

**Community Advisory Council  
January 10, 2013  
Action Items/Notes**

*Final*

These notes are in the following order:

1. Attendance
2. Correspondence and Handouts
3. Administrative Items
4. Climate Change: Underlying Science & Local Impacts
5. Adopt language added to Guidelines
6. Agenda Setting
7. Community Comment
8. Annual Groundwater Update

**1. Attendance**

Members/Alternates Present: See Attached Sheets.

Others Present: L. Bates, M. Bebon, S. Bogart, N. Detweiler, W. Dorsch, K. Geiger, G. Goode, R. Hodgkin, R. Howe, S. Johnson, T. Kneitel, R. Lee, L. Mazza, R. McKay, D. Paquette, A. Rapiejko, A. Troutman

**2. Correspondence and Handouts**

Items numbered one through three were mailed to Members with a cover letter dated January 3, 2013. Items numbered four through six were available as handouts at the meeting.

1. Draft agenda for January 10, 2013
2. Draft notes for December 13, 2012
3. New revision of the Operating Guidelines
4. Climate Change – Underlying Science & Local Impacts presentation, Dr. Michael Jensen – meteorologist - Environmental Sciences Dept., BNL
5. Remediating Groundwater at BNL presentation, Bill Dorsch – manager- Groundwater Protection Group, BNL
6. Copies of the FY 2011 SER Summary

**3. Administrative Items**

Following a farewell reception for former Lab Director Sam Aronson, the meeting was called to order at 6:59 p.m. Reed Hodgkin, facilitator, reviewed the ground rules and the agenda. Those in attendance introduced themselves.

Approval of Minutes

Hodgkin asked for corrections, additions, or deletions to the December 13, 2012 draft notes. There were none. The notes were approved as written with none opposed and three abstentions.

Nora Detweiler told the CAC that former liaison Jeanne D'Ascoli will be retiring from the Laboratory at the end of January. She also noted that the CAC would be invited to attend a dedication ceremony of the ISB (Interdisciplinary Science Building) on February 26 (Editors Note: this date has been changed; information on the new date will be available soon).

Mike Bebon, Deputy Director for Operations, reported that the Laboratory is operating a Continuing Resolution budget until March. He also introduced Anne Troutman, who is replacing Michael Goldman as Brookhaven Lab's General Counsel.

Hodgin welcomed new CAC member, Steve Shapiro, and mentioned that Member Sprintzen will have a book signing on January 17<sup>th</sup> at the Book Revue in Huntington.

#### **4. Climate Change: Underlying Science & Local Impacts, Dr. Michael P. Jensen – Environmental Sciences Department, Atmospheric Sciences Division**

Mike Jensen, a meteorologist and currently the Interim Chair of BNL's Environmental Sciences Department, spoke about climate-related research at BNL. He talked about the Earth's radiative energy balance, the gases that make up the atmosphere, the increase in greenhouse gas concentrations, global warming projections, the regional impacts of global warming, and how climate change impacted Hurricane Sandy. He said there is an established scientific consensus on the presence of man-made climate change and studies suggest an increase in hurricane intensity with global warming.

Member Doroski said that there has been climate change for millions of years. What is causing it to increase?

Jensen said man-made contributions are causing it to escalate faster than naturally occurring contributions.

Member Sprintzen asked how much sea level has risen in the past 50 years.

Jensen said about one foot.

Member Madigan asked if the north-east is sinking.

Jensen said we don't know.

Member Heil asked about the life cycle of a cloud.

Jensen said after a cloud forms, it either rains out or evaporates. This can take anywhere from a couple of hours to a couple of days.

Member Talbot asked if similar atmospheric occurrences are happening elsewhere in the world.

Jensen said yes, everywhere.

Member Shapiro asked what the Lab is doing to try to reduce its carbon footprint.

Bebon said DOE has a Department-wide sustainability program and we are working to improve the energy efficiency of our buildings.

Member Shea asked Jensen if he is aware of any atmospheric programs that attempt to control weather, like the HAARP program.

Jensen said he is not familiar with that program.

#### **5. Adopt language added to Guidelines**

The CAC voted, with none opposed and no abstentions, in favor of amending the Operating Guidelines by adding the sentence, "A person may represent only one position at the table at a

meeting.” as had been discussed and informally approved at the December meeting.

## **6. Agenda Setting**

Nora Detweiler, liaison to the CAC, said next month, Doon Gibbs, Interim Laboratory Director, will give a summary presentation on the year in review. Tim Green will give a presentation on the Natural Resources Management Plan and we have re-scheduled the tour of the NSLS-II. She said there will also be another agenda setting exercise, so the Lab knows what topics the CAC is interested in learning about.

## **7. Community Comment**

There was no community comment.

