

Community Advisory Council
April 8, 2021
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. Bldg. 650 Demolition & Decommissioning update
6. Climate and Energy update
7. Agenda Setting
8. Community Comment

1. Attendance

Members/Alternates Present: See Attached Sheets.

Others Present: J. Anderson, D. Bauer, B. Bollar, J. Bukoski, J. Carter, M. Creamer, M. Dikeakos, B. Dorsch, A. Emrick, K. Eng, A. Engel, F. Fernandez, N. Foster, P. Genzer, D. Gibbs, R. Gordon, J. Granzen, T. Green, S. Hartzel, E. Hicks, R. Hodgins, B. Howe, P. Lucas, M. Magrum, D. Manning, B. McCaffrey, R. McKay, J. Milligan, G. Olson, D. Paquette, D. Pocze, C. Polanish, V. Racaniello, A. Rapiejko, J. Remien, M. Schoonen, K. Schwager, R. Tribble, J. Wanless, T. Welty, K. White, M. Winters

2. Correspondence and Handouts

Items numbered one and two were e-mailed to Members on March 3, 2021. Items numbered three and four were e-mailed to Members on March 11, 2021.

1. Draft agenda for April 8, 2021 meeting
2. Draft notes from the March 11, 2021 meeting
3. Copy of presentation: Bldg. 650 Demolition & Decommissioning
4. Copy of presentation: Climate and Clean Energy Research

3. Administrative Items

The meeting was called to order at 6:31 p.m. Reed Hodgins, facilitator, welcomed everyone to the Zoom virtual meeting. He reviewed the ground rules and draft agenda.

Doon Gibbs, Laboratory Director, welcomed everyone.

Jack Anderson, Deputy Director for Operations, said the Lab is still operating with 1/3 staff onsite, which is about 900 individuals with another 1800 working from home. He said there are a very limited number of guests on-site.

He said we are encouraging all staff to get vaccinated and are hopeful that conditions will improve and by mid-summer we will be able to reintroduce more staff onsite.

Hodgin said we are continuing to recruit new CAC members. We have received a few recommendations, and would like to ask that you continue to send them in.

Approval of notes:

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

Member Schuhmann mentioned that there were several articles on the G-2 magnet that was shipped from BNL to Fermi Lab in Illinois several years ago to continue research. He said there are some new results which is big news in high energy physics.

Member Sprintzen said he remembers the CAC presentation on how it was transported. He said he made the trip out to watch it move out of the Lab and down William Floyd pkwy and it was quite impressive.

4. Environmental Updates

Jason Remien, Environmental Protection Division Manager, updated the CAC on Per- and Polyfluoroalkyl Substances (PFAS) and 1,4 Dioxane remediation. He said that the Lab is in the process of addressing a time critical removal action that will address the higher concentrations of PFAS at the current and former firehouses. The Lab has been in the process of completing a very comprehensive data report over the last month and plans to submit that to the regulators shortly. The remedial design report associated with it will be going out to the regulators later in April. It will also be going out to contractors for bid. The Lab plans to be actively working on those treatment systems in the spring/summer timeframe.

Tim Green, Natural and Cultural Resources Manager, updated the CAC on deer management at the Lab. He said there was a deer cull the weekend of March 12-14, but high winds hampered some of it, so the activity had to shut down for a period of time. During that weekend, 43 deer were taken and 81 total between the two efforts in February and March. After sampling, 2,204 pounds of meat were donated to Long Island Cares for distribution. We are already working with the USDA on having more flexibility for next year, regarding timing and ability to work with weather conditions.

Matt Creamer, US Army Corp of Engineers, spoke about the dismantlement and disposal of the High Flux Beam Reactor (HFBR) Stack, Bldg. 705. He said the project continues to do well. Demolition has been completed and the project is moving on to the excavation phase. He showed some photos detailing the progress so far.

Member Shuhmann asked if there were any surprises.

Creamer said no, we just found that the concrete was very sturdy but nothing in terms of contamination.

