

Brookhaven Lab's Actions In Response to Peer Review

By Sam Aronson,
Brookhaven National
Laboratory Director

The Lab leadership team continues to focus on the findings of the Brookhaven Science Associates Peer Review and the actions we're taking or plan to take in response to them. As I mentioned in the August 20 Monday Memo, the peer review team gave us specific suggestions meant to help us get our operations back on the right track. We've made a good deal of progress as a team in developing a response plan that incorporates those



suggestions and sets a path forward for the Laboratory. Some of the immediate actions we're taking are outlined below.

In response to the peer review findings, the Lab's leadership

team has committed to:

- Increasing its engagement with workers at all levels
- Improving the timeliness and transparency of its decisions
- Ensuring employee input is part of decision-making processes
- Communicating these decisions to employees.

See *Director's Msg.* on p. 2

U.S. Collaborators to Make Higgs-hunting Tech Available

Key data software used to discover the Higgs particle will be applied to research in medicine, astrophysics, and more

The University of Texas at Arlington issued this news release on Friday, Sept. 7. Scientists from Brookhaven Lab played key roles in both the search for the Higgs boson and the development of the associated technology.

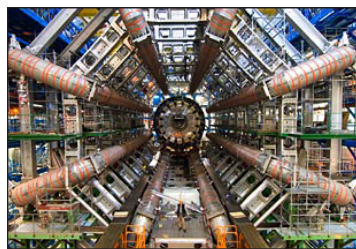
The University of Texas at Arlington is teaming with BNL and Argonne National Laboratory to develop a universal version of PanDA, a workload management system built to process huge volumes of data from experiments at the Large Hadron Collider in Geneva, Switzerland.

The new project will bolster science and engineering research that relies on "big data," a priority recently promoted by the White House. DOE's Office of Advanced Scientific Computing Research has awarded a combined \$1.7 million to Brookhaven and UT Arlington to fund the PanDA work over the next three years.

"PanDA has been an extremely useful piece of software. We could not have found the Higgs without it," said Kaushik De, a physics professor and director of UT Arlington's Center of Excellence for High Energy Physics. "It's been used by thousands of physicists around the world. We thought, 'Wouldn't it be nice if we repackaged it so others could use it too?' So, we proposed generalizing PanDA as a meta-application."

UT Arlington and Brookhaven developed PanDA for use by the ATLAS collaboration, a particle physics experiment at the Large Hadron Collider at CERN. ATLAS includes 3,000 physicists from UT Arlington and more than 170 other institutions, including BNL and more than 35 others in the U.S. In July, it was one of the groups that made headlines by announcing the discovery of a new particle that scientists said could be the Higgs boson, also known as the "God particle."

The computing hardware associated with ATLAS is located at 100 computing centers around



The ATLAS Collaboration's detector at the Large Hadron Collider

the world that manage more than 50 petabytes, or 50 million gigabytes, of data. PanDA links the computing centers and allows scientists to efficiently analyze the tens of millions of particle collisions taking place at the Large Hadron Collider each day. In addition to De's work developing PanDA, UT Arlington is home to the ATLAS Southwest Tier 2 grid computing center. [BNL is home to the sole Tier 1 computing facility in the U.S. for ATLAS.]

"The collaboration between UT Arlington and BNL was established a long time ago and it is a very successful story," said Alexei Klimontov, Physics Applications Software Group Leader at Brookhaven. "We are physicists, and we developed this software to be used by a high-energy physics experiment. But very soon we realized that it could be used in other areas, such as astroparticle physics, biomedicine, and others."

As an example of the possible applications, officials at the Alpha-Magnetic Spectrometer, or AMS, are considering adopting PanDA software, De said. AMS is an International Space Station experiment looking for dark matter in the universe.

In March, the Obama administration announced the "Big Data Research and Development Initiative," a \$200 million investment in tools to handle huge volumes of digital data needed to spur science and engineering discoveries. In that announcement, White House officials highlighted DOE's...

See *Higgs-Hunting Tech* on p. 2

BNL Physicist Satoshi Ozaki Honored By Consulate General Of Japan

In a ceremony at the Consulate General of Japan in New York, Satoshi Ozaki, senior advisor to the BNL Director, was honored by Ambassador Sigeyuki Hiroki in recognition of his "distinguished service in contributions to the deepening of the mutual understanding and friendship between Japan and the United States."

A news release issued by the Consulate General described Ozaki's outstanding contributions to the design and construction of accelerators — including the TRISTAN collider at the KEK Laboratory in Japan and the Relativistic Heavy Ion Collider (RHIC) at BNL — that has led to the realization of major machines for fundamental science on two continents, and his promotion of international collaboration for more than 30 years.

Said Ozaki, "It is highly gratifying to receive this recognition from Ambassador Hiroki, the head of the Consulate General of Japan in New York. Looking back, I have been very fortunate that I was at right places at the right time throughout my adult life. I also appreciate having had the right bosses both at KEK and at BNL, who trusted and strongly supported me, either in leading the construction of accelerator facilities for research or in promoting international collaboration at these facilities."



Ambassador Sigeyuki Hiroki (left) presents a citation for distinguished service to BNL's Satoshi Ozaki. Photo courtesy of Hirohito Saigusa

BNL Director Sam Aronson, who was invited to address the company at the ceremony, said, "I have benefited from Dr. Ozaki's advice and guidance over many years, currently as Lab Director as well as much earlier when I worked on the PHENIX experiment at RHIC. PHENIX was and is a beneficiary of Dr. Ozaki's strong support for US-Japan collaboration at RHIC."

Ozaki joined BNL in 1959 with an MS in physics from Osaka University, Japan, and a Ph.D. in physics from the Massachusetts Institute of Technology. His work on particle physics and major accelerator research facility development at Brookhaven led to a 1981 invitation from the National Laboratory for High Energy Physics, a research institute in Japan also known as KEK, to direct the construction

of TRISTAN, the first major high-energy particle collider in that country. Under Ozaki, this \$500-million project was completed on time and within budget. TRISTAN, which started operations in 1987, accelerated and stored beams of electrons and positrons at 30 billion electron volts — the highest energy in the world at the time. Furthermore, as recognized in the recent news release, Ozaki "promoted internationalization of the research at TRISTAN by facilitating participation of foreign researchers including those from the U.S. and neighboring countries in Asia."

In 1989, Ozaki returned to BNL to head the \$660 million RHIC Project, leading the decade-long development and construction of this world-class particle collider. About 1,000...

