

**Community Advisory Council**  
**May 13, 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. Electron Ion Collider (EIC) Infrastructure Overview
6. National Environmental Policy Act (NEPA) – Finding of No Significant Impact (FONSI) for the EIC
7. Using Gamification and Artificial Intelligence to streamline analysis at the National Synchrotron Light Source II (NSLS II)
8. Agenda Setting
9. Community Comment

### **1. Attendance**

Members/Alternates Present: See Attached Sheets.

Others Present: J. Anderson, J. Bukoski, J. Carter, S. Coleman, M. Creamer, J. Diehl, B. Dorsch, K. Eng, A. Engel, C. Folz, P. Genzer, D. Gibbs, S. Gonzalez, R. Gordon, T. Green, S. Hartzell, D. Hatton, E. Hicks, R. Hodgkin, B. Howe, D. Manning, R. McKay, D. Nassar, D. Olds, G. Olson, D. Paquette, D. Pocze, C. Polanish, A. Rapiejko, J. Remien, T. Russo, R. Tribble, J. Wanless

### **2. Correspondence and Handouts**

Items numbered one and two were e-mailed to Members on May 6, 2021. Items numbered three and four were e-mailed to Members on May 13, 2021.

1. Draft agenda for May 13, 2021 meeting
2. Draft notes from the April 8, 2021 meeting
3. Copy of presentation: Electron Ion Collider (EIC) Infrastructure Overview
4. Copy of presentation: Learning to Play the Game of Science presentation

### **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 and said as the situation continues to improve with respect to COVID, we hope to have more staff on-site mid-July.

Hodgin said recruitment for new CAC members is ongoing. He said if anyone has any suggestions, please send them in.

Member Sprintzen asked when the Lab thinks the CAC will be meeting in person again.

Jack Anderson, Deputy Director for Operations, said we don't know yet. He said we continue to watch the situation and coordinate with the DOE. We hope to one day get back to normalcy and we will keep you informed.

Member Ziems said he remembers hearing a few years ago that the Lab was directed to send radioisotopes only out of Texas. He asked if this is still the practice.

Robert Tribble, Deputy Director for Science, said there are several commercial suppliers that are gearing up to supply the strontium rubidium isotope, so as soon as they can handle the market, the Lab will be getting out of that business. The Lab is actively working toward a production mechanism for a different isotope that will be difficult to produce commercially. It is a cancer drug that seems to be very effective. It's a heavy element called actinium, with a mass number of 225. It emits alpha particles and has been shown to be extremely effective for several different types of cancer where there has been no other treatment.

#### Approval of notes:

The April notes were approved as written with none opposed and six abstentions.

#### **4. Environmental Updates**

Jason Remien, Environmental Protection Division Manager, updated the CAC on Bldg. 650 remediation and Per- and Polyfluoroalkyl Substances (PFAS).

Matt Creamer, US Army Corp of Engineers, updated the CAC on the Dismantlement & Disposal of the High Flux Beam Reactor Building 705 (The Stack).

Member Schuhmann asked if grinding down the concrete overwhelms the HEPA filters on the vacuums or are you watering it down.

John Bukoski, said there are two methods used, wet and dry. With HEPA filters we use the dry method. We do have to change the filters often, but they aren't being overwhelmed.

Member Schwartz asked if there was any pushback from the community regarding the trains that went through them carrying waste. He asked where the trains are going and what is the nature of the disposal?

Creamer said the trains are going to Texas. He indicated there was no pushback that he was aware of.

Remien said early on the Lab communicated with the public what was happening. There were no issues.

#### **5. Electron Ion Collider (EIC) Infrastructure Overview, Charles Folz**

Charles Folz spoke about his background and then gave an overview of the infrastructure of the EIC.

Member Ziems asked if any of the individual buildings will be finished within the next 10 years.

Folz said the goal for completion of the buildings is 2026. The idea is to have the buildings available for installation of the accelerator equipment much sooner than the ten-year timeline.

Member Schuhmann asked if there is a contingency plan for acquiring helium because it is in short supply.

