

**Community Advisory Council
October 13, 2022
Action Items/Notes**

Final

Note: This meeting was held virtually. A video recording of the Zoom meeting is available.

These notes are in the following order:

1. Attendance
2. Correspondence and Handouts
3. Administrative Items
4. Environmental Updates
5. 2021 Site Environmental Report
6. Introduction to Nuclear and Particle Physics Directorate
7. Agenda Setting
8. Community Comment

1. Attendance

Members/Alternates Present: See Attached Sheets.

Others Present: J. Amram, J. Anderson, A. Engel, H. Gao, P. Genzer, D. Gibbs, S. Gonzalez, K. Green, T. Green, R. Hodgkin, R. Howe, D. Manning, R. McKay, A. Morocho, A. Ozelis, D. Paquette, D. Pocze, A. Rapiejko, J. Remien, J. Wanless

2. Correspondence and Handouts

Items numbered one and two were e-mailed to Members on October 6, 2022. Items numbered three and four were e-mailed to Members on October 13, 2022.

1. Draft agenda for October 2022 meeting
2. Draft notes from the September 2022 meeting
3. Copy of presentation: 2021 Site Environmental Report
4. Copy of presentation: Introduction to Nuclear and Particle Physics Directorate

3. Administrative Items

The meeting was called to order at 6:30 p.m. Reed Hodgkin, facilitator, welcomed everyone to the Zoom virtual meeting. He reviewed the ground rules and draft agenda.

David Manning welcomed the CAC and told them that Steve Coleman from the Lab will be moving on to Los Alamos Lab next month and we wish him well. Manning said there have been some positive developments regarding the budget for the Lab. He then said Bob Crease is ready to launch his second book about the Laboratory, we have not been given an advance copy so we don't know what it entails, but he will be doing a public book launch at Vanderbilt planetarium on Oct 27 at 7PM. The title of his book is: The Leak: Politics, Activists, and Loss of Trust at Brookhaven National Laboratory. Manning then said we are hoping to have an in-person CAC meeting in November, but if that happens it will be hybrid so you will still have the opportunity to join virtually if you prefer.

Doon Gibbs said Suffolk County is currently in a medium level for COVID transmission with about 50% of BNL staff reporting onsite each day. He said the Deputy Secretary of Energy, David Turk, with his chief of staff visited the Lab today. We are also looking forward to a visit by the Undersecretary for Science and Innovation, Geri Richmond in a few weeks. Gibbs then said, the inflation reduction act was passed recently with positive results for the Lab. We have already received over 200M\$. for several projects, including the EIC, and NSLS II beamlines and instrumentation at the nano center. He said the CHIPS bill is mostly an authorization bill so until it passes appropriations, funding doesn't get delivered, but it is quite significant for BNL. We will wait and see what happens with that.

Hodgin said we have a few visitors this evening. He then introduced Ms. Juliette Amram and asked her to speak a bit about herself.

Amram said she is a senior at Commack high school and interested in pursuing a career in the STEM field. She is very interested in tonight's meeting.

Hodgin said the five-year renewal process for CAC members will start next week and affects all our members except the newest ones. You will be asked to let the Lab and CAC know if you are interested in renewing your membership for another five years and you will also name your alternate member for the next five-year period. You will be receiving emails early next week which will ask for a response from you. Please be sure to respond to that email because that will be for the record, and we will take care of the process at the November meeting.

Member Israel asked about a comment last month from Bob Tribble that said, the Lab is using hydrogen energy as opposed to natural gas. He asked what group is taking on that project.

Jack Anderson said the energy photon sciences is considering it. We are not sure if it will turn into anything, but this is part of Jim Misewich's directorate.

Manning said it is tentative right now.

Member Schuhmann said he recently attended the Citizen's Campaign for the Environment's event for offshore wind companies, and it was very interesting. He passed the information to his local civic association.