See *Satoshi Ozaki* on p. 2

480th Brookhaven Lecture, 9/19

PET Plants: Imaging Natural Processes For Renewable Energy From Plants

War or peace, feast or famine, food or fuel: These may be among the most extreme possibilities, but stakes are high in the quest for energy security in the 21st century. Scientists at Brookhaven Lab are among the many people working toward solutions for these challenges. In the Lab's Medical Department, innovative scientists are using a technique called positron emission tomography, or PET imaging — which is commonly used to diagnose cancer and study brain activity — to investigate plants' abilities to make substances for biofuels that could one day power our vehicles, homes, and industry.

On Wednesday, September 19, join Ben Babst, a Goldhaber Fellow in the Medical Department, for the 480th Brookhaven Lecture, titled "PET Plants: Imaging Natural Processes for Renewable Energy From Plants." Goldhaber Postdoctoral Fellowships are three-year appointments awarded to candidates with exceptional talent and credentials who have a strong desire for independent research at the frontiers of their fields. All are invited to attend this free talk, which is open to the public and will be held in Berkner Hall at 4 p.m. Refreshments will be offered before and after the lecture. Visitors to the



Goldhaber Fellow Ben Babst with a prototype of a positron emission tomography (PET) device for imaging plants. This device is being designed and built through collaboration between BNL's Medical and Physics Departments, its Instrumentation Division, and Sherbrooke University in Canada.

Lab ages 16 and older must carry a photo ID while on site.

To join Babst for dinner at The Bellport off-site following the talk, contact Amalia Ruggiero at Ext. 2837 or alr@bnl.gov.

During his talk, Babst will discuss the benefits of getting usable energy from plant biomass, as well as some of the challenges, including the limited availability of land and resources, which are also used to grow the food needed by people and livestock. He will also explain the medical imaging techniques that he and his colleagues have used to study plants' natural processes such as

vascular transport and metabolism, along with their findings that point to new strategies for achieving the highest quality plants and greatest energy yields.

Babst earned a master's degree in horticulture from University of Maryland in 2000 and Ph.D. in biology from Tufts University in 2006. He did research and taught at both schools before becoming a postdoctoral researcher at Michigan Technological University in 2006 and the University of Georgia in 2008. He arrived at Brookhaven in 2010 after receiving a Goldhaber Fellowship.

— Joe Gettler

CALENDAR

OF LABORATORY EVENTS

• The BERA Store in Berkner Hall is open weekdays from 9 a.m. to 3 p.m. For more information on BERA events, contact Andrea Dehler, Ext. 3347, or Christine Carter, Ext. 2873.

— REGULARLY —

Weekdays: Free English for Speakers Of Other Languages Classes
Beginner, Intermed., Adv. classes, various times. All welcome. Learn English, make friends. See <http://www.bnl.gov/esol/schedule.asp> for schedule. Ext. 2873.

Mon. & Thurs.: Yogalates
Noon–1 p.m. at the Rec Hall (Bldg. 317). Registration required. Ext. 2873.

Mon. & Thurs.: Kardio Kickboxing
12:15–1:15 p.m. in the gym (Bldg. 461). \$5 per class. Ext. 2873.

Mon., Tues., Thurs., & Fri.: Tai Chi
Noon–1 p.m., B’haven Cntr (Bldg. 30). N. Rm. Free. Adam Rusek, Ext. 5830, rusek@bnl.gov.

Mondays: Pilates
5:30–6:30 p.m. in the Rec Hall (Bldg. 317). Registration required. Ext. 2873.

Tuesdays & Wednesdays: Zumba
Tuesdays: Noon–1 p.m., in gym (Bldg 461). Wednesdays: 5:15–6:15 p.m., at the Rec Hall (Bldg. 317).

Tuesdays: Hospitality Welcome Coffee
10:30 a.m.–noon at the Rec Hall (Bldg. 317). Meet over coffee. Children welcome. Ext. 2873.

Tuesdays: Toastmasters
Two monthly meetings: 1st & 3rd Tuesdays, 5:30 p.m., Bldg. 463, Room 160. Guests and visitors welcome.

Tuesdays: Aerobic Fitness
5:15–6:30 p.m. Rec Hall (Bldg. 317).

Tuesday & Thursday: Aqua Aerobics
5:30–6:30 p.m., at the pool (Bldg. 478).

Wednesdays: Ballroom Dance
Hour-long sessions begin at 5:30, 6:30, and 7:30 p.m., Brookhaven Center (Bldg. 30). Vinita Ghosh, Ext. 6226.

Wednesdays: Play Group
10 a.m.–noon. Rec Hall (Bldg. 317). Parents meet while children play. For events, see <http://www.meetup.com/BNL-playgroup> or call Ext. 2873.

Wednesdays: Yoga
Noon–1 p.m., B’haven Center (Bldg. 30). Free. Ila Campbell, Ext. 2206, ila@bnl.gov.

1st Wednesday of month: LabVIEW
1:30–3 p.m., Bldg. 515, 2nd fl. Seminar Rm. Free technical assistance from LabVIEW consultants. Ext. 5304, or Terry Stratoudakis, (347) 228-7379.

Thursdays: BNL Cycletrons Club
5 p.m., Brookhaven Center. First Thurs. of month. Andy Mingino, Ext. 5786.

Thursdays: Reiki Healing Class
Noon–1 p.m., Call for location. Nicole Bernholz, Ext. 2027.

Thursdays: Postdoc Social Night
6:30 p.m. ASAP Lounge (Bldg. 462). www.bnl.gov/asap.

Thursday: Judo Class
7:30 p.m. Gym (Bldg. 461). Tom Baldwin, Ext. 4556.

Fridays: Family Swim Night
5–8 p.m. Pool (Bldg. 478). \$5/family. Ext. 2873.

Arrivals & Departures

— Arrivals —

Chien-Yi Chen..... Physics

Peter Galoto..... Photon Scis

Philip GibbsNNS

Neerav KharcheChemistry

Stefanie Lasota..... Env Scis

Zexuan LiBiology

Marlene Mirabile QM

Limin WangCMPMS

Chelsea Whyte..... CEGPA

Hao Xu Physics

Dmitri Zakharov CFN

— Departures —

Michelle Barsalona-Orlando ... PPM

George Bostick..... Lab Protec

Brent Buetow..... Photon Scis

Gabriele Carcassi Photon Scis

Ching-Jung Cheng CFN

Jeffrey Chinga.....ITD

Thomas Gadfort..... Physics

Prasad Hegde..... Physics

Zhaoming Ma..... Physics

Dipti Ranjan MahapatraSET

James Murphy Photon Scis

Raluca Musat.....Chemistry

Abid Patwa Physics

Jennifer Pientazek Staff Servs

William Sherman..... CFN

Ruth Van de Water..... Physics

Werner Vogelsang Physics

Satoshi Ozaki from p. 1

...physicists from around the world run experiments at RHIC, colliding subatomic particles known as heavy ions head on to study the type of matter that existed a millionth of a second after the Big Bang. Ozaki was also instrumental in bringing a polarized proton capability to RHIC with funding support from the RIKEN Institute of Japan. The first polarized proton run was achieved in 2001, celebrated by scientists from BNL, RIKEN, and collaborators from many other national and international institutions. He was also instrumental in the establishment of the RIKEN-BNL Research Center at BNL in 1997. RBRC became and remains an important RHIC physics analysis center and a hotbed of development for outstanding young physicists from Japan and the U.S.

