

Calumet Summit 2010: A Call to Connect

Calumet Challenges

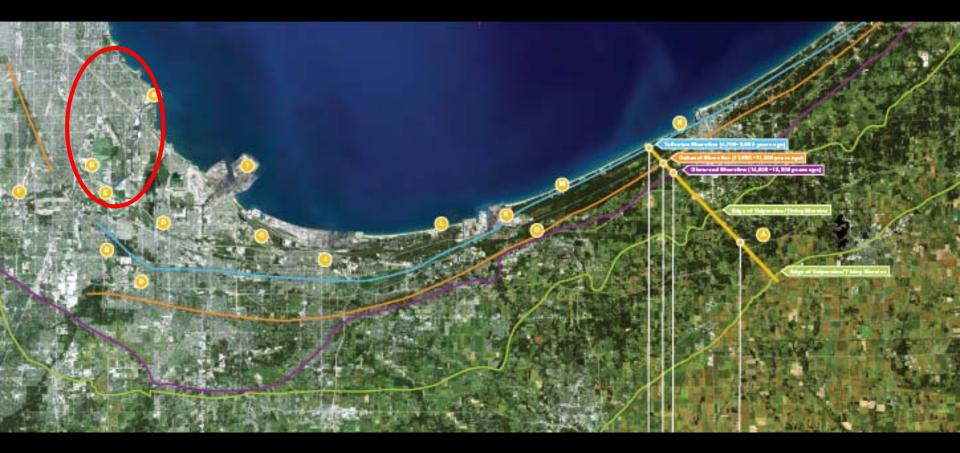
Nicole Kamins Program Director, Calumet Initiative Chicago Department of Environment

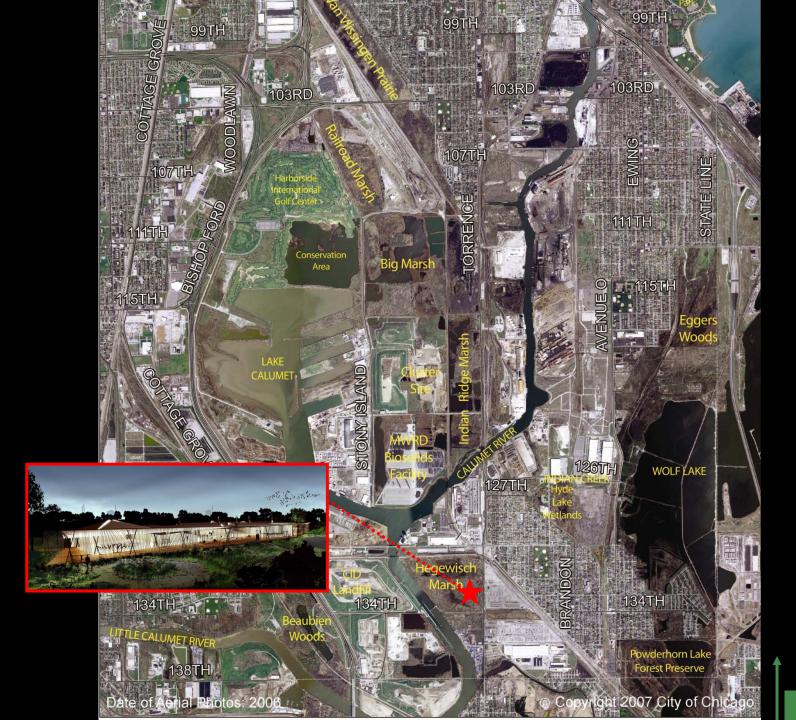


Many photos courtesy of Southeast Chicago Historical Museum and Save the Dunes website









North

"Sometimes something worth doing is worth overdoing." - David Letterman



We have a weighty responsibility to care for our charges.





Black-crowned night heron



Photo Credit: Adam Mann, Creative Solutions

Indiana bat



Karner blue



Pitcher's thistle



Piping plover

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We have such varied ecosystems.

Dune and swale remnants

Wetlands

Forests

Prairies

...and more.

How do we manage as regional complex?



We have some degraded and highly altered ecosystems.

