

# Calumet Research Summit

Tuesday, January 10  
and Wednesday, January 11, 2006

8:30 A.M. to 4:30 P.M.

The Center, Purdue University Calumet  
2300 173<sup>rd</sup> Street  
Hammond, Indiana

*Event is free*

*Registration is required*

*RSVP to Donna Cicinelli by December 15<sup>th</sup>*

*Chicago Department of Environment*

*(312) 744-5917*

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Photo by Mike Jeffords

**Hosted by CHICAGO DEPARTMENT OF ENVIRONMENT**  
**Richard M. Daley, Mayor**

*Advisory Group:*

Calumet Government Working Group • Chicago State University • Chicago Wilderness • Field Museum  
• Illinois Environmental Protection Agency • Illinois Department of Natural Resources • Illinois Natural  
History Survey • Illinois State Water Survey • Indiana Department of Natural Resources • U.S.D.A. Forest  
Service North Central Research Station • Waste Management and Research Center

January 10 and 11, 2006  
The Center, Purdue University Calumet  
2300 173<sup>rd</sup> Street, Hammond, Indiana



## TUESDAY, JANUARY 10

8:00 A.M.      **Registration and Continental Breakfast**  
Please join us in the foyer outside the ballroom.

### *Welcome and Introductions*

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8:30 A.M.      John Swanson, Executive Director  
Northwestern Indiana Regional Planning Commission

Alderman John A. Pope  
10th Ward, City of Chicago

Sadhu A. Johnston, Commissioner  
Chicago Department of Environment

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8:45 A.M.      **Setting the Context**  
Suzanne E. Malec, Deputy Commissioner  
Chicago Department of Environment

A review of the plans that have helped shape the research agenda: the development of the Calumet Open Space Reserve, the completion of the Ecological Management Strategy, as well as the Ecotox Protocol, Stewardship Initiative, and Hydrologic Master Plan.

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9:00 A.M.      **Marquette Plan**  
A.J. Monroe, AICP, Director of Community Planning and Development  
City of Portage

The Marquette Plan, a collaboration between five lakefront communities, the Indiana Department of Natural Resources, and the office of Congressman Peter Visclosky, is focused on creating a catalyst for ecological rebirth through reinvestment along a twenty-one mile segment of Indiana's Lake Michigan shoreline.

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9:10 A.M.      **The South Suburban Calumet Area Open Space Initiative:  
Background on Its Design and Current Status**  
Ders Anderson, Greenways Director  
Openlands Project

The South Suburban Calumet region's open space contains a concentration of rare natural habitats, glacial and Silurian geological features, historical migration corridors, water trails and bike trails.

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9:20 A.M.      **Integrated Research Approach**  
Lynne Westphal, Ph.D., Research Social Scientist and Project Leader  
U.S.D.A. Forest Service North Central Research Station

An assessment of the scope of research projects throughout the region, the partners involved, and the mechanisms for information management and coordination. Also, how research connects to the Ford Calumet Environmental Center.



## **Panel 1: How Clean is Clean?**

**Moderator: David Thomas, Ph.D., Chief, Illinois Natural History Survey**

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**9:30 A.M. Calumet Ecotox Protocol: Protecting Calumet's Plants and Animals**

David Homer, Ph.D., Senior Environmental Toxicologist  
Tetra Tech, Inc.

Thomas C. Hornshaw, Ph.D., Manager, Toxicity Assessment Unit  
Illinois Environmental Protection Agency

A summary of the protocol after two years of development via collaboration between various agencies and future landowners. Includes the protocol's objectives and how they are being met.

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**9:45 A.M. The Black-crowned Night-Herons of the Lake Calumet Wetlands**

Jeffrey Levensood, Ph.D., Wildlife Toxicologist  
Illinois Natural History Survey

The ecology and contaminant exposure of Calumet area Black-crowned Night-Herons, a state endangered species.

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**10:00 A.M. Break**

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**10:15 A.M. Tree Swallows as Monitors of Contaminant Risks to Insectivorous Birds Nesting in Calumet Wetlands**

David Soucek, Ph.D., Assistant Professional Scientist  
Illinois Natural History Survey

An exploration of the use of Tree Swallows to determine whether insectivorous birds nesting in the Calumet area wetlands are exposed to high levels of contaminants via ingestion of emergent aquatic insects.

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**10:30 A.M. Background Levels of Sediments in the Calumet Area**

Marvin Piwoni, Ph.D., Program Manager, Research and Laboratory Services  
Waste Management and Research Center

Results from sampling and analysis of South Chicago area pond and lake sediments and surface waters, which was conducted to determine background contamination levels for the Calumet region.

