

BREA NEWS

www.bnl.gov/bera/activities/brea/

Volume 18, Issue 5

September/October 2018

BREA Meetings

BREA meetings are held on the second Tuesday of every month (except for August), at 1 p.m. in one of the conference rooms in Bldg. 400 (except where noted).

All BREA members are invited to attend and participate.

Meeting Schedule

September 11, 2018

October 9, 2018

November 13, 2018

BREA Officers

President

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shapiro@bnl.gov

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Bob Kinsey
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moodenba@optonline.net

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Lillian Kouchinsky
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* * *

Newsletter Editor

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Contact Ken Mohring to sign up for a garden tour in Riverhead on Tuesday, September 18. Email Ken at kenwadingriver@gmail.com or call him at (631) 929-6744.

From the President

by Steve Shapiro, shapiro@bnl.gov

Dear Fellow BREA Members,

In my last note, I notified you of a BREA visit to LIHREC, commonly known as the Cornell Extension on Sound Avenue in Riverhead. Sign up for a tour of the Long Island Horticultural Research and Extension Center on Tuesday, September 18.

Ken Mohring, a longtime volunteer at LIHREC, is organizing the visit. It will include an introduction by the facility director and tours of the research farm and display gardens. The day's activities will begin at 9:15 a.m. The garden tour will include a variety of garden types and a covered wagon visit to the research farm.

A lot of agricultural activity goes on in late summer and early fall, so this is a fine opportunity to see the research there, answer some of your gardening questions and marvel at the 200 or so dahlia plants that will be in bloom. There is no limit on the overall number of visitors, but the wagon ride can only accommodate 25 people. The tour will end around noon and the Cornell Extension is located near the Riverhead Cider House (<http://riverheadcider.com/>), where you can have lunch and talk about gardening! So, contact Ken at kenwadingriver@gmail.com

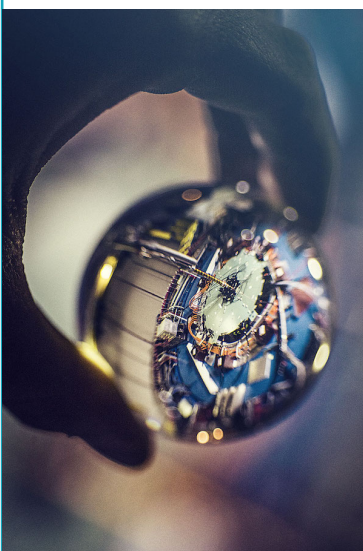
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Talented Photographers Capture the Art of Science at Brookhaven Lab

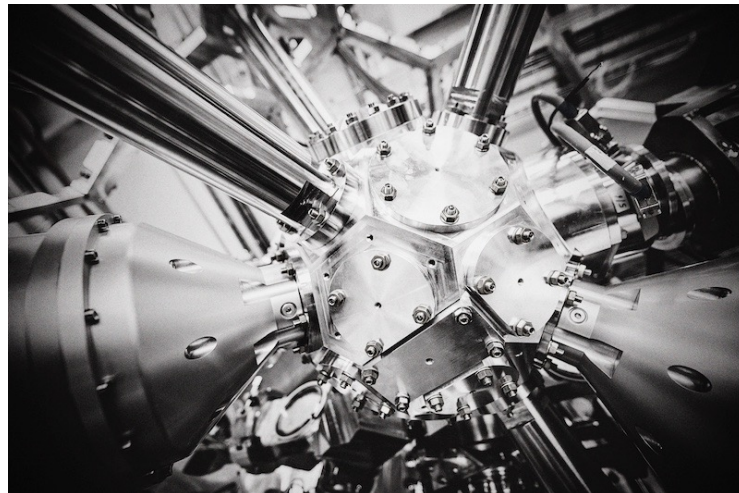
On May 16, 2018, the U.S. Department of Energy's (DOE) Brookhaven National Laboratory hosted 30 amateur and professional photographers for a behind-the-scenes "Photowalk" of the Lab. The photographers were able to explore and photograph major experimental facilities that are not usually accessible to the public, including the STAR detector at the Relativistic Heavy Ion Collider (RHIC)—the only operating particle collider in the U.S. — and the National Synchrotron Light Source II (NSLS-II) — one of the world's most advanced synchrotron light sources. Both are DOE Office of Science User Facilities.

