







# Chicago Center for Green Technology

# **Summer 2012**













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ALL ACTIVITIES LISTED IN THIS BROCHURE ARE OPEN TO THE PUBLIC UNLESS OTHERWISE NOTED. THIS INCLUDES CLASSES SPONSORED BY THE U.S. GREEN BUILDING COUNCIL – ILLINOIS CHAPTER AND OTHER PROGRAMMING PARTNERS.



### **GREETINGS & OVERVIEW**

It is one of the best times of the year in Chicago – summertime – and what a great summer this will be at the Chicago Center for Green Technology. We have an exciting line-up this season with great presenters and seminars that appeal to a range of audiences. Classes cover everything from green construction codes and pest management to permaculture and do-it-yourself energy audits.

Summer is a great time to start working toward your Green Tech U certificate. CCGT certificates are free and are offered in six subject areas: Architecture, Building and Construction Management, Engineering, Green Business, Green Home and Garden and Interior Design. CCGT certificates acknowledge your commitment to continuing education and development in sustainability. They are a great addition to a resume, and can also contribute to your eligibility to sit for the LEED Green Associate exam. Turn to page 6 for details on our certificate program.

CCGT is also turning 10 this summer! Join us in celebrating our anniversary on Saturday, June 16th from 10:00 a.m. to 3:00 p.m. We will have exhibitors, music, food, games and more to mark the occasion. Registration is free, and people who pre-register are eligible to win prizes the day of the event. To register, get more information, or view updates check our website at http://www.chicagogreentech.org/10th\_Anniversary.

Coming this season, CCGT is hosting a portion of the Chicago Architecture Foundation's current exhibit: How Much Does It Cost? Loop Value. The exhibition aims to show you the true hidden costs of everyday items in the home by examining their environmental and social impacts.

We hope that you are able to join us for several of these exciting events. As always, feel free to drop in to our Green Building Resource Center to see some of the latest green products, use our study guides for the LEED exams, and read through some of the green periodicals we subscribe to. Have a great summer!



# We help organizations committed to sustainability realize their vision.





Since 1997, WRD has produced sustainable results for some of the most visible landscapes throughout the Chicagoland region, including the Chicago Center for Green Technology.

For more information or to schedule a conversation, contact us at 773.722.9870 or at www.wrdenvironmental.com.

# **CHICAGO CENTER FOR GREEN TECHNOLOGY**

The Chicago Center for Green Technology (CCGT) is the first rehabilitated municipal building in the nation to receive the LEED® Platinum rating from the U.S. Green Building Council. Mayor Richard M. Daley dedicated the building in 2002 and it has gone on to become a national model for sustainable design and technology.

The Center serves as the most comprehensive green design educational resource in the Midwest. We promote and advance sustainable homes, workplaces and communities to enhance the quality of urban life. We work to facilitate this through educational programming as well as training, research, and real-world demonstration.

# **CONTACT INFORMATION:**

Staff are available six days a week, Monday through Saturday, to answer questions and provide more information. You may reach us by calling (312) 746-9642, e-mailing **greentech@cityofchicago.org** or clicking on the "Contact Us" page on our new website, **www.chicagogreentech.org**. Our mailing address is: Chicago Center for Green Technology, 445 N. Sacramento Blvd, Chicago, IL 60612.

### **VOLUNTEER OPPORTUNITIES:**

If you have an interest in green buildings, design or education, and enjoy working with the public, consider becoming a volunteer at the Chicago Center for Green Technology.

Volunteers at CCGT have a great opportunity to learn about the latest advances in green buildings, technology, and sustainable products and practices. They network with local green professionals, give guided tours of our LEED® Platinum building to students and professional groups, and assist visitors in the Resource Center researching local green issues and products.

Volunteer opportunities require a minimum commitment of a few hours per week for three months. To obtain an application please visit our website or contact us.

#### **TOURS:**

Guided tours are available for groups of ten or more. Tours are offered Monday through Saturday at 10:30 AM and 1:30 PM. A minimum of two weeks advanced registration is required. Please visit our website to book your tour. Smaller groups are encouraged to take a self-guided tour during regular business hours. Self-guided tour brochures are available at the front desk in the lobby and in the Resource Center.

### **RESOURCE CENTER:**

The Green Building Resource Center at CCGT is an invaluable tool for those interested in learning about sustainability, green technology, and green buildings. We are open to the public six days a week and accessible to everyone from Chicago residents to green building experts. Our resources include:

- Sample library of eco-friendly building and design materials
- Knowledgeable staff
- Reference books & web resources
- U.S. Green Building Council LEED® reference materials

# **GREEN TECH U**

The Center's Green Tech U program has been developed in response to the increasing demand for educational resources in green technology in Chicago. This seminar series provides an opportunity to increase knowledge of sustainability, green building and public policy while meeting like-minded people and expanding professional networks.

### **REGISTRATION:**

Advance registration is required for all Green Tech U seminars. Unless otherwise noted, you may register on our website. Please note: some seminars require that you register with one of our programming partner.

### COST:

Most Green Tech U seminars are free to the public.



### **CERTIFICATES:**

CCGT offers certificates of acknowledgement to Green Tech U participants who demonstrate a commitment to ongoing learning and development in this field. Certificates can be earned in the following subject areas:

- Architecture
- Building and Construction Management
- Engineering
- Green Business
- Green Home and Garden
- Interior Design

To obtain a certificate, participants must first fill out a "Program Enrollment" form indicating which certificates they intend to pursue, and then submit the completed form to CCGT staff. Participants must then attend six eligible seminars within a 12-month period. One of the six seminars must be the foundation course, "Ecology of Design Part I: Concept." Please sign-in before each seminar on the appropriate "Sign-In" sheet, and specify whether you are pursuing a certificate. Participants who fail to sign-in will not have that seminar counted towards their certificate. Some seminars may count towards more than one certificate.

Once the six seminars have been completed, participants must fill out the "Certificate Application" form, and submit the completed form to CCGT staff. A certificate and letter will be mailed to the applicant approximately one month later. Certificates may be earned in more than one subject area simultaneously.

To obtain any of these forms please visit our website or contact us directly. Forms are electronic and may be completed digitally and e-mailed.

