**Budget Future Bright, Reports Lab Director**

**Attributes Growth Potential To Employees’ Hard Work**

“Fortunately for us, we are well positioned. We have a very clear idea of where we want to go, and we’ve developed a large number of initiatives.”  
—Praveen Chaudhari  
Laboratory Director  

**BNL** has made it through a difficult budget period, is expecting a generous FY 2007 budget, and is poised to grow substantially over the next five to ten years through several Federal and Laboratory initiatives, Laboratory Director Praveen Chaudhari told employees during a February 10 all-hands meeting.

“It looks as if 2007 will be a great year,” said Chaudhari, explaining that the President’s FY07 budget includes full funding for DOE’s $300 million for initial research and development and engineering analysis for NSLS-II, and $18.9 million for the completion of the Center for Functional Nanomaterials (CFN) construction project. “Our budget is up by about 13 percent — and that’s because we were well positioned to receive the money.”

The idea of the Lab’s putting itself in a position to succeed through the hard work of its staff was one that Chaudhari returned to often in his talk.

“We were delighted to hear, when President Bush gave his State of the Union address, that he plans to double, over the next ten years, the amount of investment in science, engineering and education,” said Chaudhari. “Fortunately for us, we are well positioned. We have a very clear idea of where we want to go, and we’ve developed a large number of initiatives.”

In terms of nuclear physics, Chaudhari said, “The budget for ’07 looks remarkably good — it’s about a $30 million increase. We should have a full RHIC run next year.”

NSLS-II will similarly benefit, funded to the tune of $45 million next year. “The focus now will be on reaching the Critical Decision 1 milestone for NSLS-II,” said Chaudhari. “We’re making an all-out effort to get that light source located here, and that decision should be made in about 12 months.”

In terms of the CFN, “The building is going up, and construction is proceeding as planned. That construction will be completed in ’07, and we will begin a transition to operations,” he said.

Chaudhari also pointed out other areas that should see growth, including biology, energy, environment, and national security, and said that while medical imaging took a hit this year and next, he expects the program to continue and grow in ’08.

“The Lab will find the money to support the program this year and next year while a National Academies of Science (NAS) study determines whether DOE or the National Institutes of Health or both should fund this program,” he said. “It’s important for the administration to make that decision based on the science and where it can best be done, and I think that where it is made, based on the NAS study, medical imaging will blossom within DOE.”

Due to NSLS-II, CFN, and other initiatives, the Director said that he expects BNL’s population to reverse its recent decline and add upwards of 250 employees in base budget by 2010. “This tells you that the Lab has turned a corner and will now start to grow,” he said. “This is remarkable growth, and I am extremely proud of all of that effort. — it’s your hard work that produced the ideas, that the hard work of the people that set the Lab on the right course.” — Peter Genzer  

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**BNL-Produced Accumulator Ring Commissioned At ORNL-Located Spallation Neutron Source**

The Spallation Neutron Source (SNS), located at Oak Ridge National Laboratory (ORNL), has passed another milestone on the way to completion this year — the commissioning of the proton accumulator ring that is BNL’s contribution to the project. Five DOE Office of Science laboratories — Argonne, Berkeley, Brookhaven, Jefferson and Los Alamos — participated with ORNL in the design of the SNS project, which will produce the world’s most intense neutron beams to probe the molecular structures of materials. As a user facility, the SNS is expected to attract researchers from all over the globe.

“The ring is the last major accelerator element delivered by one of the partner labs in the six-laboratory project,” said SNS Director Thom Mason. “Its successful operation confirms not just the robustness of the BNL components but also the full integration of accelerator hardware designed and built using expertise throughout the national DOE complex. We are looking forward to the first beam on target later this year.”

The accumulator ring is the final step in a proton’s journey through the accelerator before it strikes the SNS’s mercury target, “spalling” away neutrons to be used for research. BNL led the design and construction of the accumulator ring, which will allow an order of magnitude more beam power than any other facility in the world. In SNS operations, the copper-percycling linac produces proton pulses traveling at almost 90 percent of the speed of light. In the ring, the protons within a pulse are “accumulated” to increase the intensity a thousand-fold. At that point, this now very intense pulse is extracted and delivered to the mercury target to produce neutrons. This happens 60 times per second.