Ozaki is a Fellow of the American Physical Society (APS) and a former Chair of the APS Forum for International Physics. His honors include the 2007 IEEE Particle Accelerator Science & Technology Award, which he won with BNL’s Michael Harrison for leadership in the successful design and construction of RHIC; and the 2009 APS Robert R. Wilson Prize, cited “For his outstanding contribution to the design and construction of accelerators that has led to the realization of major machines for fundamental science on two continents, and his promotion of international collaboration.”

— Liz Seubert

Higgs-Hunting Tech from p. 1

...Office of Advanced Scientific Computing Research as key to that ongoing effort.

PanDA — which was created with funding from the National Science Foundation and the DOE Office of High Energy Physics — was cited as an example of successful technology already in place.

Klimentov is the principal investigator on the new computing grants. De and Gergely Zaruba, an associate professor of computer science and engineering at UT Arlington, are co-principal investigators for UT Arlington’s portion, which totals \$704,488. The grant to Brookhaven will total \$997,000 over three years. Other key scientists include: Alexandre Vaniachine, of Argonne National Lab; and Torre Wenaus, Dantong Yu and Sergei Panitkin, all of BNL.

Klimentov said one of the major challenges of the new project would be to extend the grid-based PanDA system to a cloud-computing platform. He and De agree that work on the project would undoubtedly improve the capacity of the current PanDA system as it is used by ATLAS.

The “big data” project is an example of innovation under way at UT Arlington, a comprehensive research institution of nearly 33,500 students in the heart of North Texas. Visit www.uta.edu to learn more.

DOE’s Office of Science is the single largest supporter of basic research in the physical sciences in the United States, and is working to address some of the most pressing challenges of our time. For more information, please visit science.energy.gov.

Director’s Msg. from p. 1

We all need to respond with a sense of urgency. I’ve had the Policy Council meet weekly to discuss the peer review findings, plan our next steps, and track our progress. These weekly meetings will continue. In addition, each directorate is developing its own action plan with staff input to address the issues in the report. For example, Facilities & Operations (F&O) is conducting a series of small-group meetings to discuss concerns and map out strategies to ensure safety in the workplace. Read Lanny Bates’ article (*see Survey Results and Peer Review Findings below*) to learn more about the steps

F&O is taking in response to the peer review and other feedback.

I’m pleased to see that more of us are speaking up when we see an opportunity for learning. One member of the Lab community recommended viewing this video produced by the U.S. Chemical Safety Board, detailing three different laboratory incidents across the country that resulted in a fatality or serious injury (<http://1.usa.gov/Pnbeuq>). The video isn’t simply a ‘scared straight’ presentation. It provides insight and lessons learned that we should all take to heart, and I encourage you to take a few minutes to view it.

Survey Results and Peer Review Team Findings For the Facilities & Operations Directorate

By Lanny Bates, Assistant Laboratory Director for Facilities & Operations

The Facilities & Operations Directorate (F&O) at Brookhaven Lab exists to support the Laboratory’s science and environmental restoration efforts by providing safe, reliable, and environmentally sound infrastructure and operations. We take care of Brookhaven’s world-class facilities and the utilities and infrastructure that connect them as well as the apartment area where our guest researchers eat and stay as they use our facilities. If Brookhaven is going to compete with other institutions where scientists conduct their research, F&O and its employees must be committed to operational excellence, providing the best quality and most efficient services to those researchers.

J.R. Doe
rating. Ratings for project management and the process employees use to request work improved the most, both categories with a 16 percent increase from last year. For the second year in a row, the lowest-ranked category was the timeliness of facility service responses, although this rating improved 8 percent.

Perspectives From Outside the Main Gate

In addition to using this annual survey to rate and compare our own performance change year by year, we are also comparing our results with our counterparts’ results at Idaho National Laboratory (INL), Oak Ridge National Laboratory (ORNL), and Pacific Northwest National Laboratory (PNNL) and even private companies. Members of those institutions utilize the same basic survey which enables us to compare to a standard level of performance. While our year-by-year improvement shows that we are heading in the right direction, when we compare our results to the other laboratories, Brookhaven shows the greatest need for improvement. The F&O team recognizes that we have a continuing challenge to raise the level of the services we offer our customers.

Working Together to Do What We Need to Do

We implemented Brookhaven’s Integrated Facility Management program (IFM) in 2010 through the Blueprint and developed the program by customizing a best practice application from

Toward the end of this month, all Lab employees will be invited to attend a lecture by Robert H. Hill, Jr., on “Creating Safety Cultures.” Hill is Chair of the American Chemical Society Committee on Chemical Safety, which established a chemical safety culture task force. He received his Ph.D. in chemistry from the Georgia Institute of Technology and his B.S. in chemistry from Georgia State University. He is now a public health program manager with Battelle in Atlanta. The task force produced a draft report “Creating Safety Cultures in Academic Institutions.” Keep an eye out for a general invitation to attend.

BLUEPRINT

Brookhaven National Laboratory’s plan for growth and development

other Laboratories. IFM provides many of the tools and resources we need to improve service and mitigate risks, but we are continuing to learn to use it properly and will continue to improve it with constructive feedback from our customers and employees.

One of the major recommendations from the peer review team that Brookhaven Science Associates commissioned to identify issues in order to prevent them from impeding operational excellence was to provide mentorship opportunities for members of the F&O organization. IFM professionals from BNL, INL, ORNL, and PNNL will coach employees in their roles, particularly in:

- Planning work properly
- Identifying and controlling hazards
- Engaging our employees
- Communicating with team members, and
- Teaming with our customers more effectively

We knew that implementing IFM would be a multi-year process. We will use this mentorship program to help our workers and front-line supervisors become more successful and improve communication and accountability around work planning. Together, we’ll see over the hill as we work toward getting the right risk mitigations in place and sticking to them — while improving the IFM workflow to provide the service our customers expect.

