

**Community Advisory Council
October 13, 2011
Action Items/Notes**

Final

These notes are in the following order:

1. Attendance
2. Correspondence and Handouts
3. Administrative Items
4. Briefing on Contamination Issue at the Laboratory
5. Responses to CAC comments on Freon Plume
6. Community Comment
7. Agenda Setting
8. Peconic River Monitoring Data

1. Attendance

Members/Alternates Present: See Attached Sheets.

Others Present: L. Bates, M. Bebon, S. Bogart, H. Carrano, J. Carter, S. Coleman, J. D'Ascoli, N. Detweiler, B. Dorsch, L. Garber, K. Geiger, P. Genzer, D. Gibbs, G. Goode, M. Holland, R. Howe, S. Johnson, T. Kneitel, H. Kahnhauser, R. Lebel, R. Lee, R. Lincoln, M. Lynch, L. Lyons, R. McKay, J. Mollin, E. Murphy, V. Racaniello, D. Ryan, D. Shea

2. Correspondence and Handouts

Items numbered one through four were mailed to Members with a cover letter dated October 7, 2011. Items numbered five through eight were available as handouts at the meeting.

1. Draft agenda for October 13, 2011
2. Draft notes for September 8, 2011
3. Copy of BNL Refrigerant Overview presentation from May 12, 2011
4. Action Item – Hard copy of original draft Charter
5. Revised Draft Agenda
6. Copy of presentation – Responses to CAC comments on Freon-11 Groundwater Contamination, William Dorsch - Groundwater Protection Group, and Ed Murphy - Energy & Utilities
7. Copy of presentation - Peconic River Monitoring Data, Tim Green - Environmental Protection Division
8. Action Item – Additional information on Peconic River 2010 sampling

3. Administrative Items

The meeting began at 6:34 p.m. Jeanne D'Ascoli, Manager, Community Relations filled in as facilitator for Reed Hodgins. She reviewed the ground rules and the agenda. Those in attendance introduced themselves.

Member Peskin asked why the presentation on the Energy Employees Occupational Illness Compensation Program Act (EEOICPA) was not on the agenda.

D'Ascoli said it was postponed due to lack of time. It will be on a later agenda.

Member Garber said he received some information in the mail regarding the program. If anyone is interested in seeing it, he has it with him.

D'Ascoli said there were two Action Items from the previous meeting and that information is available in the packets on the table.

Member Kaplan said the CAC was supposed to receive the original draft Charter and the revised draft Charter by email.

Sherry Johnson, Community Relations, said the original draft was sent out in the mailing to the CAC as a hard copy and the revised copy was handed out at the June meeting. The digital copy will be available next month after it is reviewed.

Member Kaplan said he requested a digital version now so he can compare the two.

D'Ascoli said we will send that out tomorrow.

ACTION ITEM: E-mail copies of the original and new draft Charters.

Approval of Minutes:

D'Ascoli asked for corrections, additions, or deletions to the September 8, 2011 draft notes. Member Jordan-Sweet said that on page 7, two words were left out. It should say, ...in May 2010 *that were* high.... Member Garber said on page 4, a question mark was missing after his question. Also, on page 11, his comment should say, ...that are binding *should be* more like a U.S. Constitution *rather than a NY State Constitution*. Member Chaudhry said on page 4, to add *His question was prompted by GP-31 being out of the transect* to his comment. The notes were approved as amended with none opposed and one abstention.

Prescribed Burn – Tim Green

Tim Green, Natural Resource Manager, reported that the Wildfire Academy will be on-site at the end of October and there is a prescribed burn planned for 15 acres in the northeast corner of Lab property. This is dependent on the weather, humidity, wind, etc. The last successful burn was in 2006 because we have had rain the past few years.

D'Ascoli asked the CAC members to take that information back to their groups and organizations.

Sealed Source Contamination Incident

Michael Bebon, Deputy Director of Operations, reported on a sealed source contamination incident at the Laboratory. He said that George Goode was here to give a detailed presentation on the incident. Bebon explained that a sealed source used to test radiation monitors, that had been tested in July 2011 and found not to be leaking, was found to be leaking on September 28, 2011. It was determined that the source had leaked after a radiation detector was triggered by employees that had used the source earlier in the day. After surveying the work areas, the employees, and their vehicles, it has been determined that there was no health impact. There are a lot of processes and procedures in place to prevent this sort of thing from happening. We are confident in them and when they don't work, it's important to find out why so there is a thorough investigation going on that George will describe.