3

LARE CALUMET













4

We have a lot of *"novel ecosystems".*

Calumet Harbor

STONY

"A novel ecosystem is simply an assemblage of species and environmental conditions that have never before existed in a landscape, caused by climate, human activities, or stochastic events."

- Zweig, Wiley & Kitchens, recent article in Restoration Ecology

Not pre-settlement
VVP – American bittern
USGS – Bob Kay
Amount of fill

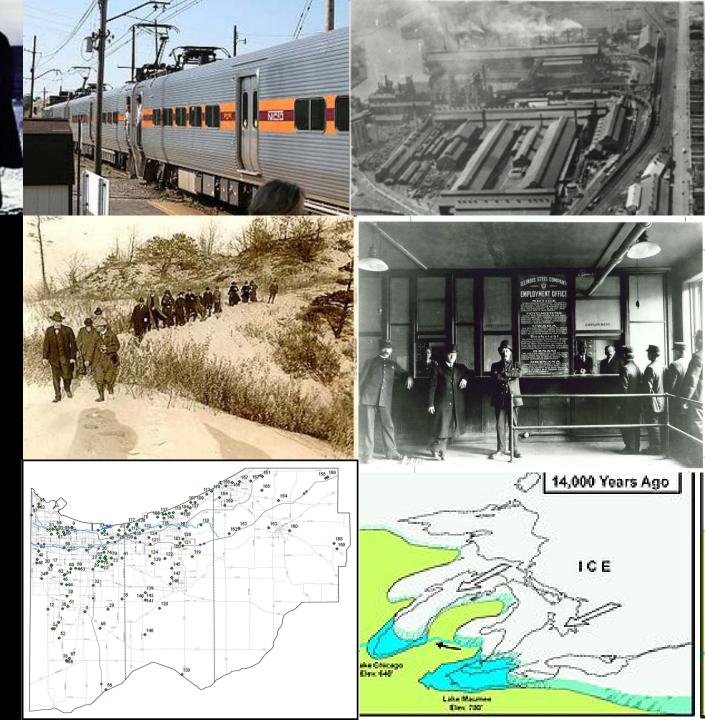
"*Reconciliation Ecology* is the science of inventing, establishing and maintaining new habitats to conserve species diversity in places where people live, work or play."

- Michael Rosenzweig, author of Win-Win Ecology



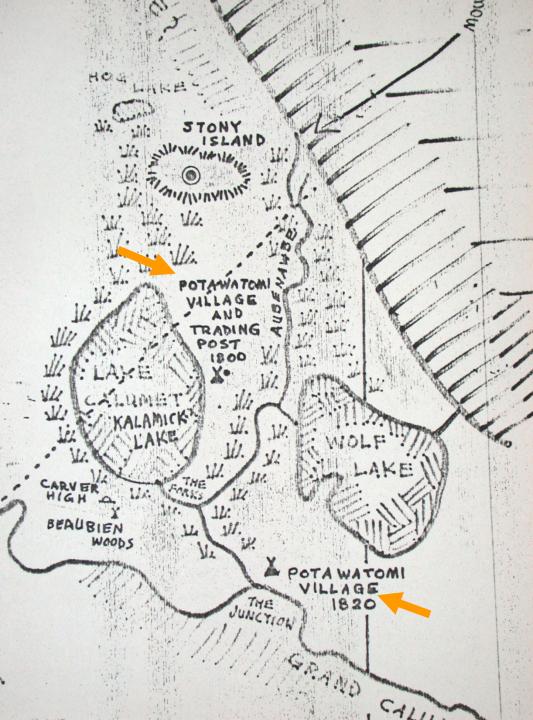
Need to be able to do a better job of telling our regional story...