BSA Distinguished Lecture, 10/9 The Atomic Bombs President Truman Did Not Drop

Michael J. Devine, Director of the Harry S. Truman Presidential Library, will give a BSA Distinguished Lecture titled “The Atomic Bombs President Truman Did Not Drop: Nuclear Weapons from Hiroshima to the Dismissal of General Douglas MacArthur” on Tuesday, October 9, at 4 p.m. in Berkner Hall. Look for details soon online and in the Bulletin.

Benefit Office Reminder: Proof of Student Status For Dental Program

Proof of Student Status is required for a dependent child who is age 19 or over and is enrolled in the dental program.

Proof of full-time student status must be submitted to the Benefits Office, Bldg 400B, for the fall 2012 semester no later than September 30, 2012. Proof of eligibility from the accredited college/university must be submitted to the Benefits Office every semester. Verification should include the following:

- Name of dependent
- Name of college/university
- Fall semester
- Full-time status and/or indication of at least 12 credits for undergraduate programs (or minimum 9

credits for post graduate programs)

Coverage for your dependent child will terminate effective September 30, 2012, if proof of full-time student status is not received in the Benefits Office by September 30, 2012. If you have questions, please contact the Benefits Office, Ext. 5126 or 2877.



Toastmaster Club members Beth Lin (left) and Margaret Foster (back) practice speaking to a group with guests (from left) Linda Dimasi, Tong Wang, and Leah Selva.

Practice Speaking to Groups With the Toastmasters Club

Hear demonstrations at the Humorous Talk Contest, 9/18

So many people are uncomfortable when they have to speak in public. Sometimes, even in talking to just a small group of co-workers, you wonder whether the information you need to share is getting through. You wonder — if you had planned to say your remarks in a different way, would more of the group “get it?”

That’s where a club like Toastmasters can help. For 20 years, BNLeers have been practicing talking to a group at the club, which meets twice a month to promote public speaking and communication skills.

“Come and see how we operate,” suggests said club president Timothy Jochen. “It’s useful to get communication skills whether you are giving a science talk to a big audience or a leading a daily planning meeting of a small group in your department. Also, if you are asked to make some remarks at an off-site event, at a special dinner or even a wedding, you feel more confident. Believe it or not, you can get to enjoy speaking in front of a crowd!”

“We are all very friendly,” adds Beth Lin, a founding member and now club vice-president for education. “How it works is that one or two people are picked to prepare a talk at the next meeting, and after they give their talk, the other members make suggestions about what they think are the best moments of the talk, and how it might be improved.”

“We all need to get messages

All are invited to the next meeting of the BNL Toastmasters Club for the Humorous Speech and Table Topics Contest — an evening of entertainment, encouragement, and energy! The meeting will begin at 5:30 p.m. in the Biology building, 463, Room 157. The club is open to the local community and BNLeers who attend are welcome to bring guests. Refreshments will be served. Please RSVP to Beth Lin, bylin@bnl.gov or Ext. 3372, or Mike Costanzo, mrcontanzo@bnl.gov or Ext. 8094.

Note: The Biology Building (Bldg. 463) is locked after 5 p.m. The door nearest to Room 157, on the east end of the building (on the left as you face the building from Bell Avenue), will be left unlocked for Toastmaster Meeting folks to get in.

across sometimes, and this is a chance to improve our speaking skills,” says Mike Costanzo, club treasurer. “We also have a lot of fun at meetings as well as discussing and using the tried-and-tested ways of making sure the group around you understands and appreciates your point. We have all found that the more you practice, the better you get, and the more people will listen.”

The Toastmasters Club warmly welcomes visitors as well as new members. “We hope to see some new faces at our meeting next Tuesday,” says Jochen.

BWIS Reception, Presentation Of Chasman Scholarship, 9/21

Brookhaven Women in Science (BWIS) invites the BNL community to a summer reception and presentation of the Renate W. Chasman Scholarship for Women, on Friday, September 21, from 5:15 to 7 p.m. in the Collider-Accelerator Department Lobby, Bldg. 911.

Named after Renate Chasman, a renowned physicist who worked at BNL, the \$2,000 scholarship is awarded each year to a woman whose college education was interrupted, but then returned to pursue a degree on a half-time or greater basis. BWIS offers the scholarship to qualified candidates annually to encourage women to pursue careers in science, engineering, or mathematics.

Refreshments will be served at the reception. For more information, contact Loralie Smart, Ext. 2425, or lsmart@bnl.gov.

Talk: ‘The Making of a Drug Addict,’ 9/19

A talk on “The Making of a Drug Addict” will be given at noon on Wednesday, September 19, in Berkner Hall. The speakers will be Thomas Jan, pain management specialist and Medical Director of the Long Island Council on Alcoholism and Drug Dependence, and Detective Pam Stark, Community Affairs Officer and a member of the Long Island Task Force on Drug Addiction.

This lunchtime talk, sponsored by the Employee Assistance Program, will not be recorded. Topics will include: pain meds and their uses, iatrogenic addiction, chronic opioid therapy, Nassau and Suffolk Police Department addressing the opiate addiction problem, and comparing Long Island to national addiction statistics.

No registration is needed, and the talk is open to all. For more information, email nlosinno@bnl.gov or call Ext. 4567.

In Memoriam: John Dunn

John Dunn, a senior scientist in the Biology Department, died on July 13, 2012. He was 68. A resident of Bellport, he is survived by his wife Orrell, his daughters Teresa and Heather, sons-in-law Joseph Gebbia and Michael Alpinier, granddaughter Emma Grace Alpinier, and his sister Mary and family.

Dunn joined BNL as an assistant microbiologist on July 1, 1972, after earning a bachelor's degree from West Chester State College in Pennsylvania and a Ph.D. in microbiology from Rutgers University in New Jersey. On July 1, 1977, he was promoted to scientist with tenure, and on May 1, 1988, to senior scientist.

The following reminiscences and summary of Dunn's forty years of research at BNL are condensed and adapted from an article, “John Dunn, Scientist Extraordinaire,” by Bill Studier, former Biology Department Chair and longtime colleague and friend.

John's wide-ranging scientific curiosity was evident in conversation, his questions in seminars, and his many scientific collaborations, which typically involved application of methods he had developed or adapted. Throughout his career, he pursued collaborations within the Biology Department and with scientists elsewhere. He had an insatiable scientific curiosity and passion for discovery. When he got interested in something he pursued it tenaciously, using any technique at his disposal, whether he had to develop it himself, learn it from someone else, or find it in the literature.