During its recent commissioning, after only three days of its initial operation, the ring accumulated protons, which were then extracted at a SNS point just short of the target. “The successful commissioning of the accelerator ring — in record time for this type of device — is a testament to the extraordinary collaboration between Brookhaven and Oak Ridge,” said Wei of theCollider-Accelerator (C-A) Department, who led the BNL team. “The Brookhaven team is extremely proud of the quality of the product that we delivered. This is the result of more than seven years of hard work of the whole team.”

Said Derek Lowenstein, C-A Chair, “We initially promised ORNL that the BNL A-team would be well positioned and the success of the accumulator ring proves it.”

With extraordinary success, we are definitely on our way to operate the world’s

(continued on page 2)

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**Five Brookhaven Employees Honored With 2006 BNL Engineering Awards**

At the Fiscal Year 2006 BNL Employee Recognition Award Ceremony held on Thursday, February 2, Laboratory Director Praveen Chaudhari and others congratulated 15 BNL employees for their talent and dedication, which won each entrant the Science & Technology Award, the Engineering Award, or the Brookhaven Award, and $5,000. Also recognized were the FY05 Spotlight Award winners, who were featured last week: this week, the Bulletin focuses on the winners of the engineering Award.

Science & Technology Award recipients are: James Alessi, Collider-Accelerator (C-A) Department; Stephen E. Schwartz, Environmental Sciences Department; Peter Siddons, National Synchrotron Light Source (NSLS) Department; Anke Iseke, Condensed Matter Physics & Materials Science Department; and Peter Varner, Nonproliferation & National Security Department. Engineering Award recipients are: Russell Dietz, Environmental Sciences Department; Sachin Junnarkar, Instrumentation Division; James Mills, Plant Engineering (PE) Division; Jon Sandberg, C-A; and Andrey Sukhanov, Chemistry Department. Brookhaven Award recipients are: John DiNicola, PE; Nicholas Gium, NSLS; Ray Karol, C-A; Gerard Shephard, Safety & Health Services Division; and Peter Stelmaschuk, PE. The winners of the awards will be featured in this and future Bulletins.

Presented by Andy McNerney, Assistant Laboratory Director for Facilities & Operations, the Engineering Award recognizes distinguished contributions to the engineering and computing objectives of the Laboratory over one or more years. Contributions may be in any engineering or computing disciplines. Nominees are evaluated on the exceptional nature and level of difficulty of the contributions as well as their benefit to the Laboratory. The winners of the FY 2006 award are featured on page 2.

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Winners of the FY 2006 Engineers Award are: (from left) James Mills, Plant Engineering Division; Russell Dietz, Environmental Sciences Department; Sachin Junnarkar, Instrumentation Division; Andrey Sukhanov, Chemistry Division; and Jon Sandberg, Collider-Accelerator Department.
Russell Dietz
Sachin Junnarkar
Jim Mills
Jon Sandberg
Andrey Sukhanov

Russell Dietz, a chemical engineer in the Environmental Sciences Division, was cited for developing novel, predictive analytical techniques to sample and measure perfluorooctanoic acid (PFOA) in water bodies at extremely low concentrations and for devising novel approaches to control PFOA emissions. Dietz is internationally recognized as an expert in using PCAs to develop alternative analytical methods for difficult energy and environment issues. These include measuring air exchange rates in homes to evaluate radon and other indoor air pollutants, finding fluid leaks in underground power lines, and evaluating the effectiveness of nuclear power containment systems. Part of his work has been to ensure their safety under accident conditions.

Junnarkar joined as a junior research associate in 1962, where he worked on particle detectors in radiation chemistry. He received his PhD from the Polytechnic Institute of Brooklyn in 1964.

Mills joined BNL as a project engineer at the Alternating Gradient Synchrotron (AGS) in 1990. He became responsible for planning, design, and construction of several large Heavy Ion Collider (RHIC) and RHIC complex structures and heavy machinery needed for giant particle detectors. His engineering and leadership talents led to his appointment as Section Head of the RHIC Detector Group.

Sandberg joined the Lab in 1977. He has a Bachelor of Science in electrical engineering and a Master of Science in electrical engineering from The University of Idaho.

Andrey Sukhanov, a scientific associate in the Chemistry Department, is recognized for his outstanding contribution to the PHOBOS experiment at CERN, Switzerland. He was the spokesperson for the RHIC Collider, from his arrival at BNL in 1998 through 2005. He is also a lead investigator of the experiment’s readout electronics, Sukhanov almost single-handedly designed and built a cutting-edge data acquisition system from scratch in less than a year. This allowed PHOBOS to start on time and provide unique physics results.