### **CONTINUING EDUCATION CREDITS:**

The Center understands and recognizes the need for professionals to obtain continuing education credits or units. We are a registered American Institute of Architects (AIA)-Continuing Education System (CES) provider. Many of our seminars are approved for Learning Units (LU) through AIA-CES. In order to obtain the LU, attendees must provide their AIA member number on the signin sheet at each Green Tech U seminar. AIA approved classes are marked by their logo.

We can provide a general "Certificate of Attendance" to people seeking proof of their attendance for submission to other professional associations or employers. All certificates of attendance must be signed by CCGT staff on the day of the seminar in order to be valid.

### **SEMINAR LISTINGS:**

Seminars are listed in chronological order. Logos appearing next to a seminar indicate a programming partnership. Certificates tracks are color-coded below and can be cross referenced to colored dots appearing after each seminar indicating the applicable certificate track. The Semester-at-a-Glance calendar on pages 15 and 16 provides a detailed breakdown of all the seminars.

- Architecture
- Building & Construction Management
- Engineering
- Green Business
- Green Home & Garden Series
- Interior Design

Advance registration is required for all Green Tech U seminars. You may register on our website. All seminars are free, open to the public, and located at CCGT unless otherwise indicated. Please note the date, location, and registration fee (if any) for each seminar.

# Advanced Hologram Technology for Building **Integrated Photovoltaics**

5/17/2012 from 6:00-8:00 PM

SPEAKER: Louise Pauly, Sun Phocus Technologies and Monica Cook, University of Illinois - Chicago

Sun Phocus is a start-up company out of the Illinois Institute of Technology that developed a unique hologram planar concentrator technology that is suitable for building integrated photovoltaic applications (BIPV). Sun Phocus is offering new products for non-vision glass applications this summer, and have long term R&D development plans to develop semi-transparent and aesthetically pleasing products for vision glass applications.

# **Touring the Green Exchange** 5/19/2012 from 10:00 AM-12:00 PM

SPEAKER: Lisa Elkins, 2 Point Perspective

LOCATION: First Floor Lobby, Green Exchange, 2545 West Diversey

FEE: Free

Join LEED accredited architect Lisa Elkins on a tour through the recently launched Green Exchange; the new hub of the green community. The tour will include the common areas as well as GreenChoice Bank, the GreenHouse Loft event space, and the office of 2 Point Perspective. The history of the building and its redevelopment will be discussed as well as the multitude of eco-friendly and LEED features that abound through out the building.

AIA/CES: 2LU O





# Efficient Use of Irrigation 5/19/2012 from 1:00-3:00 PM SPEAKER: Jeff Clifford, Rainbird



Ever wonder how you can have a beautiful landscape with an efficient irrigation system? There have been many changes in how and when irrigation systems apply water. During the presentation see local real life examples of how simple modifications can save both money and water while not compromising plant health. During the discussion, products will be on hand so that you can see first hand what options are available.

# RainSmart Landscapes 5/22/2012 from 6:00-8:00 PM



SPEAKER: Mark Moxley, Lake Street Supply

There are numerous things homeowners and business owners can do, from a landscaping perspective, to reduce the burden and damage caused by stormwater. They can also reduce irrigation needs in the process. This overview will present many of the concepts used in backyards to reduce basement seepage, runoff to municipal sewer systems, and onsite harvesting. Different materials and design ideas will be presented and discussed.



# Water Efficiency and WaterSense Product Labeling 5/24/2012 from 6:00-8:00 PM

SPEAKER: Cary McElhinney, US EPA Region 5 and Paul Patton, Delta Faucet Company

Join us as we discuss WaterSense, a partnership program led by the U.S. Environmental Protection Agency that seeks to protect the future of our nation's water supply by offering people a simple way to use less water through identification of water-efficient products, practices, and services. The US EPA will explain the labeling program and what to look for when making a purchase. Delta Faucet Company, a WaterSense partner, will explore the different types of water savings products they offer.

# Digging Beneath the Myths: DIY Green Landscaping

5/26/2012 from 10:00 AM-12:00 PM

SPEAKER: Julie Siegel, J. Siegel Designs, Inc.

LOCATION: 4654 N. Leamington, Chicago, IL 60630

This course will explore the ground between the myths and realities of sustainable gardening. Meeting on-site in an average residential Chicago lot will focus us on practical approaches to creating 'greener' gardens by

discussing some typical gardening challenges. Activities will include a planting

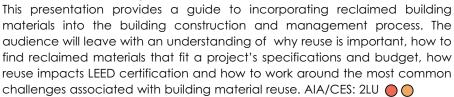
demonstration and a native plants discussion, as well as tips for mulching, composting, rain barrels, rain gardens, and backyard chickens.

Brought to you by USGBC-Illinois' Residential Committee.

# **Incorporating Reclaimed Building Materials** for People, Profit and Planet

5/29/2012 from 6:00-8:00 PM

SPEAKER: Nathan Benjamin, PlanetReuse



## Sustainable Solutions for Native Landscapes and Natural Areas

mela

5/31/2012 from 6:00-8:00 PM

SPEAKER: Grace Koehler, Pizzo Native Plant Nursery and Jake Hagelow, Pizzo & Associates, Ltd.

Pizzo will provide an informational talk about the use of native plants in our landscapes, including green roofs, and why invasive species control is important. Pizzo & Associates will talk about plant selection, natural area restoration, and site considerations. This presentation will cover selected case studies to show how native landscapes produce true cost savings for customers and clients.

# DIY Energy Audit

6/2/2012 from 10:00 AM-12:00 PM

SPEAKER: John Porterfield and Cheryl Pomeroy, e-Zing

Think an energy audit just means replacing light bulbs and using power strips? Think again. There are now tools and methods available to the consumer that go beyond these simple steps and get at more substantial energy, and cost, savings. Join the pros from eZing as they review utility bill tracking and home energy analysis software, steps to conduct your own audit (including identifying safety hazards), how audit results can be used to prioritize and plan cost-effective improvements, and why hiring the right contractor is so important. 000

# Energy Efficient Mortgages: A Home Buyer's Guide to **Financing Efficiency Upgrades**

6/2/2012 from 1:00-3:00 PM

SPEAKER: Beau D'Arcy, Effortless Efficiency

Energy Efficient Mortgage, or EEM as it's called, is a great loan program administered through the Federal Housing Administration (FHA), the Department for Housing and Urban Development (HUD) and Department of Veterans Affairs (VA). This program allows home buyers, or those refinancing loans on currently owned properties to add high-efficiency furnaces, water heaters, insulation, weather-stripping, and storm windows to their loan. In most cases, the energy savings created are greater than the additional monthly mortgage cost, so these upgrades pay for themselves! This seminar will explain the program in detail, and provide an explanation on how consumers can 

