Evanston Environment Board
Thursday, June 9, 2011, 7:00 P.M.
Lorraine H. Morton Civic Center, 2100 Ridge Avenue, Room 2200

AGENDA

I. Approval of Minutes from May (attachment)

II. Citizen Comment (Please sign in)

III. Disposable Bag Ban Update, C.Burrus, invited

IV. Bikes and the Multi-Modal Transportation Plan, H.Bartling and E.King
   a. Business Demo Project Update

V. Stormwater Management, L.Cheng
   a. Status of City/Board Collaboration and Sheridan Road Green Infrastructure Update

VI. Boards, Commissions, and Committees Training, C.Caneva
   a. General BCC Review
   b. Two-year workplan

VII. Board Leadership Elections

VIII. Ongoing Business/News (30 minutes)
   a. Composting Update (A.Viner/C.Hurley)
   b. GBO Amendment Updates (P.Finnegan)
      i. For Council Action: Monday, June 13th
   c. Wind Committee (K. Glynn)
   d. Milk Carton Recycling (A. Viner)

IX. Open Discussion

X. NEXT MEETING – Thursday, July 14, 2011
MEETING MINUTES
Evanston Environment Board
Thursday, May 12, 2011
7:00 p.m.
Lorraine H. Morton Civic Center, 2100 Ridge, Room #2200

Members Present: Paige Finnegan, Susan Besson, Jill Franklin, Kevin Glynn, Suzanne Waller, Likwan Cheng, Ellen King

Members Absent: Anne Viner, Dan Cox, Laurie Zoloth

Staff Present: Carl Caneva, Health; Catherine Hurley, City Manager’s Office

Presiding Members: Paige Finnegan and Susan Besson

DECLARATION OF QUORUM
With a quorum present, Co-chair Paige Finnegan called the meeting to order at 7:08p.m.

APPROVAL OF MEETING MINUTES April 14, 2011
It was moved and seconded that the minutes of the April 14, 2011 meeting be approved. A voice vote was taken and the minutes were approved as written.

PRESENTATION BY THE ACTIVE TRANSPORTATION ALLIANCE (BARB CORNEW & ADOLFO HERNANDEZ)
Mr. Hernandez provided a powerpoint presentation (attached), including photographs taken in various international locations that illustrate a ‘complete streets’ approach. (See http://www.completestreets.org/ for more info.)

He indicated the following are hallmarks of a successful program:
- A commitment to the pedestrian rather than the automobile
- Use of economically effective materials i.e., paint, planters to develop safe pedestrian spaces
- Bike rental depots located near destinations to avoid rider isolation
- A ‘road diet’ – ideal for locations that experience under 29,000 vehicles/day traffic, can improve conditions
- A city’s iconic street can effectively demonstrate ‘complete streets’ principles

The Active Transportation Alliance is able meet with City of Evanston to discuss the implementation of ideas that have been used and how they work with grant opportunities and current ordinances. Board Member Hugh Bartling, who has been working on this issue, will follow up with ATA to coordinate a meeting with the organization and City staff, and possibly the Evanston Chamber of Commerce.

K. Glynn requested information regarding the funding of the Active Transportation Alliance. Ms. Cornew indicated funding came from contracts, grants, and fundraising.

BIKES AND THE MULTIMODAL TRANSPORTATION PLAN (HUGH BARTLING & ELLEN KING)
Members H. Bartling and E. King met with several business organizations, including Carolyn Dellutri of
the Downtown Business Association, regarding the installation of bike racks. All were very supportive and looked forward to locating new spaces for bikes. Mr. Bartling and Ms. King will continue to work with business districts and report back to the Board on progress.

STORMWATER MANAGEMENT (L. CHENG)
Member L. Cheng presented information about the lifecycle of pavement to the Board. The presentation is attached.

Member K. Glynn and C. Hurley discussed the Sheridan Road project and potential for involving permeable pavement. Co-Chair Besson requested the Multi-Modal Transportation Plan be kept in mind as this moves forward.

BOARD AND COMMISSION TRAINING & WORKPLAN (C. CANEVA)
This issue was tabled, for the June meeting

OLD BUSINESS
C. Hurley reported the Composting Ordinance was in development and was being considered with the Board’s comments from 4/14/2011 in mind. The main issue being considered was the containers for the compost. City staff believes it has solved the issue of enforcement with existing nuisance, health, and property standards ordinances.