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Projectile Points, Indiana Dunes





Wolf Lake Hunters

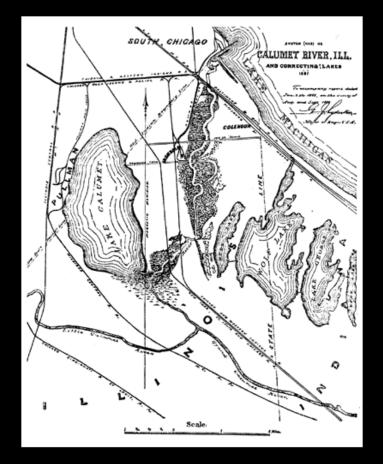




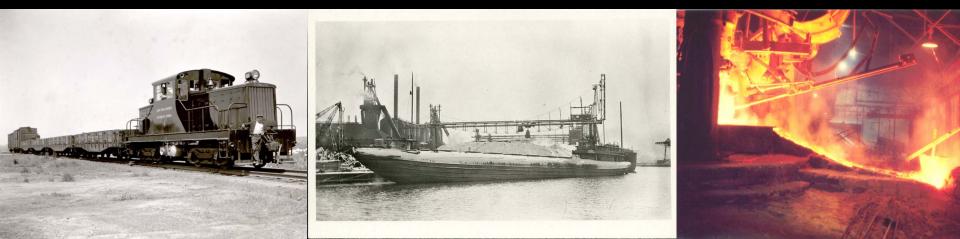




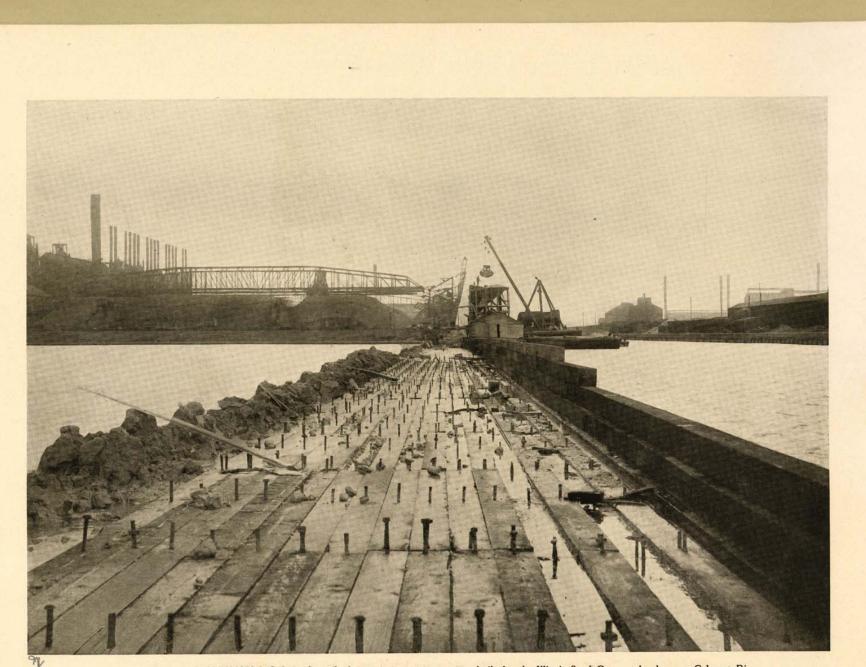






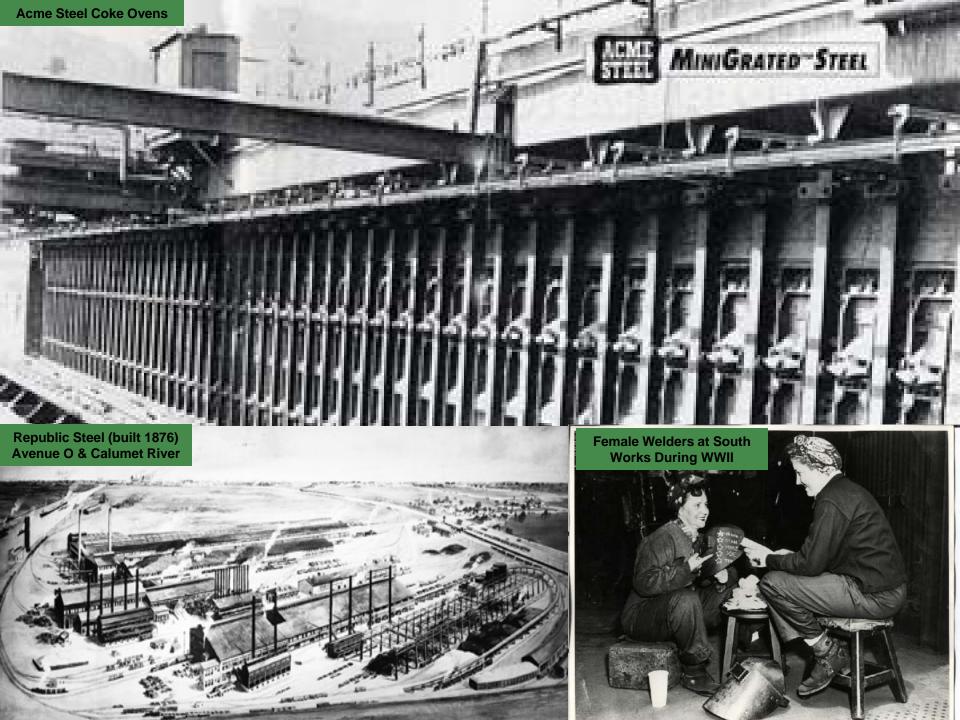






SOUTH CHICAGO, ILLINOIS: Crib work ready for concrete superstructure, built for the Illinois Steel Company's plant on Calumet River.





J. J. FEIN PHOTO.

Wisconsin Steel Blast Furnace Crews (late 1920s)