## **8. Remediating Groundwater at BNL, William Dorsch – Groundwater Protection Group**

Bill Dorsch, Manager of the Groundwater Protection Group, gave the CAC an overview of the groundwater cleanup progress, updates on the groundwater treatment systems, and plume status. He summarized the highlights of the 2011 Annual Report and supplied the web link for those interested in reading it. He said the Lab is currently treating ten systems for VOCs, two Sr-90 systems, and one Tritium Pump and Recharge system. He explained the treatment system completion process and gave them the timelines. He said the systems are designed to reach a capture goal and once that is achieved, the regulators are petitioned for system shutdown. Upon approval, the extraction wells are turned off and maintained in standby mode for several years. If there is no rebound in contamination concentrations, the regulators are petitioned for approval to shut down the system. After that, the equipment is decommissioned, wells are abandoned, and there is limited continued monitoring.

Dorsch reported that the Industrial Park East Pump and Treat system is currently in shut-down mode. Capture goals were achieved in 2009 and we have not seen any rebound, so we will be petitioning the regulators to shut that system down in 2013. We have discontinued the monitoring of the natural attenuation of OU V Sewage Treatment Plant VOC Plume, with the exception of one area. We plan to petition for shutdown of the OU I South Boundary and the OU III Industrial Park systems in 2013. We plan to petition for closure of the OU III Industrial Park East and shutdown of the OU III North Street system in 2013.

In November 2012 the HFBR Tritium Pump and Recharge system was placed back in standby mode after being restarted in 2007. There have been no significant changes at the four extraction wells that were installed in 2010 at the BGRR Sr-90 system, so this will be re-evaluated in 2013. He said we will continue to monitor the g-2 Tritium Plume and it is expected to naturally attenuate within a short time.

A new extraction well has been in continuous operation since March 2012 for the Bldg. 452 Freon-11 plume that was detected in 2011 and there has been a significant reduction in concentrations at that well.

Overall, the Laboratory is making good progress on remediating groundwater and is on target to achieve cleanup goals. Plume remediation is a dynamic process with ongoing modifications and proposed changes that are reviewed by the regulatory agencies. We will continue to keep the regulators and community stakeholders informed about cleanup progress, issues, and the modifications and changes planned for 2013.

Member Ziems said if we consider that back in 1996 and 1997 there was 100% pollution. What would you say the level is at now?

Dorsch said; I would estimate it at 30-40%.

The meeting adjourned at 9:08 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											
			Alternate														
		<b>Brookhaven Retired Employees Association</b> (Peskin - 09/09)	Member	Arnie	Peskin												
		(Franz - 12/09)	Alternate	Eena-Mai	Franz												
		(Shapiro-1/13)	Alternate	Steve	Shapiro	P											
		<b>Citizens Campaign for the Environment</b>	Member	Adrienne	Esposito												
			Alternate														
		<b>Colonial Woods Whispering Pines</b> (Birben - 06/09)	Member	Christine	Birben												
		(Rehbein -11/10)	Alternate	Eric	Rehbein	P											
		<b>Coram Civic Association</b> (Ziems - 06/12)	Member	Paul	Ziems	P											
		(Meade – 06/12, Jim M 10/12)	Alternate	Jim	Meade												
		<b>East Yaphank Civic Association</b>	Member	Michael	Giacomaro	P											
		(Feinman - 02/09)	Alternate	Bob	Feinman	P											
		<b>Emeritus</b> (changed 3/8/12)	Member	Jean	Mannhaupt												
		<b>Friends of Brookhaven</b> (Kaplan - 07/01)	Member	Ed	Kaplan	P											
		(Schwartz - 11/02)	Alternate	Steve	Schwartz												
		<b>Huntington Breast Cancer Coalition</b>	Member	Mary Joan	Shea	P											
			Alternate	Scott	Carlin												
		<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												
		<b>Individual</b> – (changed 3/12)	Member	Greg	Bush												
			Alternate	Adam	Martin												
			Alternate	Bruce	Martin												
		<b>Individual</b> – (changed 3/12)	Member	Jane	Corrarino												
			Alternate														
		<b>Individual</b> – (changed 3/12)	Member	Iqbal	Chaudhry	P											
			Alternate														
		<b>L.I. Pine Barrens Society</b>	Member	Richard	Amper	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											
		<b>L.I. Progressive Coalition</b>	Member	David	Sprintzen	P											
			Alternate														
		<b>Lake Panamoka Civic Association</b> (Biss - 04/02)	Member	Rita	Biss												
		(Grandal - 10/10)	Alternate	Bonita	Grandal												
		<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												
			Alternate	Clara	McManus												
		<b>Middle Island Civic Association</b>	Member	Tom	Talbot	P											
			Alternate	Kevin	Crowley												
		<b>NSLS Users Committee</b>	Member	Jean	Jordan-Sweet	P											
		(Ravel -02/11)	Alternate	Bruce	Ravel												
		<b>Ridge Civic Association</b>	Member	Pat	Henagan	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											
			Alternate														
		<b>Town of Riverhead</b> (Doroski - 04/11)	Member	Isidore	Doroski	P											
		(Hulme - 04/11)	Alternate	Suzanne	Hulme												
		<b>Wading River Civic Association</b>	Member	Helga	Guthy												
			Alternate	Sid	Bail												