Superconducting Magnet Researchers Develop Exciting New HTS Technology
Promising breakthroughs toward a muon collider, more

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"We are very grateful to Horizon Lines for giving us the opportunity to install our research equipment aboard the Horizon Spirit," said Lewis. "We approached Horizon about working together on this project with the idea that our equipment could be installed on the ship with no disruption of their ordinary operations." Horizon Lines is happy to cooperate in the year-long MAGIC project to improve climate modeling," said Lewis. "We are excited by the AMF2 sensors and the infrastructure that supports them on the Horizon Spirit. This represents the culmination of four years of hard work in designing, building, and preparing to deploy aboard an ocean going vessel," said AMF2 Technical Operations Manager Michael Ritsema, an atmospheric scientist at ANL.

MAGIC Lab Launches to Study Clouds Effects on Weather, Climate

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### SBU Student Yixiong Yang Wins Mow Shiah Lin Scholarship

At the scholarship presentation ceremony were: (front, from left) Asian Pacific American Association scholarship committee members Hui-Ah Chung, Susan Wong, Maria-Grace Weiss, and Virir Yee; scholarship awardee Yixiong Yang; spouse of the late Mow Shiah Lin Beth Y. Lin; and Lin family members Samantha Lin Alvarezo, Lee Alvarezo, and Josephine Alvarezo; (back from left) Robert Alvarezano, Yang’s BNL advisor Ping Liu, and Yang’s BNL/Stony Brook University advisor, Michael White. (Photo: Ila Campbell)

Yixiong Yang, a graduate student at Stony Brook University has been chosen as the eighth annual Mow Shiah Lin Scholarship. The scholarship, which is sponsored by the Asian Pacific American Association at Stony Brook, consists of $1,800 and a plaque, honors the distinguished late BNL scientist for whom it was named.

Yang’s studies focus on the catalytic conversion of renewables through the hydrogenation of carbon dioxide into useful energy. His research on renewable energy has been the subject of interest to many high-profile institutions.

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<th>Calendar of Events</th>
<th>Description</th>
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<tr>
<td><strong>The Atomic Bombs President Truman Did Not Drop</strong></td>
<td>By Michael Devine, Director, Harry S. Truman Presidential Library</td>
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### Green Card Lottery

BNL’s Office of International Services is announcing the release of a new U.S. Department of State’s Diversity Visa Lottery program to all foreign nationals. The interested members of the BNL community are invited to participate in this program.

**PRIZES**

- **1st Prize:** A green card for two persons who marry.
- **2nd Prize:** A green card for a single person.

**Magna from p. 1**

The Magnet Division has also been working on a muon collider for the past nine months preparing the deployment has spent the past nine months preparing the instruments and optimizing their performance for shipboard data collection.

**SBU Student Yixiong Yang Wins Mow Shiah Lin Scholarship**

- **Liz Seubert**

Another major R&D effort is to protect HTS coils from permanent damage in the event of a “quench,” or a sudden loss of their superconducting properties. “Prash Joshi has developed new fast electronics that detect a quench and quickly limit current to prevent the coil against the large background noise and large inductive volt-ages. In this manner, fast development has so far proven to give enough warning to shut down the coil and prevent the coil to extract the stored energy, but significant work still remains for large systems.”

### Magnetic Energy Storage

Another significant project for the group is the design, construction, and testing of a large, high energy density Superconducting Magnetic Energy Storage (SMES) system. In this project, the Mag- net Division is working with scientists in the Condensed Matter Physics and Materials Science Department to develop SMES technology in partnership with industry. If, in successful, we can create a SMES system with energy density considerably greater than has been previously possible.

- **Karen McNulty Walsh**

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For more information, see the September 21 Bulletin or contact Leesa Allen at (631) 344-2700.
Beyond Out-of-the-Box

The Cabinet Shop designs, builds, and modifies custom furniture and fixtures at BNL.

If you’ve shopped at the Swedes Home Store or built entire kitchens, display cases, desks, and cabinets or screens and automatic external doors, you’re very skilled craft and trade workers who can help.

Three craft workers make up Brookhaven’s Cabinet Shop: James Giacalone, Kent Heckman, and Chris Frosina — in their workshop.

Thinking of Calling in the Cabinet Shop?

Prototypes, shipping crates, kitchens, desks — if you work in one of the Lab’s science directorates and think there’s a way the Cabinet Shop could help you, contact the space manager (for BNL facilities) or the Cabinet Shop directly. ROCO and IFM programs — Management (IFM) programs — and BERA (Brookhaven Employees Retirees Association) projects are not included. Members of Brookhaven Lab’s Cabinet Shop — from left, Andrew Fox, James Giacalone, Kent Heckman, and Chris Frosina — in their workshop.

No BSA Noon Recital, 10/17

Amphion String Quartet

To Perform at Brookhaven

Hailed for its “gripping intensity” and “suspenseful and virtuoso playing” by San Francisco Classical Voice, the Amphion String Quartet was selected as a winner of the 2011 Concert Artists Guild auditions. Their world premiere concert appearance on Wednesday, October 17, at noon in Berkner Hall. Sponsored by the Brookhaven National Laboratory’s Arts Association, the concert is free and open to the public. All visitors to the Lab and older must bring a photo ID.

