

**Community Advisory Council**  
**March 14, 2013**  
**Action Items/Notes**

*Final*

These notes are in the following order:

1. Attendance
2. Correspondence and Handouts
3. Administrative Items
4. BNL's Site Sustainability Overview
5. Community Comment
6. Agenda Setting
7. MAGIC Cloud Study
8. Question posed by Member Jordan-Sweet
9. Agenda Setting Brainstorming Exercise

**1. Attendance**

Members/Alternates Present: See Attached Sheets.

Others Present: N. Baggett, L. Bates, M. Bebon, S. Bogart, F. Crescenzo, N. Detweiler, K. Geiger, S. Johnson, E. Lewis, R. McKay, A. Nunziata, P. Paul

**2. Correspondence and Handouts**

Items numbered one and two were mailed to Members with a cover letter dated March 7, 2013. Item numbers three and four were available as handouts at the meeting.

1. Draft agenda for March 14, 2013
2. Draft notes for February 14, 2013
3. BNL Site Sustainability Overview presentation
4. Invitation to ISB Dedication Ceremony on April 11, 2013

**3. Administrative Items**

The meeting was called to order at 6:32 p.m. Reed Hodgkin, facilitator, reviewed the ground rules and the agenda. Those in attendance introduced themselves.

In an update to the budget issues discussed last month Nora Detweiler, liaison to the CAC, reported that the "We the People" online petition being written by the Laboratory's user group in support of RHIC is on hold until after the President's budget comes out in April.

Member Esposito invited the CAC to the Citizens Campaign for the Environment's 2<sup>nd</sup> annual Earth Summit being held at the Lab on the afternoon of April 22<sup>nd</sup>. She said the theme will be the impact of climate change on Long Island and globally. She then said the Pine Barrens Society, Nature Conservancy, Citizens Campaign for the Environment, and other groups will be launching the Long Island Clean Water Partnership on April 18th from 10-12 in Hauppauge. This will be an effort to protect our drinking water supply and our coastal waters. We will be discussing the problem, the solution, and what we can do about it.

Member Henagan said on March 23<sup>rd</sup> at 11:30 am there will be an Easter egg hunt at the Ridge town park.

Member Sprintzen said the Long Island Progressive Coalition's 34<sup>th</sup> Anniversary celebration honoring Bob Keeler is a week from Saturday.

Member Jordan-Sweet said there was an article in the Lab's Monday Memo regarding the closing of the cafeteria on weekends and she would like the CAC to have some input. The cafeteria will be closing on weekends the end of this month and they are considering completely closing the Brookhaven Center, where evening meals and alcohol are served. These amenities should be provided to users at facilities, especially with the NSLS-II coming online, which will eventually have 5,000 users per year. They will need a place to eat and sleep and will need quick access to easy meals, not a vending machine. She said she has drafted a letter to Mike Bebon asking the Lab to reconsider and has copies for anyone interested.

Hodgin said we can add this to the agenda for next month, but that will be after the change occurs.

Member Guthy said some users work through the night and for them to have to go offsite to get food would be a huge inconvenience and a waste of time.

Member Jordan-Sweet said in the summer the Lab population doubles. A lot of students stay onsite and don't have vehicles.

Member Esposito said this is not a luxury, but a necessity.

Hodgin said this could be put on the agenda for discussion later on in the meeting.

#### Approval of Minutes

Hodgin asked for corrections, additions, or deletions to the January 10, 2013 draft notes. There were none. The notes were approved as written with none opposed and one abstention.

Hodgin then asked for corrections, additions, or deletions to the February 14, 2013 draft notes. There were none. The notes were approved as written with none opposed and six abstentions.

#### **4. BNL's Site Sustainability Report, Lanny Bates – Assistant Laboratory Director for Facilities & Operations**

Lanny Bates spoke about the Laboratory's environmental footprint, strategic sustainability plan and accomplishments, modernizing with Green Infrastructure, and the National Perspective. He said the Laboratory has a long and successful history of identifying and implementing energy conservation projects. BNL's electricity use is driven by High Energy Mission-Specific Facilities. The DOE has developed a Strategic Sustainability Performance Plan which establishes goals in a wide variety of areas of sustainability and has requested that each site develop and implement a Site Sustainability Plan to flow down these goals. Updates are submitted annually with quarterly progress reviews. He spoke about the Long Island Solar Farm, transportation and vehicles, BNL's concrete crushing and recycling program, storm water management, and water usage. He talked about Leadership in Energy & Environmental Design (LEED) and the status of NSLS-II LEED. He said 93% of the Lab's carbon footprint is attributed to energy usage, so we focus a lot of our time and energy on trying to minimize that.

