

**Community Advisory Council  
February 10, 2011  
Action Items/Notes**

*Final*

These notes are in the following order:

1. Attendance
2. Correspondence and Handouts
3. Administrative Items
4. Membership
5. BNL's 10-Year Strategic Plan, Dr. Sam Aronson, Director
6. Community Comment
7. Agenda Setting
8. SPDES Permit Modification Update presentation, Jason Remien, Environmental Protection Division
9. Agenda Setting Exercise

**1. Attendance**

Members/Alternates Present:  
See Attached Sheets.

Others Present: S. Aronson, L. Bates, M. Bebon, B. Birben, S. Bogart, J. D'Ascoli, N. Detweiler, G. Goode, T. Green, M. Israel, S. Johnson, M. Lynch, T. Maier, M. Malloy, J. Naumann, D. Paquette, J. Remien, B. Turk, R. Turk,

**2. Correspondence and Handouts**

Items numbered one through five were mailed to Members with a cover letter dated February 3, 2011. Items numbered six and seven were placed in the Member's folders and items eight through ten were available as handouts at the meeting.

1. Draft agenda for February 10, 2011
2. Draft notes for January 13, 2011
3. Copy of presentation on BNL's Contribution to the NYS Climate Action Plan
4. Copy of the December 3, 2010 Bulletin article BNL's 10-Year Strategic Plan
5. Copy of CAC recommendation to Dr. Aronson
6. Revised Agenda
7. Copy of Action Item on spills
8. 10-Year Strategic Plan presentation, Sam Aronson
9. SPDES Permit Modification Update presentation, Jason Remien
10. Information on March 8 presentation at BNL on "The 2012 Project," Increasing the number of women in public office in the U.S.

**3. Administrative Items**

The meeting began at 6:30 p.m. Reed Hodgkin, facilitator, reviewed the ground rules and the agenda. Those in attendance introduced themselves.

Member Sprintzen made a comment regarding the 80 by 50 plan from last month's presentation. He said the development of the scenarios should include two additional ones that

work off the assumption of a 50 percent cut in the growth in energy usage, and one which assumed no additional growth in energy usage. He said such additional scenarios are required if the study is to be seen as relatively fair and unbiased.

Member Guthy said there was an article in the News Review regarding a suggestion to start a community garden in downtown Riverhead near the Peconic River. At a Town Board meeting, a woman stated that the produce from this garden would be contaminated because the river which sometimes floods is contaminated from Brookhaven Laboratory. The woman's statements sounded convincing. Guthy said she wrote a letter to the editor representing herself, not the CAC, but she did say she was a member of the CAC. She feels that part of the job of the CAC is to correct misinformation. In her letter she stated that in the reports she has seen and as far as she knows no contamination had ever gone down that far into Riverhead town and the statements made were inaccurate.

Member Giacomaro asked if the woman was aware she could come to CAC meetings and suggested inviting her to come to a meeting.

Member Kaplan said perhaps an invitation letter could be sent to a local newspaper informing the public that they are welcome to come to our meetings and express their concerns.

Member Giacomaro offered to do that.

Member Henagan said the Lab should write a letter to the local newspaper and the Riverhead Board explaining the facts about contamination in the Peconic River.

Member Talbot said this may be a good opportunity to fill the vacancy for the Town of Riverhead.

CAC facilitator Reed Hodgkin said that information could be included in the letter.

#### Approval of Minutes:

Hodgkin asked for corrections, additions, or deletions to the December 9, 2010 draft notes. The notes were approved as written with none opposed and two abstentions.

Hodgkin then asked for corrections, additions, or deletions to the January 13, 2011 draft notes. Member Sprintzen said last month, he raised a question about whether the 80 by 50 plan assumed current rates of growth in energy demand and questioned the extent to which such an assumption biased the presentation of the alternative scenarios. The notes were approved as amended with none opposed and seven abstentions.

