

**Community Advisory Council
May 10, 2018
Action Items/Notes**

Final

These notes are in the following order:

1. Attendance
2. Correspondence and Handouts
3. Administrative Items
4. Groundwater Update
5. Agenda Setting
6. Nonproliferation and National Security at BNL
7. Community Comment

1. Attendance

Members/Alternates Present: See Attached Sheets.

Others Present: J. Carter, B. Dorsch, P. Genzer, D. Gibbs, B. Howe, R. McKay, A. Ozelis, D. Paquette, S. Pepper, V. Racaniello, J. Remien, N. Sundin, R. Tribble

2. Correspondence and Handouts

Items numbered one and two were e-mailed to Members on May 3, 2018. Items numbered three and four were available as handouts at the meeting.

1. Draft agenda for May 10, 2018
2. Draft notes from the March 8, 2018 meeting
3. Copy of Presentation: Groundwater Update
4. Copy of Presentation: Nonproliferation and National Security programs at BNL

3. Administrative Items

The meeting was called to order at 6:30 pm. Michael White, facilitator, welcomed everyone to the meeting. He reviewed the ground rules and draft agenda and those present introduced themselves.

Member Ziems said he would be interested in a presentation on Solar Energy.

Approval of Minutes

The March notes were approved as written with none opposed and two abstentions.

4. Groundwater Update, Bill Dorsch, Manager – Groundwater Protection Group

Dorsch spoke about modifications to the Western South Boundary Treatment system. He said modification designs will be submitted to the regulators at the end of May for four new pump and treat extraction wells. Construction is expected to begin in June and they should be operational in September.

Member Krupski asked how much water will be pumped through the four additional extraction wells.

Dorsch said each well pumps about 75-100 gallons per minute, so a total of 300-400 gallons per minute in total for the four wells.

Dorsch said Ethylene Dibromide (EDB) concentrations in well 000-394 remains above drinking water standards, so seven new temporary vertical profile wells have been installed. We are continuing to characterize the extent of EDB in this area.

Member Krupski asked what the source is.

Dorsch said we do not know. We are drilling down into the clay area and sampling every 10 feet.

Member Bowerman asked where these wells will be located.

Dorsch said it is part of the AVR property; we have paid for leasing rights on AVR property.

White asked if this affects the water supply in that area.

Dorsch said no, this whole area will be connected to Suffolk county water.

He said testing in 2017 detected Perfluorinated Compounds (PFCs) in three of BNL's potable supply wells. Several possible sources from the 70's and 80's have been identified. A plan is being submitted to the regulators for temporary wells to be installed to determine distribution of PFCs.

Dorsch then spoke about the remaining soil remediation at the Former Waste Concentration Facility. Demo and soil cleanup was completed in 2016 to help reduce the environmental liability risk to soil and groundwater. Cs-137 was the primary contaminant in the soil. A closeout report was submitted to the regulators in October 2016 documenting that the cleanup goals were met. One area of surficial contamination north of the excavation area that was not in the original scope remains and is currently radiologically posted and under institutional controls. He said planning is underway to excavate the remaining areas exceeding the residential cleanup goal of 12 pCi/g for Cs-137. Excavation and disposal is planned for this summer and there are plans for a parking area/cap once cleanup is completed.

Member Esposito asked what the depth to groundwater is.

Dorsch said 25-30 feet.

Member Ziems asked where the contaminated soil will go.

Dorsch said Energy Solutions in Utah.

Member Esposito asked how much soil will be removed.

Remien said about 370 cubic feet.

5. Agenda Setting

Nora Sundin said George Clark, Brookhaven Lab CFO, will present on doing business at BNL at the June CAC meeting. There will be a quick update on the prescribed burns planned for onsite by Kathy Schwager. We would also like to have a discussion with members on how we can improve the CAC moving forward. We are looking for your input. Then in September, we will have a 20 year anniversary celebration for the CAC. I will be sending out a Save the Date.

6. Nonproliferation and National Security programs at BNL, Susan Pepper – Chair, Nonproliferation and National Security Division

Susan Pepper spoke about nuclear safeguards, which are the activities undertaken to account for and control nuclear material. She said the definition of nonproliferation is preventing the increase of weapons.

Pepper said the IAEA (International Atomic Energy Agency) was established in 1957 to promote the peaceful use of nuclear power and prevent the spread of nuclear weapons. There are currently about 180 member states providing financial support. It is a monitoring agency that reports to the United Nations Security Council. She then spoke about the NPT (Treaty on Nonproliferation of Nuclear Weapons) which entered into force in 1970 to enable the IAEA to perform comprehensive safeguards inspections and establish nuclear weapons states and non-nuclear weapons states. The event on September 11, 2001 increased attention on US borders and domestic security. As a result, the US created the Department of Homeland Security to centralize domestic security efforts.

Member Esposito asked how you can tell if a country has exceeded the allowable limit for nuclear power.

Pepper said the IAEA can take samples and measurements during unannounced inspections.

7. Community Comment

White asked for comments from the community. There were none.

The meeting adjourned at 8:06 PM.

