

**Community Advisory Council
November 9, 2017
Action Items/Notes**

Final

These notes are in the following order:

1. Attendance
2. Correspondence and Handouts
3. Administrative Items
4. Natural and Cultural Resources Update
5. Structural Studies of Prions by X-ray Footprinting at NSLS II
6. Community Comment

1. Attendance

Members/Alternates Present: See Attached Sheets.

Others Present: J. Anderson, P. Freimuth, P. Genzer, D. Gibbs, T. Green, G. Mattson, R. McKay, A. Rapiejko, J. Remien, N. Sundin, R. Tribble

2. Correspondence and Handouts

Items numbered one and two were e-mailed to Members on November 2, 2017. Items number three through five were available as handouts at the meeting.

1. Draft agenda for November 9, 2017
2. Draft notes from the October 12 meeting
3. Copy of Presentation: Natural and Cultural Resources Update
4. Copy of Presentation: Structural Studies of Prions by X-ray Footprinting at NSLS II
5. Copy of handout: MEOSI Dose Summary (2006-2016)

3. Administrative Items

The meeting was called to order at 6:33 pm. Michael White, facilitator, welcomed everyone to the meeting. He reviewed the ground rules and draft agenda and those present introduced themselves.

Jason Remien responded to the action item from the previous month. He said there is a handout on the table listing the 10 year dose to MEOSI results that was requested by Member Shea.

Approval of Minutes

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

Agenda Setting

Nora Sundin said the next meeting will be on December 14. She said Juergen Thieme will give a presentation on his SRX beamline. There will also be an update on the Western South Boundary and the closeout report on the Peconic River. It will also be our holiday get together.

4. Natural and Cultural Resources Update, Tim Green – Environmental Compliance Manager

Tim Green said at the end of the year, the deer population onsite is expected to be between 450 and 500 and the turkey population will be about 500 due to their very successful reproduction. He said Cs-137 in deer had similar results as past years and the ten year trend shows a decline.

The Peconic River has been dry so there has been no fish monitoring.

Cs-137 in grassy vegetation and soils is similar to past years.

Precipitation monitoring has shown low level mercury with the highest value at 19.1 ng/L.

Member Schwartz asked what is coming out of the sky to cause that level of mercury to be in the precipitation.

Green said most of it is from coal fired power plants.

An archeological survey at Discovery Park has shown no significant archeological resources present. Four 1960s era efficiency apartments have been determined to be eligible for listing on the National Register.

Member Doroski asked if there were any burial sites discovered.

Green said there was a cemetery, but we were told the soldiers were exhumed and moved to an offsite cemetery.

This year, the Lab has had many projects celebrating the 100th anniversary of Camp Upton and the 70th anniversary of the Lab

Green said sediment from the Peconic River is currently in the process of being shipped to Energy Solutions in Utah.

He spoke about deer management and the 2017 cull. He said it is necessary to take about 100 deer annually to maintain the herd. The target population onsite is <250.

Member Krupski asked if the Lab property is restricted to the public for hunting.

Green said there are a lot of things to consider if we want to open it up to the public. We are a Federal facility.

Member Keenan suggested using the same model that is used at the airport.

Green said the Lab spends about \$20K annually on corn for the 4-Poster Systems. There has been a 96% reduction in tick population where the 4-Posters are currently in use. This, however, could also be due to the drought and the cull.

Member Krupski asked if the turkey population has contributed to the reduction in ticks onsite.

Green said no, the turkey actually host quite a large number of ticks.

A no-mow area of twelve acres was established in 2016 to increase pollination.

There were three successful prescribed fires.

In an attempt to suppress the Southern Pine Beetle, 81 trees were felled in a 17 acre parcel in the Southeast corner of the Lab.

The Lab has been tracking turtles for over 7 years using a very successful radio-telemetry program.

Finally, Green said coyotes are expected to become established in the area over the next several years. This will be a great opportunity for the Lab to study the ecological changes and its impacts as they become established.

