BNL Colloquium, 11/16
The JACoW Collaboration:
Accelerator Community’s Open Archive

John Poole of CERN will present the story of the development of JACoW activities and facilities from conception to today

On Tuesday, November 16, John Poole of CERN, Switzerland, will present a talk at 4 p.m. in Berkner Hall on “The JACoW Collaboration: Creator of the Accelerator Community’s Open Archive.”

The Joint Accelerator Conference Website (JACoW) was originally created for the publication of the proceedings of the annual conferences of the Asian, European, and North American Particle Accelerator Conferences. From the early ideas conceived at the beginning of the electronic publication era, JACoW has grown to become a global collaboration serving the international accelerator community.

Poole will describe the development of the collaboration from its small beginnings to its current strong ties to BNL — and explain who and what it is today. JACoW now receives more than the website with its specialized search engine through event organization tools (Scientific Program Management System), automated proceedings production and support for conference organizers — these features will be presented. 

Proceedings production and the reasons for the technical requirements for preparation of JACoW papers will be explained, illustrated by a number of examples. The talk will conclude with a brief look to the future in terms of development of the collaboration and its services and the question of long term archival.

John Poole started work at Daresbury Laboratory in the UK as an accelerator physicist and subsequently came to BNL to work on the Isabelle/CBA accelerator. With the demise of the CBA collider project, he left to go to CERN, where he worked on various accelerators including the Intersecting Storage Rings, the Super Proton Synchrotron, the Large Electron Positron (LEP) Collider, and the Large Hadron Collider. While at CERN, he started electronic publication of the Chamonix LEP Performance Workshops, which led to the publication of EPAC96 on the web and subsequently, the idea of Ilan Ben Zvi of BNL...

See JACoW Collab. on p.2

New Beam Source For BNL Accelerators
Modern, compact ion injector will feed new kinds of particles to RHIC and NSRL

A new source of ions will soon be the starting point for the beam entrance for the two RHIC research facilities at BNL — the Relativistic Heavy Ion Collider (RHIC), where scientists study the effects of space radiation to learn more about the forces that hold matter together, and the NASA Space Radiation Laboratory (NSRL), where scientists study the effects of space radiation to find ways to protect astronauts. The new facility, the Electron Beam Ion Source (EBIS), will produce and accelerate beams with greater versatility than the current system, allowing studies with new kinds of ions previously unavailable to the researchers. EBIS recently received formal approval from DOT to start operations.

EBIS and EBIS 2, a more compact and smaller accelerator as a replacement for the Tandem Van de Graaff accelerators, which have been running successfully for 40 years, may face some limitations when it comes to producing ion beams for RHIC and NSRL, said Jim Aliesi of the Collider Accelerator Department (CAD), leader of the group that designs and operates “pre-injector” accelerator systems at BNL. For example, because the Tandem must start with negatively charged ions, the EBIS can start with positive ions or even neutral atoms, allowing the creation of ion beams from almost any element.

For the RHIC program, physicists are most interested in creating and colliding beams of uranium ions because of their football shape and large number of protons and neutrons. Head-on collisions of two tiny uranium ions positioned like colliding spiraling footballs would produce a speck of matter with even greater energy density than the spherical gold ion collisions currently creating a hot soup of quarks and gluons at RHIC. This higher energy density will allow scientists to study the evolution of the early-universe substance over a wider range of conditions than has been previously accessible at RHIC.

Head-on collisions with the uranium ions oriented vertically, like footballs prepared for a kick-off, are also of great interest: They will permit scientists at RHIC to separate the effects of extremely hot matter formed when two spherical gold ions overlap only partially on impact (forming a similar football-shaped interaction region) from effects of the ultra-strong magnetic fields produced in such non-head-on collisions.

At NSRL, scientists are interested in testing the effects of ions of noble gases like helium, neon, and argon, because these are common components of galactic cosmic rays and could pose a significant risk to astronauts on long-term space missions.

