**Community Advisory Council**

**January 12, 2017**

**Action Items/Notes**

These notes are in the following order:

1. Attendance
2. Correspondence and Handouts
3. Administrative Items
4. Environmental Updates
5. Site Sustainability Plan
6. Community Comment
7. **Attendance**

Members/Alternates Present: See Attached Sheets.

## Others Present: S. Bogart, J. Carter, D. Gibbs, R. Gordon, T. Green, B. Howe, M. Israel, D. Manning, R. McKay, A. Nunziata, D. Paquette, P. Pohlot, V. Racaniello, R. Reeder, J. Remien, N. Sundin, R. Tribble

1. **Correspondence and Handouts**

Items numbered one and two were e-mailed to Members on January 5, 2017.

1. Draft agenda for January 12, 2017
2. Draft notes from the December 8 meeting
3. **Administrative Items**

The meeting was called to order at 6:32pm. Reed Hodgin, facilitator, welcomed everyone to the meeting. He reviewed the ground rules and draft agenda and those present introduced themselves.

Nora Sundin, liaison to the CAC, said that the results of the prior month’s agenda setting exercise have been attached to the notes. She said the two topics, NASA and NSREL, were combined because they were both the same theme.

Editor’s note: the agenda topics list has been amended to include Lake Panamoka Civic Associations’ recommendations, since they did not have any representation at the December meeting when the poll was taken.

Sundin told the CAC that this year marks the 70th anniversary of the Laboratory and the 100th anniversary of Camp Upton. She said there is a new logo and there will be many events taking place throughout the year in celebration of the Laboratory’s milestones. We will keep the CAC updated on those events.

Approval of Minutes

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

Agenda Setting

Nora Sundin said the Laboratory is reaching out to Esther Takeuchi requesting a presentation on battery storage and energy technologies, as well as information from the regulators.

Member Esposito asked for information on the off-shore wind development proposal that the Governor has approved of. She said she can get a presenter if the Lab would like.

## **Environmental Updates - Bill Dorsch, Manager - Groundwater Protection Group and Tim Green - Environmental Compliance Manager**

Tim Green showed the CAC a chart detailing the reduction in levels of mercury in Peconic River fish, in response to Member Esposito’s questions from October. Green said the Lab no longer discharges to the river, and the river is basically dry. He then spoke about the ten year downward trend in Cs-137 in deer pre- and post-cleanup.

Green updated the CAC on the final plan for the Optimization of the Peconic River Remedy, Area PR-WC-06, which was issued to the regulators in November 2016. The Lab is currently preparing equivalency permits, evaluating waste disposal options, and procurement is underway for a cleanup contractor. Cleanup will take place in the summer of 2017, preferably under dry conditions. He relayed that we had an area that had some contamination at or above 2 mg/kg. Even though the whole area was less than that, we have decided to include that area, based on CAC recommendation.

He said the Lab has seen a significant reduction in the tick population on-site which is believed to be, to a large extent, due to the 4-Poster Devices.

Member Esposito asked how a tick count is taken and if the tick population is less nearer the 4-Poster devices.

Green said at each location we do 30 one minute drags using a cloth and then the ticks that are captured are counted. The number of ticks is less in the areas nearest the 4-Poster devices. He said the drought has also helped reduce the tick population.

Member Stype asked how the number of deer relates to the number of ticks.

Green said there is a definite correlation. He said sharp shooters will be used to remove another 200-250 deer in late March 2017.

Bill Dorsch spoke about the Bldg. 811 Former Waste Concentration Facility demolition. He said soil was excavated to a depth of up to 18 feet, 23,000 pounds of metal has been recycled and soil cleanup goals have been met at a total project cost of ~ $5.1 Million. The work was performed safely without incident. In September 2016, the area was backfilled and seeded. There is one area of surficial contamination to the north of the excavation area that remains and will be addressed in the future.

Member Sicignano asked if the regulators are aware of that remaining area of contamination.

Dorsch said yes. He then spoke about the Former Hazardous Waste Management Facility Sr-90 plume. The installation of ten temporary wells was completed in December 2016 and that data is just beginning to come in. There is a plan to install one source area monitoring well in the January/February timeframe. The data will be reported in the 2016 Groundwater Status Report.

Dorsch said six of the seven planned temporary vertical profile wells were installed at the Western South Boundary Area. Location seven is currently being worked on. Once the extent of the higher concentration of VOCs in the area is defined, a groundwater model will be used to simulate future migration.

Member Esposito asked if it is possible that part of a deeper plume was leaving the site without your knowledge.

Dorsch said we tested deep and did not see it, we will continue to track.

The Lab is continuing to monitor the unexpected Ethylene Dibromide (EDB) in the North St. East plume above drinking water standards. There was no EDB detection in the surrounding monitoring wells or extraction well NSE-1. Quarterly monitoring will continue.