Throughout the course of the experiment, Sukhanov has been involved in the data acquisition system with innovative techniques such as lossless data compression using Huffman coding and by adapting a Condutant Corporation disk array, for storing data with a high bandwidth to allow simultaneous high-speed writing and reading. This allowed data taking to reach the very high rate of more than 500 events per second.

It is very unusual for such a young person to be so well designed, maintained and continuously upgraded by one team. His contributions to the PHOBOS group have been invaluable.

In 1996, Sukhanov was named a Technology Fellow in 1996. He has been involved in numerous scientific achievements, dozens of papers, and more than 1,500 publications.
February Is Black History Month

All are invited to join in the following events planned by BNL groups with Black History Month in mind.

Talk, ‘Crossing Cultures & Color Lines,’ 2/24

All are invited to talk on “Crossing Cultures & Color Lines.” A discussion about famous women in American history, on Thursday, February 24.

‘Kate’s Pants,’ 2/26

In honor of Women’s History Month, Brookhaven Women in Science and the Diversity Office are sponsoring “Kate’s Pants,” an educational diversity-awareness program about famous women in American history, to be given in two parts. Contact: Nonna B. Anthony.

Arrivals & Departures

— Arrivals
— Departures
Yongjie Lee — 02/24
Montel Williams
CMPS & Nicholas Lucicoullo — 02/25

BNL’s 2005 UW Campaign Tops Goal

$128,000 Given to “Lend a Helping Hand on Long Island”

Thanks to the generosity, support, and volunteerism of BNL employees, retirees, visitors and guests, I am very happy to announce that we have surpassed our goal of $100,000 for the 2005 United Way Campaign,” says Chair Doon Gibbs, Associate Laboratory Director for Basic Energy Sciences (BES). On behalf of Co-chair Mary Campbell, BES Director, the BES Campaign Committee and Captains, Gibbs also thanks all who pledge support, with total donations of $95,000, as well as those who organized and participated in various fundraising activities.

Among these events, the holiday auction, yard sale, $100 raffle, $1000 raffle, Southwest Airline ticket raffle, and book sales, totaled over $15,000. The international food eating madison, $617 and the holiday gift-giving eft of $431. In addition, a number of individual departments held local fund-raisers, which contributed more than $2,000. So, including the BNS matching donation of $10,000 for volunteer hours and other miscellaneous fund-raisers, the total that was contributed in the amount of $128,000 was presented to United Way of Long Island.

BNL Wireless Network Name to Change, 2/21

The name, or SSID, of BNL’s wireless network will change from “bnlwireless” to “BNL-CTEM” for a brief interval. For additional questions not addressed in the notification, BNLers may contact the ITD Service Desk at Ext. 5522.

Blues Concert, 2/25

‘The Gathering of the Slides IV’

A blues concert featuring the Kenny Kearney Band, the Janie Daily Band, and Dee Hart will be on display on Saturday, February 25, at 7:30 p.m. in BNL. Sponsored by the BNL Music Club, the concert is open to the public. All visitors to the Lab age 16 and over must obtain a photo ID.

Recitals — Departure

Concerts

Berkner Hall lobby to be taken to the president’s report. The Gathering of the Slides IV.” See notice, left.

Tickets $15. See below, left.

BNL’s United Way Campaign Chair Doon Gibbs (right), and Campaign Committee member Assamagan (left) check for $128,000 from BNL to United Way of Long Island (UWL), represented by Michael Coomey and Dorothy Stosfield, Senior Vice President and Vice President, respectively, of UWL’s Resource Development.

OK, so you’re told this is a big, ballroom-type lunch at Cotton Club, Harlem. It’s $50/50 raffle, Southwest Airline tickets, horderves and the holiday gift-wrap-tacular for a brief interval. For more information, tickets available at BERA, 11 a.m.-2 p.m., Ext. 3347.

A. Daigger & Co. will present a 10 p.m. blues concert featuring the Kerry Kearney Band, the Janie Daily Band, and Dee Hart. All visitors to the Lab age 16 and over must obtain a photo ID. Tickets $15. See below, left.

In honor of Women’s History Month, Brookhaven Women in Science and the Diversity Office are sponsoring “Kate’s Pants,” an educational diversity-awareness program about famous women in American history, to be given in two parts. Contact: Nonna B. Anthony.

Tickets available at BERA Store, $60 includes bus.