Bebon also said the Laboratory was investigating a situation where two workers were found to have cheated during a radiological training program exam. These individuals did not work with radiation, but needed to be aware of areas they are not allowed to go into. The exam was for the RAD Worker 1 training classroom course and took place in a proctored classroom setting. We have decided that we can't determine the extent of this event, so we are retraining all employees that took the exam in that setting. During the next two weeks, 400 employees and contractors will retake the test.

Member Henagan asked how you would know if someone taking the test on the computer had cheated also.

Bebon said the online test draws from a database of 200 questions that are constantly scrambled and the test is timed. We are confident there is no opportunity to cheat with the online version of the test.

Member Sprintzen asked who is required to take the test.

Bebon said anyone working in a building that has a Radiological Area, including contractors, custodians, etc. It is to help them understand and know that they are not to enter those areas. The workers that actually do radiological work take much more intense training courses.

Member Guthy asked what could happen if people don't know or understand the information.

Bebon said typically there are trained people in the Radiological Areas who would stop someone from doing something hazardous. The investigation is ongoing.

4. Briefing on Contamination Issue at the Laboratory, George Goode - Assistant Laboratory Director for Environment, Safety & Health

George Goode explained that on September 28, at about 4:00 p.m., a contamination event was reported at the Laboratory. He said they have determined that the event occurred earlier in the day when two Radiological Control Technicians (RCTs) were transporting a sealed source (cesium-137), housed in a lead container called a pig, and the container tipped over. They had placed it on the floor of the Government pickup truck and when it tipped over, one of the RCTs righted the container and they continued working. A small amount of contamination was later found on both technicians' shoes, in the parking lot, in the hallway of Bldg. 923, in the Government vehicle that was used, and in a personal vehicle that one RCT was a passenger in. The sealed source is used to test area radiation monitors and was last checked on July 22, 2011 (no leakage was found at that time). The source is sealed in a container about six inches long and half an inch wide (about the size of a laser pointer). The sealed source is removed from the lead container and held up to the front of the area radiation monitor until a reading is obtained, which shows that the monitor is functioning properly. Sealed sources are used to test monitors without the risk of contamination because they are sealed. In this case, the device failed, and when it tipped over, contamination was spread. The contamination is not visible to the eye, so the RCTs did not immediately know that the source was leaking.

The contamination was discovered when one of the RCTs used the truck again later in the day. He had a radiation detector with him in the truck and realized he was getting a reading on it. He immediately called his supervisor and reported the incident and the Radiological Control Division first responders were called in. The two techs were surveyed and decontaminated. The source was isolated and bagged and the Government vehicle was secured. The paths of travel for the two RCTs were surveyed and several areas were identified as contaminated. These areas were either decontaminated or secured. All workers from Bldg. 923 were called back to work to be surveyed (all were clean). The co-worker was called so that his vehicle could be checked, but we were unable to reach him until the following morning.

We back-tracked and surveyed all areas including Berkner cafeteria, which was found to be clean. Radiation monitors were surveyed to identify the extent of possible contamination. The source had leaked inside the lead container and the tip-over exposed that. When we went back and looked at the log for the radiation monitors, we were able to determine that the source began leaking into the container on or about September 13. Monitors that were tested after that date with this source had a small spot of contamination where the sealed source touched the monitor.

Results from the surveys found that one RCT had contamination on his hands, shirt, and shoes. He was decontaminated and his clothing was disposed of. The other RCT had contamination only on his left shoe. There were six spots approximately three inches in diameter found on the pavement outside Bldg. 923. These were cleaned, painted over to fix the contamination in place, and scheduled for removal. The Lab vehicle had contamination on the floor and some other spots that were transferred from the techs' feet and hands. This vehicle was decontaminated, re-surveyed and released. Two spots of contamination were found on the passengers' side floor mat and rug approximately three inches in diameter each in the co-worker's vehicle. The contamination was removed and the vehicle was re-surveyed and released. The parking area, garage, and home of the vehicle owner were surveyed and determined to be free of contamination.