### Home Performance Essentials: Shown in Infrared 6/5/2012 from 6:00-8:00 PM

SPEAKER: Corbett Lunsford, Green Dream Group

Home Performance breaks down into an analysis of heat flow, airflow/pressure, moisture, and air quality. Learn how to approach any building in the world using any equipment with these basic building blocks. We'll explore building performance through the lens of Infrared Thermography. Learn to identify potential interactions within the building system. Know what equipment tests which aspects of home performance. Understand implementation of essential improvements in homes. Be prepared for unforeseen side effects of improvement, and how to verify that they are not negatively impacting home 





# ICC's 2012 Building & Fire Code for Vegetative, PV and High Tech Roofs



6/7/2012 from 6:00-8:00 PM

SPEAKER: Bill McHugh, Chicago Roofing Contractors Association

This program focuses on brand new code requirements for Vegetative Garden Roofs, Photovoltaics and other technologies used on the rooftop. Learn how changes to the code may impact your next 'green' or renewable energy roof project. This seminar will be particularly relevant to building and construction professionals. AIA/CES: 2LU 

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### Making Your Bills and Your Carbon Footprint Smaller 6/9/2012 from 10:00 AM-12:00 PM

SPEAKER: Anna Markowski, CNT Energy; Abby Corso, Delta Institute; and Chris Coleman, MyHomeEQ

Members of Energy Impact Illinois will speak on the benefits of the new Energy Impact Illinois loan program, advising homeowners on how to cut their energy bills and pay for it using rebates and low interest loans. We will have speakers from the Delta Institute to detail the loan program, MyHomeEQ, a new online tool for evaluating your home's efficiency and figuring ways to take advantage of the Energy Impact Illinois funding and rebates, as well as an Illinois Home Performance certified energy auditor and contractor. Individuals will be able to assess their own energy efficiency and schedule a an appointment with an auditor/contractor to further evaluate their home.

# **Shades of Green**

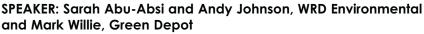
6/9/2012 from 1:00-3:00 PM

**SPEAKER: Chris Turley, Turley Architects** 

What does "green" mean to you? Energy efficiency? Healthy Homes? Reduced construction waste? Xeriscaping? We discuss these and many more strategies so that you can create your own Green world specific to your own property. As time permits we will also review the latest in Green technologies, concepts, and codes.

# Sustainable Backyard Workshop Mela

6/12/2012 from 6:00-8:00 PM



Learn how to make your back, front or side yard more environmentally sustainable! This workshop will cover the basics of installing a rain barrel, setting up a compost bin, planting a tree and more. Spring is a great time to plant a native garden and trees in your yard! You will also learn about the City's rebate program and how Chicago residents can receive up to 50% off of their next tree, native plant, rain barrel or compost bin purchase.

# **Green Cleaning 101**

6/13/2012 from 6:30-8:00 PM

SPEAKER: Heather Grance, Peggy Notebaert Nature Museum LOCATION: Peggy Notebaert Nature Museum, 2430 N. Cannon Drive

FEE: \$10 for Nature Museum members, \$15 non-members

Make your own natural (and effective!) green cleaning kit in this hands-on workshop. Test simple recipes against commercial products and learn why green cleaning is better for your health, the environment and your wallet!

To register visit naturemuseum.org, email adultprograms@naturemuseum.org, or call 773-755-5122.

# How to Launch Your Career in the Local Green Economy 6/14/2012 from 6:00-8:00 PM

SPEAKER: Brandon Knight, Global Exchange

Drawing from his experience working in the urban farming and renewable energy fields, Brandon Knight will explore scalable models and projects that are helping to change the landscape of the Midwest and how you can build a career in this evolving economy. Brandon has spent 7 years touring the Midwest as a campaign organizer and project leader transforming local green economies, and developed the Green Economy Leadership Training program in Highland Park, Michigan. This seminar will discuss the knowledge, attitude and technical skills needed to create a career in the green economy.



# **Ecology of Design Part I: Concept**

6/16/2012 from 11:00 AM - 1:00 PM

SPEAKER: Michael Iversen, University of Illinois at Chicago

Part I of a two-part series, is based on the conceptualization of urbanized areas as complex dynamical ecosystems, which are being stressed from the convergence of urbanization, fossil-fuel energy depletion, and climate change. Using an ecosystem-based approach, design is re-interpreted as the intentional shaping of energy, material, information and monetary flows that act as inputs and outputs of an urbanized ecosystem. The inventory and analysis of these system flows may then serve as the basis for informed design decisions and policymaking. This seminar is required for people seeking a 

This seminar coincides with CCGT's 10th Anniversary Celebration. Food vendors will be onsite selling snacks and refreshments.

# Solar - Simple, Affordable Energy Solutions 6/19/2012 from 6:00-8:00 PM

SPEAKER: Lisa Albrecht, Solar Service Inc.

Why rent your energy when you can own it? Solar is simple, reliable, affordable and available immediately! Join us and explore solar thermal and solar electric technology for both residential and commercial applications. We will discuss the make-up, benefits and available financial incentives for these systems. AIA/CES: 2LU 

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# **Fundamentals of Geothermal** 6/21/2012 from 6:00-8:00 PM SPEAKER: Greg Speziale, Pioneer Geothermal

Wondering if geothermal heating and cooling is right for you? This seminar will provide an introduction to geothermal (geoexchange) technologies and their applications. Learn the fundamentals as well as the costs and benefits of geothermal systems. Environmental impacts and financial incentives will also be covered. AIA/CES: 2LU 

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# Invasive and Exotic Pests and Plants Mela 6/23/2012 from 10:00 AM-12:00 PM

SPEAKER: Shawn Kingzette, The Care of Trees

Invasive and exotic species pose significant threats to our environment, particularly natural areas. We'll explore several problems in the Chicago area such as Emerald Ash Borer, Asian Long-horned beetle, Dutch elm disease, European buckthorn, and others. Current management and treatment strategies will also be reviewed. Learn what you can do to reduce these threats. 🔘

# Innovative New Products for Interiors

6/23/2012 from 2:00-4:00 PM

SPEAKER: Amanda N. Mahon, Green Home Chicago LOCATION: Green Home Chicago, 213 N. Morgan St.

