



# ION Saint Louis



SPRING 2010

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## New Section Officers:

*Chair:* Dr. Keith Corzine  
Email: Keith@Corzine.net  
University of Missouri—Rolla

*Vice-Chair:* Bob Becnel  
Email: bob@becne.com  
Boeing

*Treasurer:* Jessica du Maine  
Email: jdumaine@stlcc.edu  
St. Louis Community College

*Secretary:* David Gitz  
Email: david.gitz@ieee.org  
Air Force Network Integration Center

## Section Meeting Information

- April 30: Engineers Club
- September 30: SIU-Carbondale
- October 29: St Louis University
- November 19: Engineers Club, St Louis



## Student Branch Events

**Washington University—Chair: Jeffrey Feiereisen, [jf12@wustl.edu](mailto:jf12@wustl.edu)**

- *Panel Discussion on Sustainable Energy*

Speakers from:

Ameren  
Washington University  
Power Engineering Society  
Distinguished Lecturer

Panel Discussion: 6pm

Catered Dinner: 8pm

Thursday, April 29, 2010

Washington University Whitaker Hall

For more information, visit

<http://ieee.wustl.edu/?q=events>



## Society Events

**Industrial Applications Society—Chair: Keith Corzine, keith@corzine.net**

- Presentation:

*Current Trends and Convergent Technologies for Electric/  
Hybrid Vehicles and More Electric Aircraft Systems*

Abstract:

The aerospace industry is facing challenges similar to those of the automotive industry in terms of improving emissions, fuel economy, and cost. Another similarity is the move toward replacing mechanical and pneumatic systems with electrical systems, thus transitioning towards “more electric” architectures. This presentation gives a brief introduction to electric, hybrid, plug-in hybrid vehicles, and more electric aircraft. Different types of hybrid vehicle architectures and more electric aircraft architectures will be discussed. The convergence of technologies of electric/hybrid vehicles and more electric aircraft systems will also be discussed. The current trends and the status of research will be assessed. The targets to achieve the goals and the future strategies will also be reviewed.

Thursday, May 6, 2010

Room G-31, Emerson Electric Co. Hall, Missouri S&T Campus

Lecture at 2:15 pm

Reception immediately afterwards



## Section Events

- *Section Planning Meeting and Dinner with Presentation:*

Plug-in Vehicles: The Need for Advanced Computational Methods and Intelligence by Dr. Ganesh Kumar Venayagamoorthy of MS&T (Rolla)

April 30, 2010, 5:30pm–8pm  
Engineers Club of St. Louis  
4359 Lindell Blvd  
St. Louis, MO

Please RSVP before April 30th to:  
[kurt.krispin@engineersclub.net](mailto:kurt.krispin@engineersclub.net)

## Local Events

- *Electronics, Electrical, Engineering and Manufacturing Show (3E&M)*

April 7, 2010, 9am–5pm  
St. Charles Convention Center  
St. Charles, Missouri  
Free Lunch, Admission and Parking

- *Affiliate Society Open House*

April 26, 2010 5:30 pm–6:45 pm  
Engineers Club of St. Louis  
4359 Lindell Boulevard  
St. Louis, Missouri

RSVP: [kurt.krispin@engineersclub.net](mailto:kurt.krispin@engineersclub.net)

Electronics,  
Engineering,  
Electrical  
& Manufacturing  
Show  
2010



## IEEE Information

- *Reporting Procedures:*

vTools is the new preferred source for all meeting reports and meeting calendars. Other tools are currently being tested as well.

vTools Registration:

<http://meetings.vtools.ieee.org/main>

- *IEEE JobSite*

IEEE JobSite is hosting a free Virtual Career Fair from February 22nd thru March 15.