Both RCTs underwent whole body counts and it was determined that there was no internal dose. The dose to the hand was determined to be 4 mrem (extremity dose limit = 50,000 mrem). Their TLDs were read and the dose for RCT 1 was 0, and RCT 2 was 19 mrem. The doses were within the normal range for C-AD RCTs for the month.

The Lab is aggressively investigating this event. There is an Event Investigation Committee which will analyze the incident and develop corrective and preventive actions to understand the cause and prevent a recurrence. There is a Communications Committee which will analyze the timeliness and effectiveness of event communications, and develop recommendation for improvement. There is a Contractor Assurance Committee which will analyze the assessment procedures and processes to determine how they could be improved. There is also a rolling stand-down of radiological operations, during which time all sources will be leak-tested and we will review contamination control procedures and practices.

Member Peskin asked what the half life of cesium-137 is.

Goode said it is 30 years.

Member Shea asked what the variation in the levels found on the shoes and pavement was.

Goode said there was a wide range.

Dennis Ryan, Radiological Control Division, said they ranged from several hundred ppm to several hundred thousand ppm where the source touched the radiation monitor.

Member Shea asked why the technicians weren't wearing gloves.

Goode said the source is encapsulated, so it's not considered contamination work. There was no expectation of the spread of contamination. If it were dispersible, there would be a lot of personal protective equipment required.

Member Jordan-Sweet asked if that pig is dedicated to that source or if it used for others.

Goode said they have been together for over 20 years.

Member Henagan asked what caused the leak. Was it cracked, or due to impact?

Goode said the Investigative Committee is empanelling experts to determine how it failed. It is complex. It could be failure from wear and tear, age, a crack, radiation fatigue. There is nothing observable.

Member Garber said the Lab has spent a lot of time on ISO certification. How could this happen?

Goode said there is room for improvement in our procedures, work planning, and training. We have learned that a semi-annual leak check is not good enough.

Member Garber said perhaps they could add something to the source so that when a crack or leak happens, it would be visible.

Goode said we are now using a small, solid, cobalt source.

Member Corrarino asked if either worker washed his hands before he realized he had contamination on them.

Goode said no.

Member Corrarino asked if it is standard procedure to carry this in the front seat of a vehicle.

Goode said yes for this sealed source. There are other types that have more stringent requirements for transport.

Member Corrarino asked if there are requirements for how it is secured in a vehicle.

Goode said there are standards for how it is restrained in a vehicle. It must be secured against movement in the vehicle.

Member Kaplan asked if this source was used after September 13, or was this the first time.

Goode said it was used a number of times between the 13th and 28th.

Member Kaplan said if it was leaking on September 13th, wouldn't you have found radiation contamination earlier?

Goode said it was slowly leaking into the lead container. The tech would take it out, touch it to the radiation monitor and put it back in. It was leaving a small spot on the monitor and nothing else until it tipped over.

Member Murdocco asked how the dosage compares to an x-ray.

Goode said a dental x-ray is 1 mrem, a chest x-ray is 5 mrem, a cat-scan is over 100 mrem, a coast to coast flight is 5 mrem. Background on Long Island, from all sources is 300 mrem, so this is small. But there is no benefit and it is unplanned, so it is unacceptable.

Member Jordan Sweet asked if the manufacturer had given this source a shelf life.

Goode said that is something we are looking into. There is no specified useful life, unless it's a sealed source with a certificate. Then there is an age with the certificate.

Member Shea asked why there was no contamination in the cafeteria.

Goode said they found a lot of places the RCT went to that had not been contaminated. For example, there was only one spot under his desk. The rest of his office was clean.

Member Kaplan asked what it looks like.

Goode said we don't know. It is likely a cesium chloride salt, which has either been mechanically encapsulated inside or mixed with a resin and placed in the end of the tube and then mechanically sealed.

Member Kaplan asked if this is a considered a hot particle.

Goode said no, it is invisible. The levels of contamination are microscopic.

Member Chaudhry asked if washing it would spread it.

Goode said they wash it and then sop it up so it does not spread. Painting fixes it so it does not disperse.

