

Madison Metropolitan Sewerage District (MMSD) Tour of Physical Plant and Engineering Systems



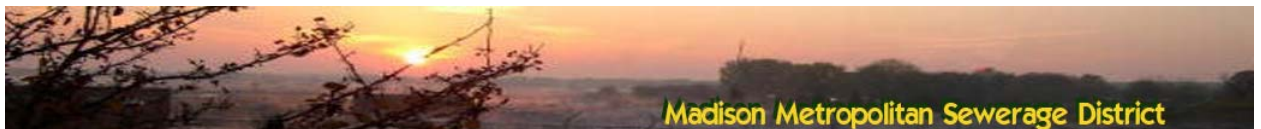
Date: **Thursday, April 18, 2013**
Time: 11:45pm - 1:15pm
Speaker: MMSD Engineering Representative
Agenda: Informal networking will begin at 11:30am.
Presentation: 11:45am, Tour: 12:30pm.
Location: Madison Metropolitan Sewerage District
1610 Moorland Rd Madison
Madison, WI 53713
Menu: Lunch meal provided: \$5 for IEEE members, \$10 for non-members, **free for students.**
RSVP: Deadline: Apr. 15. Go to https://meetings.vtools.ieee.org/meeting_view/list_meeting/17653
to register. Please send questions or difficulties to CJ Gervasi at cj@cgersvasi.com

Abstract

The MMSD has graciously invited us to a tour of their Bio/Facilities capacity. Much engineering occurs in such a facility, including: laboratory, large electrical motor service, process controls, anaerobic digesters, and post-processing dried sludge handling. This physical plant provides about two-thirds of the power to run the facility, due to its three 500 kW generators driven by the methane from their digesters. The plant also generates steam for heating the waste stream and thermally driving AC electricity in the main building. Please come with us on the 45-minute tour of this very impressive facility, and also enjoy a lunch with the pre-tour presentation.

Biography

Over 100 years ago, the first wastewater treatment plant was built in Madison, Wisconsin. In comparison, many communities did not have wastewater treatment for another 50 years. The Madison Metropolitan Sewerage District was created in 1930 by state statute to protect the environment in the region of lakes and streams that comprise the upper Yahara River watershed. The Madison Metropolitan Sewerage District now serves almost 300,000 people in the cities, towns, and villages in the Madison area. The District is governed by a five-member Board of Commissioners appointed by the County Executive. The Board is responsible for setting policy, ensuring fiscal responsibility, and establishing District directions. Wastewater treatment for the entire District is performed at the Nine Springs Wastewater Treatment Plant. District staff are responsible for the administration of the District and for the design and maintenance of interceptor collections sewers and pumping stations which convey wastewater from over 40 municipal customers to the Nine Springs Wastewater Treatment Plant. More at:



IEEE Entrepreneurs & Consultants Network, Madison Networking Meeting

Date: **Thursday, April 4, 2013**
Time: 12:00pm to 1:00pm
Purpose: Presentation, topic TBD.
Location: **Sector67** (East Side of Madison)
2100 Winnebago Street
Madison, 53704
Parking: Park in lot or on Winnebago Street.
Process: Members are encouraged to make introductions, describe endeavors, and make request for: contacts in target companies, needs, resources. Bring your elevator speech and rolodex!
RSVP: Tim Chapman (PrettyGoodGUIs@TrueNym.NET), 608-206-2570

Implications of The America Invents Act: What “First-to-File” Means for Engineers

Date: **Thursday, June 20, 2013**

Time: 12:00pm - 1:00pm

Speaker: James Joyce, Patent Attorney
Whyte Hirschboeck and Dudek

Agenda: Informal networking will begin at 11:30am.
Presentation will begin at 12:00pm.