Member Sprintzen asked how the coyote get onto Long Island.

Green said we think they use the tunnels and railroad at nighttime when there is less traffic.

Member Schwartz asked if this information will be published.

Green said Jennifer Higbie is working on it.

5. Structural Studies of Prions by X-ray Footprinting at NSLS-II, Paul Freimuth – Institutional Official for Biological Research

Freimuth spoke about Prion diseases in humans and animals and explained that prions are not viruses, but are proteins that cause neuro degenerative diseases. He said the goal of the upcoming research at the NSLS II is to gain insight into the structure of prion protein aggregates using x-ray footprinting. The hope is to facilitate an effective search for drugs that inhibit replication of human prions. As a biosafety level 2 (BSL-2) agent, transmission is limited to ingestion or intravenous injection. There is no history of occupational illness related to prion research. The samples are sealed the entire time that they are at BNL and arrive and leave in triple containment. The experiment will only operate when the hutch is interlocked with a camera on the sample to show if it opens. The samples are secured when not in use. Sample inventory and Chain of Custody control will be implemented. The experiment is expected to take four hours to complete.

Freimuth said the NSLS II PASS proposal was submitted in May 2017 for the fall cycle beamtime at XFP and includes BSL-2 work. An Institutional Biosafety Committee (IBC) proposal has been submitted for review and approval. NSLS II Biohazard Risk screening is completed. Detailed operating procedures have been written. The NSLS II Safety Approval Form was submitted with the associated documentation attached. The NSLS II and IRMC approvals are currently pending.

Member Giacomaro asked if Freimuth could return with the results after the experiment is completed.

Freimuth said yes.

6. Community Comment

White asked for comments from the community. There were none.

The meeting adjourned at 8:42 PM.

Next meeting: December 14, 2017

CAC Agenda Setting – December 8, 2016

TOPICS

NASA Research	13
Update on Advances in Battery Storage	11
Advances in Renewable Energy Technologies	10
Global Warming & Sea Level Rise	9
History of Environmental Movement on LI	8
Steve Schwartz-Energy/Climate Presentation	7
Holographic Principles of Quantum Physics	7
BNL/Camp Upton History (Anniversary)	6
NYS Electric Power Grid	6
Alistair Rogers - Terrestrial Ecosystems	6
The LSST & Mapping the Galaxy	6
Gamma Forest Tour	5
Medical Research at BNL	4
Environmental Research at BNL	3
Sea Level Rise & Earthquakes	3
Short term plan for BNL	2
Status & Progress of Solar Farm	2
Lab Research on Solar Energy	2
Discovery Park Update	2
Chem-Trails	2
Laboratory Ten-Year Plan	1