LOST TIME ACCIDENT = INJURY PREVENTING A MAN WORKING ON HIS REGULAR JOB THE FOLLOWING DAY

FIVE YEAR RECOR

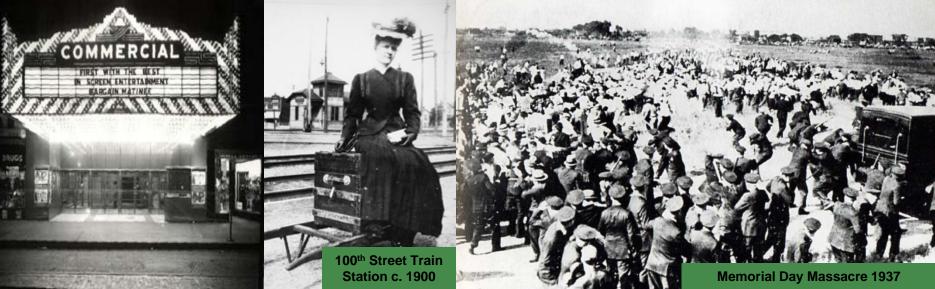
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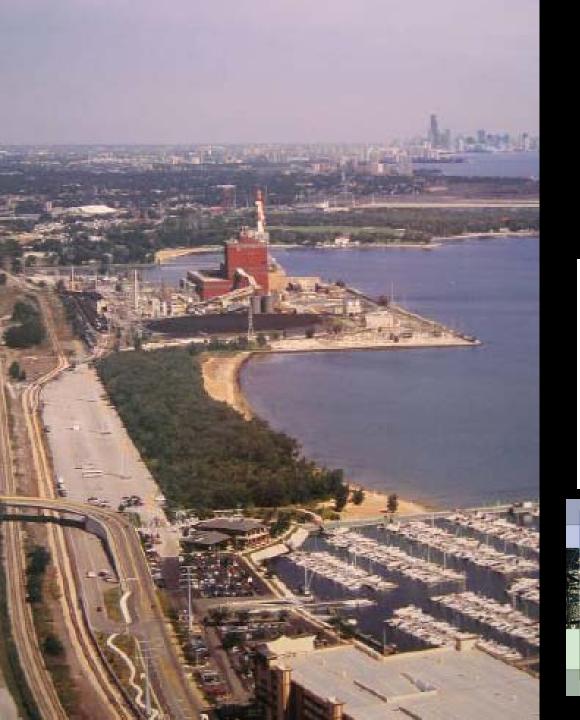
Immigration on Chicago's Southeast Side

- Polish
- Irish
- Yugoslavian
- Czechoslovakian
 - Swedish
 - •Serbians
 - •Slovenians
 - Italian
 - German
 - Croatian
 - Austrian
- Mexican (~1926)
- African American (post WWII)