Experiments at RHIC and NSLS-II explore the leading edge of fundamental and applied science. At RHIC, physicists collide gold ions, at nearly the speed of light, to recreate the same matter that filled the universe a millionth of a second after the Big Bang. At NSLS-II, scientists use ultra-bright x-ray light to reveal the chemical makeup of proteins, batteries, superconducting materials, and everything in between. The "Photowalkers" lent their talents to capturing the remarkable design of these experiments, showcasing the facilities in all their scientific glory.

After receiving more than 100 stunning submissions, Lab judges selected 10 winning photos. The top three photos will advance to the global Physics Photowalk competition, run by the Interactions particle physics collaboration, where they will go head-to-head against photographs from 12 of the world's top science facilities.



Finalist: A new perspective of the STAR detector at RHIC, seen through crystal ball refraction photography, by Joe Caggiano.



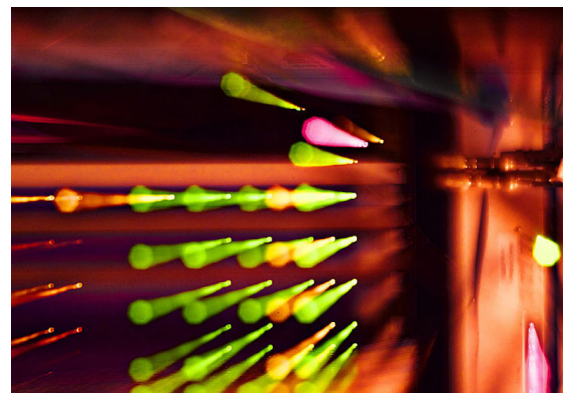
Overall winner of Brookhaven Lab's Photowalk 2018: A close-up shot of the Inner Shell Spectroscopy (ISS) beamline at NSLS-II, by Joe Caggiano.

Congratulations to Brookhaven's overall winner, Joe Caggiano, who captured a striking shot of the Inner-Shell Spectroscopy (ISS) beamline at NSLS-II.

"Getting an exclusive opportunity to make art from science was awesome," Caggiano said. "I loved being a little fly buzzing around every inch of the Lab's high-tech experiments. Every scientist was so excited to talk about their research and how things work. It was quite spectacular to see science and ingenuity happening on such a large scale."

Caggiano is a resident of Manorville, NY, and he has been shooting professionally for about five years.

"Photographing weddings and events, as well as making my own creative art, has really taught me how to think quickly about what approaches I'll take during a shoot," Caggiano said. "When I first saw the ISS beamline, I was baffled by its complex design. I wanted to take super wide and super close shots. It ended up being my favorite part of the Photowalk."



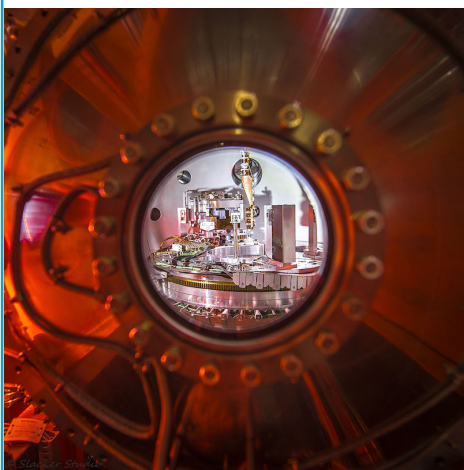
STAR detector at RHIC, by Gisel Florez.

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Caggiano's unique portrait of the STAR detector at RHIC also made the top three winning photos.

