

## NEW JERSEY CLEAN AIR COUNCIL

### Clean Air Council Members

Jorge H. Berkowitz, Ph. D., Chairman  
Michael Egenton, Vice Chairman  
Richard Aicher  
Ferdows Ali, Ph. D.  
Leonard Bielory, M.D.  
James Blando, Ph. D.  
Joseph Constance  
George Currier, P.E.  
Elease Evans  
Gene Feyl  
Marcelino Iglesias  
Richard M. Lynch, Ph.D.  
Raymond M. Manganelli, Ph.D.

### Clean Air Council Members

John Maxwell  
Stephen J. Papenberg  
Gilberto Soto  
Irwin Zonis

### Clean Air Council Liaison

Sonia Evans, CAC Liaison  
Telephone 609-633-2007  
Fax 609-984-6369

[cac@dep.state.nj.us](mailto:cac@dep.state.nj.us)

CAC Web Site

<http://www.state.nj.us/dep/cleanair>

DEP Electronic Bulletin Board  
609-292-2006

Approved: June 9, 2004

### **NJ CLEAN AIR COUNCIL MEETING RECORD**

May 12, 2004, 9:30 a.m.  
NJ State Chamber of Commerce  
1<sup>st</sup> Floor Main Conference Room  
216 West State Street  
Trenton, NJ 08608  
(609) 989-7888 ext. 119

**CALL TO ORDER:** Jorge Berkowitz opened the meeting.

**COUNCIL MEMBERS PRESENT:** All of the Council members were present with the changes noted below. (**See Attachment 1 – Attendance Sheet**)

**EXCUSED:** George Currier, Elease Evans, Gene Feyl, Marcelino Iglesias, Richard Lynch  
**ABSENT:** Richard Aicher  
**NJDEP:** Bill O’Sullivan, Director, Division of Air Quality; Bob Stern, Acting Manager, Bureau of Air Quality Planning, Division of Air Quality  
**SPEAKERS:** Richard Dunk, Ph.D., CCM, Director, Coastal Laboratory for Applied Meteorology Institute of Marine and Coastal Sciences, Rutgers University; Louis Bowers, Technical Assistant, Rutgers University  
**PUBLIC:** Dennis Poole, NJ Environmental Lobby, Eileen Hogan, Hearing Report Writer

### **Meeting Record**

Roll call was taken. Vice-Chairman called for motion to approve the March minutes. Irwin Zonis motioned that the minutes be approved, seconded by Dr. Bielory. The March Minutes were approved as submitted.

### **Administrative Report**

*Bill O'Sullivan, Director, Division of Air Quality*

- Dominion Power Company (formerly Virginia Electric Power Company) has issued a check in the amount of \$2.7 million to New Jersey Transit in accordance with provisions of a Consent Decree entered October 10, 2003, Civil Action 03-CV-517-A, United States District Court of the Eastern District of Virginia. The monies will be used to retrofit 300 buses owned and operated by NJ Transit with diesel particulate filters.
- The Department of Homeland Security hired a contractor to conduct audits of laboratory and field operations in the various agencies that participate in the BioWatch Monitoring Program. New Jersey field operations received a final grade of 5 (out of 5) and the report findings read in part: "The...New Jersey field operations crews performed in an outstanding manner. The field technicians were extremely knowledgeable and performed all tasks with relative ease, despite inclement weather. The New Jersey field operations team excelled in their documentation procedures.... Cooperation between the two organizations was evident as the filters were delivered to the lab without incident..."
- In accordance with their legal deadline, the US Environmental Protection Agency released its final 8-hour ozone nonattainment area designations. Ocean County will be part of the Philadelphia nonattainment area, as requested by NJDEP.
- On March 29, 2004, the Consumer Products (including Portable Fuel Containers) rule was adopted. This adoption represents implementation of two Ozone Transport Commission (OTC) model rules to reduce volatile organic compound emissions. Two additional OTC rules remain to be adopted.
- A general permit for boilers 10 million British Thermal Units (BTU) to 50 million BTU was announced in the New Jersey Register on April 5, 2004. Such moderate-sized boilers are found at chemical, pharmaceutical and other manufacturers, municipal complexes, educational complexes and similar sized facilities.
- Our Paterson air toxics monitoring project was just approved for funding by EPA (about \$500,000). Linda Bonanno of Policy, Planning & Science is the project manager.
- California Car Bills have passed in Connecticut and Rhode Island.
- On April 22, Connecticut suspended their Inspection/Maintenance program for 90 days after an independent audit discovered technical problems, faulty test results and test Q/A safeguards, as well as alleged fraud by at least one testing station.
- An April 26, 2004 letter from Walter Mugdan of USEPA, Region 2 advised that the USEPA would not approve State Implementation Plan (SIP) revisions giving more time to comply with the NOx RACT rule (N.J.A.C. 7:27-18) as result of the repeal of New Jersey's Open Market Emissions Trading (OMET) Program. Specifically, the USEPA is concerned that the one year compliance deadline is too lax (EPA suggested six (6) months), and objects to new rule provisions that allow facilities to use NOx Budget allowances for compliance with NOx RACT. Even though NJ's OMET Program has been repealed, six-seven companies continue to trade emissions.
- The Clean Air Council commented on EPA's proposal to incorporate risk-based exemptions into MACT. The Plywood MACT and Boiler & Process Heater MACT standards have this exemption. The rules have been signed, but have not yet appeared in the Federal Register.