Folz said there are efficiency program upgrades to minimize any leaks and there is a proposal under consideration for a modern helium plant upgrade for the Lab to become its own supplier. That is in pre-conceptual design phase right now. There has been a significant amount of consideration given to this.

Member Krupski said this is very impressive. He asked how many people are currently working on this project.

Folz said there are five in his department, but they get support from other groups.

Member Ziems asked if security at the Lab will need to be increased.

Folz said no, it will remain the same as it is for RHIC.

Member Sprintzen asked why RHIC will end in 2025.

Gibbs said RHIC will complete its science mission at that time and then transition to EIC.

## **6. National Environmental Policy Act (NEPA) – Finding of No Significant Impact for the EIC, Tim Green**

Tim Green, Natural and Cultural Resources Manager, said the Environmental Assessment for the EIC was completed in March and is available online. The Lab will send a link to CAC members.

### **\*ACTION ITEM**

Send link for EIC EA to CAC Members

Member Krupski asked how much of the project area is in regulated wetlands.

Green said the Peconic River is regulated wetland and there is a large pond in the northern portion of the RHIC ring that is part of the regulated wetland. There is a 100' buffer on the wetlands, so we are staying outside of that buffer except for having to get one road across the Peconic River.

Member Schuhmann asked what the cooling towers are made of.

Folz said stainless steel, plastic, fiberglass, or galvanized iron.

## **7. Using Gamification and Artificial Intelligence to streamline analysis at the National Synchrotron Light Source II (NSLS II), Daniel Olds**

Daniel Olds, beamline scientist, gave some background information on himself. He spoke about how gamification and artificial intelligence are used to streamline analysis at the NSLS II.

## **8. Agenda Setting**

Amy Engel, Stakeholder Relations office, said John Hill will give an update in the fall on COVID research at the Lab. Michelle McQueen will present on sustainability and sustainable practices.

There will be more updates on climate research. Jason Remien will present on the Site Environmental Report, and other environmental updates.

Member Sprintzen asked for a summary of RHIC and what the goals were. He said he would also like to have a better understanding of the intentions and goals of the EIC.

Member Blumer said she is working with a consortium to develop a zero-waste plan and she would like to know what the Lab is doing on this topic.

Engel said that the Lab had received an email from Blumer with this request and are working on it.

Hodgin asked that the CAC send in any additional agenda requests and look for a survey over the summer for future meetings.

## **9. Community Comment**

There was no community comment.