Remien responded to the Action Item from last month requesting additional data on the Stack project. He said there is a process that has been established for gathering, merging, evaluating and externally reviewing data and the team would like to include the CAC in the process. There are many parties involved in this project and all are working together for transparency and responsiveness to the requests made by members of the CAC. The project is ongoing and according to the typical process established for previous cleanup actions, the bulk of the data sharing is included in a closeout report. The report is a comprehensive summary that goes to the regulators for review and approval. The benefit of this report is that the regulators evaluate

all of the information and then determine whether the public health is protected and whether cleanup goals are met. The team would like to provide the CAC access to this closeout report in response to the request for additional data rather than coming up with another submittal in between. The current project has the draft closeout report being completed in July and the final in September, which works out with the CAC schedule. Right now, Brookhaven Science Associates (BSA) is working through the proper channels to include the BSA data and/or summary data in the closeout report. The Department of Energy (DOE) and its subcontractors are doing the same thing. The regulators, DOE, US Army Corp of Engineers, Environmental Protection Agency, NYS Department of Environmental Conservation, and the Dept of Health have all discussed next steps, and all agree that waiting for the closeout report is the best approach. The Team hopes that the CAC will agree this is the best way to approach this request for additional data.

5. Bldg. 650 Demolition Project update, Jason Remien – Manager, Environmental Protection Division

Jason Remien, gave the CAC some background information, spoke about the project scope, pre-demolition and demolition activities.

Member Sprintzen asked if any of the building's functions need to still be carried out and if so, where will that take place.

Remien said BNL is not a reactor facility anymore, so there is no longer a need for this type of activity.

Megan Magrum, Safety and Health Services Division, spoke about industrial hygiene monitoring for the project.

Nate Foster, Radiological Control Division, spoke about radiological monitoring for the project.

Member Filler asked if there are other buildings in this condition no longer being used that will need to go through this process.

Remien said yes, but not to this level. This is the last of the buildings with this level of internal contamination. We have a list of buildings that need to come down in the future. We keep track of which buildings contain contamination in our Facility Use Agreements (FUA) for all buildings on site.

Member Pratka asked how leaving the basement intact affects drainage in the area.

Remien said we will use heavy equipment to poke holes in the concrete for drainage.

6. Climate and Energy update, Martin Schoonen - Associate Lab Director (ALD) for Environment, Biology, Nuclear Science and Non-proliferation (EBNN)

Manning said over the next few meetings the Lab will break down the work being done in the EBNN group and offer several presentations to the CAC.

Martin Schoonen, ALD for EBNN, gave a presentation about Climate and Clean Energy Research at EBNN.

Member Krupski asked if there is a range of climate that biofuels can grow in and be productive.

Schoonen said there are a plethora of plants that can be grown in different climate zones. We may have to bioengineer plants to make them productive as a biofuel crop and able to grow in some marginal soils. We are working on both aspects here at BNL.

Member Casanova said there was no mention of hydrogen as a storage method for electricity. He also asked if there are alternatives to the aging grid system that we have.

Schoonen said the grid work at BNL is being done in Jim Misewich's directorate. One of the things they are working on are ways to deal with renewables that have variable outputs and how to integrate them into the grid. There may be output that is not needed at times and will have to be stored. Schoonen recommended that Misewich address the CAC at a future meeting to discuss his directorate's work. Schoonen said that with regard to the portion of the question about hydrogen: There has been a lot of thinking about what to do with nuclear power plants because they are expensive to run. The big advantage is that they can run all the time. There are times when there might be a lot of renewable energy available at a much lower cost. The thinking is we might be able to combine nuclear power when it's not needed and some of the heat that is produced in nuclear power plants. Then, it might be possible to use that excess energy and heat to generate hydrogen and develop a hydrogen economy that is integrated with the nuclear power plants. There are some very clever ideas out there, not necessarily at BNL. Schoonen said it is much more powerful if we think of ways to integrate these systems.

7. Agenda Setting

David Manning said the Lab wants to be responsive to the CAC's interests. Jim Misewich and Esther Takeuchi are very focused on grid level storage. A briefing will be provided to the CAC on grid development and the work at BNL. Next month it is expected that Charlie Folz will brief the CAC on infrastructure at the Electron Ion Collider (EIC). There will also be a follow up on water issues and Tim Green will provide an update on the Environmental Assessment (EA) for the EIC. Tom Daniels may present to the CAC about sustainability at Discovery Park. If members of the CAC have other suggestions/ideas, please send them in to the Lab.

Member Ziems asked for an update on the invisible glass.

Manning said that would be Chuck Black at the Center for Functional Nanomaterials. That topic will be put on the list for future agendas.

8. Community Comment

There was no community comment.