Join Green Home Chicago to learn more about product availability and services that can be used to achieve certification from Chicago's Green Homes Program. See new laminate wood panels, hardy washable floor coverings/rugs, recycled fabrics, new USA made counter tops that are nonporous and beautiful. Also discover innovative ideas for decorating your home sustainably and still achieving that beautiful and unique design!

# Passive House and Net Zero: A New House in River Forest

6/26/2012 from 6:00-8:00 PM

SPEAKER: Tom Bassett-Dilley, Tom Bassett-Dilley Architect, Ltd.

This presentation will demonstrate how Passive House Planning was used to reduce energy demands, then a PV system was sized to offset the remaining energy demands. The presentation will also show how a Building Information Model was used to integrate with the energy modeling software and how the Passive House Planning Package can be used in design to optimize performance.

AIA/CES: 2LU 

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## How to Green Your Outpatient Medical Practice 6/28/2012 from 6:00-8:00 PM

SPEAKER: Sarah Lovinger, MD, Chicago Physicians for Social Responsibility The US health care industry emits 18% of greenhouse gases in our country. While many new hospitals are green, outpatient practices are not. Based on the video, "Dr. Green: The Environmentally-Friendly Medical Practice," Sarah Lovinger, MD will lead a panel of local experts to explain how simple easy changes to medical practices can make them substantially greener.

# Permaculture I: Fundamentals and Principles 6/30/2012 from 10:00 AM-12:00 PM

SPEAKER: Jody Luna, Midwest Permaculture

Permaculturists strive to grow food just about anywhere, repair environmentally damaged lands, design lovely and long lasting green-buildings, produce power, run successful-people-oriented businesses, and building authentic community. They accomplish this by using the same fundamental design principles and by applying a fundamental permaculture ethic: Care of People - Care of the Earth - Sharing all Surplus. Learn the essence of, and reasons for, applying a permaculture way of thinking to how we live.

# Solar 103: Transforming Solar into Stored Energy and Savings

6/30/2012 from 1:00-3:00 PM

SPEAKER: Steve Johnson, Convergence Energy

A stimulating overview and discussion of an integrated hardware/software platform that combines battery storage with renewable energy sources like solar. This can shorten the payback period of distributed renewable energy by up to 50%, potentially tripling a building owner's energy cost savings. The large scale and intelligent management of this network of home and businesses provides additional benefits to the building owner, in effect, creating the equivalent of a virtual power plant. 

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### **Chicago Green Permit Program** 7/5/2012 from 6:00-8:00 PM

SPEAKER: Sophie Martinez, Chicago Department of Buildings

Learn the basics of the Department of Building's Green Permit Program. The Green Permit Program provides incentives to homeowners and developers that integrate green technologies and environmentally responsible designs in their buildings. Learn how to participate, criteria for qualification, and what incentives are available. The lecture will conclude with information on how to obtain permits for Green Elements (i.e. Geothermal Systems, Green Roofs, Photovoltaic Panels, Rainwater Harvesting Systems, Solar Thermal Panels and 

DATE	TITLE	Architecture	Building & Construction Management	Engineering	Green Business	Green Home & Garden	Interior Design
5/17	Advanced Hologram Technology		0	0			
5/19	Touring the Green Exchange	0			0		0
5/19	Efficient Use of Irrigation					0	
5/22	RainSmart Landscapes			0		0	
5/24	Water Efficiency and Water Sense Product Labeling				0	0	0
5/26	Digging Beneath the Myths: DIY Green Landscaping					0	
5/29	Incorporating Reclaimed Building Materials	0	0				
5/31	Sustainable Solutions for Native Landscapes and Natural Areas		0			0	
6/2	DIY Energy Audit		0	0		0	
6/2	Energy Efficient Mortgages		0		0	0	
6/5	Home Performance Essentials		0	0			
6/7	ICC's 2012 Building & Fire Code for Vegetative, PV and High Tech Roofs	0	0	0			
6/9	Making Your Bills and Your Carbon Footprint Smaller				0	0	
6/9	Shades of Green		0		0	0	
6/12	Sustainable Backyard Workshop					0	
6/13	Green Cleaning 101					0	
6/14	How to Launch Your Career in the Local Green Economy				0		
6/16	Ecology of Design Part I	0	0	0	0	0	0
6/19	Solar - Simple, Affordable Energy Solutions	0	0	0			
6/21	Fundamentals of Geothermal	0	0	0			
6/23	Invasive and Exotic Pests and Plants					0	
6/23	Innovative New Products for Interiors					0	0
6/26	Passive House and Net Zero	0	0	0			
6/28	How to Green Your Outpatient Medical Practice				0		0
6/30	Permaculture I					0	
6/30	Solar 103: Transforming Solar into Stored Energy and Savings		0	0	0		
7/5	Chicago Green Permit Program	0	0	0	0	0	0
7/7	Creating Affordable Green Interiors					0	0

DATE	TITLE	Architecture	Building & Constructi Management	Engineering	Green Business	Green Home & Gard	Interior Design
DATE	TITLE				9	G	
7/7	Lowering the Cost of High Ceilings	0	0	0			
7/10	Community Gardening in Chicago					0	
7/12	From Grass Roots to Girdling Roots, How to Keep your Trees Alive					0	
7/14	Green and Durable - Bamboo Flooring		0			0	0
7/14	Field Applied UV Coatings	0	0				0
7/17	Green Construction Codes Are Here - Now What?	0	0	0			0
7/19	Beneficial Bugs in Your Garden					0	
7/21	Green, Gorgeous, and all Yours		0			0	0
7/21	Sustainable Materials and Life Cycle Assessments	0	0		0		0
7/26	LEED for Existing Homes: Case Studies	0	0	0	0	0	0
7/28	Permaculture II					0	
7/28	Green Building, Smart Business	0			0		0
7/31	Landmark Greenroofs in Chicago	0	0				
8/2	LEED Therapy	0	0	0	0		0
8/4	10 Things You Did Not Know About Microturbines		0	0			
8/7	Greenhouse Gas (GHG) and Transportation		0	0			
8/9	Tips, Tricks and Tracking Energy Bills				0	0	
8/11	Collecting and Storing Honeybee Products					0	
8/11	LED - 12 Questions You Must Ask		0	0			0
8/14	Bed Bug Control		0			0	
8/15	Natural Skincare 101					0	
8/16	Solar Water Heating	0	0	0			
8/16	Bringing Nature Home					0	
8/18	Biorational and Biological Pesticides					0	
8/18	Ecology of Design Part II	0	0	0	0	0	0