Another major advantage is that EBIS can feed beams of different ions to each facility at practically the same time. Said Aliesi, “We can provide one type of beam to RHIC and, one second later, we can provide a different type of beam to the NASA program. We can switch back and forth between different types of beams quickly, so the two programs can schedule their experiments and run simultaneously, independently of one another, rather than having to use the same kind of ions at the same time or plan their runs sequentially.”

With the gold ion collisions at RHIC, which have used less gold than is found in a single wedding ring over RHIC’s ten years of operations, the amount of uranium used will be extremely small and not pose any radiation risk to either BNL staff or the public. “A handful of soil typically has more naturally occurring uranium than we’ll be using in a year at RHIC,” Aliesi said. Also, EBIS will use the dominant naturally occurring form of uranium, U238, which cannot “split” and sustain a nuclear chain reaction as U235 can.

A cut-away of the EBIS pre-injector. The central “trap” region, where electrons are stripped off atoms to create positively charged ions, is 1.5 meters long.

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A cut-away of the EBIS pre-injector. The central “trap” region, where electrons are stripped off atoms to create positively charged ions, is 1.5 meters long.

EBIS works by trapping atoms or ions in an electrically charging chamber inside a 1.5-meter-long cylindrical superconducting magnet. The voltage holds the charged ions in the chamber by an electrostatic force, which is common components of galactic cosmic rays and could pose a significant risk to astronauts on long-term space missions.

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The Value of Tier 1 Safety Inspections

By Steve Kane, Safety Engineering Group Manager

We don’t want to worry about safety here at BNL. Instead of worrying, we ask that you be aware of your surrounding area and do your work every day. The purpose of our Tier 1 Safety Inspection program is to help you with that and is the overall goal of all Environmental, Safety & Health professionals here at Lab.

A recent video featuring Keith Klaus, Safety Engineer for the Photon Sciences Directorate, demonstrates precisely what a Tier 1 inspection looks like. He explains the program’s approach on work-area doors. He considers the work environment and makes recommendations for maintenance or repair before a problem occurs. He considers the daily work process of the lab space and reminds the viewers to be vigilant.

And that’s the most important lesson. Be vigilant. Its small changes in the work area that go unnoticed can lead to insidious. Dramatic changes are easy to notice and therefore are the most obvious for priority remediation. But normal wear and tear to tools, surfaces, and other objects, or minor changes to a work process, are what we need to watch for most closely and what we need to take care of right away. Don’t keep a list of safety concerns you need to address for a later date. Take care of the issues and concerns now. The result will be a safe and secure environment where you and your colleagues may conduct your work with reduced risk or danger.

Tier 1 Safety Inspections are scheduled for offices and work spaces at different frequencies depending on the type of work conducted. If you have any questions about the schedule of the inspections, please don’t reach out to your ESH&I coordinator or Field Safety Representative today and get the answers.

Learn more about BNL’s Safety & Health Services at http://www.bnl.gov/shs/.

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The Bulletin
October 29, 2010

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Semaphore of the Week: Eighty Speakers Of Other Languages Classics

Bilingual, Hebrew, En. - Alem. - various times, various locations. For more information: Send: Tele. or E-mail: info@borchard.org. Tuesdays & Thursdays:


telephonic

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Watch the Tier 1 Safety Inspection video, filmed by Lab Videographer Alex Reben, on BNL’s Safety Website: http://intranet.bnl.gov/safety

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Beam Source from p. 1 through control, with two linear accelerators that bring the beam up to the energy needed for interaction with the target. Then the booster and then the Alternating Gradient Synchrotron.

The high charge achieved in BNL greatly simplifies the entire accelerator complex. So if you have more charge on the ion, then it gets higher energy for the accelerator. With the same voltage in the accelerator.

Tandems — resulting in a more efficient beam. It has more charge on the ion, so that it gets higher energy for the accelerator, up to the energy needed for interaction with the target. Meanwhile, and this fall. The first uranium collection was held this fall.