#### **4. Membership**

##### Request for Membership by Margaret Malloy:

Margaret Malloy said she has lived on Long Island all of her life. She has a Master's degree in biological sciences and works at the American Physical Society (APS). This society has a strong connection with the Lab and they are strong advocates of BNL. She said there has been a real turn around in the image of Brookhaven Lab. She considers herself an environmentalist and a minimalist. She has always been interested in the environment and is a member of the Long Island Chapter of the Sierra Club and the Adirondack Mountain Club. She is very interested in what is happening on Long Island. She said we need to get a lot smarter about how and what we are developing on Long Island and she would like to be a part of that. She hopes to bring perspective to the CAC and she hopes to be able to take away the fact that we are trying to preserve the beauty that is here.

Member Peskin said it makes sense for Malloy to be on the CAC. He is enthusiastic about her membership.

Member Guthy said she already is an ambassador for information on what is going on at the Lab. It will be beneficial for her to be here and get more information

Member Talbot said he has known Ms. Malloy for several years. She has a good reputation in the civic world; she takes on responsibility without hesitation and is very creative. Many times, she is the voice of reason.

Member Giacomaro asked if she could keep an independent perspective when on a side opposing the Laboratory. You sound very pro Lab, that's good, but there are times when you will be on the opposite sides.

Malloy said she can be very open-minded and can listen to both sides of an argument.

Member Jordan-Sweet asked what category Ms. Malloy would fit into.

Hodgin said Other. The science slot is filled so using the Other slot makes it easy without changing the structure and balance of the membership.

Member Kaplan asked if she was authorized to represent the APS.

Hodgin said she has their approval to represent them. He said you could add another science position tonight if you want to spend time doing that.

Member Shea supported adding Ms. Malloy under Other.

Hodgin said that quorum and approval from 75 percent of the members present (12) are needed to add a new member. He called for a vote on approving Margaret Malloy as a CAC member. The CAC voted –unanimously (15 yes) to approve Ms. Malloy as a member.

### Attendance

Nora Detweiler, liaison to the CAC, said there are two member organizations that are not meeting the requirements for attendance. We would like to send a letter informing Suffolk County Fire and Rescue and IBEW that they need to attend the next meeting, and if not, we will take a vote as to whether or not remove them from the CAC. We already sent a letter to LIA asking them to provide us with a member. They responded that currently they are unable to participate, so they resigned. We are hoping that the letters we send them will spark an interest again and they will show up for the next meeting.

Member Peskin said a large number of employees at the Lab fall under the IBEW Union and it could be a problem if they do not have representation. He suggested modifying the letter to ask them to appoint a new representative.

Member Giacomaro asked for a copy of a letter inviting new members.

Detweiler said we do not have a letter, but we could write one.

Jeanne D'Ascoli said we could easily write something. Basically the process has been that a person attends several meetings to see if they are interested before they ask to become a new member.

Hodgin clarified that the Riverhead woman was not being invited as a potential member, but was being invited to be a member of the audience to learn more about the issues.

Member Bush asked what the criteria is for dropping an organization.

Detweiler said in the current Charter it is necessary to attend a third or more of the meetings in a six month period.

Member Kaplan asked if a letter will be sent to the Town of Riverhead specifically asking them if they are interested in filling the position on the CAC.

Detweiler said Sherry Johnson and Michael Arens from the Community Relations will be going to Riverhead and will extend the invitation to the Supervisor, asking him to appoint someone to the CAC.

## **5. BNL's 10-Year Strategic Plan, Dr. Sam Aronson, Laboratory Director**

Dr. Aronson said the American Physical Society has an Historic Committee that recognizes individuals for their accomplishments. He just learned that they are designating BNL as an historic site. This is the first time they are honoring an institution.

He then explained the mission of the Laboratory:

- Advance photon sciences, energy, and environment-related research and apply them to 21<sup>st</sup> century problems of critical importance to the nation.
- Advance fundamental research in nuclear and particle physics to gain a deeper understanding of matter, energy, space, and time.