John always had an interest in medical applications and, in the late 1980s, was approached by a high school student who had the idea that bacteriophages, viruses that infect bacteria, might be used as a weapon against the bacterium that causes Lyme disease. This idea went nowhere but got John interested in producing surface proteins of *Borrelia burgdorferi* as potential vaccines against Lyme disease. He immersed himself in many aspects of *Borrelia* biology, including genome sequencing and evolution, determining structures of outer surface proteins, and vaccine development, primarily through a continuing collaboration of more than twenty years with physicians at Stony Brook Medical School who specialize in treatment and research on Lyme disease, particularly Ben Luft.

When John joined the Biology Department, he had already published a ground-breaking 1969 *Nature* paper with R. Burgess, A.A. Travers, and E.K. Bautz elucidating the role of sigma factor (a sub-unit of *E. coli* RNA polymerase) in controlling which genes are expressed. His biochemical expertise was an ideal complement to genetic and physiological work underway in my lab on bacteriophage T7, which infects *E. coli*. We immediately struck up a collaboration to study how gene expression is controlled during T7 infection.



Roger Stoutenburgh 00381199

This highly productive collaboration led rapidly to the discovery that RNase III, an *E. coli* enzyme, performs the final step in producing messenger RNAs of T7, the molecules that carry information for making specific proteins from T7 DNA to the ribosomes. We further found that RNase III has a similar RNA-processing role in producing the ribosomes themselves. John organized the 26th Brookhaven Symposium in Biology: ‘Processing of RNA,’ held in May 1974, which brought together people working on all aspects of RNA processing and is remembered fondly by many.

When DNA sequencing became feasible, John adopted Maxam-Gilbert sequencing to determine the sequence of the entire 39,937 base pairs of T7 DNA, a tremendous accomplishment in the early 1980s, which he and Willie Crockett completed in less than two years. The sequence allowed us to identify all of the T7 genetic elements, making T7 one of the best understood bacterial viruses. This basic understanding enabled the harnessing of T7 RNA polymerase and T7 genetic signals to direct the production of specific proteins from cloned coding sequences in *E. coli*, a technology successfully licensed by BNL.

Over the years, John served on review panels for the American Cancer Society and the National Institutes of Health Genome Study Section, was an Associate Editor of *Virology* and, since 1992, Executive Editor of *Protein Expression and Purification*. Among his honors were the 1984 E.O. Lawrence Award “for fundamental contributions... to the understanding of the mechanisms by which DNA is transcribed and processed into functional messenger RNA” and the 2001 Energy 100 Award for his work on Lyme disease prevention and diagnosis, both from DOE; the Waksman Institute Medal on the 30th Anniversary of the Discovery of Sigma Factor (awarded to all four sigma-paper authors); and Honorary Doctor of Science from Long Island University, Southampton Campus.

John's work was interrupted but not stymied for the last nine years by a continuing battle against cancer. His colleagues were devastated when he was unexpectedly felled by an aneurysm shortly after his fortieth anniversary at BNL. We sorely miss his friendship, exuberance, and collaborative spirit.”

An obituary and the full article by Bill Studier are on the BNL Obituary page, www.bnl.gov/bnlweb/pubaf/bulletin/obit/.

CALENDAR

Saturday, 9/15

Two BERA Trips

Big E State Fair, Mass., \$45/person; Bally's Casino, Atlantic City, \$30/person (21 & older). See www.bnl.gov/bera/, click on Events/Trips. Buy tickets at BERA Store, Berkner Hall.

— WEEK OF 9/17 —

Wednesday 9/19

*Talk on Drug Addiction

Noon. Berkner Hall. Specialists Thomas Jan, Long Island Council on Alcoholism and Drug Dependence, and Detective Pam Stark, Long Island Task Force on Drug Addiction, will speak on “The Making of a Drug Addict.” All are welcome. See notice, below left.

*480th Brookhaven Lecture

4 p.m. Berkner Hall. Ben Babst, a Goldhaber Fellow in the Medical Department, will talk on “PET Plants: Imaging Natural Processes for Renewable Energy From Plants.” All are invited to this free lecture, open to the public. Refreshments will be offered before and after the talk. Visitors to the Lab of 16 and older must carry picture I.D. See p.1.

Friday, 9/21

*BWIS Reception, Chasman Prize

5:15-7 p.m. Collider-Accelerator Department lobby, Bldg. 911. Brookhaven Women in Science (BWIS) invites the Lab community to a summer reception and presentation of the Renate W. Chasman Scholarship for Women. See below, left.

Saturday, 9/22

*BERA Trip: Greenwich Village

Day trip by coach to Manhattan's Greenwich Village Scavenger Hunt and free time in the Village. Get to know one of New York City's most fascinating neighborhoods, with twisty streets packed with history and some of NYC's oldest houses as well as many cafés and restaurants where you can rest up! See p.4.

— WEEK OF 9/24 —

Tuesday, 9/25

IBEW Meeting

6 p.m. Centereach Knights of Columbus Hall, 41 Horseblock Rd., Centereach. A meeting for shift workers will be held at 3 p.m. in the union office. The agenda includes regular business, committee reports, and the president's report.

The John Dunn Life Sciences Award

Biology Department colleagues established the John Dunn Life Sciences Award to honor Dunn's outstanding scientific accomplishments, collaborative spirit, and mentorship at BNL, and his productive collaborations with life scientists at Stony Brook University. If you would like to contribute to the award fund, please send a check made out to “Stony Brook Foundation,” with “John Dunn Life Sciences Award” on the memo line, to Stony Brook Foundation, Attn: Dawn Marie McBrearty, College of Arts and Sciences, Stony Brook University, E-3320 Melville Library, Stony Brook, NY 11794-3391. Donations are tax-deductible.

BNL Food Drive

The Lab's donations of canned goods placed in the BNL Food Drive around site are needed more than ever. Please remember — thank you.

Start Thinking About Healthfest

The Lab's month of health, safety, and wellness events will kick off with a lunchtime walk on October 1. Other events will include a table-tennis tournament, a 400-yard swim, a Healthfest Fair, a 5-kilometer run, talks on vaccines and injury prevention, a massage day, a mountain-bike ride....and more. Watch for the calendar.



Alex Reben

Making Crosswalks Safer For Pedestrians at BNL

Community Relations’ Nora Detweiler saw the intersection of pedestrians and cars on site as a possible safety concern. Watch the video online (<http://1.usa.gov/QhQKAT>) to learn how she was inspired by signs in local towns to help make the Lab’s crosswalks safer.