5. Responses to CAC comments on Freon Plume, William Dorsch - Groundwater Protection Group, and Ed Murphy - Energy & Utilities

William Dorsch, Groundwater Protection Group, gave a follow-up to last month's presentation. He reviewed the plume and the extent of Freon-11 contamination. He said the plume is 300 feet wide and 600 feet long with a maximum concentration of 36,000 ug/L. It probably originated in the area of Bldg. 452 and we estimate the spill was about 15 – 25 gallons and occurred about two or three years ago.

The Lab has developed plans to hydraulically control and remediate the plume early for maximum efficiency. A new extraction well was installed to capture the high concentration portion of the plume. The existing Bldg. 96 extraction well will capture the lower concentration part of the plume. Twelve new monitoring wells were installed. The groundwater near Bldg. 452 will be monitored for the next year to determine if there is a continuing source. According to the OU III Record of Decision (ROD) on groundwater, the Lab must meet drinking water standards for VOCs, prevent or minimize further migration of contaminants, and complete clean-up of the Upper Glacial Aquifer by 2030, so it would not be possible for us to leave the Freon-11 in the ground.

We have recommended to the regulators that we include the plume under the OU III ROD, designate the location a new Area of Concern (#32), and document it with an Explanation of Significant Differences (ESD). Three alternatives have been evaluated: liquid phase granular activated carbon, air stripping with air emissions treatment, and air stripping without air emissions treatment. Dorsch explained the three alternatives and explained why the Lab decided that the air stripping without air emissions treatment was the best treatment method. The system is expected to begin operation in early in 2012 and we will continue to update the CAC, BER, and the Lab community.

Member Kaplan asked if there could be a continuing source. Could there be more than 15 – 25 gallons?

Dorsch said we don't know yet, there is the possibility that it could be trapped in the unsaturated zone. We don't anticipate that there is a continuing source, but it's always a possibility.

Member Doroski asked if there are any vapor degreasers in that shop.

Dorsch said no.

Ed Murphy, Energy & Utilities, then explained the actions that are being taken to better secure BNL's refrigerant inventory. He said all R-11 (also known as Freon-11) has been moved to the Central Chilled Water Facility, Bldg. 600, which is where most of this refrigerant is used. This building is staffed and supervised 24 hours a day, 7 days a week, and 365 days a year. It is temperature controlled, the drums of refrigerant are stored on secondary containment, and the

building has a refrigerant detection system which would alarm BNL's Fire Dept. in the event of a leak. We plan to have a log which will inventory all refrigerant housed in the CCWF. We have also re-purposed a hazardous material storage building for high pressure refrigerant storage, which is 80 percent complete. This building was designed for hazardous material storage and has card-reader access, which records all those who access the building. The Lab is holding information sessions and retraining the A/C mechanics on R-11 and groundwater. We will also be making revisions to our refrigerant management plan including updates for the new storage locations, new inventory management procedures and organizational changes and job titles.

Member Garber asked if one drum ruptures and releases all of its Freon to the atmosphere every 3 or 4 years, is that within the release standards? According to this presentation, New York State's release guidelines are very high. I always thought attacking the ozone layer is a concern and this product has been banned. If it's ok to release large amounts, why be so concerned about storage of the drums.

Murphy said the primary goal of our refrigeration management plan is to identify refrigerant leaks from machines. The goal is to greatly reduce fugitive emissions of chlorofluorocarbons, so we want to track how much refrigerant goes into machines to know if they have long-term slow leaks. The same goes for storage, we want to make sure the containers don't leak.

Member Shea asked what percentage of refrigerants would be considered environmentally friendly.

Murphy said he does not remember the figures, but that information was on a prior presentation. There has been a gradual, steady transition as machines age and are replaced. We have a formal program to replace a couple of machines every year to go from the older, more ozone depleting refrigerants to the newer, better ones. We are probably about two-thirds of the way there.