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# Creating Affordable Green Interiors

7/7/2012 from 10:00 AM-12:00 PM

SPEAKER: Andrea Vollf, VK Sustainable Concepts

Registered Interior Designer and LEED AP ID+C Andrea Vollf, will teach the audience how to create elegant yet affordable sustainable interiors. She will cover the most popular types of sustainable materials and finishes available in the market - as well as where, and when, to use them. 🔘 🔘

# Lowering the Cost of High Ceilings 7/7/2012 from 1:00-3:00 PM



SPEAKER: Jack Matzer, Energy Efficiency Consultant

Heated air becomes lighter. It is natural for the lighter air to move upward to the ceiling creating air layers of different temperature (stratification). This represents a potential source of heat loss for ground floor occupants, and unwanted heat gain on upper levels. In a facility with a 20 foot ceiling, the temperature can be 10 to 20 degrees (F) higher at the ceiling than on the floor. Balancing this difference can represent energy savings of 15% to 30%. This presentation will highlight case studies focusing on HVAC and destratification systems to achieve temperature balance, energy efficiency 

## Community Gardening in Chicago 7/10/2012 from 6:00-8:00 PM

SPEAKER: Edde Jones, Greencorps Chicago and quest panelists

Community gardens are a great way for neighborhood residents to get to know each other while enjoying the outdoors in a safe and healthy environment. But where do you start, how do you find a space, and what resources and expertise are available to develop your plan? Edde Jones from the city's Greencorps Chicago program will facilitate a panel of community gardening experts to answer your questions and help you get your community garden off the ground and running. Whether you are a gardening veteran looking for additional materials, would like to link more closely with others in your neighborhood who are already gardening, or would just like to learn more, this workshop is for you.





# From Grass Roots to Girdling Roots, How to Keep your Trees Alive. 7/12/2012 from 6:00-8:00 PM SPEAKER: Bruce Horigan, Horigan Tree Care

A professional arborist will discuss many challenges that trees face while growing in the urban and suburban environment. Emphasis will be placed on educating attendees as to what to look for and do that will dramatically increase the health and longevity of our urban forest. Learn which trees are best suited to our climate, including those listed on Chicago's Urban Tree Planting List.

# Green and Durable - Bamboo Flooring 7/14/2012 from 10:00 AM-12:00 PM SPEAKER: Steven Wang, Mr. Bamboo, Inc.

Bamboo is environmentally friendly. It grows faster than trees, so it doesn't take as long to replenish, has a higher density, and absorbs less moisture. As a result, bamboo flooring is 100% harder than oak and 80% harder than maple. Bamboo floors are also easy to install on any type of subfloor and perfect for basement and radiant heat installation. Learn how resilient bamboo flooring is (does not scratch from high heels, sharp objects, pet claws and furniture movement), as well as its use in commercial and residential settings.

# Field Applied UV Coatings 7/14/2012 from 1:00-3:00 PM



**SPEAKER: Richard Mandich, Tesla UV and Rich Mackiewicz, Cytec Industries** Explanation and demonstration of field applied UV coatings on wood, concrete, terrazzo floors, and counter top refinishing. UV coatings are environmentally safe, extremely durable, contain zero to little VOC's and allow for rapid return to service of coated surfaces. AIA/CES: 2LU

# Green Construction Codes Are Here - Now What? 7/17/2012 from 6:00-8:00 PM



#### SPEAKER: Christopher Chwedyk, Burnham - The Code Group

This year, the International Code Council (ICC) has released the 2012 International Green Construction Code (IgCC), which also references the ASHRAE 189.1 - Standard for the Design of High Performance Green Buildings. The purpose of this code is to allow for the 'overlay' regulation of green building construction as part of an integrated approach with the building and fire codes. This seminar will trace the origins of the green codes, how they compare and differ from the rating systems that have been (and continue to be) used, and examine some of their main features. We will also discuss issues related to transitioning from a rating system, where enforcement was by third party agencies, to a code that is enforced and inspected by building officials. AIA/CES: 2LU

# Beneficial Bugs in Your Garden 7/19/2012 from 12:30-2:30 PM





SPEAKER: Erik Grossnickle, Bartlett Tree Experts

LOCATION: First Floor Garland Room, Chicago Cultural Center,

78 E. Washington St.

FEE: Free

Join Erik Grossnickle of Bartlett Tree Experts to learn about setting up an integrated pest management program for your garden. You will learn how to scout for pests, when it is necessary to take action, and the best organic methods for treating them, including the use of beneficial insects.

Brought to you by the Lurie Garden. Space is limited and pre-registration is required. Call 312-742-TIXS (8497).

# Green, Gorgeous, and all Yours: Building a Custom Green Home Project 7/21/2012 from 10:00 AM-12:00 PM

7/21/2012 from 10:00 AM-12:00 PM SPEAKER: Lisa Elkins, 2 Point Perspective

So, you want to learn more about building a green home, or greening your existing abode! It's an exciting process that starts with many, many questions... Who should be on your project team? Where can you find the best green resources? Should you consider LEED for Homes, the Chicago Green Home Program, REGREEN, or others? What are 'Net Zero' and Passive construction all about? And how much more does 'green' really cost? Join LEED accredited architect Lisa Elkins of 2 Point Perspective as she discusses case studies that will answer these questions and many more. Bring your own questions too! Home owners and green professionals who are interested in making the leap into green as well as anyone looking to learn more about eco-friendly residences will enjoy this presentation.