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**10:45 A.M. Moderated panel discussion**

**11:30 A.M. Lunch**

Join us for a deli buffet; vegetarian options available.

**Continued**



## ***Panel 2: Critters - What's Unique to Calumet?***

***Moderator: John Rogner, Supervisor, Chicago Illinois Field Office, U.S. Fish and Wildlife Service***

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**12:30 P.M.      Amphibians and Reptiles of the Calumet Area**  
Michael Redmer, Habitat Restoration Coordinator/Herpetologist  
Chicago Illinois Field Office, U.S. Fish and Wildlife Service  
Alan Resetar, Collection Manager, Division of Amphibians and Reptiles  
The Field Museum

The historic occurrence of amphibians and reptiles at selected sites within the Calumet area, and the potential for maintaining several rare species.

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**12:45 P.M.      An Invertebrate Baseline for Calumet: Process and Potential**  
David Voegtlin, Associate Professional Scientist  
Illinois Natural History Survey

A look at data from an INHS invertebrate survey at six sites in the Calumet area, and how the data can be used to assess ecological rehabilitation work in the future.

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**1:00 P.M.      Tracking Calumet Bird Populations and Future Outlook**  
Douglas Stotz, Ph.D., Conservation Ecologist/Ornithologist  
The Field Museum

An update on the status of bird populations found in the Calumet area, and opportunities to improve their habitat.

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**1:15 P.M.      The Calumet Bioblitz**  
Michael R. Jeffords, Ph.D., Senior Professional Scientist and Education/Outreach  
Coordinator, Illinois Natural History Survey

Discussion of the 2002 Calumet Biodiversity Blitz that attracted dozens of scientists from across Illinois.

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**1:30 P.M.      Moderated panel discussion**

**2:00 P.M.      Break**

## ***Panel 3: Critters - Impacts of Existing Conditions***

***Moderator: Eric V. Lonsdorf, Ph.D., Research Associate, Lincoln Park Zoo***

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**2:15 P.M.      Population Dynamics of Yellow-headed Blackbirds in Calumet**  
Michael Ward, Avian Ecologist  
Illinois Natural History Survey

Why the Yellow-headed Blackbird population is declining, and what can be done to preserve the current population and restore a larger population within the Calumet wetlands.

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**2:30 P.M.**      **Impacts of Recreation on Calumet’s Nesting Black-crowned Night-Herons: Research Findings and a Simulation Tool for Comparing Alternative Recreation Scenarios**  
Pat Zollner, Ph.D., Research Ecologist  
U.S.D.A. Forest Service North Central Research Station

A study of a Calumet rookery of nesting Black-crowned Night-Herons, and their behavioral responses to simulations of nearby human activity. The results will be used to compare the impacts on the rookery of alternative scenarios for recreation in and around Indian Ridge Marsh.

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**2:45 P.M.**      **Species Reintroductions: Karner Blue Case Study**  
Paul Labus, Project Director, Southern Lake Michigan Project - Indiana Chapter  
The Nature Conservancy

The Nature Conservancy is working with U.S. Fish and Wildlife Service, Indiana Department of Natural Resources, and private landowners to reintroduce Karner Blue butterflies into the West Gary Recovery Unit.

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**3:00 P.M.**      **Moderated panel discussion**

## ***Panel 4: Hydrology***

***Moderator: Edwin E. Herricks, Ph.D., Professor, Department of Civil and Environmental Engineering  
University of Illinois Champaign-Urbana***

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**3:30 P.M.**      **Calumet Hydrologic Master Plan**  
Stuart Dykstra, Principal Director, Natural Resources Division  
V3 Companies of Illinois

The evolution of the Calumet Hydrologic Master Plan project, a four-year hydrologic assessment of the region. Includes important findings and recommendations for physical work.

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**3:45 P.M.**      **Extremophile Research**  
George Roadcap, Ph.D., Hydrogeologist  
Illinois State Water Survey

An exploration of what lives in an aquatic environment with a pH of 13.

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**4:00 P.M.**      **Moderated panel discussion**

**4:25 P.M.**      **Day 1 Wrap-up**



# WEDNESDAY, JANUARY 11

8:00 A.M.      **Registration and Continental Breakfast**  
Please join us in the foyer outside the ballroom.