Winning photos from Brookhaven's Photowalk showcase top research facilities in new ways

The third photograph being sent on to the global Physics Photowalk competition was captured by Steve Lacker, an avid travel/nature photographer and a physics teacher at Westhampton Beach High School. His photo features an intense view of the Soft Inelastic X-ray Scattering (SIX) beamline at NSLS-II.



Finalist: "X-Ray Eye" by Steve Lacker. Captured at NSLS-II's Soft Inelastic Scattering (SIX) beamline.

"The facility size, precision, complexity, and system articulation is stunning," Lacker said. "It's astounding that such large machines and short wavelengths are essential to see and comprehend the subatomic world."

Five other talented photographers won places in the top 10: Gisel Florez, Philippe Cheng, George DeLucia, Steven Schreiber, and Colleen Kelly. Congratulations to all!



"The Path" by Colleen Kelly. Captured on the experimental floor of NSLS-II.

– Stephanie Kossman, skossman@bnl.gov

See all the winning photos on the Photowalk website: <https://www.bnl.gov/photowalk/winners-2018.php>

President's Message (continued)

or call him at (631) 929-6744 to make a reservation. For directions and more details about the center, check out the website at <https://cuaes.cals.cornell.edu/farms/lihrec/>.

BNL has had some good news this summer.

A study released last month by the National Academy of Sciences (NAS) recommended that the Department of Energy (DOE) proceed with the Electron-Ion Collider (EIC), the next big project for the nuclear physics community: <https://www.bnl.gov/newsroom/news.php?a=112982>. BNL and Thomas Jefferson Laboratory in Virginia have been working together in planning and making the scientific case for this project. If DOE decides to go ahead with this facility it will have to decide whether to locate it at Brookhaven Lab or in Virginia. But the recommendation by NAS is good news for RHIC, Brookhaven's Relativistic Heavy Ion Collider!

There is also some positive news for BNL's budget next year. Although the budget isn't final yet, both the House and Senate have recommended an increase in funding for the DOE Office of Science, which funds most of the laboratory. You can see details at:

<https://www.aip.org/fyi/federal-science-budget-tracker>.

– by Steve Shapiro, shapiro@bnl.gov

Renew BREA Membership

Membership expires on December 31 of every year no matter when you paid your dues (which are requested by January 31 of the following year). To stay on BREA’s mailing list, complete the form below and mail it to me along with your payment. Include your email address so BREA can send you timely information.

If you have questions or if your contact info has changed, email me at hellobylin@yahoo.com.

PLEASE PRINT

Last name: _____ First name: _____ MI: _____

Street: _____ City: _____ Zip+4: _____

Phone: _____ Email: _____

Membership type:

annual (\$10) 5 years (\$40) Life (\$95)

Dues cover year(s) _____

Date: _____ Check amount: _____

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I want to receive BREA News by mail via the U.S. Post Office.

I want to receive BREA News by email only. Do not mail it to me via the U.S. Post Office.

Mail form and check (made out to BREA) to:

Beth Lin, BREA Membership Chair
81 Westchester Drive
Rocky Point, NY 11778

– Beth Lin, Membership Chair
hellobylin@yahoo.com

In Memoriam

We deeply regret to inform you of the passing of the following retiree:

Walter Kane, 91, April 29, 2018

More information may be found at BREA’s website: www.bnl.gov/bera/activities/brea

To post an obituary for a deceased BNL employee or retiree, send information by email to msrowe.hi@gmail.com or by snail mail to BREA’s address in the panel below.

BERA Events Coming Up

Coming up are some fun activities you can do through BERA: theater tickets, football at West Point, LIRR do-as-you-please train trips into New York City, the Bronx Zoo and more!

Check out the BERA calendar online at www.bnl.gov/bera/recreation/trips.asp.

Also, Senior Aqua Fit gets under way soon: 14-weeks on Wednesdays at 9:45 a.m., 9/05–12/12 (no class 11/21), \$100. Advance registration is a must for this program.

For details and to sign up, contact Christine Carter, (631) 344-5090 or ccarter@bnl.gov.

Brookhaven Retired Employees Association

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