Chair Finnegan gave an update regarding the Green Building Ordinance. The GBO committee was reconvened and continues to meet to revise the Ordinance at Council’s request. The next (and likely final) meeting of the Committee is May 16th and we expect to have the finalized information ready for Council in June.

Member K. Glynn spoke about the Wind Committee indicating the group had met and had several discussions. Still at issue is bringing power generated by turbines into the City of Evanston as the distribution stations cannot currently handle it. C. Hurley is leading some of the committee members to a wind farm in Indiana to view it during day and night time hours.

C. Hurley updated the Board on discussions that continue regarding a possible disposable bag ordinance. The proposed bag tax has been replaced by a ban on bags altogether. A community meeting to discuss the issue is set for Tues., May 24.

Co-Chair Finnegan and Co-Chair Besson reminded members there would be elections for co-chairs at the next meeting, June 9.

Co-Chair Finnegan and the Board welcomed new member Jill Franklin.

ADJOURNMENT
The meeting was moved and seconded to adjourn. A voice vote was taken and the motion was approved at 9:08 p.m., May 12, 2011.

Respectfully Submitted,
Carl Caneva
Division Manager Health
AN ORDINANCE

Amending Various Portions of the Green Building Ordinance

NOW BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY

OF EVANSTON, COOK COUNTY, ILLINOIS:

SECTION 1: That Section 4-25-2 of the Evanston City Code of
1979, as amended (“City Code”), is hereby further amended to include the
following definition:


SECTION 2: That Section 4-25-3 of the City Code is hereby further
amended to read as follows:

4-25-3: NEW CONSTRUCTION AND ADDITION REQUIREMENTS:

New construction and additions ten thousand square feet (10,000 sq. ft.) or
greater to City-owned or fully or partly City-financed buildings, and new
construction and additions ten thousand square feet (10,000 sq. ft.) or greater to
all commercial and multi-family buildings, shall employ, as specified hereinafter,
either ESBMIR or the version of the LEED Rating System applicable to
said project in effect one hundred eighty (180) days prior to the date of
application for a building permit, and shall achieve the following:

(A) for City-owned or City-financed facilities: LEED Silver Rating or higher;

(B) for all commercial and multi-family buildings greater than twenty
thousand square feet (20,000 sq. ft.): LEED Silver Rating or higher.

(C) for all commercial and multi-family buildings ten thousand square feet
(10,000 sq. ft.) to twenty thousand square feet (20,000 sq. ft.): LEED Silver Rating or higher, or employ fifteen (15) ESBMIR or ESBMNC measures from at least five (5) of the ESBMNC categories.

SECTION 3: That Section 4-25-6-(B) of the City Code is hereby
further amended to read as follows:
(B) Any developer who proposes a project that employs ESBMIR or ESBMNC instead of LEED shall submit to the Building Official, as a required part of any application for a building permit related to the project, a completed ESBMIR or ESBMNC checklist that identifies the sustainable building measures the applicant shall employ.

SECTION 4: That Section 4-25-7-(B) of the City Code is hereby further amended to read as follows:

(B) For any project that employs ESBMIR or ESBMNC measures pursuant to this Chapter, the developer shall submit sufficient documentation to the Building Official for him/her to ascertain which measures the developer actually employed before the Building Official may issue a Final Certificate of Occupancy ("FCO") for the project. The Building Official may withhold a Final Certificate of Occupancy ("FCO") if fewer measures were employed than required by this Chapter.

SECTION 5: That Title 4, Chapter 12 of the City Code is hereby further amended by the enactment of a new Appendix B thereto, "Evanston Sustainable Building Measures for New Construction", to read as follows:

APPENDIX B: Evanston Sustainable Building Measures for New Construction

Each bullet point below shall count for one measure unless otherwise noted below. Applicants may choose measures from various categories or several from one category.

Sustainable Sites
- Use permeable materials for at least 50% of driveways, patios, and walkways.
- Provide 50% pervious materials for at least 50% of non-covered parking area.
- Implement a stormwater management plan that captures and treats the stormwater runoff from 90% of the average annual rainfall using acceptable best management practices (BMP) which are capable of removing 80% of the average annual post-development total suspended solids.
- Develop on a site documented as contaminated by means of an ASTM E1903-97 Phase II Environmental Site Assessment or brownfield designation from a state, local or federal governmental agency. (Worth 2 measures)
- Provide bicycle racks and/or storage within 200 yards of building entrance capable of accommodating a minimum of 10 bicycles.
- Provide preferred parking for hybrid and electric vehicles for at least 5% of parking with a minimum of 1 preferred parking space.
  - Provide electric vehicle charging stations for preferred electric vehicle parking (Worth 1 additional measure)
• Use hardscape materials with a Solar Reflectance Index (SRI) of at least 29 for 80% of impervious surfaces.

