



# NEWSLETTER

Midwest Cogeneration Association, Inc.

June, 2003

Vol. 18, No. 2

## **Seventh Annual Midwest Cogeneration Association Golf Outing**

**July 24, 2003**

The *Midwest Cogeneration Association* will hold its *Sixth Annual Golf Outing* on July 24, 2003 at Arrowhead Golf Club in Wheaton, Illinois. This well attended event will be a scramble format, with team and individual prizes available.

After an exhilarating round of golf, you will be treated to an outdoor barbecue, awards presentation, and a chance to meet with fellow MCA members in a social setting. This should add up to a relaxing change of pace for all of us.

Starting tee times will begin at 10:00 a.m. Please contact David Patricoski via e-mail at [dtpat@aol.com](mailto:dtpat@aol.com) or at (630) 858-8110. No tee times will be reserved until payment is made. There will be a limited number of participants. On the day of the outing, we ask that the participants check in at least 30 minutes prior to your scheduled tee time.

The cost for this event will be \$105 for members and \$115 for non-members. This includes green fees, golf cart, two (2) beverages, afternoon snack bar, and early evening barbecue. The available tee times are somewhat limited for this event, and therefore we must receive your payment no later than July 11, 2003 to ensure a reservation. To reserve your tee time, please fill out the form on page 3 and return it with payment by check to:

Midwest Cogeneration Association  
c/o LaSalle Associates  
PO Box 2878  
Glen Ellyn, IL 60138

No refunds can be issued after the due date (July 11).

Anyone wishing to sponsor a hole (\$175) or donate a prize may contact David Patricoski via e-mail at [dtpat@aol.com](mailto:dtpat@aol.com) or by phone at (630) 858-8110. Those parties who do sponsor a hole will be recognized at the hole with a 12" x 12" posted sign. Those donating prizes will be honored at the barbecue.

We look forward to your participation!

## ***MCA ACTIVITIES***

### **MIDWEST COGENERATION ASSOCIATION**

P.O. Box 283  
Western Springs, IL 60558-0283  
Voicemail: (630) 323-7909  
Website: [www.cogeneration.org](http://www.cogeneration.org)

### **2003 OFFICERS and BOARD OF DIRECTORS**

#### **President**

Bill O'Shea  
O'Shea Environmental

#### **Vice-President**

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Reliable Power, Inc.

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Ricardo Engineering

David A. Miller  
Energy Choices, Inc.

Tom Riemer  
JTR Industries, Inc.

Michael Smedley  
Trigen-Peoples District Energy Co.

Alden T. Wulff  
Retired

## **Mark your calendars and reserve the date!**

### **The MCA Seventeenth Annual Non-Utility Conference will be held on September 25, 2003.**

This year's conference will be held at *McDonald's Hamburger University*, not the lodge where it has been held in the past. Hamburger University is at the same location, but is the building behind the lodge. Watch your mail for additional information on the conference.

If you are interested in assisting with the conference or exhibiting, contact Bill O'Shea at 630-243-8364.

## **MCA ACTIVE COMMITTEES**

#### **Awards**

Bud Wulff\*  
Gary Ephraim

#### **By-Laws**

Robert Patricoski\*  
Bud Wulff  
John Conway

#### **Conference**

Gary Ephraim  
Bill O'Shea  
Bob Conway  
Ken Jacobs

#### **Golf Outing**

David Patricoski\*

#### **Membership**

David Miller\*

#### **Newsletter**

Volunteer Needed

#### **Nominating**

To be determined.

#### **Programs**

To be determined.

If you are interested in participating on any of the above committees, please contact Bill O'Shea at 630/243-83640 or the Committee Chair designated by the \*.