Safety makes science possible at Brookhaven National Laboratory

Classified Advertisements

Current job openings and a statement of job placement policy at BNL are available on the homepage at www.bnl.gov/HR/careers/. To apply for a position, go to www.bnl.gov and select “Search Job List.” For more information, call Ext. 2882

Motor Vehicles & Supplies

11 HARLEY D WIDEGLIDE – w/PowerCommander, Vance & Hines pipes, S&S air cleaner, Dyno-tuned, \$13,000 neg. 902-5453.

11 HYUNDAI ELANTRA – 28K mi. GLS Pref. Pkg, blue, 16” alloy wheels, steerg-wheel contr, bluetooth. \$15,300 neg. 494-5592.

10 PIAGGIO 50 CC SCOOTER – 625 mi. gar since new, white, 110 mi/gal, excel cond, \$1,600. Mark, 987-4445.

08 HONDA CR-V – 72K mi. LX 4wd, a/c, p/w, p/d, side airbags, excel, orig owner, fully service, new tires. \$13,600 neg. 331-0311.

06 YAMAHA RD STAR WARRIOR 1700CC – 2.3K mi. gar kept, Bub Juggs st sweepers, more, like new. \$7,500 neg. 772-2939.

05 TOYOTA COROLLA – 94K mi. excel, w/cd changer, airbags, pwr win/dr/seat/steering, c/c, rem key, \$8963/neg. Ext. 3057.

04 HONDA ACCORD LX SEDAN 4D – 90.4K mi. blk, 4-cyl, a/t, a/c, p/s, p/w, am/fm/cd, orig owner, \$7,980 neg. 331-0311.

02 GMC YUKON XL – 55K mi. 3/4 ton, 2500 Series, blk exterior, leather, gar, mint, loaded. \$12,500 neg. 928-1254.

98 DODGE CARAVAN SE – 161K mi. Clean, inspected, 6cyl,a/t,abs,c/c,p/w, p/l, new batt, brakes, \$2,350 neg. Ext. 5806.

96 VIKING POP UP CAMPER – gd cond, kitch, frig, heat. \$1,650. Luis, 457-3288 or lcrutz@bnl.gov.

95 ACURA INTEGRA – 150K mi. special Ed, leather, moon roof, 5/spd. \$2,300 neg. Mark, 365-9822 or mmcneill@bnl.gov.

93 COLEMAN CHESAPEAKE – 10K mi. Pop up camper, qu & tw mtrsses, elect brakes, could convert to util trailer. \$200. Ext. 7239.

EXTANG TRI-FOLD TONNEAU – solid cover, fits 5.5’ bed; F150 ‘09-’12, \$400. Ron, Ext. 7588 or prwivo@bnl.gov.

Boats & Marine Supplies

17’ BOSTON WHALER MONTAUK – ‘03 Low hrs 90 merc. 4 strke, trailer, new bilge pump, in water, \$16,500 neg. 335-7173.

11’ KAWASAKI JETSKI’S 900 STX/1100 ZXI – ‘03, 900 STX 3/seater; ‘03, 1100 ZXI 2/seater ‘03 Trailer. \$5,500 neg. kmichel@bnl.gov.

18’ OUTBOARD MOTORBOAT – fibergl Manatee, 7 beam, ‘05 four-stroke, 90hp Suzuki eng, now in water, \$2,500. 286-5897.

Furnishings & Appliances

BABY’S CRIB – in w/gd cond, clean, no pets, non-smkg family, \$40. Xiao, 504-2122 or xiaozhang@bnl.gov.

BOOKSHELF – 1/white w/4 shelves, \$20; 1/white TV stand \$10, both IKEA. Rachel, Ext. 4213, 681-7124.

CHERRY GROVE CHINA CABINET – Edinburg buffet server & hutch fluted architectural details; ask/\$500. Ext. 7370, 331-0311.

DINING ROOM SET – Formal, 66”x42” w/3 leaves 11” ea, 6 chrs, seats at least 12, ask/\$600. pics. Ext. 7235, fitz@bnl.gov.

FREEZER – United, heavy-duty upright, 60x28x24. gd working cond/\$100. 905-5453.

GLIDER ROCKER, TODDLER BED, – white rocker \$40; Tddlr bed, wood finish w/matress/\$60; Dble Stroller, \$30, pics. Ext. 2460.

KIDS FURNITURE – white bdrm: 3/drawer dresser, 1/dresser w/shelves, 1/desk, corner table, \$100/all, pics. 681-7124.

Play Volleyball!

For its 2012–13 season, the BERA Volleyball League resumes play on Monday, October 8. The League offers teams for players of every ability and skill level, so come and join in the fun! All players are invited to get warmed up for the season by playing in open sessions in the gym on Monday and Wednesday nights. See the Doodle poll (www.doodle.com/5mrdvev73scaz5wq) to find out when play will begin on those evenings. Also, note that there will be more open play at the gym on Saturdays after Labor Day.

Captains Meeting, 9/19

Captains interested in fielding teams for the league should attend the captains meeting on Wednesday, September 19, at noon in Berkner Hall, Room A. Bring a signed roster form with you. For more information, visit the League’s web site at www.vb.bnl.gov, or contact Marie Van Buren, Ext. 4727 or vanburen@bnl.gov; or Alain Domingo, Ext. 7060 or domingo@bnl.gov. Nominations for the 2012-2013 executive board should be directed to Van Buren or Domingo before the captains meeting.

CAMPERSHAMROCK – V6, expands/ 16-24’, a/c/heat, 2 bed, q/full, dinette, m/w, stove, frig, ba, slps/6, towable, \$6K. 786-6814.

EXERCISE – Nordictrack, Nordic Gold, tunturi bike, rare usage, excel cond, moving,make offer, u-pic-up. 275-0866.

GO CART – 2-pers black fox kids go cart w/a Tecumser 5.0 eng, runs well, needs minor work, \$300/neg. 516-779-3116.

LES PAUL – 2002 Epiphone “Elitist” Les Paul. Top of the line, MIJ, Pro Guitar. Inc/ Gibson Case. \$500. Rich, Ext. 8186.

MOUNTAIN BIKE – Diamondback 21 spd w/many new parts, \$200. Mark, Ext. 3970 or mwahlert@bnl.gov.

PIANO, SAMICK UPRIGHT – beautiful cherry finish, standard upright piano, player piano & Karaoke, \$900. 831-4344.