Next meeting: June 14, 2018

CAC Agenda Setting Exercise – March 8, 2018

TOPICS

Solar Research/BNL Solar Farm	14
BNL Expenditures, Priorities, Function	10
BNL Business Connectivity – Doing business with BNL	10
Energy Production Innovation (open to public forum at BNL)	9
Biofuels	9
NYS Power Grid	8
Medical Radioisotopes	5
Brookhaven Women in Science (BWIS)	5
Holographic Principles of Quantum Mechanics	4
Research related to Cancer cures	4
Top Ten Scientific Discoveries	4
Update on Prion Research	3

				Jan	Feb	Mar	Apr No mtg.	May	June	July No mtg.	Aug No mtg.	Sep	Oct	Nov	Dec
P = Present	2018	Affiliation	First Name	Last Name											
		ABCO – Civic (Garber - 04/02) (Bevington – 6/14) (Keenan-10/14)	Member	Ray	Keenan			P	P						
		(Madigan -10/10)	Alternate	Michael	Madigan	P									
		American Physical Society – Business & Labor	Member	Reinhart	Schuhmann			P							
		(Schuhmann 1/14, member 9/15)	Alternate	Donavan	Hall	P									
		Brookhaven Coalition of Chambers of Commerce – Bus & Labor (added 6/15)	Member	Ron	Trotta				P						
		Brookhaven Retired Employees Association- BNL (Peskin - 09/09)(Franz 1/17)	Member	Eena-Mai	Franz	P	P	P		P					
		(Franz - 12/09)(Israel 1/17)	Alternate	Mark	Israel	P									
		(Shapiro-1/13)	Alternate	Steve	Shapiro										
		Citizens Campaign for the Environment – Advocacy & Environment	Member	Adrienne	Esposito	P	P	P		P					
		(Somma 11/16)	Alternate	Harry	Somma										
		Colonial Woods Whispering Pines – Civic (Birben - 06/09) (O’Neal 01/15, removed 10/15)	Member												
		(Rehbein -11/10)	Alternate	Eric	Rehbein										
		Coram Civic Association (Ziems - 06/12)	Member	Paul	Ziems	P		P		P					
		(Meade – 06/12, Jim M 10/12, Turk 1/16)	Alternate	Rosa	Turk			P	P		P				
		East Yaphank Civic Association	Member	Michael	Giacomaro	P	P	P							
		(Feinman - 02/09 – 11/15)(Mack 11/15)	Alternate	Catherine	Mack			P	P		P				
		Emeritus (changed 3/8/12)	Member	Jean	Mannhaupt										
		Foundation for Economic Education – Ed, Sci, & Tech (5/14)(Martin – 10/14)	Member	Bruce	Martin			P	P						
		(Pratka – 10/14)	Alternate	Craig	Pratka	P									
		Friends of Brookhaven- BNL (Kaplan 07/01–11/15)(Bowerman 11/15)	Member	Biays	Bowerman	P		P		P					
		(Schwartz - 11/02) (Ocko added 11/15)	Alternate	Steve	Schwartz			P			P				
			Alternate2	Ben	Ocko										
		Huntington Breast Cancer Coalition – Health-Based Rep	Member	Mary Joan	Shea			P							
			Alternate	Scott	Carlin										
		Individual	Member	Jane	Corrarino										
		Individual	Member	Karen	Blumer										
		Individual	Alternate	Michael	Madigan			P	P						
		L.I. Pine Barrens Society – Advoc & Env	Member	Richard	Amper										
		(Murdocco - 04/11, deleted 6/12) (Muller added – 8/12)(Katie Rose Leonard added – 6/13)(Muether added – 5/15)	Alternate	Katie	Muether	P		P		P					
		L.I. Progressive Coalition – Advoc & Env	Member	David	Sprintzen	P	P			P					

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P = Present	2018	Affiliation	First Name	Last Name											
			Alternate												
		Lake Panamoka Civic Association (Biss - 04/02)(Staddon 10/17)	Member	Richard	Staddon										
		(Grandal - 10/10)	Alternate	Bonita	Grandal										
		Longwood Central School Dist. – Ed, Sci, & Tech (Castro -06/09)(Adams 9/15)	Member	Tracy	Adams										
		(Gerstenlauer removed & Sterne added 5/14 removed 9/15)(Infranco1/17)	Alternate	Paul	Infranco										
		Mastic Park Civic Association (Sicignano – 6/12)	Member	John	Sicignano		P	P							
			Alternate	Clara	McManus										
			Alternate	Joe	May										
		Middle Island Civic Association (Filler 2/17)	Member	Martin	Filler	P	P	P		P					
		(Nowak 01/15 – 5/15)(Malloy 9/15)	Alternate	Margaret	Malloy										
		NSLS-II User Committee – BNL	Member	Jean	Jordan-Sweet	P	P	P		P					
		(Ravel -02/11-9/15)(Bohon added 11/15)	Alternate	Jen	Bohon										
		Ridge Civic Association (Henagan removed 9/15)(Chattaway added 10/15)	Member	Wesley	Chattaway	P	P			P					
		Suffolk County Legislature 1st Dist. - Government (added 6/15)	Member	Al	Krupski			P		P					
			Alternate	John	Stype	P									
		Teachers Federal Credit Union – Bus & Labor (Murdocco 3/15) (Stafford 1/18)	Member	Christine	Stafford	P	P			P					
			Alternate												
		Town of Brookhaven (Graves – 06/06) (removed 1/2015)	Member												
			Alternate												
		Town of Brookhaven, Senior Citizens Office - Government	Member	James	Heil	P	P			P					
			Alternate												
		Town of Riverhead - Government (Doroski - 04/11)	Member	Isidore	Doroski	P		P							
		(Hulme - 04/11 - 4/14)(Janis Rottkamp 04/16)	Alternate	Janis	Rottkamp					P					
		Wading River Civic Association (Rundlett 09/16)(Kneitel 02/17)	Member	Terri	Kneitel	P				P					
		(Bail and Guthy removed 11/2016)	Alternate	Linda	Rundlett		P								