For up-to-the-minute  
information on the  
Midwest Cogeneration  
Association visit our  
website at:

**[www.cogeneration.org](http://www.cogeneration.org)**

# MEMBER NEWS



## NEW MEMBERS

**Tom Casten**  
Private Power LLC

**Dan Divis**  
GE Zenith Controls

**David Drew**  
Marathon Capital, LLC

**Ed Kuske**  
Paradigm's Edge Consulting, LTD

**Spas Lazarov**  
GE Zenith Controls

**Michael J. Perry**  
Industrial Electrical Engineers

**Thomas White**  
Marathon Capital, LLC

**John Whitehouse**  
Cummins Npower

## MCA Membership Handbook

Watch your mail in June for an update to the MCA Handbook. The update will include a listing of contact information for all current members along with a new member category index.

If you are concerned we may not have your current contact information, or want to verify your category listing, please contact Robin Pelsis at (630) 323-7909 or [mca@cogeneration.org](mailto:mca@cogeneration.org) before May 30th.



## We Want and Need To Hear From You!

This newsletter offers a forum to communicate with turnkey design build contractors, equipment suppliers, potential customers, regulators and utilities. We look forward to featuring your comments and editorials. If you would like to submit comments, an editorial or be featured in an article, please address comments to the MCA mailbox at P.O. Box 283, Western Springs, IL 60558-0283, the voicemail system at (630) 323-7909, the website at [www.cogeneration.org](http://www.cogeneration.org) or an e-mail to [MCA@cogeneration.com](mailto:MCA@cogeneration.com).

### MIDWEST COGENERATION ASSOCIATION'S—SEVENTH ANNUAL GOLF OUTING RESERVATION FORM

Name(s) of Golfer(s)	Company	Phone/E-mail	Fee
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
		Hole Sponsorship	_____
		Total Enclosed	_____

MCA Member Cost - \$105  
 Non-Member Cost - \$115  
 (Non-member guests of members will be charged the member rate)  
 Hole Sponsorship - \$175 (please include company information)

**All reservations must be received no later than July 11, 2003!**

**All reservations for less than 4 people will be filled at the discretion of Golf Outing Chairman**

**Please return this form and payment to: MCA c/o LaSalle Associates, PO Box 2878, Glen Ellyn, IL 60138**

## ***MEMBER NEWS***

### **Eighth Annual Cogeneration Recognition Award**

The **MIDWEST COGENERATION ASSOCIATION** is sponsoring its Eighth Annual Cogeneration Recognition Award to recognize cogeneration or power generation projects that present innovative technical or economic attributes.

You are cordially invited to enter a project with which your company has been involved. Please use the enclosed form to enter the contest. Entries will be judged by a committee selected by the MCA; the committee will not include members who are participants in any of the projects being considered for an award; the decision of the judges will be final. The MCA reserves the right to recognize more than one project or to reject all applications.

The deadline for entering the contest is Friday, August 29, 2003, at 5:00 p.m. CST. Entries must be received via U.S. mail on or before that time.

#### **Submittals will be judged on these and other criteria:**

- Originality of design
- Cost / financial benefit
- Engineering innovation
- Energy conservation
- Extent of automation
- Unique features and concepts
- Energy takeoff applications

#### **Who may enter:**

- Owner / Third Party
- Operator
- Designer / Consulting Engineer
- Prime Contractor / Builder
- Turnkey Designer / Builder
- Developer

All major participants of the winning project will receive recognition and the project itself will receive a commemorative plaque. The winning entrant(s) will be recognized **at the MIDWEST COGENERATION ASSOCIATION'S SEVENTEENTH ANNUAL CONFERENCE** to be held at McDonald's Hamburger University in Oak Brook, Illinois on **September 25, 2002**. The winning project(s) will also be highlighted in the MCA's Newsletter. Notice of the award also will be circulated to other technical journals and industry publications (unless the entrant elects otherwise).

#### **For further information**

**please contact:** Bud Wulff at (630) 323-8880 or  
the MCA voicemail number (630) 323-7909 with any questions.

## ***INDUSTRY NEWS***

### **SC Johnson Breaks Ground for New 'Green Energies' Project**

#### **COGENERATION SYSTEM WILL CUT AIR EMISSIONS AND REDUCE USE OF FOSSIL FUELS**

As part of SC Johnson's ongoing commitment to protect the global environment, the company is breaking ground at its Waxdale facility for the installation of a new system that transforms waste landfill methane gas into "green" energy using a process called cogeneration.