Member Shea asked for an explanation of cool roofs and chiller efficiency. She asked if the Lab uses geo-thermal.

Bates said the payback for geo-thermal is 20-25 years. He said steam absorption is less efficient, so we are replacing those systems. There are two criteria for cool roof – reflectivity, which reflects the sun and keeps the building cool, and R-30 insulation. All of our new buildings have it and we are upgrading our replacement roofs as much as possible.

Member Kaplan asked what steps could be taken at BNL to reduce energy usage and reach goals. How confident are you that you can reach the goals? It must be difficult to get reductions from the large facilities. If you were to list the steps to take at the specific high end physics facilities where you can make these reductions what would the major improvements be?

Bates said it is a combination of many things. Several years ago, some changes were made at the cryogenic plant at RHIC that have drastically reduced the energy usage. It's a struggle. We did a lot early on and now we have to get another 30%, but it can be done. We get credit for using renewables. We already meet the 28% greenhouse gas reduction. It's possible to have net zero buildings on new construction. These are intended to be lofty goals.

Member Esposito said you mentioned that the Long Island Solar Farm is performing better than expected.

Bates said yes, our expectations are being exceeded at the LISF.

Member Chaudhry asked what is meant by the 4.8 million square feet.

Bates said that refers to the total square footage of all the buildings onsite. He said there are 321 buildings onsite.

Member Sicignano asked if the power generated at the LISF is being used at the Laboratory.

Bates said no, it is sold back to LIPA and goes directly into the grid, but we do get credits for hosting it.

Hodgin asked, if the Site Sustainable report could be made available to staff to bring back next month.

## **5. Community Comment**

Michael Giacomaro, East Yaphank Chamber of Commerce, said he has attended three meetings and would like to request membership in the CAC under the Business category. He explained that Bob Feinman, who is currently the alternate for the East Yaphank Civic Association would become the Member.

Hodgin said the CAC will discuss the possibility of a new membership next month.

Detweiler said Giacomaro has already met the criteria for attending three meetings. Next month, we will have a discussion and vote.

The CAC welcomed Frank Crescenzo as the new DOE Site Manager.

## **6. Agenda Setting**

Hodgin asked if there is anyone that thinks the discussion on the closing of the cafeteria is not an appropriate topic for tonight's discussion. No one objected, so Hodgin said it will be added to the agenda for later in the evening. We can't do a formal recommendation, but we can survey the group.

Detweiler said the contractor doing the move of the g-2 experiment to Fermi Lab in Illinois will be here next month to explain the project. Tim Green will give a presentation and Bill Bookless will be here to clarify the Science of Politics at the Lab. He will present on what drives science policy. We will forward your ideas to him. We will also have the new membership vote.

Member Esposito asked if the CAC will get some information before deciding on the membership.

Detweiler said the request has been presented. Now there will be discussion next month and then the vote.

Hodgin said in regard to the CAC's request for a presentation on Science and Politics, the Laboratory would like more specific information on the request. Exactly what kind of information are you looking for?

Member Kaplan said he would like to know to what extent politics has to do with science at the Lab. What political games does the Lab play to do science?

Member Shea asked how the community can influence politics at the Lab.

Member Sprintzen asked if there is a problem with proprietary projects at the Lab and how it is addressed.

Member Peskin said an example of scientific politics would be stem cell research and global warming. How does the Lab go forward with these areas?

Hodgin summarized; you are looking for information on politically charged research.

Member Sprintzen asked if there are issues the Lab cannot or will not undertake.

Member Chaudhry asked about cyber security at the National and Laboratory level.

Member Sicignano said most politicians want credit if they are funding something. How can you lean on that to bring in money?

## **7. MAGIC Cloud Study, Ernie Lewis – Atmospheric Sciences Division**

Atmospheric Scientist Ernie Lewis, principal investigator for the study, explained that MAGIC was a year-long effort to study cloud transitions. The study was taking place aboard a Horizon Lines cargo ship that travels between Hawaii and Los Angeles every two weeks. Lewis spoke about the different types of clouds -- cumulus, stratocumulus, cirrus and contrail cloud formations and explained how the data was being collected and processed. He talked about the challenges of conducting the study from a moving ship.

Member Kaplan asked if the project at BNL is just data collection or if they also analyze the data.

Lewis said we do it all. Argonne is the head of the project, but, BNL does a lot of the data analysis.

Member Chaudhry asked about research on cloud formation and seeding.

Lewis said the Lab studies cloud formation, not seeding. I don't know of any National Laboratories that are doing active seeding. He said we are studying the science behind cloud formation.