Dorsch said groundwater monitoring is continuing following the March 2016 shutdown of the Freon-11 treatment system. October 2016 data shows Fr-11 above the capture goal, so the system has been temporarily turned back on and will continue until concentrations remain below 50ug/L for 2-3 rounds of sampling. The next monitoring well sample collection is scheduled for February 2017.

He then spoke about 1,4 Dioxane sampling and said a plan was submitted to the regulators in November 2016. The next steps will be to collect samples from a subset of 22 plume core monitoring wells on- and off-site associated with historical and current trichloroethane (TCA) detections utilizing EPA Method 522 and then brief the regulators and the CAC.

Member Esposito asked if on-site supply well water is being tested for 1,4 Dioxane.

Jason Remien said they have already been testing the Lab’s supply well. Results were all non-detect. When we come back in March or April we will include those results. We looked at the Suffolk County Water Authority for the surrounding area and they were also non-detect.

Member Sprintzen asked if the graphs could be made larger in the future.

Dorsch said it is hard to fit it all in, we will attempt to make them larger next time.

He then said the June 2016 Five Year Review and Addendum will be available in early 2017.

1. **Site Sustainability Plan – Amy Nunziata, ALD, Facilities & Operations**

Amy Nunziata said that the DOE Strategic Sustainability Performance Plan establishes Department goals. An annual site sustainability plan is required, which BNL updated in December 2016.

She said energy use represents 93% of BNL Green House Gas (GHG) production. The Laboratory has a long and successful history of identifying and implementing energy conservation projects. Over $60 million has been invested in a wide range of efforts that has curbed BNL’s energy consumption and the Lab’s energy intensity has been reduced by over 67% from FY1973 to FY2016. She explained that because the Lab started decades ago and has already made great reductions, it is harder to now decrease even more and meet these new energy reduction goals.

She spoke about the Utility Energy Service Contract, “Net-zero”, the Northeast Solar Energy Research Center, reduction in water consumption, fleet management, sustainable acquisitions, pollution prevention and waste reduction, electronic stewardship, and climate change.

Member Doroski asked for information on the Labs total energy use. I would be interested to know if it has gone up or down over the last ten years.

Nunziata said she did not have that information readily available, but we can follow up. Newer buildings are more energy efficient.

**Action Item: Provide the CAC with the Lab’s energy use for the past 10 years.**

Member Sprintzen asked if the Laboratory uses local providers for their purchases.

Nunziata said the Lab’s food service provider uses locally grown food as much as possible.

Jason Remien said, whenever we can, we purchase from local, minority owned, small businesses.

Member Sprintzen said he would like to know what criteria are used.

Nunziata said she will bring that information back to the CAC.

**Action Items: Provide the CAC with a presentation on the Lab’s procurement requirements.**

Nunziata said the Lab won the EPA’s 2016 Green Challenge Award for leadership in the northeast region.

Member Bohon asked for an explanation of “net-zero”.

Nunziata said the meaning of zero net energy consumption is the total energy used by the building on an annual basis is roughly equal to the amount of renewable energy created on the site or by renewable sources elsewhere. So, another building can be used to offset energy usage.

Bob Tribble said, as an example, NREL recently built a data center and outfitted it with solar panels.

Member Sprintzen asked how you reduce travel costs.

Nunziata said the use of video conferencing instead of travelling to off-site meetings.

1. **Community Comment**

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

The meeting adjourned at 8:24 PM.