Governor's Economic Development Proposal

Michael Bebon told the CAC that the New York State Governor has put up \$1B state-wide to fund projects and activities that will help stimulate the economy. He has established ten regional councils. The one on Long Island is the LI Regional Economic Development Council. They are soliciting for projects to be submitted to a central committee that will decide how funding is made available and to what projects. We have come up with a proposal with Stony Brook University for a center called SGRID³ (Smarter Grid Research Innovation Development Demonstration Deployment Center). This will consist of two facilities, one at Stony Brook that will add capabilities to the facility that they have now that does their energy research work, and one to be constructed at Brookhaven Lab. Both of these will have complimentary missions. The mission of the one at BNL will be to create a facility that will model and monitor the electrical grid in NYS and the surrounding region. The grid would be instrumented at key points and all that data will be fed to Brookhaven, where we will use our supercomputing capabilities to create a model of how the grid behaves under varying conditions. This will parallel a facility on the west coast at Pacific Northwest National Laboratory. The vision for this center is that in addition to the grid modeling, we would also engage with electrical utility industry participants, people that will be manufacturing the components that will be a part of the grid as we transition it to have features that will make it smarter and better able to use the energy that it transmits. This will be linked into the work that we are doing in storage. This facility along with the companion facility at Stony Brook has the goal of revolutionizing the electrical grid and establishes the techniques that will become a part of it and as a result, reduce electrical cost by 5 – 10 percent. We are still working on this proposal, but are under a time pressure. The scope of this project is \$70 - \$80M over a three-year period and the Lab and Stony Brook are proposing that this facility be funded by the LI Regional Development Council under the Governor's program. One of the aspects of the scoring of these proposals is letters of support from government groups, community groups,

Labor groups, and the Business community. We were wondering if the CAC would be willing to provide a letter of support for this proposal.

Member Murdocco asked who this project will be competing with. He asked if the Ronkonkoma Hub was one of them.

Bebon said he does not know what the other projects are. I have been told there is a wide range of projects being submitted. There are two levels of projects; large and transformative and then smaller projects that are specific to a particular area. This project is being submitted as a transformative project and there will be only a few of those that will get funded. We are doing some of this work now and are very excited about it. The proposal is still coming together and has to be finalized by 4 p.m. tomorrow. We have received a number of letters of support already. People see the need to upgrade the electrical grid and provide better control over how we dispatch and utilize electricity and we need to decrease the losses of the system. This project will make all that happen on a much shorter time frame than without it.

Member Sprintzen said it sounds like an excellent project, but he is uncomfortable because he does not have enough information about the project or an understanding of the implications with respect to other potential projects and other commitments his organization might have. He cannot take the position in favor without having some time to vent it with other people. I understand the time pressure. Is this something that can wait until the next CAC meeting?

Bebon said the proposal has to be in by 4 p.m. tomorrow and we'd like to have as many letters of support as possible to submit along with it, but there is time after that for people who feel that they can't do it now. I would say the sooner the better.

Member Henagan asked if he knows anything about the other transformative projects being submitted.

Bebon said he does not know. There are ten regions around the state that are submitting projects.

Member Sprintzen said I need to find out more.

Bebon said the Lab was preparing the proposal on their own using what they thought a proposal should look like and then late last week the guidance came out and we had to start from scratch and answer a lot of questions that we had not addressed in our original drafts. The scoring around letters of support was conveyed to us last Thursday night. If we had known that, we would have provided you with more information sooner.

Member Chaudhry asked where the CAC can find more information.

Bebon said we can distribute some information to the group in a fact sheet.

Member Kaplan asked, beside the supercomputing ability, what expertise the Lab brings to the table on this.

Bebon said there are people involved in the research at the solar array and the renewable portion of that. We have people engaged with the battery energy consortium, the smart grid consortium, and one of our ALDs is the chair of the NY Energy Policy Council. There are a lot of people working in this and then there are the basic research elements.

Doon Gibbs, Deputy Director for Science and Technology, said it is part of a much larger integrated energy proposal that involves solar energy, energy storage, and the grid. The Control

Center would couple with the solar array and the analysis that comes out of that, as well as with the work that is being done in energy storage. It's part of the bigger picture.

Member Kaplan said he is not aware of anyone at the Lab who has that kind of expertise.

Gibbs said we are building the grid now. It's small at this point, but we have strong interest from the State and wonderful contacts with the Pacific Northwest group. The proposal is a couple weeks old, but the idea is several years old. We have been talking about this for a long time and the idea has been positively embraced.