Member Esposito said one of the roles of CCE is to get more science-based facts out there and the role it can play for Long Island and for transitioning from fossil fuels to offshore wind. We are also having a congressional candidate climate change discussion via Zoom night next week. If anyone is interested, she would be happy to provide that information to the CAC.

Approval of minutes:

The September 2022 CAC action items and notes were approved with none opposed and 3 abstentions.

4. Environmental Updates

Jason Remien said the last part of the demolition of the Brookhaven Medical Research Reactor is the disposal of the waste. The rail cars have not left the site yet, but they are all labeled and ready to go. Final arrangements are being made and they should be shipped out by the next meeting to Energy Solutions in Utah.

5. 2021 Site Environmental Report – Jason Remien

Jason Remien gave the CAC an overview of the 2021 SER (Site Environmental Report). He spoke about the cover and said it was to recognize the work done on the stack demolition. He said the SER is required by DOE and is the official record of BNL's environmental impact. It serves as the principal environmental communications vehicle and it showcases BNL's excellence as a leader in the reporting field. Remien covered the following sections of the SER:
Chapter 2 – Environmental Management System, Waste generation
Chapter 3 - Compliance Status Overview, Spills and Reportable Incidents, and Inspections and Assessments
Chapter 4 - Air Quality (Radiological and non-radiological)
Chapter 5 - Water Quality (Radiological and non-radiological Monitoring)
Chapter 6 - Natural and Cultural Resources, Cultural Resource Management
Chapter 8 - Radiological Dose Assessment

Member Schuhmann asked why the central steam emissions dropped so much in 2021.

Remien said it could be many reasons, a lot depends on the weather. It was not as cold, so there would be less of a heating demand. A lot depends on how much natural gas was burned.

Member Esposito asked if there was any detection of Cs-137 in the Peconic River.

Remien said Cs-137 was non-detect.

Member Keenan asked if the Lab is doing any monitoring of the southern pine beetle.

Remien said yes, it is a big problem and has an impact on wildfires. The southern pine beetle is getting a lot of attention and we will be focusing more on it in the future. A lot of pine trees in the RHIC ring are impacted.

Tim Green said Kathy Schwager has been working with the USDA forest service to identify potential management and funding opportunities.

Member Pavacic asked what type of work is being done regarding invasive species. He asked about the spotted lantern fly and what is happening with endangered and threatened species.

Remien said a lot of those are covered in detail in the report.

Green said we are not able to manage a lot of the invasive species aside from mowing. We have not seen spotted lantern flies onsite yet. Hopefully we will have a cold winter, so they won't become an issue. He said the Lab monitors endangered species, especially the tiger salamander. We have been looking for the northern long eared bat, but unfortunately, have not caught any.

Member Ziems asked why tolytriazole is being replaced.

Remien said the chemical is an industry standard. It is the best chemical for preventing corrosion of copper systems. Recently, there has been much lower flow at the Sewage Treatment Plant due to Covid and lower number of people on site. The other reason is we need to comply with legionnaires disease requirements. If there is more of the chemical being discharged it causes us go above the SPDES limit. Our only choice was to stop using it. because there is no substitute.

6. Introduction to Nuclear and Particle Physics Directorate – Haiyan Gao

David Manning introduced Haiyan Gao. He said she has been at the Lab for a little over a year now.

Haiyan gave the CAC some background information on herself. She explained the mission of the Nuclear and Particle Physics directorate. She spoke about high energy physics, and nuclear physics.

Haiyan talked about RHIC (Relativistic Heavy Ion Collider), NSRL (NASA Space Radiation Laboratory), BLIP (Brookhaven Linac Isotope Producer), and the EIC (Electron Ion Collider).

Member Keenan asked for an explanation of spin.

Gao said spin is related to a moving charge.

Member Israel asked what will happen to isotope production and NSRL once RHIC is converted to the EIC.

Gao said we will continue to produce isotopes and run NSRL. In fact, we will do even more. One of the benefits of the EIC is it will allow us to continue to use the infrastructure. Not just the facility but also expertise, including workforce.