ROCK CLIMBING GEAR – Stealth C4 5.10 men’s shoes, size US 12, \$40; harness, men’s L/\$35; more. Brian, Ext. 8240.

ROOF RACK BIKE CARRIER – THULE 599XTR Big Mouth upright w/o lock, leave tires on, \$80. Brian, Ext. 8240.

SURF BOARD – “Roxy”, 7.5’, light blue w/ pink detail, cushioned non-slip surface, leach incld, excel cond, \$300. 219-7196.

THULE ROOF RACK – 50” LB50 load bars, 2 pack w/end caps, \$50; THULE 400 rf rk ft pack w/o locks, \$25. bmccaffrey@bnl.gov.

WETSUIT – Youth size 12. Like new. Pd. \$110, ask/\$50. Lynda, Ext. 7235, fitz@bnl.gov.

Community Involvement

BIG DUCK CAR SHOW – Sun. 9/16, 9a-4p, rain date 9/23. Raffle prizes, 50/50 drawings, oldies by Vinnie V, Adults/\$5, kids under 12 free w/adult, info: 284-3737 or visit bigduck.org. Ext. 8962.

RIVER FRONT 24 RUN/WALK – 3rd Annual River Front 24 Endurance Run/Walk in Riverhead. Benefit for Suffolk County United Veterans, 11/10-11/11. Teams welcome. <http://tinyurl.com/9242xow>. riverfront24@gmail.com.

Happenings

CYCLETRONS MC CLUB BAR-B-Q – 14th Annual family get-together at BNL Gazebo, noon, Sat, 9/15, raindate 9/22, \$10/pp, kids under 12 yrs old FREE! Food, Fun, Games, all welcome. Andy, Ext. 5786; Rich Ext. 3386; Frank, dusek@bnl.gov.

MASTIC BEACH ANNUAL ARTS SHOW – MB Annual Arts Show is Sat 15 Sept from noon to 6p. 369 Neighborhood Rd Mastic Beach. 484-0816 or MBVCA@aol.com.

‘NIGHT, MOTHER’ OPENS AT NFCT – North Fork Community Theatre’s 55th season, Fri-Sun, 9/14-23. Tickets \$15 at www.nfct.com or 298-6328. Ext. 2520.

Farewell Gatherings

DAVID ALBURGER – A memorial service for David Alburger will be held on Sunday, September 16, at 3 p.m., St. James Parish Hall, Beaver Dam Road, Brookhaven Hamlet.

HUGH BROWN – A celebration of the life of Hugh Brown, who died August 25, will be held at 1 p.m. Saturday, September 22, at the Parish Hall of St. James Episcopal Church, 260 Beaver Dam Rd., Brookhaven. elisebr@fairpoint.net.

Miscellaneous

EZGOAL OUTDOOR LACROSSE WALL – 2mo old, \$150; Gas grill, nds cleang, \$100, u-pic-up, Rnknkma. dmcarthur@bnl.gov.

GUITAR & AMPLIFIER – ‘60s Kimberly 4 P/U guitar & Lafayette 2 ch amplif; 2x12” Jensen spkrs, extras, b/o over/\$250. Ext. 4450.

LEAPFROG GAMES – unused. Tangled & Toy Story Leap Frog Explorer, ask/\$20, ea sells for \$24.95, outer cover torn. Ext. 4056.

MAD MAGAZINES, RARE BOOKS – Collection from 1960’s to early 80’s.Also memorabilia, \$200/obo. Jesse, Ext. 2122.

PARTS WASHER – Steel 20-gallon w/flex nozzle & tray. \$75. 902-5453.

PIANO – Wurlitzer spinet/console piano gd cond w/bench. u-pic-up, \$250; 750-3385.

PIANO AND BENCH – Yamaha, walnut, excel cond, \$1,500. 288-3112.

GOWN – Mother-of-bride or groom gown, beaded, lace, organza, cocoa color. Sz18-20. Google Montage #14925. Ask \$195. 871-3533.

Wanted

ADOPT-A-PLATOON – Monetary donations gratefully accepted towards mailing shipments to our platoon stationed overseas and to send goodie packages to BNL family members. Thank you. Joanne, Ext. 8481.

BNL FAMILY MEMBERS IN MILITARY – If you have a family member that has been deployed overseas, please contact Adopt-a-Platoon so we may send them a goodie package. Joanne, Ext. 8481.

BOX TOP CLIPPINGS – Help support Education! Please send any you see on specially marked products by General Mills, Pillsbury, Betty Crocker, etc. T.Y.! Mail to Bldg. 510A. Nicole, Ext. 3807.

FIREARMS – Firearms wanted. I will pay Fair \$\$\$ depending on age and condition. Will buy New or Old Guns. Remember, no firearms on BNL property. Joe, 487-1479.

LONGWOOD GARDENS LIGHT SHOW – Looking for 2 Tickets to the show for the Sept. 29 trip please contact if you want to sell you tickets, thank you. 291-0245.

PATIO FURNITURE WANTED – I am looking for a nice patio set/furn, to be used outside on a patio. 816-3554.

POP TOPS FROM SODA/BEER CANS – collecting for Shriner’s Children’s Hospital. Please drop off or send to Bldg 400A, Transportation Office. Paula, Ext. 2535.

ROWBOAT – portable sm or similar sized/ capable craft. Amber, Ext. 4056.

STORE GIFT CARDS – for families at Thee Island INN Soup Kitchen, Middle Island. Needed for school clothes for children. Any amount: Walmart, Target, Old Navy, etc would be greatly appreciated!! Barbara, royce@bnl.gov.

TRAILER – Enclosed. For Harley. Joe, 831-4830 or mheinrich@bnl.gov.

Lost & Found

LOST LADIES LEATHER JACKET – brown, short, sm size, light-weight, w/lining; Stephanie, Ext. 5062, shamilton@bnl.gov.

Yard & Garage Sales

SHIRLEY – Moving sale, 37 Linden Lane, Sat, 9/15, 10a-5p, furn, hsehold items, TVs, office furn, game tables etc. dcort20@optimum.net.

For Rent

FORT MEYERS BEACH, FL – Thanks-giving wk (11/17-24) Beachfront 2bdm, 2bth, kitch, laundry rm, l/r & d/r, screened porch, pool, deck w/BBQs, frig&sink, sunsets. \$1,500/wk. Mary Ann, Ext. 5124.

EAST SETAUKET – Three Village School District, Town-hse, 9/yrns young, 3 bdrm, 2.5 ba, water view; 1 gar, 1800 sq ft, quiet community. \$2,440/mo neg. 331-0311.