Aronson said BNL's science strategy is to:

- Position BNL's two largest user facilities – National Synchrotron Light Source (NSLS) and Relativistic Heavy Ion Collider (RHIC) – for continued leadership roles.
- Focus on five Major Activities built on Core Capabilities

The five Major Activities that are planned are to: complete NSLS II, expand and enhance RHIC capabilities, focus on energy capture and storage, probe some of the deepest secrets of the universe, and understand relationships among climate change, sustainable energy, and ecosystems. These are built on the following 12 Core Capabilities, which are BNL's seeds for discovery to deployment:

1. Particle Physics
2. Nuclear Physics
3. Accelerator Science and Technology
4. Condensed Matter Physics and Materials Science
5. Chemical and Molecular Science
6. Climate Change Science
7. Biological Systems Science
8. Applied Nuclear Science and Technology
9. Applied Materials Science and Engineering
10. Chemical Engineering
11. Systems Engineering and Integration
12. Large-Scale User Facilities/Advanced Instrumentation

Aronson said there are plans to upgrade RHIC and add a third accelerator to collide electrons.

Member Giacomaro asked how the collisions are controlled so they don't create new matter.

Aronson said these are very small amounts of matter so they would evaporate before creating new matter or black holes.

Member Kaplan asked if electrons collide with electrons.

Aronson said no, the electrons are used as probes of the nuclear matter. They will be scattered off of protons or heavy ions.

Member Sprintzen asked how this third accelerator would be attached to RHIC.

Aronson said it will be inside the same tunnel, side by side with the existing rings. This will be done within the existing footprint.

Member Jordan-Sweet asked how long RHIC would be down for the upgrade.

Aronson said construction would begin after NSLS II is completed so we would be looking at running the new facility in 2020.

Member Giacomaro asked if other alternatives are being explored in addition to photovoltaics for energy production.

Aronson said there is some interesting work being done in bio-energy here at BNL.

Aronson said High Energy Physics research is now done at the LHC at CERN.

Aronson spoke briefly about the budget. He said the Lab is operating on a Continuing Resolution until March 4. We are unsure what will happen after that date, so the Laboratory is proceeding cautiously.

Member Chaudhry said the Lab is doing a lot of work in many areas and asked if other Labs are doing similar work? I don't hear much on nuclear power safety. That would solve our energy problems.

Aronson said we do some work in nuclear safety. New reactor design work is being done at Idaho and other labs. BNL won't have a big role, but it could contribute more. We need more nuclear power if we want to get off petroleum.

Member Talbot said Brookhaven Town Supervisor Mark Lesko proposed a coalition of high tech organizations to join forces with the long-term goal of forming a Silicon Valley-type situation with the idea of promoting jobs. How does that match up with your vision?

Aronson said Brookhaven is part of the Accelerate Long Island initiative that Supervisor Lesko started and he has been attending the meetings. The idea that Brookhaven together with other institutions on Long Island can form a high tech corridor that would contribute to the economic redevelopment of the island is a good idea and the new governor is now promoting regional innovation centers as a model for the state.

Member Bush asked to what extent is the research focus dependent on politics.

Aronson said this Country does not have a national energy policy, it changes with administrations. We don't have a long-term view. We are well positioned now to have an impact.

## **6. Community Comment**

There was no community comment.

## **7. Agenda Setting**

Nora Detweiler said there will be an agenda setting exercise at the end of this evening. She said next month, Emilio Mendez, Director of the Center for Functional Nanomaterials, will be here to give an overview of science related to energy. We have a talk on the LISF research agenda coming up, as well as the economic impact report. If anyone has any additional topics of interest, please feel free to add them to the list when we do the agenda setting exercise.

## **8. SPDES Permit Modification Update presentation, Jason Remien, Environmental Protection Division**

Jason Remien gave the CAC an update on the SPDES permit modification. He gave some background information and explained the final recommendation, which was to re-direct sewage treatment plant effluent to groundwater discharge. He said some of the CAC's recommendations were included in the final recommendation. He said the total cost of this project is \$3.9 million. This includes the design and installation of a pre-filtration system and the recharge basins, which was one of the CAC's recommendations. There are three main phases to this project; design, construction, and finally, the project close out. We will do our best to accelerate the project, but must work within our funding capabilities. He explained that the preferred alternative, a groundwater recharge system, includes a post aeration filtration system and the evaluation of the removal or alteration of the river monitoring stations to improve fish passage. He reported that an Environmental Assessment (EA) is being prepared and that two other alternatives were being evaluated: no action, and an enhanced effluent treatment. BNL's goal is to have a draft EA to the State for review in mid-March, give the CAC a briefing after that, and have a final Environmental Assessment completed by the end of April.