# Sustainable Materials and Life Cycle Assessments 7/21/2012 from 1:00-3:00 PM



SPEAKER: Steve Kooy, Haworth

When choosing materials of construction, how one chooses a sustainable material often depends on the information available. This session will discuss the critical thinking and informational resources required to make the best, most sustainable choice. The session will explore the use of eco-labels and life cycle assessments as tools to make better material choices. Haworth's sustainable professional will provide real examples of materials choices made in the office furniture industry to make products more sustainable. AIA/CES:2 LU



# LEED for Existing Homes: Case Studies



7/26/2012 from 6:00-8:00 PM

SPEAKER: Jason LaFleur, Alliance for Environmental Sustainability;
Marcus de la Fleur, delafleur.com; and David McKirnan,

McKirnan Builders

Come hear the stories from design and construction professionals who have taken existing homes in Chicago and transformed them into efficient, healthy homes meeting the prestigious LEED Platinum designation. Three different case studies will be presented showcasing many green building strategies. Learn about remodeling designs, construction strategies, cost implications, and how the homes have performed after being lived in. AIA/CES: 2LU

### Permaculture II

7/28/2012 from 10:00 AM-12:00 PM

SPEAKER: Jody Luna, Midwest Permaculture

Building on the concepts in Permaculture I: Fundamentals and Principles, this course investigates gardening possibilities in an urban environment. We will focus our attention on the conditions of living in a city, applying permaculture principles to unique and overlooked options to develop fruitful spaces. Participants will take a virtual tour of projects that are currently being done around the city, as well as take away ideas for projects that can be easily implemented in their own homes.

# Green Building, Smart Business: 🐛 🔊

### Leveraging Green Building as an Asset for your Company 7/28/2012 from 1:00-3:00 PM

SPEAKER: Lisa Elkins, 2 Point Perspective

With tens of thousands of businesses operating in Chicago, keeping Chicagoans informed about their green building options is critical. Join LEED accredited architect Lisa Elkins of 2 Point Perspective as she uses a variety of entertaining case studies to showcase how businesses have used different approaches to make green architecture a powerful asset for their company. The lecture will cover a variety of options for greening existing spaces and buildings as well as new spaces and buildings! The basics of LEED for New Construction and LEED for Existing Buildings will be covered in the process. Business owners who are interested in making the leap into green as well as anyone looking to learn more about eco-friendly commercial architecture will enjoy this presentation.

### AIA/CES: 2LU

# Landmark Greenroofs in Chicago 💈 7/31/2012 from 6:00-8:00 PM

SPEAKER: Kevin Crist and Brian Barry, Intrinsic Landscaping

Intrinsic Landscaping, Inc. has played an integral role in many of Chicago's Green Roofs over the past decade; including many notable installations. Our talk will introduce Chicago's role as the #1 Green Roof city in North America as well as in-depth case studies of many of the country's most impressive installations from a variety of different green roof systems. AIA/CES: 2LU



# LEED Therapy - Pursuing High-Performance Operations While Managing the Pain 8/2/2012 from 6:00-8:00 PM



SPEAKER: Jenny Carney, YR&G

Implementing green operations practices like integrated pest management, optimized air quality and energy efficiency will lead to a better, healthier and more efficient building. However, it also means working with a wide range of people and an evolving rating system that isn't always optimized for real world pragmatism. This session will discuss where we are in the evolution of sustainability in buildings and our trajectory for coming years, using various anecdotes and case studies from projects pursuing sustainable operations. Learn how LEED and other sustainability pursuits are shaping our awareness and approach as we move towards implementing sustainable practices and capturing performance results. This discussion is for audiences who have experience with implementing green building projects and an interest in making things smoother the next go around. AIA/CES: 2LU

# 10 Things You Did Not Know About Microturbines 8/4/2012 from 10:00 AM-12:00 PM SPEAKER: Daniel Natura, NewLoop Energy

Microturbines are based on proven turbine design, used for onsite power generation applications and larger hybrid electric vehicle applications. They are a type of combustion turbine that produces both heat and electricity on a relatively small scale. 30kW, 60kW and 200kW microturbines are scalable to 10MW and offer several potential advantages compared to other technologies for small-scale power generation, including: one moving part, compact size, lightweight, greater efficiency, ultra low emissions, lower energy costs, and opportunities to utilize waste fuels. Waste heat recovery can also be used with these systems to achieve efficiencies greater than 80%. Discover the benefits of this emerging and portable technology.

# Greenhouse Gas (GHG) Reduction – Transportation Oriented Community Development Measures 8/7/2012 from 6:00-8:00 PM

SPEAKER: Stefanie Shull, Center for Neighborhood Technology, and Leslie Oberholtzer, Farr Associates

Learn about new certification standards and tools that promote the construction of climate-friendlier neighborhoods by projecting their potential impact and rating the results - especially from a transportation perspective. Leslie Oberholtzer from Farr Associates will explain how sustainability metrics in systems like LEED-ND and SmartCode can be applied to zoning codes to reduce GHG emissions and promote alternative modes of transportation. Stefanie Shull from the Center for Neighborhood Technology (CNT) will demonstrate two CNT tools: one that estimates the GHG emissions from household transportation needs; the other estimates the transportation energy intensity of commercial buildings.

# Tips, Tricks and Tracking:

# Take Control of Your Energy Bills and Save a Bundle 8/9/2012 from 6:00-8:00 PM

SPEAKER: Annie Warnock, Citizens Utility Board

It is summer and it is heating up. Do not let those energy bills make you hot under the collar! Join Annie Warnock from the Citizens Utility Board to learn about the CUB Energy Saver site—a free online tool that will help you track and save on your energy bills, and even reward you for each kilowatt you save! Annie will also talk about the different energy efficiency programs that the utility companies offer to those customers interested in investing in high efficiency appliances.

This seminar will be presented in both English and Spanish. To RSVP for Spanish speaking attendees call 1-800-669-5556 and ask for Ivonne.

# Collecting and Storing Honeybee Products 8/11/2012 from 10:00 AM-12:00 PM

SPEAKER: John Christman, Christman Apiary

This seminar will discuss collecting pollen, honey supering, extracting and processing honey, and processing wax cappings for candles. Collection of other honeybee products including propolis and royal jelly will also be discussed. The program will include a slide presentation, hands-on demonstration, samples of the honeybee products, and plenty of time for questions. For those that bring a hat and veil, there will be a demonstration in the CCGT apiary by our head beekeeper, John Christman.



# LED Lighting- 12 Questions You Must Ask When Specifying Quality LED Solutions

8/11/2012 from 1:00-3:00 PM SPEAKER: Bob Shaw, Lumecon LLC

LED lighting has many promises and many bad solutions in the market place. Our 12 Step Training Seminar is a brief overview of the 12 questions one should consider when evaluating "What is a good / reliable LED solution?" After listening to our 12 questions presentation, you will be armed with effective criteria to ensure that you always get quality LED solutions to fit your next lighting / retro-lamp project. 