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A Special Moment
With a Lab at the Lab

Daisy Yuhas, an intern working in the Community, Education, Government, & Public Affairs Directorate, enjoyed a special moment with a yellow Labrador retriever, just one of the puppies-in-training from the Smithtown Guide Dog Foundation (GDF), when the puppies visited the Lab on October 8 as part of a training exercise.

“There were so many dogs — poodles, black labs, yellow labs, and a German shepherd,” said Yuhas. “It was hard to decide which one to hug first!”

With logistical help from David Peter and Brian Buckheit of the Lab’s Protection Division, employees of the GDF, BRL, and Brookhaven National Laboratory (BNL) volunteers provided driver and handler training for the puppies, along with volunteers.

Exhibits Needed: BNL Art/Crafts Show, 11/22

BNL artists, photographers, sculptors, and crafters — exhibits are needed for the Art Society’s show in Berkner Hall, Room B8, 11/8-11/24, 11:45 a.m.-1:30 p.m. Employees, retirees, faculty users, guests, and family members 15 years and older may contribute up to three pieces. Pictures and photos must be fully ready to hang. Bring exhibits to Room C, Berkner Hall, on Friday, 11/19, 2-4:30 p.m. To register, send your name, home phone, Lab Ext., BNL contact name, the type of your art/craft, and give its title if you have one, to Bob Chrien, chrienw@bnl.gov or Bldg. 510A, or to Liz Seubert, Bldg. 400, lseubert@bnl.gov, by Monday, November 8.

BERA Trips

Bay tickets at the BERA Store in Berkner Hall, weekdays, 9 a.m.-4 p.m. Tickets are not-refundable. For more information, see http://www.bnl.gov/bera/recreation/events.asp

Christmas Spectacular at Radio City: Sun., Dec. 5. Leave BNL at 9:30 a.m., and leave after show at about 4 p.m. $80 per person* includes bus, ticket, and about three hours to do as you please.

BERA Holiday Party: Fri., Dec. 10, at Rock Hill Country Club in Manorville. Tickets are $55 each and include a full open bar, dinner buffet, DJ dancing, and door prizes. Dress up and meet your friends there for a fun evening.

NYC Do-As-You-Please Tour: Sunday, December 12. The drop-off and pickup loops will be in the Bryant Park area, between 48th and 42nd Streets and 5th and 6th Avenues. Leave BNL at 11 a.m., and leave NYC at 7 p.m. $15 per person*, adult or child.

*Children under age 2 go free if they sit on a parent’s lap.

BSA Noon Recital, 11/3
Pianist Vassily Primakov

BSA invites you to enjoy the music performed by pianist Vassily Primakov, who will play a selection of works including Chopin and Ravel. The recital will take place in the Hamilton Seminar Room, Chemistry, Bldg. 555. At the meeting, BNL’s Mark Tozzo will provide a project overview and answer questions.

Calendar

**WEEK OF 11/1**

Monday, 11/1

*DEFENSE Driving, Part I* 6-9:15 p.m. Brookhaven Center South South Room. Pre-registration required. See p.2.

Wednesday, 11/3

*BSA Noon Recital* Noon, Berkner Hall. See left.

Thursday, 11/4

*DEFENSE Driving, Part II* 6-9:15 p.m. Brookhaven Center South South Room. Pre-registration required. See p.2.

Friday, 11/5

*Brown Bag Lunch on Solar Farm* Noon-1 p.m. Hamilton Room, Bldg. 555. All are welcome. See notice below, left.

**WEEK OF 11/8**

Friday, 11/12

BrookhavenSpherE/TD Seminar 11 a.m. Conference Room, Bldg. 490, Victor Skomor, Binghamton University, will talk on "Emulation of Active Immune Response in a Computer Network - STSNET, a virus, will also be discussed. All are welcome. For more information, see https://brookhavensphere.bnl.gov/wiki/index.php/

**WEEK OF 11/15**

Tuesday, 11/16

*Voyage: Northwest Passage* Noon. Berkner Hall. Retiree Eric Forstny will show a video of his 11-month cruise through the Northwest Passage and beyond. All are welcome. See p.4.