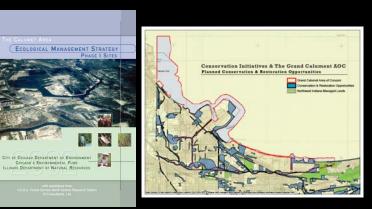




2006 GLC Conference Indiana's Lakeshore Reinvestment Strategy The Marquette Plan







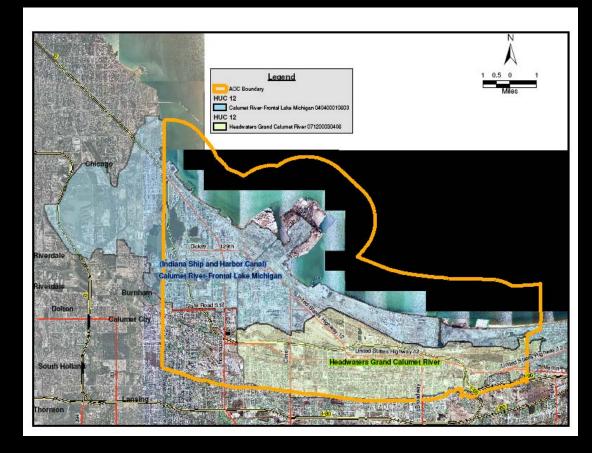


When we tell our story we need to show how our projects fit into the greater Čalumet vision.





...so we are primed for opportunities.



- Grand Cal AOC
- GLRI



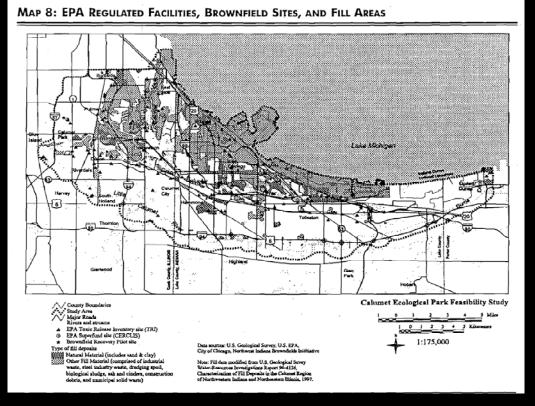








Contamination has impacted many of our open spaces.



B B C NEWS

Extreme bugs found in slag dump

The world's most alkaline lifeforms are living in contaminated water in the US.

Scientists found microbial communities thriving in the slag dumps of the Lake Calumet region of southeast Chicago where the water can reach a pH of 12.8.

Living in this extreme environment is comparable to swimming in caustic soda or floor stripper, the researchers say.

They found the microbes while studying contaminated groundwater created by more than a century of industrial iron slag tipping in Illinois and Indiana.



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Many of our projects are hard to fund due to being "oddballs."



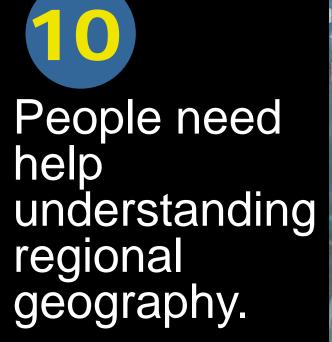


It's hard to draw positive public attention to all of this.











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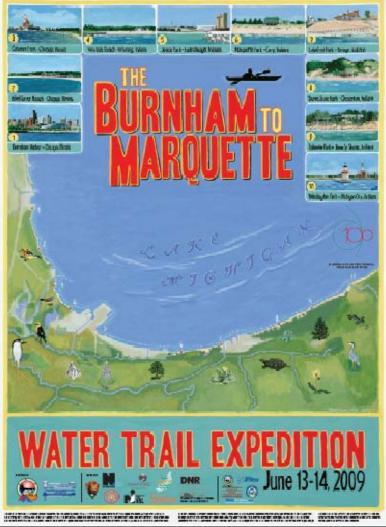
ere chefs for their ple syrup 23 THE CARP ISSUE

> The threat, the science, the culinary solu



Sixty municipalities, five counties.

Coordinating between municipalities is challenging.... yet so worthwhile.



NWIPA Burnham to Marquette Water Trail Expedition 2009

2010: to IN to MI on Aug 21/22



We need to do a better job of connecting with elected officials.



Municipalities and others need more tools and resources to help the environment.