The site of the groundbreaking will house a turbine engine which, through a process called cogeneration, burns waste methane gas from a nearby landfill to produce electricity and steam to be used by the Waxdale facility. In a further innovation, the Waxdale plant will use waste methane gas generated by a local landfill as the fuel for the cogeneration procedure. SC Johnson is the first consumer products manufacturer to use the cogeneration process to power its main manufacturing site operations.

The waste methane gas will come from the Republic Services' Kestrel Hawk landfill site, one half mile to the east of Waxdale. SC Johnson will burn methane instead of fossil fuels, such as natural gas or coal. Through this process, the company expects to reduce Waxdale's emissions of carbon dioxide (CO<sub>2</sub>)

and other greenhouse gases by 47 percent and cut fossil fuel energy use nearly in half by 2005.

"The greenhouse gases we save through this process will be equivalent to keeping 3,200 cars off the road per year," said Dr. H. Fisk Johnson, Chairman of SC Johnson. "That's right for SCJ, our community and our planet today — and even more important, it's right for the generations of tomorrow."

According to the U.S. Environmental Protection Agency (EPA), only about 30 U.S. companies have developed an energy recovery system utilizing otherwise wasted landfill methane. But SC Johnson is unique in its cogeneration process of using methane gas to make electricity and recovering waste heat for use in the Waxdale plant as steam.

"SC Johnson's commitment to the environment and renewable energy development reflects the values and innovative spirit of people in Southern Wisconsin," said U.S. Representative Paul Ryan (WI-01). "Their leadership also demonstrates that environmental stewardship can play a critical role in reducing the cost

of doing business, which helps keep and create more jobs in today's economy."

The project is another step in SC Johnson's efforts in the U.S. EPA's Climate Leaders Initiative, a voluntary partnership to reduce greenhouse gas emissions. The system is projected to be fully operational by the end of 2003.

The groundbreaking took place just three days after SC Johnson received the first-ever Lifetime Atmospheric Achievement Award from the U.S. EPA, recognizing the company for its long-standing commitment to protecting the ozone layer and climate. Scott Johnson, Vice President of Global Environmental and Safety Actions for SC Johnson, accepted the award on behalf of the company at the Earth Technologies Forum in Washington, D.C.

## **INDUSTRY NEWS**

### **States Need to Act on Combined Heat & Power Issues**

The federal government is one of the largest energy users in the United States. To encourage cost reduction and improve energy efficiency, the federal government created the Federal Energy Management Program (FEMP). Through their work, Executive Order (EO) 13123 outlines the way government facilities can become energy efficient. This EO covers a variety of different topics, but one that is especially pertinent is defined in Section 403(g).

Section 403(g) states that federal facilities shall use combined cooling, heating and power systems when life cycles costs indicate that energy cost reductions can be achieved. Combined heat and power (CHP) is the process by which onsite power generation is used to create electricity for a facility while simultaneously producing some or all of the facility's heat needs. The Federal government's decision to examine CHP at their facilities is just the beginning. The Federal government has concluded that some additional capital costs in the design and construction phase provide for increased reliability, reduced operating costs and increased security for Federal facilities. State and local government funded facilities such as schools and hospitals, just to name a few, also should embrace this approach.

For state facilities to consider CHP, they must include this requirement at the beginning of the project. Architect and engineering firms that work with state clients on whether to add a

building or effect new construction must understand the advantages and flexibility that CHP systems bring. Life cycle analysis of building options with and without CHP must be included in the decision making process for state project managers. Finally, state agencies must be educated about the advantages of CHP and how it can be used as a part of a larger energy plan combining demand and supply side management to reduce over all cost of facilities.

