

2008 SECTION OFFICERS

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Kevin Taylor	Section Treasurer
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Angela Sodan, Ph.D.	Women in Engineering Affinity Group
Virgil Nacuta	Employment Services Career Development
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Tarek Lahdihiri, Ph.D., P.E.	Section Support
Aisha Yousuf	Wavelengths Editor
Scott Lytle	Webmaster
M. Ahmadi	Chapter I Chair (Circuits, I.T., Sig. Pro.)
Bruce Emaus	Chapter II Chair (Vehicular Tech)
Robert Desoff	Chapter III Chair (Comm., Aerospace)
Tayfun Özdemir, Ph.D.	Chapter IV Chair (Trident)
Subra Ganesan, Ph.D.	Chapter V Chair (Computer)
Mahta Moghaddam Ph.D.	Chapter VI Chair (Geoscience)
Kevin Taylor	Chapter VII Chair (Power Eng., Indus.)
Scott Lytle	Chapter VIII Chair (EMC)
Kevin Taylor	Chapter IX Chair (Power & Indus. Ele.)
Mark Ciechanowski, P.E.	Chapter X Chair (Eng. Management)
Darrin Hanna, Ph.D.	Chapter XI Chair (Bioengineering)
Sam Barada, Ph.D.	Chapter XII Chair (Controls Systems)
Richard Johnston, Ph.D.	Chapter XIII Chair (Education)
Douglas Czinder	Chapter XIV Chair (Robotics)
Oleg Gusikhin	Chapter XV Chair (Syst., Man and Cyber.)
Aisha Yousuf	Chapter XVI Chair (Computational Intelligence)

Visit us online at <http://www.ieee-sem.org> or <http://www.sem-ieee.org>



Southeastern Michigan Section

Fall 2008 Section Conference and Dinner

November 14, 2008

Keynote Speaker

Paul Savage



CEO

Nextek Power Systems, Inc. (www.nextekpower.com)

Topic: How DC Power Networks Are Poised to Make a Thundering Comeback

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AWARD ACKNOWLEDGEMENT

Section Outstanding Professional



Nabil J. Sarhan, Ph.D.

Assistant Professor
Director - Media Research Lab
Department of Electrical and
Computer Engineering
Wayne State University

2008 Most Outstanding Student Branch Award

Wayne State University IEEE Student Branch

Branch Officers:

Chair - Alan Thomas
Vice Chair - Hasan Aatif
Treasurer - Mohammed Kazim Yakub
Secretary - Vladimir Dzhambazov

Chapter 7 (Industrial Engineering and Power Engineering) Outstanding Professional Award

Ramas Ramaswami, Ph.D.

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AGENDA

12:00pm	Registration Opens
12:30 – 6:30 pm	Exhibitor displays
12:00 – 12:30 pm	Lunch Sandwich
12:30 – 6:30 pm	Track 1 and Track 2 Presentations
15 Minutess Breaks	Networking and Vendor Tables
6:45pm – 7:15pm	Networking and Vendor Tables
7:15pm – 7:30pm	Announcements and Recognition (during Dinner)
7:15pm – 8:00pm	Dinner
7:30pm – 8:15pm	Keynote Address by Paul Savage Followed by Q & A

MENU



Lunch Sandwich Buffet

Delicatessen Cheese and Meats

Salad

Fruit

Dinner Buffet Menu

Fish and Chicken

Vegetarian Choice: Vegetable Lasagna

Winter Blend Vegetables

Roasted Red Skin Potatoes

Tossed Salad

Apple/Cherry Pies

Serve Coffee/Tea

WELCOME REMARKS

On behalf of the officers and volunteers of IEEE Southeastern Michigan Section, I welcome you to our Fall Section Conference at Fairlane Center, University of Michigan Dearborn.

You will find this conference a rewarding experience, thanks to the Section Conference Planning Committee. I want to acknowledge all of their efforts as well as the volunteers helping tonight.