The meeting adjourned at 8:22 PM

Next meeting: September 9, 2021

<b>P = Present</b>	<b>2021</b>	<b>Affiliation</b>		<b>First Name</b>	<b>Last Name</b>	<b>Jan No mtg</b>	<b>Feb No mtg</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>June</b>	<b>July</b>	<b>Aug</b>	<b>Sep</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>
		<b>ABCO – Civic</b> (Garber - 04/02) (Bevington – 6/14) (Keenan-10/14)	Member	Ray	Keenan			X	X	X							
		(Madigan -10/10)	Alternate	Michael	Madigan					X							
		<b>American Physical Society – Business &amp; Labor</b>	Member	Reinhardt	Schuhmann			X	X	X							
		(Schuhmann 1/14, member 9/15)	Alternate	Donavan	Hall												
		<b>Brookhaven Coalition of Chambers of Commerce – Bus &amp; Labor</b> (added 6/15)	Member	Ron	Trotta												
		(Inserra added10/20)	Alternate	Carmine	Inserra			X									
		<b>Brookhaven Retired Employees Association- BNL</b> (Peskin - 09/09)(Franz 1/17)	Member	Mark	Israel			X	X	X							
		(Franz - 12/09)(Israel 1/17)	Alternate	Eena-Mai	Franz			X									
		(Shapiro-1/13)	Alternate	Steve	Shapiro			X									
		<b>Citizens Campaign for the Environment – Advocacy &amp; Environment</b>	Member	Adrienne	Esposito			X	X	X							
		(Somma 11/16)	Alternate														
		<b>Colonial Woods Whispering Pines – Civic</b> (Birben - 06/09) (O'Neal 01/15, removed 10/15)(Koropsak 3/21)	Member	Jane	Koropsak			X		X							
		(Rehbein -11/10)	Alternate														
		<b>Coram Civic Association</b> (Ziems - 06/12)	Member	Paul	Ziems			X	X	X							
		(Meade – 06/12, Jim M 10/12, Turk 1/16)	Alternate	Rosa	Turk			X	X	X							
		<b>East Yaphank Civic Association</b> (Feinman 06/19)	Member	Robert	Feinman												
		(Feinman - 02/09 – 11/15)(Mack 11/15)	Alternate	Catherine	Mack												
		<b>Emeritus –</b> (Sprintzen changed from Individual10-20)	Member	David	Sprintzen			X	X	X							
		<b>Foundation for Economic Education – Ed, Sci, &amp; Tech</b> (5/14)(Martin – 10/14)	Member	Bruce	Martin			X	X	X							
		(Pratka – 10/14)	Alternate	Craig	Pratka			X	X								
		<b>Friends of Brookhaven- BNL</b> (Kaplan 07/01–11/15)(Bowerman 11/15)	Member	Biays	Bowerman			X									
		(Schwartz - 11/02) (Ocko added 11/15)	Alternate	Steve	Schwartz			X	X	X							
			Alternate2	Ben	Ocko												
		<b>Huntington Breast Cancer Coalition – Health-Based Rep</b>	Member	Mary Joan	Shea					X							
			Alternate	Scott	Carlin												
		<b>Individual</b>	Member	Jane	Corrarino			X		X							
		<b>Individual</b>	Member	Karen	Blumer					X							
		<b>Individual</b>	Alternate	Michael	Madigan												
		<b>Individual</b> (Sprintzen changed to Emeritus 10-20)	Member	David	Sprintzen			X	X	X							
		<b>L.I. Pine Barrens Society – Advoc &amp; Env</b>	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	X						
		<b>Lake Panamoka Civic Association</b> (Biss - 04/02)(Staddon 10/17)	Member	Richard	Staddon										
		(Grandal - 10/10)	Alternate	Bonita	Grandal										
		<b>Longwood Central School Dist.</b> – 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										
		<b>Mastic Park Civic Association</b> (Sicignano – 6/12)	Member	John	Sicignano										
			Alternate	Clara	McManus										
			Alternate	Joe	May										
		<b>Middle Island Civic Association</b> (Filler 2/17)	Member	Martin	Filler		X	X	X						
		(Nowak 01/15 – 5/15)(Malloy 9/15)	Alternate	Margaret	Malloy										
		<b>NSLS-II User Committee</b> – BNL	Member	Jean	Jordan-Sweet		X	X							
		(Ravel -02/11-9/15)(Bohon added 11/15)(Bohon removed)	Alternate												
		<b>Ridge Civic Association</b> (Henagan removed 9/15)(Chattaway added 10/15)(Casanova added 11/19)	Member	Ken	Casanova		X	X	X						
		<b>Suffolk County Legislature 1<sup>st</sup> Dist.</b> - Government (added 6/15)	Member	Al	Krupski			X	X						
			Alternate	John	Stype		X								
		<b>Teachers Federal Credit Union</b> – Bus & Labor (Murdocco 3/15) (Stafford 1/18)	Member	Michelina	Cahill										
		(Cahill 5/20)	Alternate												
		<b>Town of Brookhaven, Senior Citizens Office</b> - Government	Member	James	Heil				X						
			Alternate												
		<b>Town of Riverhead</b> - Government (Doroski - 04/11)(McCormick – 10/20)	Member	Dan	McCormick		X								
		(Hulme - 04/11 - 4/14)(Janis Rottkamp 04/16)	Alternate	Janis	Rottkamp										
		<b>Wading River Civic Association</b> (Rundlett 09/16)(Kneitel 02/17)(Perez 06/19)	Member	Henry	Perez		X	X							
		(Bail and Guthy removed 11/2016)	Alternate	Linda	Rundlett										