## ***Welcome and Introductions***

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8:30 A.M.      **Nicole Kamins, Program Director**  
Chicago Department of Environment

## ***Panel 5: Social and Economic Implications***

***Moderator: Lynne Westphal, Ph.D., Research Social Scientist and Project Leader, U.S.D.A. Forest Service North Central Research Station***

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8:35 A.M.      **Journey Through Calumet: Communities in Motion in Southeast Chicago and Northwest Indiana Website Presentation, Connecting Social and Environmental Assets in the Calumet Region**

Madeline Tudor, Ph.D., Communications Manager  
Center for Cultural Understanding and Change, The Field Museum

A study of the Calumet region's rich social and environmental assets, and how connecting people and nature can play a critical role in current efforts.

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8:50 A.M.      **Environmental Factors Influencing Recreation Choice in Post-Industrial Landscapes**

David B. Klenosky, Ph.D., Assistant Professor  
Department of Health and Kinesiology, Purdue University

The impact that degraded and negative environmental conditions have on recreation site choice behavior.

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9:05 A.M.      **Anglers' Perceptions in Calumet**

Mario Longoni, M.A., Ethnographer, Cultural Connections Program  
Center for Cultural Understanding and Change, The Field Museum  
and Lynne Westphal, Ph.D., Research Social Scientist and Project Leader  
U.S.D.A. Forest Service North Central Research Station

Anglers' perceptions of the risks associated with consuming their catch from the waters of the Calumet Region; how their understanding compares to the consumption advisories issued by state agencies.

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9:20 A.M.      **Measuring Consumer Welfare from Restored Urban Natural Areas**

Daniel McGrath, Ph.D., Associate Director  
Institute for Environmental Science and Policy, University of Illinois at Chicago

Non-market welfare valuation information of restored ecosystems within urban areas that can contribute to the relevant, existing decision-making frameworks.

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9:35 A.M.      **Moderated panel discussion**

10:15 A.M.      **Break**

## **Panel 6: Soil Alternatives and Infrastructure**

*Moderator: George Vander Velde, Ph.D., Director, Waste Management and Research Center*

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**10:30 A.M. 130th Street/Torrence Avenue/Brainard Avenue Relocation and Grade Separation: Greening the Project**

Soliman Khudeira, Ph.D., P.E. Coordinating Engineer II  
Chicago Department of Transportation – Division of Engineering  
and Leigh Peters, Environmental Engineer III  
Chicago Department of Environment

A synopsis of this major infrastructure project and its green innovations, and an analysis of potential reuse of the soil to be excavated from the site.

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**10:45 A.M. Potential Benefits and Common Concerns Associated With Use of MWRDGC Biosolids in Soil Restoration Projects**

Thomas C. Granato, Ph.D., Assistant Director of Research and Development  
Metropolitan Water Reclamation District of Greater Chicago  
and Kimberly Worthington, Deputy Commissioner  
Chicago Department of Environment

A review of the beneficial uses of biosolids to enhance soil, and how they can be incorporated into soil restoration project designs to reduce costs and improve performance of vegetation. Also, the potential use of biosolids on city parcels will be discussed.

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**11:00 A.M. Use of Lake Peoria Sediment as Topsoil**

John C. Marlin, Ph.D., Senior Scientist  
Waste Management and Research Center

Results from the use of river sediment from the Peoria area as topsoil in several areas including Chicago.

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**11:15 a.m. Moderated panel discussion**

**12:00 P.M. Lunch**

Join us for a deli buffet; vegetarian options available.

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## **Breakout Sessions**

*Concurrent, facilitated sessions to discuss details of the Calumet Research Agenda.*

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**1:00 P.M. Session A: National Science Foundation - Integrated Research Program**

Moderator: Lynne Westphal, Ph.D., Research Social Scientist and Project Leader  
U.S.D.A. Forest Service North Central Research Station

A discussion of the opportunity to collaboratively create an application for NSF funding for the Calumet region.

**Session B: Hydrologic Master Plan Next Steps**

Moderator: George Roadcap, Ph.D., Hydrogeologist  
Illinois State Water Survey

An information and idea exchange regarding project results and potential next steps, including continued monitoring, identification of additional data gaps, and opportunities for partnership on future projects.

**Session C: Data Management - Databases, GIS**

Moderator: Mark Bouman, Ph.D., Professor of Geography  
Department of Geography, Chicago State University

A review of existing environmental data in the Calumet region and the potential for establishing systems to collect, synthesize, and improve accessibility for a range of audiences.

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**2:30 P.M. Presentations from Breakouts**

A designee (or designees) from each breakout session will summarize each discussion for the group.

**Final Discussion: Data Gaps, Synergies and Next Steps**

*Moderator: Suzanne E. Malec, Deputy Commissioner, Chicago Department of Environment*

**3:00 P.M.** This wrap-up session will synthesize the content of the past two days in a productive, participatory discussion.