Member Kaplan asked where the discharge would go under the enhanced effluent treatment option.

Remien said that option requires upgrading the Sewage Treatment Plant. It would still discharge to the Peconic River.

Member Blumer asked what the groundwater recharge system would look like.

Remien said the final filtration goes through the new sand filter beds. We are proposing to rebuild the former World War I sand filter beds and reuse them.

Blumer asked if wetland filtration had been considered.

Remien said it is not effective during winter months.

Blumer said it could be run through solar greenhouses.

Member Kaplan asked what the chance is there that the former sand filter beds are not suitable.

Remien said soil studies are needed to make sure the water will recharge and that there are no drainage issues.

Member Talbot said there is a tour planned of the Peconic River in the spring and asked if it would be possible to see this area.

Remien said there will not be any construction happening yet, but we could visit the area.

Remien then gave the CAC an update on the Peconic River. He said the sediment trap has been removed and areas 6, 15, and the sediment trap area have been cleaned up. Sampling shows all levels to be below Record of Decision cleanup goals. The removed sediment will be transported by rail to a NY permitted disposal facility. Wetland replanting and monitoring is set to occur in the spring. This has all been accomplished successfully and safely.

Member Blumer asked about re-vegetation.

Tim Green, Cultural and Natural Resource Manager at Brookhaven's Environmental Protection Division, said native plants from along the Peconic will be transplanted in the areas. The distance between plantings will be four feet.

## **9. Agenda Setting Exercise**

### **Results of voting on topics:**

Homeland Security – 9  
Nanotechnology Developments & Standards – 7  
Science & Politics – 7  
Overview of BNL Land Use Plan – 6  
Sustainability – 6  
Photovoltaics – 6  
PET/MRI Research – 6  
LISF Tour Prior to Completion – 6  
Business/Lab Integration of New Technologies – 6  
Nano Patterning – 5  
Natural Resources Management Plan – 5  
Nuclear Non Proliferation – 4  
Nuclear Safety – 4  
Catalysis & Super Conducting Magnets – 3  
Cosmology – 3  
More about Accelerate Long Island as info. becomes available - 3  
Safety Progress – 2  
CRADAS – 2  
Radio Isotopes – 2  
Nuclear Stewardship - 1  
Technology Transfer – 0

The meeting adjourned at 9:05 p.m.