The Amphion String Quartet was recently appointed to a three-year residence at Lincoln Center’s Chamber Music Society Two (CMS). This appointment affords the young members of this quartet three full seasons of participation in every facet of CMS activity: performances on all stages during the New York concert season, international and national tour appearances, recordings on both the in-house CMS Studio Recordings label and the CMS Live! digital download series, concert broadcasts on the national radio series Performance Today from American Public Media, and Live From Lincoln Center television broadcasts.

The Quartet was awarded first prize in the Pino and String category as well as the Audience Choice Award at the 2010 Flow- man Chamber Music Competition held in Columbia, Missouri. Additionally, the Quartet received the first prize at the Hugo Kauder String Quartet Competition in New Haven, CT. Highlights of the 2011-2012 season included an appearance at the Schneider Concert Series in New York City, a world premiere of the Quartet by John Sibelius in New Jersey, as well as performances at the Met-ropolitan Museum of Art and the Tertulia Chamber Music series.

For the concert at BNL, the Quartet will perform Hugo Wolf’s “Lieder aus Italien” and “Intimate Letters” quartet, and Mendelssohn’s Quartet No. 3.

— Jane Koropak

In Memoriam

Harry Kimmerling, who joined the Central Solids Divi- sion on April 23, 1979, as an experimental machinist, and retired on December 30, 1992, as a tool & instrument maker, died on September 2, 2012. He was 69.

Gerard Blackford, who came to the Lab in the Direct- orate as a budget analyst on October 6, 1969, and retired from the Budget Office on April 28, 2000, as a budget adminis- trator, died on September 1, 2012. He was 76.

Peter Fish, who joined the Engineering Division on May 16, 1977, as a carpenter, and retired as a carpentry su- pervisor on December 31, 1996, died on August 27, 2012. He was 76.

Sheila Land, who became a custodian in the Plant Engi- neering Division on July 23, 1984, and retired from the Pro- ject & Property Management and construc- tion Division as a stores clerk on February 22, 2008, died at age 82 on August 26, 2012.

Manny Hillman, who spent three months as a chemistry research assistant at the Lab from June 20, 1951, then joined the Department of Nuclear En- ergy as an associate chemist on December 1, 1959, died on August 24, 2012, at the age of 83. He was granted a concessional pension in 1967, and retired from the Department of Applied Science as a chemist on January 31, 1989.

Mary Dohrmann, who joined the Health Physics Division on July 1, 1948, as a technical assistant, and retired on July 27, 1984, as a senior technician, died on August 26, 2012. She was 90.

Edward Woessner, who joined the Plant Engineering Division on February 19, 1968, as a refrigeration and air condi- tioner engineer, died on August 15, 2012, at age 73. He had retired on May 9, 1999.

Arrivals & Departures

Arms —
Hyun You Kim — CFN
Wenyun Liu — CFN
Andra Nomenotski — Physics
Wenchao Qu — Biosciences
Huidong Zhang — CFN
— Departures
Krasimira Alexieva-Belova — Biology
Simon Edmonds — C-AD
Jasmine Hatcher — Chemistry
Maryann Julian — NST
Chamina Kodziukhova — CFN
— Photon Scis
Gyanendra Kumar — Biology
Jayalatha Lahiri — CFN
Yung-Hui Li — Physics
Lawrence Marquiles — Photon Scis
John Nagy — Env Sci
William Nettles — Env Sci
Kensuke Okada — Physics
Barbara Panessa-Warren — C-AD
— ND
Sud Evgene Tocch — CFN
Yuzen Shon — Photon Scis
S. David Smith — Medical
Diana Torres Rangel — CFN
Mark Wahler — ITR

Calendar

October 5, 2012

Adopt-A-Paladin Mum Sale
4 p.m. Berkner Hall, Michael J. Devine, Director, Harry S. Trum- man Presidential Library. will talk on "The Atomic John- son Presidential Trump Did Not Drop." Sponsored by Brookhaven Science Associates. This free lecture is open to the public. Visitors to the Lab between 16 and older must carry ID.

Tuesday, 10/9

Brookhaven Muggle moisture
4 p.m. Berkner Hall, Michael J. Devine, Director, Harry S. Trum- man Presidential Library. will talk on "The Atomic John- son Presidential Trump Did Not Drop." Sponsored by Brookhaven Science Associates. This free lecture is open to the public. Visitors to the Lab between 16 and older must carry ID.

Wednesday, 10/10

HEALTHFest: 400-Yard Swim
3 p.m. Bldg. Hall, Website below.

Thursday, 10/11

Talk on “Creating Safety Cultures”
10 a.m. Berkner Hall, Bldg. 555. All invited to this talk on “Creating Safety Cul- tures in Academic Institutions,” Robert H. Bagnell, and Chair of ACS Committee on Chemical Health.