Member Chaudhry said many countries are in need of rain. Why are you not studying cloud seeding?

Lewis said drought is not a product of cloud formation. We are trying to learn and get a better understanding.

Member Sicignano asked if the Lab shares information with other organizations.

Lewis said yes, we share back and forth.

Member Sprintzen asked if any work is being done to influence and change weather.

Lewis said not that he is aware of. We are doing geo-engineering of climate to slow down warming, but that's different. We can't change the weather, but we can change climate.

Member Kaplan asked about the level of funding for the project.

Lewis said every three years we do a re-evaluation. I can't give you a dollar figure because I don't know what it is. I am not in charge of the money.

#### **8. Question posed by Member Jordan Sweet**

Hodgin asked Member Jordan-Sweet to officially state her concern regarding the cafeteria contract services.

Member Jordan-Sweet said there was an article in the Lab's Monday Memo about the cost of food services at the Lab. The contract with the Lab's current food service provider, Nayyarson, is expiring, so they will be working under a six-month extension. Due to a lack of profit, they have made the decision to close weekend service at the cafeteria the end of this month and they are considering closing the Brookhaven Center completely. She realizes the necessity to cut costs in the current economy, but said food services and housing are a necessary part of providing user facilities for the researchers. It is important that they have access to food at off-hours. You can't run this as a business because it is a necessary part of doing science. This is a facility where users from around the world are invited and we should be providing for their needs.

Lanny Bates said the Laboratory has had a contract with Nayyarson for many years. They operate the cafeteria, the Brookhaven Center, the Starbucks coffee kiosk, and the catering service, which is one of their most significant money-making operations. Their contract is due to expire and we have been trying to negotiate a longer term contract, but have been unable to do so. That made it necessary for us to take some near term actions. Primarily because they do not have the business volume across the operating hours to support their operations, so they were not willing to go with an extension under the terms that we had. We decided to take some immediate corrective actions, which is what you are talking about, until we could look at the broader scope of options that we have available. We needed to communicate that to the population so that was one of the reasons for the article, the second reason we publicized it was to get feedback. We are looking at all our options and are interested in your comments. We want to look at ways to better package the contract to make it as economically viable as possible.

We believe that re-bidding the contract will give us the best opportunity. Competition is a good thing; it enables you to get new, fresh ideas. During the next few months we will be developing a procurement process around the full scope of work and we will be evaluating the proposals that we get. Nothing is set in stone. We are flexible. We intend to accommodate the business volume that is there and we plan to have the cafeteria open during Summer Sundays. We welcome your input and feedback. There simply is not the business volume right now to sustain a full cost-recovery sustainable operation over the full hours of operation and we think it's time to look at some alternatives. We will do everything we can to get a competitive contract. I hope that in the end this will be similar to what we did with the initial operations of the coffee kiosk. When we installed that, it was open until 3pm. We got a lot of feedback saying that people wanted it open later. So we stayed open until 7pm, but that was a little too late in terms of getting enough business to maintain it so we comprised and now stay open until 5pm. Our intent

is to find the right balance in all these things. The contract we have now is not the right answer. We appreciate your feedback.

Member Kaplan asked about the future of onsite housing.

Bates said it's a similar situation. Our housing inventory right now is basically 1940 barracks buildings that have been renovated through the years. Several years ago we looked into rebuilding those with an alternative finance project using private investment. In the end it would not work, the investment community was not willing to invest in that level of housing considering where we are and the proximity of other options in the area. We monitor the occupancy of our housing and over the last couple of years we had one of our consultants look at all the information. We found our most used accommodations are the one bedroom efficiencies. Over the last couple of years we have rebuilt our inventory to maximize the number of one bedroom efficiencies. We also looked at the occupancy rate and realized that we had under-utilized housing, even during the summer. We have excess housing in our inventory and we were spending money to maintain it, so we took one dormitory off-line. We removed all the cottages from the apartment area some time ago. As we did that, we increased the occupancy rate in the remaining housing. As a result of that, we generated income that we were able to invest and the money that we obtained out of that we re-invested in converting the other units into one bedroom efficiencies. I think for the most part this has been a success story. We have not turned anyone away in the last year in any substantial volume. Our intent is to extend the life of the buildings we have as much as we can and continue to tune the occupancy to match the demand.

Our longer term plan, particularly as Light Source II comes on, is to have some kind of on-site housing unit that is more on the lines of a 75-room hotel, a Hampton Inn type. This is typical of what other national laboratories have. We will continue to divest ourselves of these 2, 3, and 4 bedroom apartments that are not as well utilized as the smaller efficiency units. I'd like to hear your feedback on whether we should invest in rebuilding the housing area.

