

**Community Advisory Council
May 12, 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. Demolition of the Brookhaven Medical Research Reactor Stack
5. Dare Mighty Things
6. Overview of Technology Transfer
7. CAC Membership Updates
8. Agenda Setting
9. Community Comment

1. Attendance

Members/Alternates Present: See Attached Sheets.

Others Present: J. Anderson, A. Belvin, C. Black, T. Black, J. Diehl, B. Dorsch, A. Engel, N. Foster, J. Freeman, J. Gettler, D. Gibbs, T. Green, R. Hodgkin, R. Howe, D. Manning, R. McKay, A. Morocho, D. O’Hehir, G. Olsen, A. Ozelis, D. Paquette, D. Pocze, C. Polanish, A. Rapiejko, J. Remien, M. Soucie, R. Tribble, P. Upadhyya, J. Wanless

2. Correspondence and Handouts

Items numbered one and two were e-mailed to Members on May 5, 2022. Item number three was e-mailed to Members on May 9, 2022. Items numbered four through six were e-mailed to Members on May 12, 2022.

1. Draft agenda for May 2022 meeting
2. Draft notes from the April 2022 meeting
3. Notification that the May meeting will be held all virtual rather than hybrid
4. Copy of presentation: Demolition of the Brookhaven Medical Research Reactor Stack
5. Copy of presentation: Overview of Technology Transfer
6. Updated Zoom link

3. Administrative Items

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

Doon Gibbs, Laboratory Director, welcomed everyone. He apologized that the meeting had to be virtual once again. He said the hope was to have it in person, but unfortunately, COVID cases are on the rise again in Suffolk County.

David Manning, Director - Stakeholder Relations, thanked CAC Member Stephen Schwartz for his presentation at Earth Day. Manning said there are several upcoming public events that are posted on the BNL website for this summer and anyone who is interested should check the BNL website for more information. He then said the LI Museum at Stony Brook has been turned over to a retrospect on BNL and they have some interesting historical material that will be on display until early October.

Approval of notes:

The April 2022 Action Items and Notes were approved as written with none opposed and two abstentions.

4. Demolition of the Brookhaven Medical Research Reactor (BMRR) Stack - Jason Remien, Manager, Environmental Protection Division

Jason Remien said the BMRR was constructed in 1958 and was the first reactor in the Nation to be constructed specifically for medical research. It is 150 feet tall, constructed of radial brick with no interior or exterior coatings and was permanently shut down in 2000. In 2021, an evaluation of the Stack determined that the structural integrity was compromised by moisture intrusion. The Stack is minimally radiologically contaminated on the interior surfaces, with no lead or asbestos coatings. In January 2022 an analysis of alternatives was performed for the demolition of the Stack. In February a request for proposals was distributed and in May the contract for its demolition was awarded to International Chimney Corp.

Member McCormick asked for the nature of the components of the air emissions, how many years the facility operated, and what if any studies were done to determine the extent of dispersed material in and around the Lab and the property outside the Lab.

Remien said the Stack operated from 1958-2000.

Nate Foster, Manager of the Radiological Controls Division, said the predominant isotope of emission from the Stack was Argon 41, which has a half-life of 1.83 hours. In addition, there were some other activation products, most of which were contained by the filtration system prior to the exhaust going up the stack.

Remien said there will be another update for the CAC in September.

5. Dare Mighty Things - Chuck Black, Director, Center for Functional Nanomaterials (CFN)

David Manning said we had hoped to have Chuck in person for this meeting, so we are asking him to return in the Fall for an update. Chuck has been at the Lab since 2006, has over 40 patented inventions and has received numerous recognitions. He also received the DOE outstanding mentor award for his work with young scientists.

Chuck Black spoke about the mission of the CFN, stories of research at the CFN, and what comes next. He talked about invisible glass, catching radioactive gases, nano-based home COVID test, and two promising discoveries that were sadly let go.

Member Ziems asked if another application for invisible glass could be cell phone screens or facemasks. He asked if there is any industry interest.

Black said companies are looking for areas to get product to market. He said we would love to see it used in many applications.

Member Ziems asked if the last two inventions are getting patented.

Black said yes, the team is engaging early with our office of research partnerships.

Member Schwartz asked why some projects were abandoned and what is preventing someone else from commercializing them.

Black said that the Lab did not do a good enough job finding a partner to take them to the next step. The programmatic goal is to do the work and publish a paper. The Lab is trying to do more, but it requires time with the partners to transfer the technology. If someone took it on, they could do it.

Amy Engel asked if the CFN does any work with the medical industry.

Black said the Lab does engage with the medical industry. People come to the Lab with their problems.

James Freeman asked if there is there is any funding for the partners. He asked if there is any bridging to bring the technology to the public.

Black said the lab benefits from its relationship with its tech transfer office. There is a gap between scientists and the company that sells the product. The DOE recognizes that and makes funding available that the Lab can benefit from.

6. Overview of Technology Transfer – Poornima Upadhyia, Office of Research Partnerships and Technology Transfer

Poornima Upadhyia introduced herself and spoke about her background. She said tech transfer is a DOE mission. She spoke about the different types of intellectual property and explained the technology transfer process. She said it takes a community.

Member Blumer asked if this is new to the Lab. She said 10-20 years ago she asked why the Lab wasn't doing more patented research. She asked how much of this has been going on, what percentage of research is in contract for patents, and what is the distribution.

Upadhyia said the push for partners for licensing has been going on for 10-15 years, but patents have been going on for quite some time. She said about 40% of patents are licensed. As for distribution, Upadhyia said inventors get 34%, the department the researcher worked for gets 33%, and 33% goes to the Lab.

Engel said last November she was working with Erick Hunt and he shared that there were 187 technologies to license and over the last ten years the total licensed was 959.

Upadhyia said there are now 211 technologies ready to license.

Freeman asked if integration of technology is monitored to keep pace with changing technologies

Upadhyia said the Lab makes assessments throughout the life of a patent and if it is decided the technology is obsolete, it is not pursued further.

7. CAC Membership updates

Hodgin deferred this section of the meeting to the end of the evening.

8. Agenda Setting

Amy Engel, Stakeholder Relations office, said in September the CAC will receive an update on BNL sustainability, environmental, how the Lab strives to comply with executive orders and how the Lab is incorporating sustainability in the new buildings. There will also be another update on the BMRR. An update on PFAS (Per- and Polyfluoroalkyl Substances) is planned for September or October. A presentation on the Site Environmental Report will also be made in October. In November there will be an update on groundwater cleanup and an update on the SUSC (Science and User Support Center). She said If anyone has anything specific that they would like to hear about, please let her know.

9. Community Comment

There was no community comment.

Hodgin then introduced potential new CAC member James Freeman from Gordon Heights Civic Association.

Freeman, president of Gordon Heights Civic Association, spoke about himself and his interest in being part of the CAC.

The full meeting adjourned at 8:43 PM and the CAC went into a Member only session to discuss the membership application of James Freeman, Gordon Heights Civic Association.

Next meeting: September 8, 2022

The CAC fully supported the membership request of James Freeman, Gordon Heights Civic Association. Hodgin said that the Lab will be in touch with Freeman to inform him and ask him to let the Lab know who his alternate will be.

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

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