*BRL Colloquium on JACoW* 4 p.m. Berkner Hall. John Poole of CERN, Switzerland, will talk on "The JACoW Collaboration: Creator of the Accelerator Community’s Open Archive." All are welcome. See story, p.1.

Wednesday, 11/17

*BSA Noon Recital* Noon. Berkner Hall. Stony Brook Opera will perform opera scenes. This free event is open to BRL employees and the public. Visit on “The JACoW Collaboration: Creator of the Accelerator Community’s Open Archive.” All are welcome. See story, p.1.

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BSA Noon Recital

Pianist Vassily Primakov will perform works by Chopin and Ravel at noon on Wednesday, November 3, at noon in Berkner Hall. Sponsored by BSA, the concert is free and open to the public. Visitors to the Lab of 16 and older must bring photo ID.

Keyboard virtuoso Primakov came to New York at 17 to pursue studies at the Juilliard School. There, he won the William Petesch Piano Recital Award, presenting his debut recital at Alice Tully Hall. He won both the Silver Medal and the Audience Prize in the 2002 Gina Bachauer International Artists Piano Competition, and also won First Prize in the 2002 Young Concert Artists International Auditions. In 2007, he was the Classical Recording Foundation’s “Young Artist of the Year,” and in 2009, his Chopin Mazurka CD was named “Best of the Year” by National Public Radio.

— Jane K根本就不知道

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Access Restrictions for Solar Farm Construction

BP Solar and its contractors will soon begin construction of the 200-acre Long Island Solar Farm on BNL. This exciting new project — the largest of its kind in the Northeast — will bring Long Islanders a significant source of renewable energy and provide the Lab with unique opportunities for research. However, during construction, a large portion of the southeast part of the site is closed off to the former Bioloxy Field area. This area will be under control of BP Solar and its contractors and, as with any construction area, will be off-limits to all employees who are not authorized by DOE or BP Solar to be there. As a quick guide:

- S. of Princeton Avenue and along the S. Boundary Road: open
- S. of the ball fields to E. Princeton Avenue: closed
- Brookhaven Avenue E. of the former Waste Management Area: closed
- E. Fifth Avenue E. of First Street: closed
- E. Fire Break S. of E. Fifth Avenue: closed
- Gate at North Street: This is BP Solar’s construction entrance and may not be used by BNL employees.
- Firebreak road between S. Sewage Treatment Path and E. Fifth Avenue will be blocked off at E. Fifth Avenue.

See map below.

After construction is complete next year, Princeton Avenue, South Boundary Road, the East Fire Break, Brookhaven Avenue to South Boundary Road, Prince Path, and East Fifth Avenue will all be re-opened for general use. Each of the six units of the Long Island Solar Farm will be independently fenced for safety and security reasons. For more details, see the Monday Memo of October 25.

Brown Bag Lunch About Solar Farm, 11/5

BNL employees who are interested in learning more about the project are invited to a brown bag lunch meeting on Friday, November 5, from noon to 1 p.m., in the Hamilton Seminar Room, Chemistry, Bldg. 555. At the meeting, BNL’s Mark Toscano will provide a project overview and answer questions.
PHOTO GALLERY - See a visual presentation of the various areas of the BNL campus. Highlights include facilities, open houses, and special events. The on-site service station, under new management, is well equipped to handle your needs. To participate in Driver OPs opportunities, a current & valid Driver's License is required.

BHMA Safety Week - The Driver's responsibility is to ensure safety for themselves and fellow employees, facility users, and retirees of the Laboratory, its guests, and the community. I will pick up from your ofc. Hands free, like new, $10. Ext. 7114.

PORT UNDERWATER - Channel Diam. 54 in., w/pedestal, cntr leg. Ext to 10 x 3552 or epetersen@bnl.gov.


FOUND RING – found Texas A&M class ring. $250. Pamela, Ext. 5218 or unsharps@bnl.gov.

CLOTHES RACK – in chrome w/beige handles. 12x15x10. $50. Joe, Ext. 4475 or plate@bnl.gov.