HEALTHFest: Fair
11 a.m.-1:30 p.m. Berkner Hall, Free to the public, No ID.

Friday, 10/12

HEALTHFest: 5k Run

Monday, 10/15

HEALTHFest: BERA Free Trial Classes and Fitness Clinics
Wednesday, 10/17

O Source Inc. Industrial Suppliers
11 a.m.-3 p.m. Berkner Hall, Representatives of qual- ity product brands, e.g., Brady, Matsui, and industrial equip- ment and production, electronic, power supply and Laboratory tools, etc. Contact logo@prosourceinc.com or pso-衒@prosourceinc.com.

*EAP Luncheon talk

*HEALTHFest: Athens Art Show
Noon. Berkner Hall. See left.

BNL Art & Crafts Wanted for Fall Show, 11/19-21

BNL artists, photographers, sculptors, and crafters — your most beautiful work is needed for the BNL Art Society’s up- coming Art and Crafts Show. Scheduled for the entire month of October. Be sure to contact your facility Arts manager or the BNL Art Society, the BNL Camera Club, and the BNL Crafts Club, to be held at Berkner Hall, Monday, November 19—21, 11:45 a.m.—1:30 p.m. — BNL employees, Retirees, fac- ility users, guests of BNL, and family members 15 years and older; all are welcome. All contributions (up to three pieces). Deliver exhibits for the show to Berkner Hall, 2 to 4 p.m. Monday, Novem- ber 16, and collect them on Wednesday, November 21, 3:30 to 4:30 p.m. Contact Joe Cot- tler, Bldg. 400C, or e-mail the information to healthfest@bnl.gov. All invited to this event, Monday, November 5.

Brookhaven National Laboratory

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Catch Up on BERA Trips, Events

Tickets for these trips are now on sale at the BERA Store, Berkner Hall, open Monday through Friday from 9 a.m. to 3 p.m.

Culinary Institute Of American & Bocuse House:
Mon., 11/12 (Holiday Monday) Dep. BNL 8:30 a.m.; gourmet lunch inc., tour Bocuse, AI BNL about 7 p.m. $60/person.

BERA Holiday Party: Fri., 12/7, $60/person full buffet, bar, DJ, at Hotel Indigo, Riverhead. Speed night for $72 with full buffet.

Radio City Christmas Spectac.: Sun., 12/9, dep. Lab 10 a.m., midtown 7 p.m./$10/person, under free on lap.

NY: Nets: At new Brooklyn facil vs. Houston Rockets on 2/22, $40/person, $10 off with BNL, $75/person, and vs. Dallas, 4/1, 2013, $75/person for 8 p.m. game.

For Rent

POPEY MEYER BEACH, FL — Thanks to the generosity of one of my students, Kathy Popey, her vacation home in Fort Myers Beach will be available for rent the week before Christmas. The house is in a upscale gated commun., sleeps 5-10, kitch, laundry rm, & 4 bedrooms. Full bath, partial kitchen, cable, DvD, WiFi. $350/day; $1900/week, $1900/3 weeks. Please call 516-241-4598 or dmcarthur@bnl.gov.

For Sale

HOLIDAY DECOR & LAWN ORNAMENTS: Pre-lit trees, $50 per set. Lacrosse Re Ornaments, motorized pre-lit deer, small, $10. DM carthur@bnl.gov.

KEYS – 2, found in the road at the intersection of Overseas Hwy. 516-241-4598 or dmcarthur@bnl.gov.

CHAINSAW REPAIR – cracked primer or other problem, $25, 2295, 764-0360, mimi@corwincorner.com. 516-241-4598 or dmcarthur@bnl.gov.

BOYS BMX BIKE – Looking for a donation for Adopt-a-Platoon so we may send them a bike. Anya, Ext. 347-2295, 764-0360, mimi@corwincorner.com.

Three EAP Talks Ahead

Two EAP Talks Ahead

‘Resolving Conflicts Creatively,’ 10/17
‘Bring Out the Best In Others,’ 11/14

The lab community is invited to attend a talk by Jude Treder-Wolf of Magellan on “Resolving Conflicts Creatively.” Sponsored by the Employee Assistance Program headed by Nancy Losino, the talk will be given at 11:30 am on Wednesday, October 17, in Berkner Hall, Room B. The speaker will address topics such as increasing your “emotional intelligence” on the job and how to help your skills at getting along with others more effectively.

Treder-Wolf will give another talk in this series on November 14, also in Berkner Hall, Room B. This talk is titled “Bring Out the Best In Others.”

For more information, or to register is required by emailing alvainfo@bnl.gov. You may register for one or both of the talks.

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Lite Seubert, editor
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In Appreciation

Just want to thank all my friends here at BNL for making my 11th year so memorable. Thank you for party and gift. I have been at BNL for 11 years and will cherish the memories and friends I have made along the way. Thank you and I look forward to many more years to come.

Thank you to everyone who attended my retirement party and helped to make it such a special day. I feel so much more at home in Long Island than in the city. My thanks are due to everyone who all and I will miss every one of you — Celeste Tyman

Liz Seubert, editor

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