## **The Influence of the NJ *Sea Breeze* On the Transport, Dispersion, and Deposition of Pollen**

*Richard Dunk, Ph.D., CCM, Director, Coastal Laboratory for Applied Meteorology  
Institute of Marine and Coastal Sciences, Rutgers University*

### **1) Current and proposed monitoring systems along and adjacent to the coast.**

- In-situ monitors: meteorological towers, atmospheric flux towers, and pine pollen samplers.
- Remote sensing: high-resolution satellite imagery, Wx Radar, SODAR, and RASS.

### **2) Atmospheric models for simulating sea breeze circulations and particle transport and dispersion.**

- Weather Research Forecast (WRF) model, CALPUFF, and HYPACT.
- Wind field simulations, atmospheric stability/turbulence determination, and atmospheric transport/dispersion assessment.
- Thermal Internal Boundary Layer (TIBL) wind tunnel studies and resultant TIBL algorithm development; the TIBL becomes the effective mixing height for air pollutants and pollen within the sea breeze circulation.

### **3) Pine Pollen transport and dispersion.**

- Source characterization.
- Similarities to “fine particulate”.

### **4) Status of current and proposed projects.**

- Monitoring systems and model development established through current studies funded by the NJBPU, DOE, USDA/USFS, and NJDEP.
- Proposed collaboration among Rutgers, UMDNJ, NJDEP, and the USDA/USFS.

## **NEW BUSINESS/OLD BUSINESS**

- Members unanimously agreed with suggestion to write letter to Governor McGreevey with a copy to Commissioners Campbell and Lacey thanking Charles Pietarinen for his work in the Bio-Launch Monitoring Program
- Jorge Berkowitz suggested a meeting with Commissioner Campbell to reappoint Joseph Spatola to the Council. Dr. Bielory reaffirmed the suggestions. Jorge Berkowitz called for a motion to request a meeting. John Maxwell seconded the motion gladly and enthusiastically. The motion was carried with no opposition.
- Annual Hearing Report Sub-committee to finalize hearing report with Eileen Hogan for review at June meeting
- Review May minutes
- Review Draft letter to Commissioners Campbell and Lacey
- Vice-Chairman called for motion to adjourn the meeting. Dr. Bielory made the motion to adjourn, seconded by Gilberto Soto. The meeting was adjourned

## **ARTICLES OF INTEREST**

- New Clips

## **NEXT MEETING**

June 9, 2004, 9:30 a.m., Cooper's Ferry Development Association, 1 Port Center, 2 Riverside Dr, Suite 501, 11<sup>th</sup> Floor Board Room, Camden, NJ 08103