What are the advantages of CHP? First, it can reduce electric cost by producing power less expensive than purchased power. Second it allows for stability in a very volatile deregulated electric market. When a facility generates its own power, it will have power being produced a rate defined well in advance so that facility and business managers can accurate project costs. Third, since the by-product of electricity generation is heat, facilities capturing that heat get a secondary saving with minimal additional cost. Heat recovery systems reduce the effect of greater fluctuations in the natural gas market because the savings from the heat recovery is increased as gas prices increase. Fourth the amount of pollutants produced to generate the equivalent btu's and kilowatts is reduced when compared to coal fired plants. Finally, CHP systems give any facility emergency power back up and voltage stability during critical days. The waste heat from these systems can be used for space

heating, domestic hot water, boiler feed water preheating, pool water heating, steam/hot water for absorption chillers, and process hot water/steam.

CHP has existed for more than 100 years and is now being accepted as a viable option to increase reliability, reduce operational cost, enhance energy security and add price stability. Since the federal government is proactively asking its facilities to examine CHP through life cycle analysis, it makes sense that state and local agencies do the same. Actions state and local governments can take to encourage CHP use:

- 1) Incorporate, into existing state regulations for designing facilities, the requirement to perform a facility life-cycle cost analysis which includes CHP as an option
- 2) Require CHP to be used where it demonstrates cost efficiencies and energy security enhancements;
- 3) Get involved in utility rates and interconnection charges. Utility interconnection costs associated with CHP can create unfair barriers that can unfairly and negatively affect any CHP project;
- 4) Increase or add credits for environmental benefits achieved by CHP;
- 5) Work directly with federal agencies to develop grant programs for promoting CHP.

*Contributed by:* Mike Perry, Director of D.G. Development, from IEE (Industrial Electrical Engineers out of Rockford).

## **INDUSTRY NEWS**

### **Cinergy Business Solutions: Combined Heat and Power Plant Begins Operations**

Officials at St. Paul Cogeneration, LLC today announced that its combined heat and power plant is now in full operation providing electricity to Xcel Energy and hot water to District Energy. The new biomass plant, under construction since September 2001, has been operating in test mode since mid-February in preparation for permanent operations. The privately-financed facility is owned and operated by St. Paul Cogeneration, a company formed by Trigen-Cinergy Solutions of St. Paul, LLC and Market Street Energy Company, LLC an affiliate of District Energy St. Paul, Inc.

Cinergy Solutions, Inc., responsible for the design and construction of this state-of-the-art facility, built the biomass-based combined heat and power plant in less than 18 months. "We are proud to be a part of this landmark project in St. Paul," said Don Snider, President & COO of Cinergy Solutions, Inc. "The facility was constructed in a very short time largely due to the cooperation throughout the project between Market Street Energy and Trigen-Cinergy Solutions of St. Paul along with the skill and dedication of the St. Paul labor force."

"As biomass is an important and developing part of Xcel Energy's supply portfolio, we are pleased to

have this new plant providing electricity to our power grid," said David Eves, Vice President of Resource Planning and Acquisition for Xcel Energy. "This plant represents an important component in our continuing efforts to expand and diversify our energy production through the use of renewable resources."

The new plant sequentially produces heat and electricity, making it more than twice as efficient as plants that only generate electricity. It is fueled primarily by clean wood waste, a plentiful, renewable local resource. Projected to burn 280,000 tons of wood waste annually, it will be the largest wood-fired combined heat and power plant supplying a district energy system in the United States. "This plant will provide significant economic and environmental benefits for businesses and residents throughout our region," said Anders Rydaker, President of Market Street Energy Company. "It will reduce District Energy's reliance on coal by 80 percent, reduce soot emissions by 50 percent, and reduce greenhouse gas emissions by more than 280,000 tons per year.

The new plant will also help the community solve a wood waste disposal problem." Xcel Energy will purchase 25 megawatts of electricity produced at the plant, enough energy

to supply approximately 20,000 homes. In addition, efficient thermal energy will supply approximately 80 percent of the annual needs for the District Energy system, which is currently fueled primarily by coal. District Energy provides heating and cooling services to the majority of buildings in the downtown St. Paul area.

