

**Community Advisory Council
January 10, 2019
Action Items/Notes**

Final

These notes are in the following order:

1. Attendance
2. Correspondence and Handouts
3. Administrative Items
4. BNL Update on CAC Request Letter
5. Annual Groundwater Update
6. Agenda Setting
7. A Decade of Discovery: 10 Years of Nanoscience at the CFN
8. Community Comment

1. Attendance

Members/Alternates Present: See Attached Sheets.

Others Present: J. Anderson, J. Carter, S. Coleman, B. Dorsch, M. Fallier, P. Genzer, D. Gibbs, R. Gordon, J. Granzen, T. Green, R. Howe, D. Manning, R. McKay, D. Paquette, V. Racaniello, R. Reeder, J. Remien, N. Sundin, R. Tribble, J. Wanlass

2. Correspondence and Handouts

Items numbered one and two were e-mailed to Members on January 3, 2019. Items numbered three through four were available as handouts at the meeting.

1. Draft agenda for January 10, 2019 meeting
2. Draft notes from the December 13, 2018 meeting
3. Copy of presentation: Annual Groundwater Update
4. Copy of presentation: A Decade of Discovery: 10 Years of Nanoscience at the CFN

3. Administrative Items

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

Doon Gibbs, Laboratory Director, told the CAC that Brookhaven Lab recently received its performance grades from the Department of Energy (DOE). He said the DOE measures the performance of all the Labs and BNL did extremely well this year. There were eight goals that were measured and BNL received a grade of A in seven of them. This guarantees that the Lab's contract with BSA's will be extended for another year. This is a partnership with the DOE. We work together on our goals and then they grade us.

Bob Gordon, DOE Site Manager, said these grades are important and stressed that the Laboratory received a grade of A in leadership, which says a lot about the Lab's management

team. It is not easy to get a grade of A in leadership. The DOE has great confidence in the leadership team at BNL.

Member Sprintzen said there was a Newsday article recently which commented on the letter the CAC had written to the Laboratory. He said it was a series of misperceptions and the CAC needs to be more careful about how they represent themselves and the Lab.

Member Keenan said he did not get that impression and said any misperceptions could be coming from the reporter and not the contents of the letter.

Member Corrarino said we cannot control how the press reports. Certain things that were printed did not accurately represent the transparency of the Lab, but the letter was well written.

Member Esposito said we need to be careful in censoring and editing ourselves. It is challenging to have reporters write what you think they should.

Member Jordan Sweet asked if the article could be posted somewhere since she did not see it.

Hodgin said, yes. We will send it out to all Members.

***ACTION ITEM: Provide copies of Newsday article to CAC Members.**

Approval of Minutes

The December notes were approved as written with none opposed and three abstentions.

BNL Update on CAC Request Letter

Jason Remien, Manager – Environmental Protection Division, said the Lab is continuing to work with the regulators on the CAC's recommendation to test private wells on properties south of the Lab for PFAS. Since we last met, the DOE received a written request from the County to test those potential wells on 97 off-site properties. We are asking for additional information regarding this request, so we can fully understand the scope of the request, which includes the locations of those properties. In the meantime, we are continuing our onsite investigation of PFAS. We are working closely with the EPA, the County, and the State on next steps. We are currently implementing Phase 3 of the PFAS characterization, which includes comprehensive sampling of the onsite treatment system and sampling our effluent at the waste treatment facility. Forty-five additional monitoring wells and several new vertical profile wells have been installed. We appreciate your continued engagement and feedback and we will continue to keep you informed.

Member Keenan asked how much more time is needed before a decision is made.

Remien said we are working as quickly as possible. I can't give you an exact amount of time.

Member Sicignano asked if the decision they are working on is whether or not to test those wells.

Remien said yes.

Member Heil asked if the Lab would be using a private water testing service.

Remien said yes, we do not have a lab onsite to test for this.

Member Esposito asked if it is known yet how many private wells there are.

Remien said there are 97 properties. We do not know yet how many wells are on those properties.

Member Esposito said it could be only 20. Does the number of actual wells factor in?

Remien said it is all part of the decision-making process, including characterization onsite.

Member Filler said he thought Suffolk County Water Authority was going to send a letter to the homeowners requesting information, so we could find out how many private wells are there.

Member Esposito said the Health Department was supposed to send a letter out. I don't know where they are with that.

Hodgin said we will try to get an answer as to whether the Department of Health has gone out to contact the homeowners or not.

***ACTION ITEM: Find out and let the CAC know if the Dept of Health has attempted to contact the owners of those 97 properties.**

Remien said that is part of the information we are looking into.

Member Corarrino asked if this is an internal decision between the Lab and the DOE?

The Lab is working with the DOE and BSA on making a decision.

Member Pratka asked for clarification that this contamination is from firefighter foam.

Remien said yes, that is the main source. This is not just a BNL problem, it is a Nationwide issue.

Member Keenan asked if the CAC will continue to be updated on a monthly basis.

Remien said yes.

Hodgin said next month you will receive another update.

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

Bill Dorsch said no new impacts to groundwater were detected during 2017 from active research and support facilities. He said that once the capture goal for a system has been achieved, the regulators are petitioned for system shutdown. Upon approval, the extraction wells are turned off and maintained in standby mode for several years and monitored for rebound. When concentrations are documented to remain low and stable, the regulators are petitioned for system closure.

He said there are currently ten systems operating, six systems are approved for shut-down, and three are decommissioned.

Member Esposito asked about the status of the OU I South Boundary Sr-90 plume. She asked what the half-life is of Sr-90.

Dorsch said at this point, we are allowing it to naturally attenuate. The half-life is 28 years.