				Jan	Feb	Mar	Apr	May	June	July No mtg.	Aug No mtg.	Sep	Oct	Nov	Dec
P = Present	2015	Affiliation	First Name	Last Name											
		ABCO – Civic (Garber - 04/02) (Bevington – 6/14) (Keenan-10/14)	Member	Ray	Keenan	P	P	P	P	P		P	P	P	
		(Madigan -10/10)	Alternate	Michael	Madigan	P		P				P			
		American Physical Society – Business & Labor	Member	Reinhart	Schuhmann	P	P	P	P	P		P	P		
		(Schuhmann 1/14, member 9/15)	Alternate	Donavan	Hall										
		Brookhaven Coalition of Chambers of Commerce – Bus & Labor (added 6/15)	Member	Ron	Trotta			P	P	P		P		P	
		Brookhaven Retired Employees Association- BNL (Peskin - 09/09)(Franz 1/17)	Member	Eena-Mai	Franz	P		P	P	P		P	P		
		(Franz - 12/09)(Israel 1/17)	Alternate	Mark	Israel	P	P		P	P		P			
		(Shapiro-1/13)	Alternate	Steve	Shapiro										
		Citizens Campaign for the Environment – Advocacy & Environment	Member	Adrienne	Esposito	P			P	P		P			
		(Somma 11/16)	Alternate	Harry	Somma	P	P	P	P	P		P	P		
		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	P	P	P	P		P	P	P	
		(Meade – 06/12, Jim M 10/12, Turk 1/16)	Alternate	Rosa	Turk	P	P	P	P	P		P	P	P	
		East Yaphank Civic Association	Member	Michael	Giacomaro			P	P	P		P	P	P	
		(Feinman - 02/09 – 11/15)(Mack 11/15)	Alternate	Catherine	Mack			P	P	P					
		Emeritus (changed 3/8/12)	Member	Jean	Mannhaupt										
		Foundation for Economic Education – Ed, Sci, & Tech (5/14)(Martin – 10/14)	Member	Bruce	Martin			P	P	P		P	P		
		(Pratka – 10/14)	Alternate	Craig	Pratka	P	P	P	P			P	P		
		Friends of Brookhaven- BNL (Kaplan 07/01–11/15)(Bowerman 11/15)	Member	Biays	Bowerman		P	P	P	P		P			
		(Schwartz - 11/02) (Ocko added 11/15)	Alternate	Steve	Schwartz			P		P		P		P	
			Alternate2	Ben	Ocko										
		Huntington Breast Cancer Coalition – Health-Based Rep	Member	Mary Joan	Shea			P		P	P			P	
			Alternate	Scott	Carlin										
		Individual	Member	Jane	Corrarino				P						
		Individual	Member	Karen	Blumer			P				P			
		Individual	Alternate	Michael	Madigan			P					P		
		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)	Alternate	Katie	Muether	P		P	P	P		P	P	P	
		L.I. Progressive Coalition – Advoc & Env	Member	David	Sprintzen	P	P	P	P		P		P	P	P

				Jan	Feb	Mar	Apr	May	June	July No mtg.	Aug No mtg.	Sep	Oct	Nov	Dec
P = Present	2015	Affiliation	First Name	Last Name											
			Alternate												
		Lake Panamoka Civic Association (Biss - 04/02)(Staddon 10/17)	Member	Richard	Staddon	P		P					P	P	
		(Grandal - 10/10)	Alternate	Bonita	Grandal	P		P	P			P	P		
		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			P	P			P		
			Alternate	Clara	McManus										
			Alternate	Joe	May										
		Middle Island Civic Association (Filler 2/17)	Member	Martin	Filler		P	P	P	P		P	P	P	
		(Nowak 01/15 – 5/15)(Malloy 9/15)	Alternate	Margaret	Malloy					P					
		NLSL-II User Committee – BNL	Member	Jean	Jordan-Sweet		P		P	P		P	P		
		(Ravel -02/11-9/15)(Bohon added 11/15)	Alternate	Jen	Bohon	P									
		Ridge Civic Association (Henagan removed 9/15)(Chattaway added 10/15)	Member	Wesley	Chattaway	P	P	P		P	P		P	P	P
		Suffolk County Legislature 1st Dist. - Government (added 6/15)	Member	Al	Krupski				P	P	P		P		P
			Alternate	John	Stype	P									
		Teachers Federal Credit Union – Bus & Labor (Murdocco 3/15)	Member	Richard	Murdocco										
			Alternate	Christine	Stafford	P		P		P		P			
		Town of Brookhaven (Graves – 06/06)-(removed 1/2015)	Member												
			Alternate												
		Town of Brookhaven, Senior Citizens Office - Government	Member	James	Heil		P	P		P	P		P		
			Alternate												
		Town of Riverhead - Government (Doroski - 04/11)	Member	Isidore	Doroski	P	P		P		P		P		P
		(Hulme - 04/11 - 4/14)(Janis Rottkamp 04/16)	Alternate	Janis	Rottkamp			P					P		
		Wading River Civic Association (Rundlett 09/16)(Kneitel 02/17)	Member	Terri	Kneitel	P	P	P	P	P		P			
		(Bail and Guthy removed 11/2016)	Alternate	Linda	Rundlett								P	P	