The meeting adjourned at 8:42 PM

Next meeting: May 13, 2021

P = Present	2021	Affiliation		First Name	Last Name	Jan No mtg	Feb No mtg	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
		ABCO – Civic (Garber - 04/02) (Bevington – 6/14) (Keenan-10/14)	Member	Ray	Keenan			X	X								
		(Madigan -10/10)	Alternate	Michael	Madigan												
		American Physical Society – Business & Labor	Member	Reinhardt	Schuhmann			X	X								
		(Schuhmann 1/14, member 9/15)	Alternate	Donavan	Hall												
		Brookhaven Coalition of Chambers of Commerce – Bus & Labor (added 6/15)	Member	Ron	Trotta												
		(Inserra added10/20)	Alternate	Carmine	Inserra			X									
		Brookhaven Retired Employees Association- BNL (Peskin - 09/09)(Franz 1/17)	Member	Mark	Israel			X	X								
		(Franz - 12/09)(Israel 1/17)	Alternate	Eena-Mai	Franz			X									
		(Shapiro-1/13)	Alternate	Steve	Shapiro			X									
		Citizens Campaign for the Environment – Advocacy & Environment	Member	Adrienne	Esposito			X	X								
		(Somma 11/16)	Alternate														
		Colonial Woods Whispering Pines – Civic (Birben - 06/09) (O'Neal 01/15, removed 10/15)(Koropsak 3/21)	Member	Jane	Koropsak			X									
		(Rehbein -11/10)	Alternate														
		Coram Civic Association (Ziems - 06/12)	Member	Paul	Ziems			X	X								
		(Meade – 06/12, Jim M 10/12, Turk 1/16)	Alternate	Rosa	Turk			X	X								
		East Yaphank Civic Association (Feinman 06/19)	Member	Robert	Feinman												
		(Feinman - 02/09 – 11/15)(Mack 11/15)	Alternate	Catherine	Mack												
		Emeritus – (Sprintzen changed from Individual10-20)	Member	David	Sprintzen			X	X								
		Foundation for Economic Education – Ed, Sci, & Tech (5/14)(Martin – 10/14)	Member	Bruce	Martin			X	X								
		(Pratka – 10/14)	Alternate	Craig	Pratka			X	X								
		Friends of Brookhaven- BNL (Kaplan 07/01–11/15)(Bowerman 11/15)	Member	Biays	Bowerman			X									
		(Schwartz - 11/02) (Ocko added 11/15)	Alternate	Steve	Schwartz			X	X								
			Alternate2	Ben	Ocko												
		Huntington Breast Cancer Coalition – Health-Based Rep	Member	Mary Joan	Shea												
			Alternate	Scott	Carlin												
		Individual	Member	Jane	Corrarino			X									
		Individual	Member	Karen	Blumer												
		Individual	Alternate	Michael	Madigan												
		Individual (Sprintzen changed to Emeritus 10-20)	Member	David	Sprintzen			X	X								
		L.I. Pine Barrens Society – Advoc & Env	Member	Richard	Amper												

				Jan No mtg	Feb No mtg	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
P = Present	2021	Affiliation	First Name	Last Name											
		(Murdocco - 04/11, deleted 6/12) (Muller added – 8/12)(Katie Rose Leonard added – 6/13)(Muether added – 5/15) (Wolf added-1/19)(Moran added 2/20)(Muether 10/20)	Alternate	Katie	Muether										
		(Gonzales added 11/20)	Alternate2	Miranda	Gonzales		X	X							
		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										
			Alternate	Clara	McManus										
			Alternate	Joe	May										
		Middle Island Civic Association (Filler 2/17)	Member	Martin	Filler		X	X							
		(Nowak 01/15 – 5/15)(Malloy 9/15)	Alternate	Margaret	Malloy										
		NSLS-II User Committee – BNL	Member	Jean	Jordan-Sweet		X	X							
		(Ravel -02/11-9/15)(Bohon added 11/15)(Bohon removed)	Alternate												
		Ridge Civic Association (Henagan removed 9/15)(Chattaway added 10/15)(Casanova added 11/19)	Member	Ken	Casanova		X	X							
		Suffolk County Legislature 1st Dist. - Government (added 6/15)	Member	Al	Krupski			X							
			Alternate	John	Stype		X								
		Teachers Federal Credit Union – Bus & Labor (Murdocco 3/15) (Stafford 1/18)	Member	Michelina	Cahill										
		(Cahill 5/20)	Alternate												
		Town of Brookhaven, Senior Citizens Office - Government	Member	James	Heil										
			Alternate												
		Town of Riverhead - Government (Doroski - 04/11)(McCormick – 10/20)	Member	Dan	McCormick		X								
		(Hulme - 04/11 - 4/14)(Janis Rottkamp 04/16)	Alternate	Janis	Rottkamp										
		Wading River Civic Association (Rundlett 09/16)(Kneitel 02/17)(Perez 06/19)	Member	Henry	Perez		X	X							
		(Bail and Guthy removed 11/2016)	Alternate	Linda	Rundlett										