Member Garber said research in this area goes way back. Solar energy is unstable. A lot of research still needs to be done.

Gibbs said the vision is to work all that out and link the east and west coast. One of the side benefits is that there would be savings in electrical costs and it would create jobs.

Bebon said Stony Brook is also interested in the cyber security aspect of the smart grid and the storage component of hybrid vehicles.

Member Kaplan asked if this is just a New York State opportunity.

Bebon said yes, it is the Governor's proposal. One of the reasons we are so attractive is because we can leverage federal funding and other resources.

Member Kaplan asked if any other academic institutions are involved. What about MIT?

Gibbs said not on this proposal. We are interested in working with MIT on a range of issues, but not on this proposal.

Bebon said it is envisioned that these facilities will draw in collaborators from academia, utilities, and industries that hope to manufacture future smart grid components. The facility at Stony Brook will include a test facility for components to be installed in the smart grid so manufacturers can come there and test their technology.

Member Corrarino asked how many projects will be funded and when a decision will be made.

Bebon said it did not say how many projects will receive funds. There is a scoring criteria and each regional council will score the projects that they receive. I was told there are already hundreds of the smaller projects submitted for Long Island. I don't know when a decision will be made. All we know is that there is a total of one billion dollars, \$200M available now and another \$800M available later.

Member Murdocco said the Town of Islip has submitted a project that looks to reinvest the money through research and development. A lot of the projects being submitted are standard TOD developments.

Member Garber said the solution to the national grid will require long distance DC transmission lines that will be superconducting and that is where BNL has a strength and therefore they should be in this proposal.

D'Ascoli asked the CAC members around the table how they feel about the proposal. She said if individual organizations choose to send in a letter of support, the Lab will collect them and send them in together.

Member Birben said she would like to see a fact sheet on the proposal. Based on what she heard tonight, as an individual, she would support this, but she needs to go back to her Concerns Committee and the community to get their feedback.

Member Murdocco said he cannot comment until he checks with the Pine Barrens Society.

Member Feinman said he has to go back also, but the proposal looks favorable.

Member Shea said it sounds interesting. She hopes it will protect the grid but she needs to go back to her group as well.

Member Jordan-Sweet said some organizations in her group may be competitors for this proposal so it might be hard to get support.

Member Garber said it would be better if we had clearer insight into the project. Each group could possibly get multiple letters from the members of their prospective groups.

Member Corrarino said she would support this, but there needs to be an abstract summary.

Member Biss said she needs more information before a decision can be made.

Member Peskin said he would support this proposal, unless the details show something not favorable.

Member Kaplan asked for the names of the principles involved in the research.

Member Guthy said she needs to go back to her organization with a fact sheet. She will then send it out to board members rather than waiting for the next meeting.

Member Malloy said she personally would support this, but needs to bring a summary of the proposal to the American Physical Society.

Member Krsnak said his organization would support this. The Director is trying to get more funding for the Lab; they need the CAC's support.

Member Henagan said everyone needs to go back to their organizations. He suggested that a fact sheet be put together and a letter of support drafted that could be emailed to everyone.

Member Doroski said the Town of Riverhead would endorse this proposal. Our Country is facing a huge energy challenge and this project will address this issue.

Member Chaudhry said he is usually pro-development. He wants to give his support, but needs a fact sheet and wants to know the impact on the community and any benefits.

D'Ascoli said the Lab will email a fact sheet and a draft letter out as soon as possible. The letters need to come back to the Lab and they will all be submitted together.

ACTION ITEM – Email fact sheet on proposal to CAC

6. Community Comment

There was no community comment.

7. Agenda Setting

Nora Detweiler, liaison to the CAC, said there will be an update on the BGRR in November, as well as a presentation on EEOICPA by Dr. Joe Falco, and homeland security. We will email you

a copy of the draft Charter and we will have further discussion on the Charter next month. We will have information on the smart grid. If there is anything else, please let us know.

D'Ascoli asked the CAC if it is okay to adjust the agendas as presenters are available.

The CAC agreed.