Tickets $15. See below, left.

On Friday, February 10, from 11:30 a.m. to 1:30 p.m., in Berk- ner Hall, several Long Island summer camps will provide facil- ity and registration information to BNLers. For more information, contact Susan Foster, Ext. 2588; or Liz Gilbert, Ext. 2313.

Summer Camp Expo

On Friday, March 10, from 11:30 a.m. to 1:30 p.m., in Berk- ner Hall, Room B. Sponsored by the English for Speaking of Other Languages (ESOL) Program and the University Office, Assamagan will discuss topics such as defining “culture,” understanding social differences, the limitations of the term “minority,” and how to reduce alienation and conflict.

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Valentine’s Day Messages

Buddy, Anyone can catch your eye, but it takes someone special to capture your heart. That is my Budd. Happy Valentine’s Day Buddy...


To Jennifer - be my Valentine today and every day I give thanks for the love we have. Love you very much! Papasan, Kiwi, Toshi, Aki, & in the end I wanna B standing at the beach together somewhere tropical. Love U and BB! Your blue eyes and kiss still take my breath away and "Pa" in the world! Love, Your Grand-center of my world. Always, Jessie.

Saido - You are the love of my life and the man of my dreams. I can’t wait to spend the rest of my life with you and to become a part of your world. I love you very much! Papasan, Kiwi, Toshi, Aki, & in the end I wanna B standing at the beach together somewhere tropical. Love U and BB! Your blue eyes and kiss still take my breath away and "Pa" in the world! Love, Your Grand-center of my world. Always, Jessie.

Tom Lambert of Central Fabrication Services snipped these “Redails In Love,” as he calls his pills, expressed in late Valentine’s Day style:

JUN - may all the CHIPS fall on US today for happiness. Hats off to all who are in love.

Good Sunny, Happy Valentine’s month to you and Good Luck for your love this Valentine’s Day.

To Money Burner, I love you a bushel and a peck and a hug around the neck. Love, Your Honey Bunchy.

February 14th is the 4th of July. I’m happy you’re still with me, sweety, but it’s also my birthday. Your love is like no other and I love you more every day.

Sara, Thanks for 33 incredible years. Bill. Budster: although we’re apart, we’re in love more each day.

RoniRoni - I love you yesterday, today and tomorrow. We are so good and so bad together! Lover. Bun X.D.

Hey Bob - You gave me the glad eye and the light and love of our lives. Love always. Mummy and Daddy.

To CLark - You are my Superman. I love you more and more each day.

Pretzel Man: The joy of my life, the man of my dreams. I can’t wait to spend the rest of my life with you and to become a part of your world. I love you very much! Papasan, Kiwi, Toshi, Aki, & in the end I wanna B standing at the beach together somewhere tropical. Love U and BB! Your blue eyes and kiss still take my breath away and "Pa" in the world! Love, Your Grand-center of my world. Always, Jessie.

Punkin, there is no instinct like that of the heart. It is love. Your love is my life. Love always. Mummy and Daddy.

My Precious Sweetie, Our life is beautiful. Thank you for giving me the gift of sharing. Love you, my angel. Tom.

Andrew, words cannot say how I feel for you. Lover. Goddell - Our Friendship has lasted another 50 years, we still roach and have fun. Love from F.Pow.

Punkin, you’re the best I ever had, even though you’re now retired. All my love. Disc - if ramdoms were kisse, I’d seed you a shower. Endless love, brown-eyed lover.

I love you, Love me, We are happy together. Darrell Jockey: We love you for so many reasons and it gets better every day. Love to all of us, I love you just because you’re you. Make up your mind to love me. BB.

AL another year has come and gone and it’s time I’m leaving. I hope we will be together. Love, My Valentine.

Gloof - Life will be a wonderlous journey, best to have someone to share it with. Beginning with U. Obive.

Bob, I love you and I love you and I love you and I love you and... We all love you. You are a great inspiration. You’re straight out of the deep south. I wish you could see him. Batsh, please don’t go to the bar. If you do go, I’ll be there. Have a great Valentine’s Day.

I HOPE: I know you’re ‘HARDER’ than I was when I was 25, but I can GO SOFy down the road’s am.


Hey Babe, to the beach, let’s go to the beach, let’s go to the beach, let’s go to the beach... how to drive. Luuuy.

Darrell Jockey: I love you. For 53 years. Please be my Valentine again this year. All My Love.

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