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### **Bed Bug Control Through Proper Building Management** 8/14/2012 from 6:00-8:00 PM

SPEAKER: Ruth Kerzee, Safer Pest Control Project

Bed bugs are a growing issue in Chicago and the world. This seminar will address bed bug control through proper building management to help reduce the ineffective and dangerous use of pesticides. Effectively controlling bed bugs requires a new perspective and tools. This seminar will help to focus your efforts.



# Natural Skincare 101: Oils, Scrubs, and Masks

8/15/2012 from 6:30-8:00 PM

SPEAKER: Heather Grance, Peggy Notebaert Nature Museum LOCATION: Peggy Notebaert Nature Museum, 2430 N. Cannon Drive FEE: \$10 for Nature Museum members, \$15 non-members

Ever wonder about the ingredients in skin care products? We do! Learn about commonly used commercial ingredients and how to create your own skincare routine using natural (and edible!) ingredients. Attendees will make and take natural cleansing oil, body scrub, and skin clearing mask. Program led by Nature Museum staff.

To register visit naturemuseum.org, email adultprograms@naturemuseum.org or call 773-755-5122.

# Solar Water Heating – High Performance Systems Designs

8/16/2012 from 6:00-8:00 PM

SPEAKER: Alex Kelley, VELUX America

A comprehensive, educational program to communicate pros/cons of different Solar Water Heating (SWH) system designs, code issues with SWH, and market trends advancing SWH in the US. This seminar will also highlight the advantages of a pre-engineered solar water heating solution for residential and small commercial applications. Participants will leave with a better understanding of the costs, benefits, and return on investment of SWH. AIA/ CES:2LU O

**Bringing Nature Home** LURIE GARDEN 8/16/2012 from 12:30-2:30 PM

SPEAKER: Doug Tallamy, Professor and Author

LOCATION: Fifth Floor Millennium Park Room, Chicago Cultural

Center, 78 E. Washington St.

FEE: Free

Would you like to have a healthy ecosystem around your house? Come be inspired by Doug Tallamy, professor and chair of the department of entomology and wildlife ecology at the University of Delaware. He will highlight simple changes you can make in the maintenance of your landscape that will make a crucial difference to wildlife and help protect biodiversity. Doug Tallamy authored Bringing Nature Home, which won the Garden Writer's Association 2008 Silver Medal Award.

Brought to you by the Lurie Garden. Space is limited and pre-registration is required. Call 312-742-TIXS (8497).

# Biorational and Biological Pesticides mela 8/18/2012 from 10:00 AM-12:00 PM

SPEAKER: Shawn Kingzette, The Care of Trees

Introduction to terminology of newer more environmentally friendly pesticides and how they can be used to reduce the risk of harming people and the environment when managing pest problems in the garden. This seminar will specifically cover outdoor applications, mostly on trees, shrubs, and ornamental plants.

## Ecology of Design Part II: Method and Application 8/18/2012 from 1:00-3:00 PM



Part II of a two-part series, presents a methodology, Urbanized Ecosystems™ (UrbEcoSys<sup>TM</sup>), which models specific urbanized areas as complex, dynamical ecosystems, based on scoping, inventorying, and assessing their critical variables and relationships as represented by the flux and cyclic processes of energy, materials, costs, and information. Such an approach is scalable and transferable to neighborhoods, communities and regional applications. A proof-of-concept application will be featured as a case study. This class is recommended for people seeking a Green Tech U Certificate. AIA/CES: 2LU





## **EXHIBITIONS AND EVENTS**

The Chicago Center for Green Technology's 10th Anniversary Celebration Saturday, June 16th, 2012 10:00 a.m. to 3:00 p.m. Free registration

The Chicago Center for Green Technology (CCGT) is celebrating its 10-year Anniversary with an event promoting green building and sustainable practices. Planned activities include:

- A Build Smart Expo featuring 40 product/service vendors
- Mini-presentations by experts discussing green programs and incentives;
- Games for everyone, including bag toss and a dunk tank;
- A solar powered DJ system and sound stage;
- · Food supplied by local vendors; and
- An after-event party at Christy Webber Landscapes.

In addition, there will be special appearances by the City of Chicago's Chief Sustainability Officer Karen Weigert, Department of Fleet and Facility Management Commissioner David Reynolds and Transportation Commissioner Gabe Klein.

Join CCGT as it celebrates 10 years of bringing green to Chicago (and beyond). More information is available at <a href="http://www.chicagogreentech.">http://www.chicagogreentech.</a> org/10th\_Anniversary. Registration is free. People who register before June 9th will be eligible for raffle prizes and other giveaways such as a rain barrel, weatherization kit, compost bin and more.

This event is held in partnership with **Green Depot and Christy Webber** Landscapes, and is generously supported by **WRD Environmental**, **Peoples Gas Natural Gas Savings Program** and **Rainbird**. Look for their booths at the celebration to learn more.

# The Living Wall Donated by Living Art USA™ On display now at CCGT

One of our most recent installations is the brand new living wall that now adorns our lobby. The display by **Living Art USA** is made up of Tillandsias, more commonly known as air plants. Tillandsias are self sustaining - they do not require any soil and have earned their nickname because of their unique ability to absorb moisture from the air. The air plants are mounted on 150 year old oak and pine barn wood panels salvaged from a local farm.

Living Art USA<sup>TM</sup> is a local Chicago company which combines art and plants to create vibrant, living decors on walls. Living Art USA<sup>TM</sup> designs feature only natural or recycled products.

# **PARTNERS**

### **AIA Chicago**



AIA Chicago is a chapter of the American Institute of Architects, the leading professional membership association for licensed architects, emerging professionals, and allied partners. Since 1869, AIA Chicago has served as the local voice of the architecture profession and a resource for our members in service to society.

# Chicago Architecture Foundation FOUNDATION

The Chicago Architecture Foundation is a nonprofit organization dedicated to advancing public interest and education in architecture and design. The Chicago Architecture Foundation presents a comprehensive program of tours, exhibitions, lectures, special events, and adult and youth education activities, all designed to enhance the public's awareness and appreciation of Chicago's outstanding architectural legacy. Find out more at www.architecture.org.

### **Green Depot**



Green Depot is the nation's leading supplier of environmentally friendly building products, services and home solutions. The company's mission is to make green building products readily accessible, affordable and gratifying so that sustainable practices can easily be adopted into standard construction operations. Green Depot currently has an active ecommerce site, **www.greendepot.com**, 13 stores, including Chicago, and 20 distribution warehouses across the country.