8. Peconic River Monitoring Data, Tim Green - Environmental Protection Division

Tim Green, Environmental Protection Division, told the CAC that the Peconic River sampling program is being moved from the Long Term Response Action group to his program, Surveillance Monitoring, because post-cleanup monitoring is winding down and the amount of sampling is going to be greatly reduced.

He gave a refresher on the Peconic River cleanup, went over the 2010 monitoring results, and reviewed all the data for the last five years. He said that based on the results of the 2006-2010 fish monitoring, the sampling locations will be reduced from six to four. The next sampling event will be in 2013 and will continue every other year. We will continue to look at the age of individual fish.

Member Shea said the EPA guideline for fish consumption is one meal per week per person. Is that for the average man?

Green said it is for the average person. There are stricter recommendations for a pregnant woman or child.

Member Garber said there is a large mercury reading in Donohue's Pond for largemouth bass. He asked if all three samples were that high or if that is the average.

Green said there was only one fish with a high reading, causing the overall average to be high.

Member Chaudhry asked why the concentrations appear higher in the smaller fish.

Green said mercury is absorbed through the gills. Using fish is not a good measurement because they move around, that's why we use sediment to determine cleanup.

Member Doroski asked if any of the testing locations are in the Town of Riverhead.

Green said yes.

Member Doroski asked if there were any elevated levels found in those areas.

Green said yes.

Member Doroski then asked if there has been a statistical drop after cleanup and if it is safe to eat the fish found in the Town of Riverhead.

Green said there has been a steady drop in levels; it is safe to eat one meal a week of fish taken from any water in New York State.

D'Ascoli told the CAC to watch their emails for information on the Governor's proposal and the draft Charter. She asked them to please review the draft Charter prior to the next meeting.

The meeting adjourned at 9:17 p.m.

Agenda Topics
February 10, 2011 Poll

Homeland Security – 9
Nanotechnology Developments & Standards – 7 (3/10/2011 - E. Mendez)
Science & Politics – 7
Overview of BNL Land Use Plan – 6
Sustainability – 6
Photovoltaics – 6 (3/10/2011 - E. Mendez and R. Lofaro)
PET/MRI Research – 6
LISF Tour Prior to Completion – 6
~~Business/Lab Integration of New Technologies~~ – 6 (4/14/11 – Walter Copan)
Nano Patterning – 5
Natural Resources Management Plan – 5
Nuclear Non Proliferation – 4
Nuclear Safety – 4
Catalysis & Super Conducting Magnets – 3
Cosmology – 3
Accelerate Long Island as information becomes available - 3
Safety Progress – 2
CRADAS – 2
Radio Isotopes – 2
Nuclear Stewardship - 1
Technology Transfer – 0 (4/14/11 – W. Copan)

P = Present	2011	Affiliation		First Name	Last Name	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
ABCO	(Garber added on 4/10/02)	Member	Don	Garber				P	P	P	P			P	P		
ABCO	(Madigan added 10/10)	Alternate	Michael	Madigan	P	P			P						P		
American Physical Society		Member	Margaret	Malloy			P	P	P		P			P	P		
Brookhaven Retired Employees Association (Peskin replaced Campbell 09/09)		Member	Arnie	Peskin			P	P	P	P				P	P		
Brookhaven Retired Employees Association (Franz 12/09)		Alternate	Eena-Mai	Franz	P	P				P	P			P			
CHEC (Community Health & Environment Coalition (added 10/04)(Anker removed 9/11)		Member															
(added 12/08) (R. Andrejkovics removed 9/09)		Alternate															
Citizens Campaign for the Environment		Member	Adrienne	Esposito	P				P	P	P			P			
Citizens Campaign for the Environment (K. Jacobs off 1/08)		Alternate															
Colonial Woods Whispering Pines (added 06/09)		Member	Christine	Birben	P	P	P	P	P	P	P			P	P		
Colonial Woods Whispering Pines (added 09/09)(Rehbein added 11/10)		Alternate	Eric	Rehbein	P	P			P	P	P			P			
E. Yaphank Civic Association		Member	Michael	Giacomaro			P	P	P	P	P			P	P		
E. Yaphank Civic Association (J. Minasi new alternate as of 3/99) (M. Triber 11/05) (Munson 6/06) (Feinman 2/09)		Alternate	Bob	Feinman	P			P	P	P				P	P		
Educator (changed 7/2006)(Bush member 5/10)		Member	Greg	Bush			P	P	P	P	P			P			
Educator (B. Martin - 9/01)		Alternate	Bruce	Martin													
Educator ((Bush 5/09)		Alternate	Adam	Martin													
Fire Rescue and Emergency Services (J. Williams removed 3/11) (F R & E services resigned 2/2011)		Member															
Fire Rescue and Emergency Services (D. Lynch removed 3/11)		Alternate															
Fire Rescue and Emergency Services (J. McLoughlin removed 3/11)		Alternate															
Friends of Brookhaven (E. Kaplan changed to become member 7/1/01)		Member	Ed	Kaplan			P	P						P	P		
Friends of Brookhaven (Schwartz added 11/18/02)		Alternate	Steve	Schwartz					P								
Health Care		Member	Jane	Corrarino	P			P	P		P					P	
Health Care		Alternate															
Huntington Breast Cancer Coalition		Member	Mary Joan	Shea	P	P	P	P			P					P	
Huntington Breast Cancer Coalition		Alternate	Scott	Carlin				P									