In my opinion, it's not something we should do because if we have to borrow money or use DOE programmatic dollars, I don't think housing is where the money should go. I would rather invest that in research capabilities and furthering the research agenda of this Lab and allow our residents to utilize the housing that is developed through the commercial industry. In the 5 and a half years I have been here, there are 4 new hotels that have gone up within 10-15 minutes of the Laboratory. These local hotels are looking for business and we had a deal with some of them this past summer for housing our summer students that was \$35 or \$40 per person for double occupancy because those commercial hotels had so little business that they were willing to give us a deal. Why should we go build housing with precious DOE dollars when that kind of capability exists around us? It's a balance. How do we take care of our scientists and our programs the best way we can but also make the right economic decisions for the future of the Laboratory?

Member Kaplan said one of the experiences that the user has is the Brookhaven community. People come here from all over the world and they meet others from all over the world and they meet Americans. A sense of community contributes to the overall achievement of the researchers in their work. You have happy families and happy researchers. They then go back to where they came from, but they maintain these ties. It's not just a matter of putting a person and his or her family up in a hotel room for a couple of days. There is something very unique about coming to a national laboratory, doing your work here, bringing your family, and knowing that you are part of a community.

Bates said he agrees whole-heartedly and it is part of the Brookhaven culture that does not exist anywhere else and it's a great thing. He said part of his organization that operates the complex of housing that we have does things that facilitate that. There are events that allow people to

come together and meet each and build the kind of camaraderie that you are talking about and I know it is critical. In the end, these are difficult choices that we have to make and we try to make them as well as we can. We can't accommodate all things within the budget picture.

Member Jordan-Sweet said on three occasions this year, she has had to have users of her beam line come stay at her house because they couldn't get dorm rooms. Having off-site housing in hotels works if everyone has the same kind of schedule, but beam time at the new facilities is going to be very precious and users are going to want to use their time to the fullest extent that they can, so they will need to have access to things close by. Last week she was at another facility and noticed that besides having a nice hotel, they had a full restaurant where they have catering for all their science groups. They also have a little grill at their synchrotron. Perhaps that is something to look into rather than keeping a whole cafeteria open for users to grab a quick meal.

Bates said that is a good suggestion. He said the next time you get to the point where you have to take people home with you, please let me know. I want to look into that situation. That is a unique situation.

Member Sprintzen said there seems to be some tension from your original statement with respect to energy use. Now it seems like you are farming people to surrounding hotels.

Member Guthy, who volunteered with the ESOL program onsite, said the different ethnicities stay to themselves because they don't speak English. Once they became more comfortable with each other, they all start talking to each other and are no longer afraid. Sending them away from here will cause them to stay away from each other and the average American. You should do whatever you can do to keep them here and make them comfortable. Also, as far as the food goes, would it be feasible to just keep the Center open and available?

Bates said the only thing we are stopping at the moment is weekend service in the cafeteria, the Center is still open. We will continue to operate the Center until we can determine where we are going with the contract. The business volume Monday through Thursday is not very significant. There is a lot of business on Friday night because Lab employees are using it as a gathering spot before heading home, but that's not serving the purpose of taking care of our users, visitors, and guests. It is more for employees, so we have to ask ourselves if that's the right answer.

Member Sicignano said as a civic leader, we always try to get the community involved. Everything costs something. You need to look at what you might be losing by outsourcing. You might be losing something that you wish you could get back. There is value to keeping people here.

## **9. Agenda setting brainstorming exercise**

The agenda setting brainstorming exercise was postponed to next month due the late hour.

The meeting adjourned at 9:20 p.m.

Agenda Topics  
February 10, 2011 Poll

Homeland Security – 9  
Nanotechnology Developments & Standards – 7 (3/10/2011 - E. Mendez)  
Science & Politics – 7  
Overview of BNL Land Use Plan – 6  
Sustainability – 6  
Photovoltaics – 6 (3/10/2011 - E. Mendez and R. Lofaro)  
PET/MRI Research – 6  
LISE Tour Prior to Completion – 6 (11/18/11 – ribbon cutting)  
Business/Lab Integration of New Technologies – 6 (4/14/11 – Walter Copan)  
Nano Patterning – 5  
Natural Resources Management Plan – 5 (12/8/11 – Tim Green)  
Nuclear Non-Proliferation – 4 (3/8/12 – Carol Kessler)  
Nuclear Safety – 4  
Catalysis & Super Conducting Magnets – 3  
Cosmology – 3  
Accelerate Long Island (as information becomes available) - 3  
Safety Progress – 2  
CRADAS – 2  
Radio Isotopes – 2  
Nuclear Stewardship - 1  
Technology Transfer – 0 (4/14/11 – W. Copan)