BED – double, excellent condition, photo avail. Ext. 4888, w/4 drawers - two inside, two outside. 38"w x 80"l x 54"h. vg condition $20 all. 645-1349.

1/2" TUBING – long piece, 115 ft, $10. Ext. 5379. New long coil b-glass. M And S, 347-4843 or zsanchez@bnl.gov.

Diamonds 54 in., w/pedestal, cntr leg. Ext to 10x3552 or epetersen@bnl.gov.

OAK DINING TABLE – antique, ca. 1920. Used 2 yrs, vg gd cond, w/cover. $w/ or w/ out base. Ext. 3083, 3387.


Tires: 235/60/17, $10 each. Ext. 8091 or fiash@bnl.gov.

BED – double, excellent condition, photo avail. Ext. 4888, w/4 drawers - two inside, two outside. 38"w x 80"l x 54"h. vg condition $20 all. 645-1349.

Extension of Dependent Medical Plan Coverage to Age 26

Many people do not know that they can consider for children under the BSA Medical Plan will change on January 1, 2011 under the Patient Protection and Affordable Care Act (commonly known as National Healthcare Reform). Beginning January 1, you will be able to enroll your children (up to age 26) whose coverage ended (or were not eligible for coverage) due to the limitations on age.

MANY children do not have to receive, you do not need to be in school, can have medical coverage through their emp-

FURNITURE & Appliances

APMORRE - Gt cond. Med. wood, fresh finish. dresser, 55"x24.75x16.75. $125. Ext. 8178 or arponinsky@bnl.gov.

CLOTHES RACK – in chrome w/beige handles. 12x15x10. $50. Joe, Ext. 4475 or plate@bnl.gov.

CROCK POT – slow cooker, 7qt, $20. Ext. 4034 or k                                                              

700. (718) 248-9118.

For Sale

Dance Shoes – Girl’s black hip hop, sz. 6, $15. Ext. 4034 or k

DANCE SHOES – Girls black hip hop sz. 6, $15. Ext. 4034 or k

DONATIONS OF DOG/CAT FOOD – collected for local soup kitchen. Items needed: canned food baskets and $$ to provide families a THANKSGIVING BASKET PROGRAM – hosted by Habitat for a Hand in Living. I will pick up from your ofc. $50 for each box. Ext. 7114.

TICKET TO MAGNET – hard copy, unused. $65. Ext. 3387.

A calendar listing scientific and technical events is available on request, asking $300. 744-4847.

LADDER RACK – Hvy dty for 6’6” short person, 35x68x13. $50. Ex. 3387.

Doors to be opened to the community. I will pick up from your ofc. Hands free, like new, $10. Ext. 7114.


Audio, Video & Computers

CD TV LCD – image, 5 oz. office, cord. $50. Ext. 5383, 352-7041.

Nokia cell phone, 2006 model (Model 6131). (110v) $10. Also available, used 2 yrs, $50. Ext. 5379, w/acc.

OAK HALL TREE – excellent cond, pics avail. Ext. 3021, 3387.

TRAVEL TRAILER (Rv) – w/bed & kitchen, toll $2,500. Ext. 8363.

POLYURETHANE BENCH – Channel Diam 54 in, w/pedestal, cntr leg. Ext to 10 x 3552, or epetersen@bnl.gov.

To participate in Driver OPs opportunities, a current & valid Driver’s License is required.

On Tuesday, November 16, at noon in Berkimer Hall, retiree Bob Brown will be your natural leader, depicting his 11-month cruise in his yacht, Fiona. You took him from Long Island to Greenland, the Northwest Pas-

DOESNOT DEPEND ON THE ORDER OF THE ITEMS, JUST THEIR EXISTENCE, TO GROUND THE ENTIRE DISCOURSE.

LADDER RACK – Hvy dty for 6’6” short person, 35x68x13. $50. Ext. 3387.

Finding a job through the Windward Passage, thus completing a circumnavigation of North America that would otherwise end under the terms of the plan. For more information, go to the Benefits website or contact the Benefits Office at Ext. 5126 or 2877.


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