Mohamad Berri
 Mark Ciechanowski
 Scott Lytle
 Randy Stevenson
 Kevin Taylor

Don Bramlett
 Liang Downey
 Adel Marzougui
 Lora Schulwitz
 And Others

Thank you also to the Chapter Chairs and officers that arrange for the Chapter speakers. However, this listing does not convey the extended effort and commitment supplied by each member of this committee in order to insure the success of this event. So, please, whenever you notice one of these excellent individuals let them know what you think of his/her contribution. Our Chapter speakers also deserve special thanks for spending their personal time to prepare their presentations and drive extra miles to be with us tonight.

This year we hope to raise awareness of the diverse regional activity in Green Technology in the Great Lakes region. We will explore the research efforts, the opportunities for realizations, present examples of implementations, and discuss the business opportunities these new realizations will bring to, not only Southeast Michigan, but to the Great Lakes region as a whole.

We extend a warm 'Welcome' to our University Showcase Table sponsors and Vendor Table sponsors. We extend a special thanks to the staff of Fairlane Center of University of Michigan - Dearborn for hosting this conference.

I am looking forward to seeing you again at the Spring Section Conference, **April 23, 2009!**

David Laurent
 Conference Chair
 Section Vice Chair

TABLE SPONSORS



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SPONSORS

One of the issues we face at a Section Conference is how to finance the event without driving the Section budget into the red. The current sponsorship structure includes: University Showcase Table, Company Vendor Table, Student Table Sponsorship, and Patron Sponsorship. If your university or company would be interested in such sponsorships, please contact our Director of Professional Activities, Dr. Adel Marzougui at 734-953-9000, x238.

SPONSORS: EVENT SPONSORS



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KEYNOTE SPEAKER

Paul Savage

CEO Nextek Power Systems, Inc.



Biography:

Nextek Power Systems, Inc. develops innovative technology based on DC standard that best promote renewable energy development. Nextek is supported by Next Energy which is part of Michigan Gov.

Paul Savage, CEO, was an outside Director prior to joining Nextek December 2002. A graduate from Haverford College, his background includes Bond Trading at CS First Boston and risk management at Lehman Brothers before joining start-up operations of Caterpillar's dealership in Vietnam, V-TRAC. Based in Hanoi, Paul filled 2 roles as the Director of Customer Finance and Marketing. He grew this green-field start-up to 87 employees, 5 offices and \$22 million in sales in 2 years. This business was primarily back-up power systems from 20 kW to 2 MW. He is a Founding Member of the Emerge Alliance Corporation, a consortium aimed at promoting direct current (DC) power standards for buildings.

Paul is a member of the Board of Directors of Winrock International, a nonprofit organization that works with people in the United States and around the world to empower the disadvantaged, increase economic opportunity, and sustain natural resources. He is also a member of the Clinton Global Initiative; the largest individual investor in Nextek; and the organizer and coach for the team which operates the Company today.

KEYNOTE ADDRESS

“How DC Power Networks Are Poised to Make a Thundering Comeback”

Paul will recount the founding of Nextek, and the company's route to where it finds itself today: choosing between Fortune 500 partners to deliver its Direct Coupling® technology to market. Beginning with electronically ballasted lighting, this platform has consistently delivered higher efficiency to buildings linked to renewable energy sources, operating computer gear, HVAC systems, workstations and more. An added bonus of interest: all electrochemical storage devices benefit as well, batteries being the most cost effective solution and natively DC. Come and hear for yourself how DC is it.