Location: Promega BioPharmaceutical Technology Center
5445 E Cheryl Pkwy, Room Number: 122
Fitchburg, WI 53711

Menu: Lunch meal provided: \$5 for IEEE members, \$10 for non-members, **free for students.**

RSVP: Deadline: June 17. Go to: https://meetings.vtools.ieee.org/meeting_view/list_meeting/17734
to register. Please send questions or difficulties to CJ Gervasi at cj@cgervasi.com



Abstract

The American Invents Act was signed by the president on Sept. 16, 2011. On March 16, 2013, the biggest change brought about by this Act is America's conversion from a First-To-Invent system to a First-To-File system. Most of the world has maintained a First-To-File system from the outset, while the U.S. has traditionally resisted outside pressure to conform. It is imperative that inventors understand the various ramifications of this change and understand how they can take advantage of some caveats to the First-To-File system.

Biography

James Joyce is a patent attorney in the Madison office of Whyte Hirschboeck Dudek and is a member of the firm's Intellectual Property Law group. Mr. Joyce focuses his practice on patent law with technical expertise in the electrical, computer, software and mechanical fields. Prior to legal practice, Mr. Joyce worked for seven years as an engineering consultant. He has drafted patent applications for various electrical and mechanical devices, including wireless, mobile devices, as well as computer and software related applications; provided patentability, invalidity, and non-infringement opinions and analysis to clients from various industries; counseled clients regarding the application and protection of trademarks. He brings the following technical experience to his patent work:

- Programmable Logic Controllers (PLC) and ladder logic programming
- Building control systems
- Man to machine interfaces (MMI)
- Industrial controls, including Actuators, Sensors, Motors and Motor Drives
- Power distribution systems, including Switch Gear and Transformers
- Large scale computer and communication systems
- Backup power systems, including Stand-By Generators and Transfer Switches
- Fire alarm and notification systems
- Lighting control systems
- Security and PA systems
- Industrial Pumps, including centrifugal and Positive Displacement Pumps

Vol. 16, No. 4

Serving IEEE Members of South Central Wisconsin

April 2013

SECTION Meetings

The third Thursday of Jan – May and Sep – Dec. is reserved for a meeting to provide recent research, developments, trends and/or innovations in one of our membership's technical areas.

NETWORKING Meetings

The first Thursday of even numbered months is reserved for a meeting to provide networking opportunities for members who are consultants or entrepreneurs. Bring your elevator speech and rolodex!

Section Meeting Schedule for 2013

(schedule subject to change)



January 17, Reference Models for e-Logistics

February 15, Engineering Ethics

March 13, Electric Vehicle Recharging

March 29, Engineering Ethics

April 18, Madison Metropolitan Sewage District, Tour of Engineering Facility by MMSD Engineering

May 16, Student Engineering Project Reports by MATC Students (IEEE sponsored)

June 20, America Invents Act: First-to-File by James Joyce

August 15, TBD

September 19, TBD

October 17, TBD

November 21, TBD

December 19, TBD

Talks in the Works for the Fall:

- More on filter design from CoilCraft
- Distinguished Lecturer
- Multispectral Imaging-Equipped Aircraft

Networking Meeting Schedule for 2013

(schedule subject to change)

February 7

April 4

June 6

August 1

October 3

December 5

Ethics Seminar – March

Due to the overwhelming demand for the last two engineering ethics seminars, a third seminar was held in March.

Vol. 16, No. 4

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SELECTION OF OFFICERS

At the December monthly meeting, the IEEE Madison Section conducts its annual officer elections prior to the Presentation. **Vote by 12/19. Go to:** voting.vtools.ieee.org.

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Check out www.WIEES.com for electrical engineering jobs in Madison and the surrounding region. This site is maintained as a service for electrical engineers.

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IEEE Membership Level Upgrades

Those interested in upgrading their IEEE membership level should send their resumes or other information showing five years of significant performance in an IEEE-designated field to Charles J Gervasi (cj@cgervasi.com). Madison Section Board will attempt to find Senior IEEE members knowledgeable in the applicant's area of practice who may be able to provide references. You are invited to attend the informal networking portion of the monthly Section meetings (starting at 11:30am) to meet the Section Board members and discuss intentions.

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IEEE Madison Section Newsletter

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Our members have professional interests in computers, power engineering, signal processing, communications, industry applications and a number of other technical fields

For more information, contact Mitch Bradt at 608-263-1085 or bradt@wisc.edu.

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