FARMINGVILLE – fully furnrd oversized legal apt, l/r, lg bdrm, full kit/bath, priv ent/ drvrwy/yd, util incl, cable, own thermo, no smkg/pets, 1 mo sec/rent, 12 min to Lab. \$1,000/mo. John, Ext. 3642, 732-2472.

MASTIC – Cozy 2 bed, 1 bath, lr/dr combo, fenced yard. Small pet considered. 2-mo sec. Available Nov. 1. Utills not included. \$1,525/mo. 775-8703.

MILLER PLACE – share furn Colonial home in prof residential area 10 mi to BNL, own bdrm int/heat/ac/cable, incls all, responsible, no pet non-smkr. \$750/ mo. 744-8386.

N. SHIRLEY – 1 bdrm furn apt, ground flr, nr Lab & stores, pvt ent, util incl, no pets/ smkg,1 mo rent/sec. \$850/mo. Ext. 3849.

RIDGE – sharing hse w/other BNlrs, v/ close to Lab, all utls incld. \$595/mo neg. Mim Gao, 917-712-2277.

ROCKY POINT – Studio apt for 1/person, avail NOW, grd lvl, priv ent, int, DirectTV, a/c, cathedral ceiling, no pets, inclcs all. \$875/mo. Tony, 516-250-7764.

BERA Trips

Greenwich Village Scavenger Hunt: Saturday, 9/22. Hunt 11 a.m.-1:30 p.m., then free time until 5 p.m. Not suitable for children under 12. \$40/person (adult or child). Leave BNL 9 a.m., leave The Village 5 p.m. www.watsonadventures.com/public/event/the-secrets-of-greenwich-village-savenger-hunt/

Bronx Zoo: Saturday, 10/13. \$25 adult or child, under 3 years free if sitting on your lap. Leave BNL 9 a.m. and leave the Zoo at 5 p.m. Price includes Total Experience tickets, except for camel rides.

Dorney Park Wildwater Kingdom: Saturday, 10/20. Fright Fest at Dorney Park! \$35 per person. Must be 21 & over unless with BNL parent. Times to be confirmed: Depart BNL at noon, depart Dorney 10 p.m.

Buy tickets at the BERA Store (M-F, 9 a.m.–3 p.m.), Berkner Hall. See <http://1.usa.gov/MxTxGG> for more information.

SHIRLEY – SMITH POINT ESTATE – 1 bdrm apt, l/r, full kitch & ba, no smkg/pets, pvt ent/drvrwy, util incl, 1/mo sec, 10/min to Lab, \$1,000 single, \$1200 couple. Diana, Ext. 3681, 922-0104.

SHOREHAM – on cul-de-sac, 2 bdrm, l/r, kitch, full ba, priv ent, drvrwy, own thermostat, a/c, cable, DVR box & int, w/d, perfect for single or couple, no smkg/pets. \$1,350/mo. 445-7838.

SHOREHAM – 1 bdrm furn apt, l/r, d/r, full kitch & bath, no smkg/pets, pvt ent/drvrwy, util incl 1/mth sec, 5 min to Lab. \$1,050/ mo. 375-7959, judyb55@optonline.net.

YAPHANK – 1 bdrm apt, lg l/r, kitch w/ss appls, a/c, cable, no pets, prvt ent, 5 min to Lab. \$1,225/mo. 334-1558.

For Sale

BAYPORT – 2300 sq ft house, 1 wooded acre nr Grt S. Bay, 4 bdrm, 2½ ba, open fr plan, lg windws, radiant heat, screened porch, excel schools. \$515,000. 617-332-6264.

CORAM, NY – “Price drop” lg 1 bdrm co-op, updated kitch & b/r, laundry across from unit, in/outdr pool & gym. \$99,900. Warren, Ext. 8329 or whalbig@bnl.gov.

EAST SETAUKET – 3-Vill. School Distr; Town hse Birch; 9/yrns young, 3 bdrm, 2.5 ba, water view; 1 gar, 1800 Sq ft, 1st flr, elk, l/r w/gas fpl, dway prkg eik, ½ ba, gar, 2nd flr Master w/ba. \$384,500 neg. 331-0311.

MIDDLE ISLAND – Condo, 208 Fairview Cir, must sell now, \$45,000 upgrades in 4 yrs, new b/r, a/c, furn, tankless hot water heater, windws, patio dr, red oak flrs/base molding, carpet. \$139,000. 481-6544.

PATCHOGUE – Village, 3 bdrm, cac, oil BB heat, hardwd flrs, full bsmt. \$215,000 neg. Bill, Ext. 2378, 793-9111 or wjleonhardt@bnl.gov.

PORT JEFFERSON STATION – 3 bdrm, 2 ba Coop 2nd flr, new: bdrms, w/w rugs, applis, gated community w/swim pool, BBQ, laundry on premises, near SBU & BNL. \$142,000. 431-4551.

ROCKY POINT – 4 brm, 4 ba chalet, 1.2 wooded acres, nr beach, ElK, granite counters, ss applis, huge lv, dr, fp, hardwd flrs, porch, A/C, 2 car gar, igs, quiet n’hood, legal m/d. \$435,000. 631-4320.

ROCKY POINT – Near Friendship beach, 2/3 beds, 1 bath, f/p, finished 1 bd/1bth bsmt, quiet dead-end st. \$220,000. Nelly, Ext. 8104 or nellyklein@bnl.gov.

S. SETAUKET – Three Village Green, Like-new, many upgrades. 3Bd, 3Bth, basement, garage. \$399,000 neg. 473-5957 or mdylan07@gmail.com.

SAYVILLE – Expnd’d ranch, 10 rms + Florida rm, den w/fp, 3bdrm, 1.5/bath up, 3/ rms + .5 bath dwn stairs, igp, cac, 1 car gar, new kitch, heating sys, gutters, excel cond & location. \$350,000. 750-3385/431-4551.

SMITHTOWN – High Ranch on dead end w/ rm for Mom! Master bdrm + 3 others, 3 ba, 1.5 gar, attic, bsmt, double f/p, low maint, walk distance to town, RR, park, great schools. \$399,000 neg. 516-808-3422.

WADING RIVER – 3 bdrm ranch, detach 2 car gar, 1 acre great neighbd. \$339,000. 929-5781.

In Appreciation

The family of the late Sheila Land would like to say Thank you for the kind words and donations. It truly meant a lot. Thank you again. — From Pam Mosley & family
THANKS for the wonderful donations of school supplies! Children in need at Thee Island Inn + a few other agencies in the local area benefited! Next: THANKSGIVING Food Drive!! — Christine Carter