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. PFAS Updates
6. Overview and video of S1 visit
7. Energy Storage presentation
8. Agenda Setting
9. Community Comment

1. Attendance

Members/Alternates Present: See Attached Sheets.


2. Correspondence and Handouts

Items numbered one through three were e-mailed to Members on September 2, 2021. Items numbered four through seven were e-mailed to Members on September 9, 2021.

1. Draft agenda for September 9, 2021 meeting
2. Draft notes from the May 13, 2021 meeting
3. Copy of 2021 Water Quality Consumer Confidence report
4. Copy of presentation: Building 650 Decontamination and Demolition Update
5. Copy of presentation: PFAS Update
6. Copy of presentation: Demolition & Decommissioning of High Flux Beam Reactor Building 705 (The Stack)
7. Copy of presentation: Overview Interdisciplinary Science Department

3. Administrative Items

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

Doon Gibbs, Laboratory Director, welcomed everyone and said the Lab is still operating with maximum staff teleworking. He said there are no updates to report regarding budget.
Jack Anderson, Deputy Director for Operations, gave an update on COVID-19 and the Laboratory. He said the mission of the Laboratory continues. There have been no major changes since the last meeting. Vaccination and infection rates on site are similar to the local community. Employees who are vaccinated and show proof to the Occupational Medicine Clinic receive a blue badge so they can be recognized. The President this evening spoke about new expectations for the federal workforce, as well as contractors within the federal workplace. The Laboratory is anticipating implementation guidance from the White House and the Department of Energy. The Laboratory will abide by the Department’s rules and regulations.

Hodgin introduced Enrico Nardone, a potential new CAC member.

Nardone said he is the director of Seatuck Environmental Association, a nonprofit that works across Long Island to conserve wildlife. He said the organization advocates for wildlife, advances conservation projects, engages in community science, and offers a wide range of environmental education programs. He said in his training as an attorney, he is involved in environmental law. He said he looks forward to being involved with the CAC.

Member Martin said he oversees the internship program at Suffolk County Community College. He said if anyone is interested in getting a trained IT intern for the fall semester, for approximately 10-12 hours per week, to reach out to him. The benefit of this program is that the student gets the experience of working in the real world and the company gets the advantage of their assistance. Hodgin provided Martin’s contact information.

Member Schuhmann said the American Physical Society (APS) is selling the building across the street from the Lab. He wondered if he would still be considered a stakeholder. He said he plans to retire from APS the end of this year, but he could possibly stay on the CAC and represent the Brookhaven Village Association (BVA) if they are interested in membership.

Member Esposito said it would be great to have the BVA as part of the CAC.

Member Martin wondered if there is any possibility for the APS to move on to the Lab site. They are certainly a stakeholder.

Hodgin said we will talk again about how to approach this as the time gets closer.

Approval of notes:

The May 2021 Action Items and Notes were approved as written with none opposed and four abstentions.

4. Environmental Updates

Jason Remien, Environmental Protection Division Manager, updated the CAC on Bldg. 650 remediation.

Member Esposito asked for clarification on some of the maps.

Remien explained some of the cleanup areas indicated on the maps.

Member McCormick asked if there is any coordination with New York State Department of Environmental Conservation (NYSDEC) on these demolition projects.

Remien said yes, the Laboratory meets with the regulators, which includes NYSDEC and others. They visit the site regularly.
Daniel Ours, Project Manager for Olgoonik-FPM Joint Venture (OFJV), the contractor tasked with the Dismantlement & Disposal of the Stack, gave the CAC an update on the D & D of the High Flux Beam Reactor Building 705 (The Stack).

Member McCormick asked what the proposed use for that area is now that the Stack is gone.

Remien said the area is under institutional controls as part of our long-term stewardship program. There is no future use planned at this time.

Member Schwartz asked what the radiological status is of the High Flux Beam Reactor (HFBR) building and what the plans are.

Remien said the Laboratory does routine inspections. It is part of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and the Record of Decision (ROD). The Laboratory is waiting for radiation levels at the HFBR to decay to target levels before complete removal.

5. Per- and Polyfluoroalkyl Substances (PFAS), Doug Paquette

Doug Paquette, Environmental Protection Division, updated the CAC on Per- and Polyfluoroalkyl Substances (PFAS).

Member Esposito asked if you could see (PFAS in treated) water down to non-detect or 2 ppt.

Paquette said our typical detection limit is a little less than 2 ppt, and we should be able to get the treated water down to non-detect. For these systems, we will look for breakthrough of PFAS concentrations to determine when the carbon needs to be changed out.

Member Esposito asked if we were surprised to see continued impacts from foam releases after so many years?

Paquette said we are not surprised based upon what is being observed at other sites. PFAS can remain in the soils for a long time, and slowly bleed out. In addition to groundwater remediation, BNL will evaluate the distribution of PFAS in the soils and determine whether there are ways to treat or sequester the PFAS.

Member Schwartz asked when the first time was that these materials were used on the BNL site.

Paquette said nationally, they were in common use by the 1960’s. The photographic evidence of its use on-site goes back to at least 1966, when foam training was conducted at the former firehouse facility.

6. Overview and Video of S1 Visit

David Manning, Director, Stakeholder Relations office, told the CAC that Secretary of Energy, Jennifer Granholm, visited the Lab virtually on August 13th. He showed an overview video of the virtual visit.

Member Schwartz said the video showed a very diverse employee population at the Lab and he was impressed.