P = Present	2011	Affiliation	First Name	Last Name	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
		Intl. Brotherhood of Electrical Workers/Local 2230 (S. Krsnak replaced M. Walker 1/11/07)	Member	Scott	Krsnak			P	P		P		P	P		
		IBEW/Local 2230 (off mailing list 8/2009)	Alternate	Philip	Pizzo											
		L.I. Pine Barrens Society	Member	Richard	Amper											
		L.I. Pine Barrens Society (Motschenbacher 6/09)	Alternate	Beth	Motschenbacher	P	P	P	P							
		L.I. Pine Barrens Society (Murdocco 4/11)	Alternate	Richard	Murdocco				P	P			P	P		
		L.I. Progressive Coalition	Member	David	Sprintzen	P	P		P	P	P		P	P		
		L.I. Progressive Coalition	Alternate	None	None											
		Lake Panamoka Civic Association (Biss as of 4/02)	Member	Rita	Biss	P	P	P	P	P	P				P	
		Lake Panamoka Civic Association (Gibbons off 1/10)(Grandal added 10/10)	Alternate	Bonita	Grandal	P			P	P	P			P	P	
		Long Island Association (Groneman replace 10/05)	Member													
		Long Island Association (LIA resigned Evanzia removed 2/11)	Alternate													
		Longwood Alliance	Member	Tom	Talbot		P	P		P				P		
		Longwood Alliance	Alternate	Kevin	Crowley											
		Longwood Central School Dist. (switched 11/02)(Castro replaced Henigin 6/09)	Member	Maria	Castro	P	P	P	P					P		
		Longwood Central School Dist.	Alternate	Allan	Gerstenlauer											
		NEAR	Member	Jean	Mannhaupt			P								
		NEAR (prospect taken off ¾) (Blumer added 10/04)	Alternate	Karen	Blumer		P		P		P					
		NSLS User	Member	Jean	Jordan-Sweet		P	P	P	P	P			P	P	
		NSLS User (P. Stephens removed after contact regarding new address failed mail returned 5/2010) (Ravel added 2/11)	Alternate	Bruce	Ravel			P	P	P	P			P	P	
		Ridge Civic Association	Member	Pat	Henagan		P	P		P	P			P	P	
		Science & Technology (added 1/1/05)	Member	Iqbal	Chaudhry		P	P		P	P			P	P	
		Town of Brookhaven (Graves made member 6/06)	Member	Anthony	Graves	P										
		Town of Brookhaven (Ormond 9/10)	Alternate													
		Town of Brookhaven, Senior Citizens	Member	James	Heil	P	P	P	P	P	P			P		
		Town of Brookhaven, Senior Citizens (open slot as of 4/99)	Alternate													
		Town of Riverhead (Conklin until 12/09)(added 4/11)	Member	Isidore	Doroski						P				P	
		Town of Riverhead (added 4/11)	Alternate	Suzanne	Hulme					P				P		
		Wading River Civic Association	Member	Helga	Guthy		P	P	P	P	P			P	P	
		Wading River Civic Association	Alternate	Sid	Bail											