Esposito asked what the peak concentrations near the HFBR are.

Dorsch said the highest concentration was 57,000 pC/L in 2017.

Dorsch said Phase 1 of PFAS characterization in source water contributing areas for BNL potable supply wells was completed in May 2018. Phase 2 characterization at eight known firefighting foam release areas was completed in November 2018 and Phase 3 characterization of treatment systems, landfills, and site boundary areas began in December 2018.

Member Bowerman asked if the flow of PFAS is mimicking the VOC plumes.

Dorsch said the flow is influenced by the extraction wells.

5. Agenda Setting

Nora Sundin, liaison to the CAC, said next month, there will be a presentation given by Tim Green on Deer Management, an update on the request for private well sampling, and a biology presentation by either John Shanklin or Martin Schoonen.

Hodgin asked if there were any other suggestions from CAC members.

There were none.

6. A Decade of Discovery: 10 Years of Nanoscience at the CFN – Chuck Black, Director – Center for Functional Nanomaterials

Chuck Black said the Center for Functional Nanomaterials is a national user facility operated for the DOE and is one of five DOE Nanoscale Science Research Centers. It started user operations in 2008 and is a resource for the world. He spoke about how the CFN impacts society by understanding and improving materials. He said they recently celebrated their ten-year anniversary and then introduced Priscilla Antunez, Assistant Director for Strategic Partnerships, to the CAC. Antunez said she joined the CFN three days before the 10-year celebration and she spoke a little about her background. Black said the CFN has had 10 years of successful nanoscience operations and spoke about the top ten CFN discoveries. He said the CFN supports an instrument for nanoscale 3D printing and showed a picture of a nanoscale Statue of Liberty that has detail only visible through a microscope. He said each year the CFN has an “Image Challenge” competition open to CFN staff and users. Winning images are framed and permanently displayed in the CFN. He spoke about the Glass Menagerie, which allows scientists to view and understand their data in new ways and the viewer to experience virtual reality. He said the CFN has come a long way, but its most impactful work is still to come. CFN is making nanoscience discoveries with the potential to improve our world. He said CFN method of “synthesis by assembly” is used to nanostructure glass surfaces to eliminate reflections making it “invisible”. We are a basic science lab, not a marketing facility, so we need partners to bring our discoveries to the market. Partnerships will always underlie CFN success and the LI community is an important CFN partner. You are all welcome to visit us.

Member Ziems said there are commercial applications for the invisible glass.

Black said it seems like there are many applications for its use.

Hodgin suggested a field trip to the CFN in the future for the CAC and more information on partnerships.

7. Community Comment

There was no community comment.

The meeting adjourned at 9:01 PM

Next meeting: February 14, 2019

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	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									
		(Madigan -10/10)	Alternate	Michael	Madigan										
		American Physical Society – Business & Labor	Member	Reinhart	Schuhmann										
		(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									
		(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									
		(Somma 11/16)	Alternate												
		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									
		(Meade – 06/12, Jim M 10/12, Turk 1/16)	Alternate	Rosa	Turk	P									
		East Yaphank Civic Association	Member	Michael	Giacomaro										
		(Feinman - 02/09 – 11/15)(Mack 11/15)	Alternate	Catherine	Mack										
		Emeritus (changed 3/8/12)	Member	Jean	Mannhaupt										
		Foundation for Economic Education – Ed, Sci. & Tech (5/14)(Martin – 10/14)	Member	Bruce	Martin										
		(Pratka – 10/14)	Alternate	Craig	Pratka	P									
		Friends of Brookhaven- BNL (Kaplan 07/01–11/15)(Bowerman 11/15)	Member	Biays	Bowerman	P									
		(Schwartz - 11/02) (Ocko added 11/15)	Alternate	Steve	Schwartz										
			Alternate2	Ben	Ocko										
		Huntington Breast Cancer Coalition – Health-Based Rep	Member	Mary Joan	Shea										
			Alternate	Scott	Carlin										
		Individual	Member	Jane	Corrarino	P									
		Individual	Member	Karen	Blumer										
		Individual	Alternate	Michael	Madigan										
		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) (Wolf added-1/19)	Alternate	Ryan	Wolf	P									
		L.I. Progressive Coalition – Advoc & Env	Member	David	Sprintzen	P									

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			Alternate												
		Lake Panamoka Civic Association (Biss - 04/02)(Staddon 10/17)	Member	Richard	Staddon	P									
		(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									
			Alternate	Clara	McManus										
			Alternate	Joe	May										
		Middle Island Civic Association (Filler 2/17)	Member	Martin	Filler	P									
		(Nowak 01/15 – 5/15)(Malloy 9/15)	Alternate	Margaret	Malloy										
		NSLS-II User Committee – BNL	Member	Jean	Jordan-Sweet	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									
		Suffolk County Legislature 1st Dist. - Government (added 6/15)	Member	Al	Krupski										
			Alternate	John	Stype										
		Teachers Federal Credit Union – Bus & Labor (Murdocco 3/15) (Stafford 1/18)	Member	Christine	Stafford	P									
			Alternate												
		Town of Brookhaven (Graves –06/06) (removed 1/2015)	Member												
			Alternate												
		Town of Brookhaven, Senior Citizens Office - Government	Member	James	Heil	P									
			Alternate												
		Town of Riverhead - Government (Doroski - 04/11)	Member	Isidore	Doroski										
		(Hulme - 04/11 - 4/14)(Janis Rottkamp 04/16)	Alternate	Janis	Rottkamp										
		Wading River Civic Association (Rundlett 09/16)(Kneitel 02/17)	Member	Terri	Kneitel										
		(Bail and Guthy removed 11/2016)	Alternate	Linda	Rundlett										