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Green Infrastructure Vision Chicago Wilderness



Chicago Department of Environment US Environmental Protection Agency US Fish and Wildlife Service Illinois Department of Natural Resources Illinois Environmental Protection Agency Illinois Natural History Survey Chicago Park District Forest Preserve District of Cook County Waste Management and Research Center





Prepared by Calumet Ecotoxicology Roundtable Technical Team



June 2007

Government agencies might need to take unprecedented but necessary steps to address challenges.



Environmental Justice is a challenge.



People for Community Recovery



Cheryl Johnson and reporters



Barack Obama at Altgeld Gardens

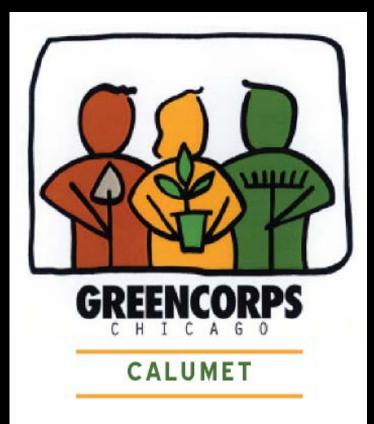


The region needs jobs.

Our open spaces need help.

Answer:

Green jobs.







"A Comparison of Jump Performances of the Dog Flea and the Cat Flea, Veterinary Parasitology, 2000

We need Calumet-based research to inform the work of land managers and planners.

"On Human Odour, Malaria Mosquitoes, and Limburger Cheese," *The Lancet*, 1996

"The Effect of Country Music on Suicide", Social Forces, 1992

From the Annals of Improbable Research (managers of Ig Nobel Prizes)

Calumet Research Wish List

Flora and Fauna

- Baseline Inventories all species
- Invasive Species Regional Mapping and Priority Treatment Zones
- Contamination in flora and fauna
- Monitoring programs pre- and postrestoration
- Ecotoxicological Conceptual Site Models for each site (species interactions)
- Elk Sedge and Golden Sedge Plants of Concern program
- Tiger Salamanders at Hegewisch Marsh vernal pools
- Hines Emerald Dragonfly reintroduction
- Beaver study
- Thismia americana



Calumet Research Wish List

Soil / Substrates

- What natives will grow in slag environments?
- Evaluation of Peoria Sediments and Biosolids in various mixes with sand and topsoil – how natives perform in each
- Study of native seed bank

Hydrology / Hydraulics

- Ongoing monitoring
- Modeling of proposed water control structures / impact to system

Remediation

 Assessment of open spaces and options for phytoremediation (including what will/won't be remediated, costs, etc)



Calumet Research Wish List

Climate Change

- Modeling impacts of climate change on Calumet open spaces
- Do natives help wetlands serve as carbon sinks more than invasives (carbon, nitrogen and sulfur cycles)

Humans

- Sample fish throughout the area and evaluate options for modifying outreach programs
- How to prevent illegal off-roading at the site site evaluation for dedicated space?
- How to handle nuisance species (ex: beaver) and public outreach?

Jobs / Economy

- Valuation of ecosystem services critical to long-term sustainability
- Opportunities for green jobs
- Creation of Technical Team to serve local industry advise on stormwater management, sustainable operations, waste stream reuse, natives, invasives control





The regional environmental movement has changed...to some extent.

Need to be as educated as possible about our issues to have productive conversations between government agencies, industry, and residents to the extent possible.



Lots of plans. Now, action!



"Do or do not...there is no try."

- Jedi Master Yoda at Acme Steel Coke Plant



So many organizations.



- Mission overlap can we streamline resources?
- Opportunities to combine
- What are we missing gap analysis
- Board member burnout

CSI is our best bi-state forum right now.

Social Media

•CSI - 501(c)3?

•Expanded communications hub



Southeast Chicago Natural Areas Tour By Jerry Atere, WRD Environmental

due to lack of the oneite.

A beef lanch was peat under a picnic

shelter on the warters shore of Wof Lake

due to indement weather. While puticiput

ate, Mize Boot, Executive Director of the

Association for the Walf Lake Initiative.

provided a synopeis of the lakely history.