**4:30 P.M.** Day 2 Concludes

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***RSVP before December 15th***

Contact Donna Cicinelli of Chicago Department of Environment at (312) 744-5917 or [donna.cicinelli@cityofchicago.org](mailto:donna.cicinelli@cityofchicago.org).

***Exhibits:***

To display an exhibit or brochures, please contact Cherie LeBlanc of the U.S.D.A. Forest Service North Central Research Station at (847) 866-9311 x.12 or [cleblanc@fs.fed.us](mailto:cleblanc@fs.fed.us) or Donna Cicinelli of Chicago Department of Environment at (312) 744-5917 or [donna.cicinelli@cityofchicago.org](mailto:donna.cicinelli@cityofchicago.org).

***Other Questions:***

Contact Nicole Kamins of Chicago Department of Environment at (312) 744-5959 or [nkamins@cityofchicago.org](mailto:nkamins@cityofchicago.org).



Richard M. Daley, Mayor  
Sadhu A. Johnston, Commissioner







January 10 and 11, 2006  
The Center, Purdue University Calumet  
2300 173<sup>rd</sup> Street, Hammond, Indiana

## Driving Directions

### Indiana:

#### From the East

- Take I-80/94 West to the Kennedy Ave. North exit.
- At first traffic light, 173rd St., turn left.
- Go over railroad tracks to the Purdue Campus traffic light and turn left (south).
- Follow the short road along to The Center.

#### From the Northeast

- Take Indiana Toll Road I-90 West.
- Exit Cline Ave. South.
- Take Cline Ave. to I-80/94 West.
- On I-80/94, travel approximately one mile and exit Kennedy Ave. North.
- At first traffic light, 173rd St., turn left
- Go over railroad tracks to the Purdue Campus traffic light and turn left (south).
- Follow the short road along to The Center.

#### From I-65 South

- Take I-65 North to I-80/94 West toward Chicago
- Travel approximately eight miles and exit Kennedy Ave. North.
- At first traffic light, 173rd St., turn left
- Go over railroad tracks to the Purdue Campus traffic light and turn left (south).
- Follow the short road along to The Center.

#### From US 41 South

- Take US 41 North to Hammond. (Along the way, US 41 turns into Indianapolis Blvd.)
- At 173rd St. (Hammond), turn right (east).
- At the first traffic light is the Purdue Calumet campus. Turn right.
- Follow the short road along to The Center.

### Illinois:

#### From I-94

- Take I-94 (Dan Ryan Expwy.) East into Indiana.
- Exit Indianapolis Blvd. North.
- At the second traffic light, 173rd St., turn right.
- At the first traffic light is the Purdue Calumet campus. Turn right.
- Follow the short road along to The Center.

#### OR...

#### From The Skyway

- Take I-94 (Dan Ryan Expwy.) East and exit onto the Chicago Skyway (I-90 East). (The Skyway leads into the Indiana Toll Road.)
- From the Toll Road, exit Cline Ave. South.
- Take Cline Ave. to I-80/94 West.
- On I-80/94, travel approximately one mile and exit Kennedy Ave. North.
- At first traffic light, 173rd St., turn left.
- Go over railroad tracks to the Purdue Campus traffic light and turn left (south).
- Follow the short road along to The Center.

#### From I-294

- Take I-294 East as it connects with I-80/94 into Indiana.
- Exit Indianapolis Blvd. North.
- At the second traffic light, 173rd Street, turn right.
- At the first traffic light is the Purdue Calumet campus. Turn right.
- Follow the short road along to The Center.

#### From Downstate Illinois

- Take I-39, I-55 or I-57 North to I-80 East.
- As you approach the Indiana state line, I-80 connects with I-94 East.
- Stay on this and take Exit #2 Indianapolis Blvd. North.
- At the second traffic light, 173rd Street, turn right.
- At the first traffic light is the Purdue Calumet campus. Turn right.
- Follow the short road along to The Center.

## Hotels

Baymont Inn & Suites • 510 East End Avenue, Calumet City, IL • (708) 891-2900  
Courtyard by Marriott • I-80/94 & Kennedy Ave., Hammond, IN • (219) 845-6350  
Fairfield Inn by Marriott • I-80/94 & Kennedy Ave., Hammond, IN • (219) 845-6950  
Residence Inn by Marriott • I-80/94 & Kennedy Ave., Hammond, IN • (219) 844-8440

*Blocks of rooms have not been reserved. Individuals are responsible for their own arrangements.  
Call Donna Cicinelli, Chicago Department of Environment at (312) 744-5917 with any additional questions.*