7. Overview Interdisciplinary Science Department (ISB), Esther Takeuchi and Amy Marschilok
Esther Takeuchi, Chair, Interdisciplinary Science Department, and Amy Marschilok, Manager, Energy Storage Division and Energy Systems Division spoke about New York State’s clean energy goals. They talked about grid modernization, energy efficiency, and energy storage.

Member Israel asked about safety regarding lithium-based technologies. He said there is a risk of fire and heat buildup.

Marschilok said the Laboratory is studying how heat is generated and when it is onset. Heat flow is measured during use and recharge of batteries.

Takeuchi said there is a debate going on. Some people want to use lithium-ion batteries for everything. Her view is if it meets the need, that’s ok, but she believes for large scale storage an alternative is needed that is less expensive and has materials that are more benign. Lithium is a great technology, especially for portable electronics. But as batteries get big and need to be low cost and benign, other alternatives need to be considered. That’s why batteries using water are being investigated.

Manning thanked both Takeuchi and Marschilok for their presentation.

8. Agenda Setting

Amy Engel, Stakeholder Relations office, said next month Jason Remien will give the CAC a presentation on the Site Environmental Report and we will have John Shanklin here to present to you on COVID research at the Lab.

In November, Bill Dorsch will give the CAC a groundwater update and we will have a science presentation. It could be on climate sciences, sustainability, the EIC, or other topics of interest. Please let us know your thoughts.

9. Community Comment

There was no community comment.

Member Sprintzen asked why the Lab is not mandating COVID vaccinations.

Jack Anderson, Deputy Director for Operations, said the President’s announcement today increased expectations. We are looking at that now.

The meeting adjourned at 8:45 PM

Next meeting: October 14, 2021
| X = Present 2021 | 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 (Garber - 04/02) (Bevington – 6/14) (Keenan-10/14) | Member Ray Keenan                                   |            |           |            |            |     |     |     |             |             |            |     |     |     |     |     | X   | X   | X   |
| (Madigan -10/10) | Alternate Michael Madigan                              |            |           |            |            |     |     |     |             |             |            |     |     |     |     |     | X   |     |     |     |
| American Physical Society – Business & Labor | Member Reinhardt Schuhmann                           |            |           |            |            | X   | X   | 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                                    |            |           |            |            |     |     |     |             |             |            |     |     |     |     |     |     |     |     |     |
| (Insera added10/20) | Alternate Carmine Insera                               |            |           |            |            |     |     |     |             |             |            |     |     |     |     |     |     |     |     |     |
| Brookhaven Retired Employees Association - BNL (Peskin - 09/09)(Franz 1/17) | Member Mark Israel                                    |            |           |            |            | X   | X   | X   |             |             |            |     |     |     |     |     | X   |     |     |     |
| (Franz - 12/09)(Israel 1/17) | Alternate Eena-Mai Franz                               |            |           |            |            |     |     |     |             |             |            |     |     |     |     |     |     |     |     |     |
| (Shapiro-1/13) | Alternate Steve Shaprio                                |            |           |            |            |     |     |     |             |             |            |     |     |     |     |     |     |     |     |     |
| Citizens Campaign for the Environment – Advocacy & Environment | Member Adrienne Esposito                              |            |           |            |            | X   | X   | 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   |     |     |             |             |            |     |     |     |     |     | X   |     |     |     |
| (Rehbein -11/10) | Alternate                                             |            |           |            |            |     |     |     |             |             |            |     |     |     |     |     |     |     |     |     |
| Coram Civic Association (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   |     |     |
| 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   |             |             |            |     |     |     |     |     |     | X   |     |     |     |
| (Pratka – 10/14) | Alternate Craig Pratka                                |            |           |            |            |     |     |     |             |             |            |     |     |     |     |     |     |     |     |     |
| Friends of Brookhaven- BNL (Kaplan 07/01–11/15)(Bowerman 11/15) | Member Biays Bowerman                                 |            |           |            |            |     |     |     |             |             |            |     |     |     |     |     |     |     |     |     |
| (Schwartz - 11/02) (Ocko added 11/15) | Alternate Steve Schwartz                              |            |           |            |            | X   |     | X   |             |             |            |     |     |     |     |     |     | X   |     |     |     |
| Alternate2 Ben Ocko |                                           |            |           |            |            |     |     |     |             |             |            |     |     |     |     |     |     |     |     |     |
| Huntington Breast Cancer Coalition – Health-Based Rep | Member Mary Joan Shea                                 |            |           |            |            |     |     |     |             |             |            |     |     |     |     |     |     |     | X   |     |     |
| | Alternate Scott Carlin                                |            |           |            |            |     |     |     |             |             |            |     |     |     |     |     |     |     |     |     |
| Individual | Member Jane Corrarino                                |            |           |            |            | X   |     |     |             |             |            |     |     |     |     |     |     | X   |     |     |     |
| Individual | Member Karen Blumer                                   |            |           |            |            |     |     |     |             |             |            |     |     |     |     |     |     |     |     |     |
| Individual | Alternate Michael Madigan                             |            |           |            |            |     |     |     |             |             |            |     |     |     |     |     |     |     |     |     |
| Individual | Alternate Victor Schwartz                             |            |           |            |            |     |     |     |             |             |            |     |     |     |     |     |     |     |     |     |
| Individual (Sprintzen changed to Emeritus 10-20) | Member David Sprintzen                                |            |           |            |            | X   |     | X   |             |             |            |     |     |     |     |     |     | X   |     |     |     |
| L.I. Pine Barrens Society – Advoc & Env | Member Richard Amper                                  |            |           |            |            |     |     |     |             |             |            |     |     |     |     |     |     |     |     |     |

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