7. Agenda Setting

Amy Engel, Stakeholder Relations office, said in November we will have an update on the groundwater status and a presentation on sustainability, which will be broken down into three sections: procurement, green buying and buildings, and our fleet. There was also a request for an update on solar, which we are still working on.

8. Community Comment

There was no community comment.

The meeting adjourned at 8:48PM

Next meeting: November 10, 2022

X = Present	2022	Affiliation		First Name	Last Name	Jan No mtg	Feb No mtg	Mar	Apr	May	June No mtg	July No mtg	Aug No mtg	Sep	Oct	Nov	Dec
		ABCO – Civic	Member	Ray	Keenan			X	X	X				X	X		
			Alternate	Michael	Madigan			X	X								
		American Physical Society – Business & Labor	Member	Reinhardt	Schuhmann			X	X					X	X		
			Alternate														
		Brookhaven Coalition of Chambers of Commerce – Business & Labor	Member	Ron	Trotta									X			
			Alternate	Carmine	Inserra												
		Brookhaven Retired Employees Association- BNL Affiliation	Member	Mark	Israel			X	X	X				X	X		
			Alternate	Eena-Mai	Franz												
			Alternate2	Steve	Shapiro												
		Citizens Campaign for the Environment – Advocacy & Environment	Member	Adrienne	Esposito			X	X	X				X	X		
			Alternate														
		Colonial Woods Whispering Pines – Civic	Member	Jane	Koropsak			X	X						X		
			Alternate														
		Coram Civic Association - Civic	Member	Paul	Ziems			X	X	X				X	X		
			Alternate	Rosa	Turk			X	X	X					X		
		East Yaphank Civic Association - Civic	Member	Robert	Feinman			X	X	X				X			
			Alternate	Catherine	Mack												
		Emeritus	Member	David	Sprintzen			X	X	X				X			
		FOREST - Advocacy & Environment	Member	John	Pavacic				X	X					X		
			Alternate														
		Foundation for Economic Education – Education, Science & Technology	Member	Bruce	Martin				X	X				X			
			Alternate	Craig	Pratka			X									
		Friends of Brookhaven- BNL Affiliation	Member	Biays	Bowerman				X	X				X			
			Alternate	Steve	Schwartz			X		X							
			Alternate2	Ben	Ocko												
		Gordon Heights Civic Assoc. - Civic	Member	James	Freeman									X	X		
			Alternate														
		Individual	Member	Jane	Corrarino			X		X							
		Individual	Member	Karen	Blumer			X	X	X				X	X		
		Individual	Alternate	Michael	Madigan									X	X		
		L.I. Pine Barrens Society – Advocacy & Environment	Member	Richard	Amper												

X = Present	2022	Affiliation		Jan No mtg	Feb No mtg	Mar	Apr	May	June No mtg	July No mtg	Aug No mtg	Sep	Oct	Nov	Dec
			Alternate	Andrew	Wong		X	X				X	X		
		Longwood Central School Dist. – Education, Science & Technology	Member	Tracy	Adams		X								
			Alternate	Paul	Infranco										
		Middle Island Civic Association - Civic	Member	Martin	Filler		X	X	X			X	X		
			Alternate	Margaret	Malloy										
		NSLS-II User Committee – BNL Affiliation	Member	Jean	Jordan-Sweet		X	X				X			
			Alternate												
		Ridge Civic Association - Civic	Member	Ken	Casanova				X			X			
		Suffolk County Legislature 1st Dist. - Government	Member	Al	Krupski		X		X					X	
			Alternate	John	Stype										
		Teachers Federal Credit Union – Business & Labor	Member	Sandra	Santos-Keel		X								
			Alternate	Sandra	Young										
		Town of Brookhaven, Senior Citizens Office - Government	Member	James	Heil										
			Alternate												
		Town of Riverhead - Government	Member	Dan	McCormick		X	X	X			X			
			Alternate												
		Wading River Civic Association - Civic	Member	Henry	Perez								X		
			Alternate	Linda	Rundlett				X						