berkner Hall. Costanza’s presentation will be an overview of relationships and community resources.

Part II of the lecture series will be presented by George Roach on Tuesday, February 6, from noon to 1 p.m., in Berkner Hall. Roach will discuss legal and financial concerns for parents and relatives, covering the most recent changes in the Medicaid law and the financial impact of illness in caring for elderly parents and loved ones. The lectures will be discussed as well.

Questions will be answered following the lectures. Afterwards, the lectures will be available on cassettes in the Research Library.

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**Employee to Present Acoustic Guitar Recital, 2/14**

James O’Malley, a rigging supervisor in BNL’s Plant Engineering Division, will present a free acoustic guitar recital to the public on Wednesday, February 14, at noon, in Berkner Hall. O’Malley began playing guitar in his teens and writing songs shortly thereafter. He continues to write and has performed widely, including live on WBJI and WGBU.

Earlier, he had performed with The Braids, an acoustic foursome that reaped daffodils may be picked up on Thursday, March 29, at the BERA Sales Office.

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**Calendar**

**Week of 2/12**

Rifle & Pistol Club Meeting

Noon, Conference Room, Bldg. 535A. For more information, contact Morris Strongson, Ext. 4192, or mms@bnl.gov.

Friday, 2/16

Women Engineer’s Lunch Networking Meeting

 Noon, Berkner Hall, Room A. Contact Lorraine Mardon, Ext. 3318.

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**Week of 2/19**

*There will be no Bulletin published this week due to the Labor Day holiday of President’s Day.*

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Earlier, he had performed with The Braids, an acoustic foursome that recorded and toured through the U.S. appearing with, among others, Harry Chapin, and at, among other venues, Carnegie Recital Hall.

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**BERA Presents Five Gospel Choirs in Concert at Berkner Hall**

In honor of the tenth anniversary of the BNL Gospel Choir, BERA will present a gospel concert on Saturday, February 10, at 3 p.m. in Berkner Hall.

In addition to the BNL Gospel Choir, four guest choirs will perform at the concert: the Rush Temple Choir, from the Rush Temple AME Zion Church in Jamaica; Sons and Daughters of Durham, Durham AME Zion Church of Bayside; the Full福德 Ensemble of the First Baptist Church of Churchogue; and the Kids of the Kingdom, Unity Baptist Church in Mattituck.

Comprised of Lab employees, the BNL Gospel Choir participates in over 30 concerts and programs annually. The choir took fourth place out of 19 choirs at the 1995 McDonald’s Gospel Festival, and it spreads its message of peace by participating in multi-cultural awareness days and other events in various school districts.

Tickets for the February 10 concert may be purchased at the door, but seating is limited, so advance ticket purchase is recommended. Tickets are now on sale for $10 each, payable in cash or check, at the BERA Sales Office in Berkner Hall. The BERA Sales Office is open weekdays, from 9 a.m. to 3 p.m. For more information, call Ext. 3347.
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 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 positions. Because of the priority policy stated above, each listing does not necessarily represent an opportunity for all employees. Except when open recruitment needs require otherwise, positions will be open for one week after publication. For more information, contact the Employment Manager, Ext. 2882; call the JBLSRC, Ext. 7744-2447, for a list of all job openings; use a TDD system to access job information by calling (631) 344-6018 or access current job openings on the World Wide Web at www.bnl.gov/jobs/jobs.html.

LABORATORY RECRUITMENT – Opportunities for Laboratory employees

NR2000: ADMINISTRATIVE POSITION (Counterintelligence Analyst) – Requires a bachelor’s degree in political science, or similar field (master’s preferred), and experience in locating, assembling, and collecting raw data for analytical use. Experience in assessing, analyzing, and developing raw data, conclusions, and recommendations supported by assessable facts, and the ability to derive long- and short-term estimates of data trends and possibilities necessary to accomplish work goals. Requires an interest in current affairs, and the ability to travel for business and personal reasons. Must possess U.S. citizenship and pass the security clearance necessary. Must submit a resume and letter of interest to the Personnel Director. Reactor Operations Directorate (DOB479) OFFICE SERVICES POSITION — (Term Appointment) Requires an A.A. degree in secretarial science or equivalent experience with excellent organization, communication, and writing skills. Experience in data management and proficiency in the use of Word, PowerPoint, Excel, and Outlook also required. Will perform various secretarial duties, including preparing correspondence, procedures, reports, and presentations; answering telephones; filing; and operating control system. Knowledge of BNL policies and procedures is required, as is the ability to handle multiple tasks and prioritize work. Environmental Restoration Division.

RECRUITMENT – Opportunities for Laboratory employees and outside candidates.

MK2440: ASSOCIATE LABORATORY DIRECTOR, ENERGY ENVIRONMENT & NATIONAL SECURITY – Reporting to the Laboratory Director, the Associate Laboratory Director will manage and develop a diverse research program in environmental sciences, energy sciences, and national security. Will define the goals and develop the strategic plan for the Directorate. Requires an advanced degree (Ph.D. preferred) in science or engineering, a strong research background in one of the major research areas of the Directorate; demonstrated experience and success in managing and developing a medium-size research program in a federally funded environment; in industry; and excellent communications and leadership skills. In addition, requires U.S. citizenship and the ability to obtain and maintain a DOE Q-clearance. BNL’s management structure and the Directorate’s research programs may be obtained from the BNL web site (www.bnl.gov). The position is available immediately and will be filled by October 1, 2001. Interested candidates may send curriculum vitae to Dr. Veljko Radeka, Search Committee Chair, Bldg. 555, R.O. Box 5000, Upton, NY 11973-5000, radeka@bnl.gov, Director’s Office.

NS702: MANAGER, OFFICE OF EDUCATIONAL PROGRAMS – Requires an advanced degree, preferably in education or science education, and 15 years’ experience in R&D or science education and management, communication and managerial skills, and a solid understanding of education, science education standards and educational environment are essential. Desired strengths include experience in curriculum development, grant writing, budget preparation, and familiarity with government and/or large research, technical, or industrial organizations. Duties will include management of the Lab’s elementary, secondary, and undergraduate science education programs. Primary responsibilities include managing educational programs and implementation of science education programs, fund-raising to support education initiatives, and developing and maintaining research programs in the division. Will represent BNL to external authorities, the Office of Science, and the higher education community. Additional responsibilities include working with educators, students, and community groups to foster the development of innovative teaching strategies, and initiating and establishing partnerships with educational institutions. The position includes travel to educational institutions and events. Minimum qualifications: a Ph.D. in science, mathematics, or education with experience in developing and delivering training programs, educational curriculum, or other educational initiatives. A strong background in teaching and education is essential. Experience in working with educators or students in formal and non-formal educational settings is desirable. The position is available immediately and will be filled by November 1, 2001. Interested candidates may send a resume and cover letter to Dr. Gary Bozarth, Director of Education, Education and_crossentropy.