<b>P = Present</b>	<b>2013</b>	<b>Affiliation</b>		First Name	Last Name	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
		<b>ABCO</b> (Garber - 04/02)	Member	Don	Garber												
		(Madigan -10/10)	Alternate	Michael	Madigan	P											
		<b>American Physical Society</b>	Member	Margaret	Malloy	P		P									
			Alternate														
		<b>Brookhaven Retired Employees Association</b> (Peskin - 09/09)	Member	Arnie	Peskin			P									
		(Franz - 12/09)	Alternate	Eena-Mai	Franz		P	P									
		(Shapiro-1/13)	Alternate	Steve	Shapiro	P											
		<b>Citizens Campaign for the Environment</b>	Member	Adrienne	Esposito		P	P									
			Alternate														
		<b>Colonial Woods Whispering Pines</b> (Birben - 06/09)	Member	Christine	Birben		P										
		(Rehbein -11/10)	Alternate	Eric	Rehbein	P	P										
		<b>Coram Civic Association</b> (Ziems - 06/12)	Member	Paul	Ziems	P	P	P									
		(Meade – 06/12, Jim M 10/12)	Alternate	Jim	Meade												
		<b>East Yaphank Civic Association</b>	Member	Michael	Giacomaro	P	P	P									
		(Feinman - 02/09)	Alternate	Bob	Feinman	P	P	P									
		<b>Emeritus</b> (changed 3/8/12)	Member	Jean	Mannhaupt												
		<b>Friends of Brookhaven</b> (Kaplan - 07/01)	Member	Ed	Kaplan	P		P									
		(Schwartz - 11/02)	Alternate	Steve	Schwartz			P									
		<b>Huntington Breast Cancer Coalition</b>	Member	Mary Joan	Shea	P		P									
			Alternate	Scott	Carlin		P										
		<b>IBEW/Local 2230</b> (Krsnak 01/07)	Member	Scott	Krsnak	P											
			Alternate														
		<b>Individual</b> (changed 3/12)	Member	Karen	Blumer												
		(added 6/12)	Alternate	Michael	Madigan			P									
		<b>Individual</b> – (changed 3/12)	Member	Greg	Bush												
			Alternate	Adam	Martin												
			Alternate	Bruce	Martin												
		<b>Individual</b> – (changed 3/12)	Member	Jane	Corrarino			P									
			Alternate														
		<b>Individual</b> – (changed 3/12)	Member	Iqbal	Chaudhry	P		P									
			Alternate														
		<b>L.I. Pine Barrens Society</b>	Member	Richard	Amper	P	P										

<b>P = Present</b>	<b>2013</b>	<b>Affiliation</b>		First Name	Last Name	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
		(Murdocco - 04/11, deleted 6/12) (Muller added – 8/12)	Alternate	Alexandra	Muller	P		P									
		<b>L.I. Progressive Coalition</b>	Member	David	Sprintzen	P		P									
			Alternate														
		<b>Lake Panamoka Civic Association</b> (Biss - 04/02)	Member	Rita	Biss												
		(Grandal - 10/10)	Alternate	Bonita	Grandal		P										
		<b>Longwood Central School Dist.</b> (Castro -06/09)	Member	Maria	Castro												
			Alternate	Allan	Gerstenlauer												
		<b>Mastic Park Civic Association</b> (Sicignano – 6/12)	Member	John	Sicignano			P									
			Alternate	Clara	McManus												
		<b>Middle Island Civic Association</b>	Member	Tom	Talbot	P	P	P									
			Alternate	Kevin	Crowley												
		<b>NSLS Users Committee</b>	Member	Jean	Jordan-Sweet	P	P	P									
		(Ravel -02/11)	Alternate	Bruce	Ravel												
		<b>Ridge Civic Association</b>	Member	Pat	Henagan	P	P	P									
			Alternate														
		<b>Town of Brookhaven</b> (Graves - 06/06)	Member	Anthony	Graves												
			Alternate														
		<b>Town of Brookhaven, Senior Citizens Office</b>	Member	James	Heil	P		P									
			Alternate														
		<b>Town of Riverhead</b> (Doroski - 04/11)	Member	Isidore	Doroski	P											
		(Hulme - 04/11)	Alternate	Suzanne	Hulme			P									
		<b>Wading River Civic Association</b>	Member	Helga	Guthy		P	P									
			Alternate	Sid	Bail												