#### LURIE GARDEN

### The Lurie Garden

The Lurie Garden in Millennium Park is an urban oasis emerging from a harmonious blend of symbolism, landscape design and ecological sensitivity. Its design pays homage to Chicago's transformation from flat marshland to innovative green city, or "Urbs in Horto" (City in a Garden). Visitors find respite and inspiration all year round, from early spring, sun-hungry bulbs to winter's graceful snow and ice art forms. The Lurie Garden is also a leader in cutting-edge design, responsible gardening practices and dynamic public programming in an urban environment. Visit us at www.luriegarden.org to learn more.

## Midwest Ecological Landscaping Association



The Midwest Ecological Landscaping Association (www.melaweb.org) is the first trade association of green industry professionals in the Midwest dedicated to adopting sustainable designs, methods and materials as standard practice. MELA serves members from a wide variety of disciplines and employment sectors covering everything from landscape architects and government employees to contractors, growers, manufacturers and distributors. These people look to MELA to provide them with knowledge, opportunities and training about sustainable design, installation and maintenance.



### **Neighborhood Housing Services**

Established in 1975, Neighborhood Housing Services of Chicago, Inc. is committed to offering Chicago residents affordable resources so they can buy, fix, and keep their homes. NHS' mission is to create opportunities for people to live in affordable homes, improve their lives, and strengthen their neighborhoods.

### Peggy Notebaert Nature Museum

The Peggy Notebaert Nature Museum strives to create a positive relationship between people and nature through collaborations, education, research and collections, exhibits and public forums that fosters urban connections to our region's nature and science. Please visit us at www.naturemuseum.org for more information.



## U.S. Green Building Council – Illinois Chapter

The USGBC-Illinois Chapter leads the regional transformation of the built environment to become ecologically sustainable, profitable and healthy. The Chapter works to achieve this through advocacy, collaboration and education, including LEED® Extra



Credit seminars, Green Building for Contractors, and a variety of other green building related programs and events throughout the region. The Chapter is located at 222 Merchandise Mart Plaza, Suite #946. For information on Chapter programs and events, please visit the website at www.usgbc-chicago.org or call (312) 245-8300.

#### **BUILD SMART – GREEN DIY:**

# Build Smart Chicago— Green DIY Workshops and Classes Brought to you by: CCGT, Green Depot, and Neighborhood Housing Services

Build Smart Chicago CCGT is a monthly listing of hands-on green DIY opportunities around Chicago, and includes workshops and classes from partner organizations and other groups working to create a greener city. Visit www.chicagogreentech.org/buildsmart to view a listing of events and learn more about registration.



# CHICAGO CONSERVATION CORPS (C3):



You Care. Do Something. We'll Help.

### Fall 2012 Environmental Leadership Training Series

The Chicago Conservation Corps is now recruiting for its Fall 2012 Environmental Leadership Training Series. During the training, you'll learn from community and environmental leaders about urban environmental challenges and opportunities for change; then you'll lead an environmental service project in your community with C3 support and resources.

To apply for the C3 Leadership Training Series, you must be a City of Chicago resident and attend one orientation. Attend an orientation in early October to learn more. For a list of orientation and training dates and for more information, visit www.chicagoconservationcorps.org or contact C3 at (312) 743-9283 or conservation@cityofchicago.org. A \$75 fee covers course participation and project support. Financial assistance is available upon request.

### **Explore Environment Service**

Turn your passion for the environment into action: VOLUNTEER. Are you inspired by Chicago's green space and want to help make sure it is preserved? Do you want to clean up your neighborhood, but feel like it is too much to tackle by yourself? Do you want to be more involved in environmental action and education but aren't sure where to begin?

Volunteer with the Chicago Conservation Corps and our partner organizations. Featured volunteer opportunities highlight exciting ways that you can explore environmental service year round. Volunteers are encouraged to participate in fun, hands-on activities that get your feet wet and your hands dirty while working along side some of Chicago's most active environmental leaders.

Ready to get started? Find a full listing of monthly volunteer events, please visit the C3 blog: www.chicagoconservationcorps.org/blog/eventcalendar. Please do not hesitate to contact us for additional information: conservation@ cityofchicago.org, 312-743-9283.

For more information about the Chicago Conservation Corps Leadership Training course, our school-based programs, or to learn about other volunteer opportunities, visit **www.chicagoconservationcorps.org**.

# **GREENCORPS CHICAGO:**



Greencorps Chicago is rooted in actively involving individuals and communities in improving the quality of life for Chicago residents. We provide green job training and help strengthen and build communities and relationships through community gardening. Gardeners and graduates are **Ready** to move forward and **Set** with practical experience, training and resources to **Grow** themselves, their communities and the city.

Greencorps has assisted over 800 community gardeners and 350 trainees since it's inception in 1994. To learn more contact us at 312-744-8691 or e-mail us at greencorps@cityofchicago.org.





### PLAN YOUR VISIT

#### LOCATION:

Chicago Center for Green Technology 445 N. Sacramento Blvd. Chicago, IL 60612 (312) 746-9642 greentech@cityofchicago.org www.chicagogreentech.org

#### **DIRECTIONS:**

The center is readily accessible by public transit and encourages people to use alternate means of transportation.

#### **CTA**

Take the Green Line to California stop, transfer to the #94 (South California) bus headed northbound, which stops right in front of CCGT; OR take the #66 (Chicago) bus to Sacramento Ave., walk two blocks south, and CCGT will be on the left hand (east) side of the street.

#### BIKE

Bicycle racks are available in front of and behind the building. To find best routes visit www.chicagobikes.org.

#### CAR

Free parking is available at CCGT. There are two parking lots on site: a small lot in the front of the building; and a larger lot behind the building just down Ferdinand Ave. Parking on Ferdinand is also permitted.

#### **BUILDING HOURS:**

M, W, F: 9:00 AM – 5:00 PM T, Th: 9:00 AM – 8:00 PM Sat: 9:00 AM – 4:00 PM Sun: CLOSED

NOTE: The Chicago Center for Green Technology will be closed on the following dates:

Monday, May 28th; Memorial Day
Wednesday, July 4th; Independence Day



# Building a sustainable Chicago and enhancing the quality of urban life.