With approximately \$14 total area of

narface water (419 acres in Illinois and 385

in Indina), the lake has undergone various

forms of environmental damage, such as

filling in development and talents and

Despite this, the lake is a haven for

lake sturgers and state-threatened banded killifish, as well as providing neuting sites

for birds like the endangered black-crowned

The next half how was spent diving by

notable tites, including Eggent Grove, Hyde

Lake Wetlands, Indian Ridge Marth, Heron

Participants received a rare treat on this

tour - a clear, anober acted view of Lake

Pond, and Big Mank. Restocation efforts

are slated to consumous at Indian Ridge

Manh is the summer of 2010.

night heron and yellow-headed blockbird.

numerou fish specie, like endangered

You may have heard this phrase before - 'the Calume region holds some of the most significant natural areas in the upper Midwert," but have you actually virited some of them (On October 22, 2009) 4) participants from Illinois and Indiana were able to de just that. Members of the Column Strengthin Initiative barred a bur tear of some of these scalarics he similarity natural areas is southeast Chicago. The tour catered to newards and land manager from anotherer Indiana and reasoning a minut log of a tone of anoticenst holizan natural areas that took place on September 21, 2008.

Graciously sponsored by the Gaylord and Dorothy Donnelley Foundation, the tear began with a hike through Hegewisch Marsh to observe the many shanges that have occurred tince the rite aceived.

National Coastal Wetlands Conservation finding for recontion in 2006. Nicole Kamias, Program Director for the Chicago al Environment's Column luitistive, pointed out key pauls from the project, such a non-native and invasive plant species removal, the installation of utive seed reasonals, the emilitation of 1.2 miles of mulched trails, and the installation of 175 paties tran and 75 paties strube to date.

The group then enjoyed a hike through Fewderhorn Pairie - a dars and swale sis with over 70 species of plants. Alice Randon, Conservation Director from Fiends of the Forest Preservu, and her volunteer stewards have been focuring on two dunse since 2006. They have effectively cleared invative

pant species including backhorn, as well

as reducing native shube that are too damar indergone autoration. A lick of regularities nanagementhas allowed bruth to choke the site, but with segular charing of invesive woody and horbaceous plant species by columner stewards and students, the site a dowly but surely asturning to mirror what it may lave been like long ago. The Field Massers adopted this site in 2005 to provide a venue for stewardship projects for stadents from Mighty Acoust, Earth Force, ind Calamet Is My Backyard (CIMBY) The riter sizing on the taux serve

Journa to shaw the radiaty and size of some important natural areas that exist in southeast Chicago. In addition, they demonstrate bow partnership and shared sert management practices can transform the quality of wetlands and other oper spaces on a regional scale

Much is to be learned from one another and much remains to be done, 2010 therefore presents us with a renewed appartunity to join forces and resume efforts to an only preserve these caluable habitate for nature, but to provide secretional and educational benefits to the community.

Calumet from Harbonide International Golf Center. The lake semains a vial habitat for birds and fish in the region.

The last stop was Beaubien Woods Forest Preserve, managed by the Forest Passerve District of Cook County in partnership with the Field Museum and the Culamet Stowardship Initiative, This 50 new workand is home to 165 bird :pecies that have been identified by omithologist Doug Stote of the Field Museum, Laurel Ross, Urban Conservation Director at the hield Museum.

led a hike to see the seas that have

Wark Bournas of Chicogo State University set the context of the Calumet region at Hegevis region at He Warsh, Photo credit: Kevin Nurphy,





Marian Byrnes



Mark Reshkin

How do we grow the next generation of leaders?





Herb & Charlotte Read

Lee Botts

Hazel Johnson

•Bob and Marian Kelliher

- Polly and Nat Silberman
- And more...



Please pick at least one question to answer. Use the notecards on your table and include your name, organization and question #. Leave the notecard on the table - it will be collected later. Thank you.



HOW: How do we define progress on natural resource issues in the Calumet region? What are the biggest barriers to progress and how can we overcome them?



WHAT: What needs to happen next (specific actions, specific projects) to advance natural resource conservation efforts in the region? How can current efforts be extended or expanded?



WHO: What are you personally interested in working on – by yourself or in collaboration with others? What would your organization be interested in working on? What other partners do we need to engage now?

We Can Do It!



WAR PRODUCTION CO-DECINATING COMMITTEE

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