<b>P = Present</b>	<b>2011</b>	<b>Affiliation</b>		First Name	Last Name	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
		ABCO (Garber added on 4/10/02)	Member	Don	Garber												
		ABCO (Madigan added 10/10)	Alternate	Michael	Madigan	P	P										
		Brookhaven Retired Employees Association (Peskin replaced Campbell 09/09)	Member	Arnie	Peskin		P										
		Brookhaven Retired Employees Association (L. Jacobson new alternate as of 4/99)(A. Peskin 5/04)(Franz 12/09)	Alternate	Eena-Mai	Franz	P	P										
		CHEC (Community Health & Environment Coalition (added 10/04)	Member	Sarah	Anker												
		(added 12/08) (R. Andrejkovics removed 9/09)	Alternate														
		Citizens Campaign for the Environment	Member	Adrienne	Esposito	P											
		Citizens Campaign for the Environment (Ottney added 4/02-taken off 1/05 Mahoney put on)(7/06 add Kasey Jacobs)(K. Jacobs off 1/08)	Alternate														
		Colonial Woods Whispering Pines (added 06/09)	Member	Christine	Birben	P	P										
		Colonial Woods Whispering Pines (added 09/09)(Rehbein added 11/10)	Alternate	Eric	Rehbein	P	P										
		E. Yaphank Civic Association	Member	Michael	Giacomaro		P										
		E. Yaphank Civic Association (J. Minasi new alternate as of 3/99) (M. Triber 11/05) (Munson 6/06) (Feinman 2/09)	Alternate	Bob	Feinman	P											
		Educator (changed 7/2006)(Bush member 5/10)	Member	Greg	Bush		P										
		Educator (B. Martin - 9/01)	Alternate	Bruce	Martin												
		Educator (A. Martin new alternate 2/00) (Adam to college 8/01)(add. alternate 9/02) (changed 7/2006)(Bush 5/09)	Alternate	Adam	Martin												
		Fire Rescue and Emergency Services	Member	Joe	Williams												
		Fire Rescue and Emergency Services	Alternate	Don	Lynch												
		Fire Rescue and Emergency Services	Alternate	James	McLoughlin												
		Friends of Brookhaven (E.Kaplan changed to become member 7/1/01)	Member	Ed	Kaplan		P										
		Friends of Brookhaven (E.Kaplan changed to become member 7/1/01)(Schwartz added 11/18/02)	Alternate	Steve	Schwartz												
		Health Care	Member	Jane	Corrarino	P											
		Health Care	Alternate														
		Huntington Breast Cancer Coalition	Member	Mary Joan	Shea	P	P										
		Huntington Breast Cancer Coalition	Alternate	Scott	Carlin												
		Intl. Brotherhood of Electrical Workers/Local 2230 (S.Krsnak replaced M. Walker 1/11/07)	Member	Scott	Krsnak												

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		IBEW/Local 2230 (off mailing list 8/2009)	Alternate	Philip	Pizzo												
		L.I. Pine Barrens Society	Member	Richard	Amper												
		L.I. Pine Barrens Society (added P. Loris 6/05)(Alayeva off 6/08) (Itriyeva 02/09) (Motschenbacher 6/09)	Alternate	Beth	Motschenbacher	P	P										
		L.I. Progressive Coalition	Member	David	Sprintzen	P	P										
		L.I. Progressive Coalition	Alternate	None	None												
		Lake Panamoka Civic Association (Biss as of 4/02)	Member	Rita	Biss	P	P										
		Lake Panamoka Civic Association (Rita Biss new alternate as of 3/99) (Gibbons off 1/10)(Grandel added 10/10)	Alternate	Bonita	Grandel	P											
		Long Island Association (Groneman replace 10/05)	Member														
		Long Island Association (Evanzia removed 2/11)	Alternate														
		Longwood Alliance	Member	Tom	Talbot		P										
		Longwood Alliance	Alternate	Kevin	Crowley												
		Longwood Central School Dist. (switched 11/02)(Castro replaced Henigin 6/09)	Member	Maria	Castro	P	P										
		Longwood Central School Dist.	Alternate	Allan	Gerstenlauer												
		NEAR	Member	Jean	Mannhaupt												
		NEAR (prospect taken off ¾) (Blumer added 10/04)	Alternate	Karen	Blumer		P										
		NSLS User	Member	Jean	Jordan-Sweet		P										
		NSLS User (P. Stephens removed after contact regarding new address failed (mail returned 5/2010)	Alternate														
		Ridge Civic Association	Member	Pat	Henagan		P										
		Science & Technology (added 1/13/05)	Member	Iqbal	Chaudhry		P										
		Town of Brookhaven (Graves made member 6/06)	Member	Anthony	Graves	P											
		Town of Brookhaven (Ormond 9/10)	Alternate	Luke	Ormand												
		Town of Brookhaven, Senior Citizens	Member	James	Heil	P	P										
		Town of Brookhaven, Senior Citizens (open slot as of 4/99)	Alternate														
		Town of Riverhead (Conklin until 12/09)	Member														
		Town of Riverhead (K. Skinner alternate as of 4/99; removed 8/2009 after failure of request to respond)	Alternate														
		Wading River Civic Association	Member	Helga	Guthy		P										
		Wading River Civic Association	Alternate	Sid	Bail												