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Vol. 16, No. 2 Serving IEEE Members of South Central Wisconsin February 2013

Engineering Ethics

Date: Friday, February 15, 2013

Time: 10:00am - 2:00pm
Speaker: Blake Wentz, CPC, LEED ®AP.
Milwaukee School of Engineering (MSOE)
Agenda: Informal networking will begin at 9:30am. Presentation will begin at 10:00am.

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

Lunch meal provided for those who have registered for the seminar. Menu:

RSVP: Feb-15 Registration Closed (Full) https://meetings.vtools.ieee.org/meeting_view/list_meeting/16139

Mar-29 Registration Open...go to https://meetings.vtools.ieee.org/meeting_view/list_meeting/16593 to register. Please send questions or difficulties to CJ Gervasi at cj@cgervasi.com





Abstract

Engineering ethics is the field of applied ethics and system of moral principles that apply to the practice of engineering. The field examines and sets the obligations by engineers to society, to their clients, and to the profession. As a scholarly discipline, it is closely related to subjects such as the philosophy of science, the philosophy of engineering, and the ethics of technology. This seminar will cover the following topics:

- 1. Introduction to Ethics
- 2. Ethics vs. Legal Concerns
- 3. Engineering Ethical Standards (NSPE Code of Ethics)
- 4. Examples of Ethical Situations
- 5. Role Play Scenario (situation presented and seminar members participate)
- 6. Ethics as it relates to business development strategies
- Conclusions/Recommendations.

This seminar meets the ethics training for PE license renewal. MSoE will provide certificates documenting completion of the class.

Biography

Mr. Wentz has a Bachelor's degree in Business and a Master's degree in Engineering from the University of Nebraska. He owned and operated his family's mechanical contracting business, Wentz Plumbing and Heating, in Lincoln, NE for five years before becoming a college professor. He has been a professor at the Milwaukee School of Engineering for 8 years and was named the Program Director of Construction
Management at the beginning of 2008. He is the faculty advisor for the Mechanical Contractors
Association of America (MCAA) Student Chapter, whose competition teams have qualified for the National
Finals five of the last seven years, winning the National Title in 2011. Mr. Wentz was named the Educator
of the Year for 2008 by Wisconsin Builder Magazine, was the Associated Schools of Construction (ASC) National Educator of the Year in 2010 and was named National Educator of the Year for the MCAA in 2011. He is also involved in consulting activities and has been an expert witness for construction legal disputes as well as being a keynote speaker for various organizations and is an instructor for the AGC of Wisconsin's Leadership and Business Management program, teaching the ethics component of that course. Mr. Wentz is a co-author of a textbook on Construction and Engineering Law that will be released in 2013 in which he authored the ethics chapter of the book.

IEEE Entrepreneurs & Consultants Network, Madison Networking Meeting

Thursday, February 7, 2013 Date: 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! Tim Chapman (PrettyGoodGUIs@TrueNym.NET), 608-206-2570

RSVP:



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Electric Vehicle Charging Technology

Wednesday, March 13, 2013 12:00pm - 1:00pm Date:

Time:

Speaker: Theodore Bohn, Principal Engineer,

Argonne National Laboraroty

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

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

Deadline: Mar. 13. Go to https://meetings.vtools.ieee.org/meeting_view/list_meeting/16591 to register. Please send questions or difficulties to CJ Gervasi at ci@cgervasi.com





As Plug-in Hybrid Electric Vehicle (PHEV) and full electric vehicles become more mainstream, the implementation of fast charging standards is becoming a critical issue. In this presentation, Ted will describe the technologies employed in AC level 1 and 2 as well as DC level 1 and 2 charging equipment. Further he will elucidate the potential of wireless charging technologies, the challenges they present and the state of standards development. Ted has been involved with the development of both conductive and inductive electric vehicle charging standards for 20+ years, since the SAE J-1772/1773 standards were first drafted.

Biography

Theodore Bohn is a principle investigator for Grid Connected Vehicle (Smart Grid/Advanced Charging) research in the Vehicle Systems Group with the Center for Transportation Research at Argonne National Laboratory. The main focus of this effort includes in-vehicle traction battery subsystem benchmarking and validation as well as power electronics and embedded systems control optimization of the electric powertrain in PHEVs. Bi-directional power converter controls in the context of SAE and IEEE standards developments.





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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.

Section Meeting Schedule for 2013 (schedule subject to change)



January 17, Reference Models for e-Logistics

February 15, Engineering Ethics by Blake Wentz, CPC, LEED ®AP

February 21, No Section Meeting

March 13, Electric Vehicle Recharging by Theodore Bohn

March 29, Engineering Ethics by Blake Wentz, CPC, LEED ®AP

April 18, TBD

May 16, TBD

August 15, TBD

September 19, TBD

October 17, TBD

November 21, TBD

December 19, TBD

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!

Networking Meeting Schedule for 2013

(schedule subject to change)

February 7 April 4 June 6 August 1 October 3 December 5

Ethics Seminar – February 15 (full)

Due to the overwhelming demand for the last ethics seminar, we are holding our second engineering ethics seminar! Registration was full before the month of February started. March 29 is now open!

No February Section Meeting

The Electric Vehicle Recharging talk has been rescheduled for March 13. The Distinguished Lecture is now being shifted to a different month this year...date TBD.

Ethics Seminar – March 29 (open)

Due to the overwhelming demand for the last ethics seminars, we are holding our third engineering ethics seminar! Registration is now open at: https://meetings.vtools.ieee.org/meeting_view/list_ meeting/16593





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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.

IEEE Madison Section Sponsors

We thank the following sponsors for their support of the IEEE Madison Section, and for the valuable opportunities and services they provide to the Section and to its membership:

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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 (ci@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.

2013 Section Board Members

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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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