Next meeting: February 9, 2017

**CAC Agenda Setting – December 8, 2016**

TOPICS

Update on Advances in Battery Storage 11

Advances in Renewable Energy Technologies 10

Global Warming & Sea Level Rise 9

NASA Research 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

NASA Space Radiation Laboratory 2

Laboratory Ten-Year Plan 1

| P = Present 2015 Affiliation |  | **First Name** | **Last Name** | **Jan** | **Feb** | **Mar** | **Apr** | **May** | **June** | **July** | **Aug** | **Sep** | **Oct** | **Nov** | **Dec** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ABCO** – Civic (Garber - 04/02) (Bevington – 6/14) (Keenan-10/14) | Member | Ray | Keenan | P |  |  |  |  |  |  |  |  |  |  |  |
| (Madigan -10/10) | Alternate | Michael | Madigan | P |  |  |  |  |  |  |  |  |  |  |  |
| **American Physical Society** – Business & Labor | Member | Reinhart | Schuhmann | P |  |  |  |  |  |  |  |  |  |  |  |
| (Schuhmann 1/14, member 9/15) | Alternate | Donavan | Hall |  |  |  |  |  |  |  |  |  |  |  |  |
| **Brookhaven Coalition of Chambers of Commerce** – Bus & Labor(added 6/15) | Member | Ron | Trotta |  |  |  |  |  |  |  |  |  |  |  |  |
| **Brookhaven Retired Employees Association**- BNL (Peskin - 09/09)(Franz 1/17) | Member | Eena-Mai | Franz | P |  |  |  |  |  |  |  |  |  |  |  |
| (Franz - 12/09)(Israel 1/17) | Alternate | Mark | Israel | P |  |  |  |  |  |  |  |  |  |  |  |
| (Shapiro-1/13) | Alternate | Steve | Shapiro |  |  |  |  |  |  |  |  |  |  |  |  |
| **Citizens Campaign for the Environment** – Advocacy & Environment | Member | Adrienne | Esposito | P |  |  |  |  |  |  |  |  |  |  |  |
| (Somma 11/16) | Alternate | Harry | Somma | 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 |  |  |  |  |  |  |  |  |  |  |  |
| (Meade – 06/12, Jim M 10/12, Turk 1/16) | Alternate | Rosa | Turk | P |  |  |  |  |  |  |  |  |  |  |  |
| **East Yaphank Civic Association** | Member | Michael | Giacomaro |  |  |  |  |  |  |  |  |  |  |  |  |
| (Feinman - 02/09 – 11/15)(Mack 11/15) | Alternate | Catherine | Mack |  |  |  |  |  |  |  |  |  |  |  |  |
| **Emeritus** (changed 3/8/12) | Member | Jean | Mannhaupt |  |  |  |  |  |  |  |  |  |  |  |  |
| **Foundation for Economic Education** – Ed, Sci, & Tech(5/14)(Martin – 10/14) | Member | Bruce | Martin |  |  |  |  |  |  |  |  |  |  |  |  |
| (Pratka – 10/14) | Alternate | Craig | Pratka | P |  |  |  |  |  |  |  |  |  |  |  |
| **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 |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Alternate2 | Ben | Ocko |  |  |  |  |  |  |  |  |  |  |  |  |
| **Huntington Breast Cancer Coalition** – Health-Based Rep | Member | Mary Joan | Shea |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Alternate | Scott | Carlin |  |  |  |  |  |  |  |  |  |  |  |  |
| **Individual** | Member | Jane | Corrarino |  |  |  |  |  |  |  |  |  |  |  |  |
| **Individual** | Member | Karen | Blumer |  |  |  |  |  |  |  |  |  |  |  |  |
| **Individual** | Alternate | Michael | Madigan |  |  |  |  |  |  |  |  |  |  |  |  |
| **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 |  |  |  |  |  |  |  |  |  |  |  |
| **L.I. Progressive Coalition –** Advoc & Env | Member | David | Sprintzen | P |  |  |  |  |  |  |  |  |  |  |  |
|  | Alternate |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Lake Panamoka Civic Association** (Biss - 04/02) | Member | Rita | Biss | P |  |  |  |  |  |  |  |  |  |  |  |
| (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 | P |  |  |  |  |  |  |  |  |  |  |  |
|  | Alternate | Clara | McManus |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Alternate | Joe | May |  |  |  |  |  |  |  |  |  |  |  |  |
| **Middle Island Civic Association** (Filler 2/17) | Member | Martin | Filler |  |  |  |  |  |  |  |  |  |  |  |  |
| (Nowak 01/15 – 5/15)(Malloy 9/15) | Alternate | Margaret | Malloy |  |  |  |  |  |  |  |  |  |  |  |  |
| **NSLS-II User Committee** – BNL | Member | Jean | Jordan-Sweet |  |  |  |  |  |  |  |  |  |  |  |  |
| (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 |  |  |  |  |  |  |  |  |  |  |  |
| **Suffolk County Legislature 1st Dist.** - Government (added 6/15) | Member | Al | Krupski |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Alternate | John | Stype | P |  |  |  |  |  |  |  |  |  |  |  |
| **Teachers Federal Credit Union** – Bus & Labor (Murdocco 3/15) | Member | Richard | Murdocco |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Alternate | Christine | Stafford | P |  |  |  |  |  |  |  |  |  |  |  |
| **~~Town of Brookhaven~~** ~~(Graves - 06/06)~~ (removed 1/2015) | Member |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Alternate |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Town of Brookhaven, Senior Citizens Office** - Government | Member | James | Heil |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Alternate |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Town of Riverhead** - Government (Doroski - 04/11) | Member | Isidore | Doroski | P |  |  |  |  |  |  |  |  |  |  |  |
| (Hulme - 04/11 - 4/14)(Janis Rottkamp 04/16) | Alternate | Janis | Rottkamp |  |  |  |  |  |  |  |  |  |  |  |  |
| **Wading River Civic Association (Rundlett 09/16)** | Member | Linda | Rundlett | P |  |  |  |  |  |  |  |  |  |  |  |
| (Bail and Guthy removed 11/2016) | Alternate | Terri | Kneitel | P |  |  |  |  |  |  |  |  |  |  |  |