SPRING 2009 CONFERENCE ANNOUNCEMENT



Southeastern Michigan Section

Spring 2009 Section Conference and Dinner

Thursday, April 23, 2009
Location: Fairlane Center,
University of Michigan-Dearborn,
19000 Hubbard Drive,
Dearborn, MI 48128

Early Registration: March 15, 2009

UPCOMING LOCAL IEEE CONFERENCES

- **2008 Wireless Access in Vehicular Environments (WAVE) Conference**
December 8-9, 2008 - University of Michigan - Dearborn
www.ieee-sem.org/2008_Conferences/WAVE_2008_02.pdf
- **IEEE SEM Spring Conference**
Thursday, April 23, 2009 Location: Fairlane Center, University of Michigan-Dearborn,
- **2009 IEEE Vehicle Power and Propulsion Conference**
September 7-11, 2009, Ritz-Carlton Dearborn and Fairlane Center University of Michigan – Dearborn
www.vppc09.org

100 YEAR ANNIVERSARY EXTRAVAGANZA EVENT



The 100th anniversary of our Section is coming up in a few years. We are already well underway planning a celebration event for January 28, 2011. The Section was founded as the Michigan section of AIEE (American Institute of Electrical Engineers) in 1911.

Several other Sections in our Region have celebrated their 100th anniversary recently, including the Chicago Section, Fort Wayne Section, and Toledo Section. Those celebration events included a major keynote speaker and a dinner. We plan to hold a similarly large extravaganza. We will invite leaders such as the IEEE President and Past Presidents, the IEEE-USA President and Past Presidents, numerous IEEE Society Presidents and Past Presidents, current and past Society Board Members, and leaders from industry, government, and academia, etc, and of course all of us, the Section IEEE members. Stay tuned for more information. You will find updates on the IEEE SEM online community at www.ieee-sem.org. If you are interested in getting involved in the planning committee for the Anniversary Event, please contact me at : [mark.ciechanowski at www.ieee-sem.org](mailto:mark.ciechanowski@ieee-sem.org).

Technical Track Two Room 116 : 12:30 – 7:15	
12:30	Roland Kibler - <i>Manager, Technology Development</i>
	“Alternate Energy Opportunities in Michigan” <i>NEXTENERGY</i>
1:30	Lisa M. Kurek - <i>Managing Partner</i>
	“Federal Funding For Small Business Technology Development: An Overview of the SBIR/STTR Program” <i>Biotechnology Business Consultants</i>
2:30	Jayanthi Iyengar <i>Senior Manager of Hybrid System</i>
	“Commercialization of Hybrid Electric Vehicles” <i>Chrysler Corporation</i>
3:30	Robert Frendewey
	“Green Technology, EE’s and the job market for the next decade” <i>UTG Inc</i>
4:30	Scott McCormick - <i>President</i>
	“A Technologists Most Difficult Challenge - Educating Decision and Policy Makers” <i>Connected Vehicle Trade Association</i>
5:30	Dr. Jeff Yang - <i>VP for R & D</i>
	“Let’s Plug into the Sun!” <i>United Solar Ovonic LLC</i>
6:30	Prof. Dean M Aslam, Ph.D. and Students
	“Poster Session on Energy Scavenging” <i>Michigan State University</i>

Technical Track One Room 117 : 12:30 – 7:15	
12:30	John Wolar - <i>CEO</i>
	“Integrating Wind Turbine Generation into Utility Grids” <i>Alternate Energy Solutions, Inc</i>
1:30	James Piñón - <i>President / CEO</i>
	“Energy storage technologies and market trends today” <i>Hybrid Design Services, Inc.</i>
2:30	Prof. Amir Mortazawi - <i>Professor of Electrical Engineering,</i>
	“Wireless Power Transmission for Space Solar Power Generation” <i>University of Michigan, Ann Arbor</i>
3:30	Dr. Robert W. Fletcher – <i>Director Alternative Energy Program</i>
	“Alternate Energy Technology” <i>LTU Alternative Energy Engineering Program</i>
4:30	Dr Fazal Syed - <i>Hybrid Vehicle Engineer Development</i>
	“Application of Fuzzy Control methods for Improving Attributes in the Ford Escape Hybrid Electric Vehicle” <i>Ford Motor Corp</i>
5:30	Dean Wisniewski, PE, SMIEEE , Steve Hechtman, Jeff Rogers
	Brain Sport: Michigan Solar Car “Raycing” and the Automotive Industry <i>University of Michigan, Ann Arbor</i>
6:30	