*Source: Energy Central Direct*

**In an effort to control expenses, the MCA would like to distribute this newsletter to members via e-mail.**



**Please send us an e-mail to [mca@cogeneration.org](mailto:mca@cogeneration.org) with a subject line of "newsletter" and we will add you to the list of members receiving the newsletter via e-mail only.**

**If at anytime you would prefer to revert back to a hard copy, received via U.S. mail, just let us know and we will be happy to accommodate you.**



Midwest Cogeneration Association  
P.O. Box 283  
Western Springs, IL 60558-0283

RETURN SERVICE REQUESTED



June 9-13, 2003 - *Comprehensive 5-Day Training Program for Energy Managers*

Location: Harrah's Lake Tahoe  
Lake Tahoe, Nevada

Sponsor: AEE

Contact: [www.aeecenter.org](http://www.aeecenter.org)

June 12-13, 2003 *Integrate Utility Electronic and Physical Security*

Location: Hilton, Chicago, Illinois  
Sponsor: CBI

Contact: (800) 817-8601

June 12-13, 2003 - *Energy Auditing 101: Identifying Cost Saving Opportunities in Plants & Buildings*

Location: Holiday Inn Fair Oaks  
Washington, D.C.

Sponsor: AEE

Contact: [www.aeecenter.org](http://www.aeecenter.org)

June 16-18, 2003 - *Northeast Gas Storage & Supply Strategies 2003*

Location: The Boston Park Plaza Hotel,  
Boston, Massachusetts

Sponsor: Infocast

Contact: (818) 888-4440

June 19-20, 2003 - *Greenhouse Gas Trading Symposium*

Location: Hilton Alexandria Mark Center  
Washington, D.C.

Sponsor: CBI

Contact: (800) 817-8601

June 23-24, 2003 - *Financing & Optimizing Renewable Energy Projects*

Location: The Warwick Denver  
Denver, Colorado

Sponsor: CBI

Contact: (800) 817-8601

June 25-27, 2003 - *Fundamentals of Buying and Selling Energy*

Location: Doubletree Downers Grove,  
Downers Grove, Illinois

Sponsor: AEE

Contact: [www.aeecenter.org](http://www.aeecenter.org)

June 25-27, 2003 - *Asset Optimization and Portfolio Management*

Location: Holiday Inn Chicago Mart  
Plaza, Chicago, Illinois

Sponsor: Infocast

Contact: [www.infocastinc.com](http://www.infocastinc.com)

June 26-27, 2003 - *Forum on New York Power Supply*

Location: New York Marriott East Side  
New York, New York

Sponsor: CBI

Contact: (800) 817-8601

**July 24, 2003 MCA Annual Golf Outing**

Location: Arrowhead Golf Club

Contact: Robin Pelsis (630) 323-7909

or [mca@cogeneration.org](mailto:mca@cogeneration.org)

August 4-5, 2003 - *2nd Annual T&D Asset Management*

Location: Chicago Hilton and Towers  
Chicago, Illinois

Sponsor: CBI

Contact: (800) 817-8601

September 18-19, 2003 - *Prepare for Disaster Response & Recovery*

Location: Washington, D.C.

Sponsor: CBI

Contact: (800) 817-8601

**September 25, 2003 MCA Annual Conference**

Location: McDonald's Hamburger  
University, Oak Brook, IL

Contact: Robin Pelsis (630) 323-7909  
or [mca@cogeneration.org](mailto:mca@cogeneration.org)

November 17-18, 2003 - *5th Annual Financing US Power Projects*

Location: TBD

Sponsor: CBI

Contact: (800) 817-8601

**November 19, 2003 MCA Membership and Board of Directors Meeting**

Location: TBA

Contact: Robin Pelsis (630) 323-7909  
or [mca@cogeneration.org](mailto:mca@cogeneration.org)

December 9-11, 2003 - *Fundamentals of Power Quality*

Location: Hilton Garden Inn

New Orleans, Louisiana

Sponsor: AEE

Contact: [www.aeecenter.org](http://www.aeecenter.org)

*Any opinions or positions contained in the MCA newsletter are solely the opinions or positions of the author of the article in which it appears; and does not necessarily represent the opinion or position of the MCA, its Membership or its Board of Directors.*