**Water Use**
• All plumbing fixtures - use WaterSense labeled.
• Install a stormwater harvesting system.
• Install drought-tolerant native or adapted landscape for at least 60% of non-paved site area.

**Lighting**
• Install automatic daylighting controls in no less than 50% of interior spaces within 15 feet of perimeter.
• Exceed the Lighting Power Density (LPD) of the current City of Evanston Energy Code by no less than 5%. Compliance to be shown using COMcheck.
• Exterior lighting fixtures shall all be Dark Sky compliant
• Provide exterior lighting controls which are compliant with the current version of ANSI/ASHRAE/IESNA Standard 90.1, Section 9.4.1.3.

**Mechanical Systems**
• All warm air combustion furnaces: minimum Annual Fuel Utilization Efficiency (AFUE) of 90%.
• All Air Conditioners and Condensing Units < 65,000 btu/h: minimum SEER rating of 15.
• All Electronically Operated Unitary Air Conditioners and Condensing Units > 65,000 btu/h: minimum EER rating of 12.
• Commission the mechanical and lighting systems in accordance with LEED for New Construction, Energy and Atmosphere, Prerequisite 1 – Fundamental Commissioning of the Building Energy Systems.
• Provide mechanical, lighting and miscellaneous electrical system monitoring with the capability to capture the data for a minimum of 1 year. (Worth 2 measures)

**Alternative Energy**
Offset annual building energy use with on-site renewable energy:
• Off-peak Thermal Storage – provide minimum 50% of cooling load (Worth 3 measures)
• Solar PV – offset minimum of 3% electricity use (Worth 2 measures)
• Solar PV – offset minimum of 6% electricity use (Worth 3 measures)
• Geothermal – install geothermal system (Worth 3 measures)
• SolarThermal – provide minimum of 50% of annual hot water energy needs for domestic and/or process and/or space heat.
• Provide at least 35% of building electricity from renewable sources by purchasing renewable energy in accordance with LEED for New Construction, Energy and Atmosphere, Credit 6 – Green Power.
• Provide 70% of building electricity from renewable sources by purchasing renewable energy in accordance with LEED for New Construction, Energy and Atmosphere, Credit 6 – Green Power. (Worth 2 measures)

Building Envelope
• Exceed the prescriptive envelope provisions of current City of Evanston Energy Code by no less than 7.5%. Compliance shall be shown using COMcheck.
• Exceed the prescriptive envelope provisions of current City of Evanston Energy Code by no less than 15%. Compliance shall be shown using COMcheck. (Worth 2 measures)
• Install an ENERGY STAR® qualified roof.
• Provide a vegetative roof over no less than 20% of the roof area. (Worth 2 measures)

Materials and Reuse
• Storage and Collection of Recyclables - Provide recycling for occupants, customers, and visitors and for the top 3 operationally generated streams.
• Construction Waste Management - Recycle and/or salvage at least 50% of non-hazardous construction and demolition.

Indoor Environmental Quality
• Use low VOC finishes as defined by LEED for New Construction Indoor, Environmental Quality Credits 4.1, 4.2, 4.3 and 4.4. (Worth 1 measure for every 2 of the following):
  o All field applied paints and coatings;
  o All field applied adhesives;
  o All carpeting;
  o All furniture systems - Greenguard Certified;
  o All composite wood shall be free from urea-formaldehyde.

SECTION 6: That all ordinances or parts of ordinances in conflict herewith are hereby repealed.

SECTION 7: That this ordinance shall be in full force and effect from and after its passage, approval, and publication in the manner provided by law.
Introduced: ________________, 2011
Adopted: ________________, 2011

______________________________
Elizabeth B. Tisdahl, Mayor

Attest:

_______________________________
Rodney Greene, City Clerk

Approved as to form:

______________________________
W. Grant Farrar, City Attorney
Life Cycle Analysis of Pavement

Impact Categories (Wastewater Treatment)

Ecosystem Damage Process Tree (In Wastewater Treatment)

GWP Process Tree (In Wastewater Treatment)

Life-Cycle Impact Assessment of Pavement
LCA Applications

- **LCA Functions:**
  - To assess environmental impacts associated with a product over its life cycle.

- **LCA Usages:**
  - Policy making
  - Design decisions
  - Prioritizing processes
  - Grant applications

- **Software:**
  - www.pre.nl