For more information, see:

<http://careers.ieee.org/vcf/careerfair.php>

- *IEEE Xplore Digital Library Upgrade*

The IEEE Xplore Digital Library has recently been significantly upgraded. Featuring a new interface, enhanced search and alerting tools, this makes exploring IEEE's easier, faster, and more productive. For more information, see:

<http://www.ieee.org/web/publications/subscriptions/newieeexplore/index.html>



## Section Statistics

### Student Branch Statistics

School	Active	Inactive
John A Logan College - Student	5	0
Missouri Univ of S & T - Grad	57	19
Missouri Univ of S & T - Student	33	14
Missouri Univ Of-Columbia - Grad	32	14
Missouri Univ Of-Columbia - Student	45	8
Parks College Of St Louis Univ	5	0
Saint Louis Univ - Grad	3	7
Saint Louis Univ - Student	2	7
Southern Illinois Univ-Carbondale - Grad	17	4
Southern Illinois Univ-Carbondale - Student	21	10
Southern Illinois University-Edwardsville - Grad	10	5
Southern Illinois University-Edwardsville - Student	19	10
St. Louis Comm College - Student	1	2
Washington Univ - Grad	3	14
Washington Univ - Student	12	2

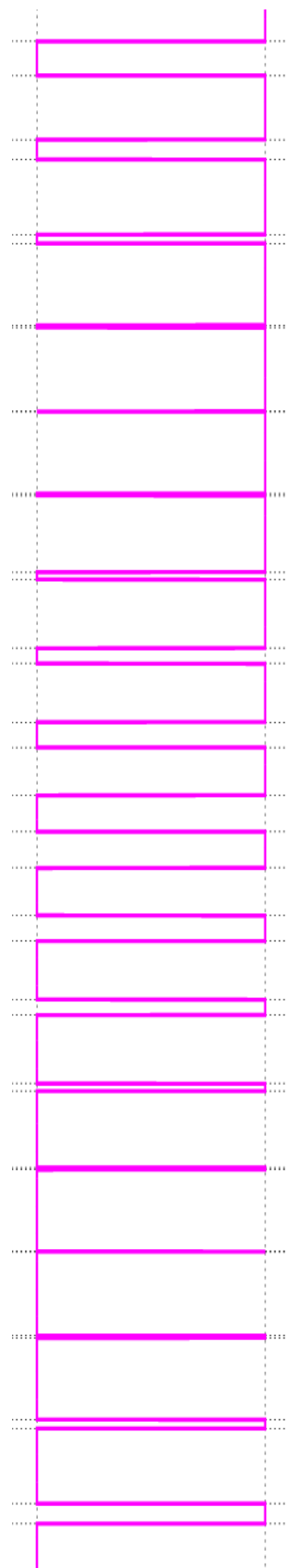
### Society Statistics

Society	Active Members	Inactive Members
IEEE Aerospace and Electronic Systems Society Membership	140	30
IEEE Antennas and Propagation Society Membership	70	11
IEEE Broadcast Technology Society Membership	25	3
IEEE Circuits and Systems Society Membership	137	26
IEEE Communications Society Membership	388	93
IEEE Components, Packaging, and Manufacturing Technology Society Membership	25	10
IEEE Computational Intelligence Society Membership	75	25
IEEE Computer Society Membership	627	338
IEEE Consumer Electronics Society Membership	71	6
IEEE Control Systems Society Membership	146	38
IEEE Dielectrics and Electrical Insulation Society Membership	38	8
IEEE Education Society Membership	57	11
IEEE Electromagnetic Compatibility Society Membership	49	11
IEEE Electron Devices Society Membership	64	9
IEEE Engineering in Medicine and Biology Society Membership	144	25

# Section Statistics

## Society Statistics

Society	Active Members	Inactive Members
IEEE Geoscience and Remote Sensing Society Membership	33	10
IEEE Industrial Electronics Society Membership	90	13
IEEE Industry Applications Society Membership	176	35
IEEE Information Theory Society Membership	64	11
IEEE Instrumentation and Measurement Society Membership	77	19
IEEE Intelligent Transportation Systems Society Membership	3	0
IEEE Magnetics Society Membership	37	10
IEEE Microwave Theory and Techniques Society Membership	67	11
IEEE Nuclear and Plasma Sciences Society Membership	48	7
IEEE Oceanic Engineering Society Membership	21	2
IEEE Photonics Society Membership (formerly IEEE LEOS)	57	8
IEEE Power & Energy Society Membership	377	54
IEEE Power Electronics Society Membership	66	14
IEEE Product Safety Engineering Society Membership	7	0
IEEE Professional Communication Society Membership	22	3
IEEE Reliability Society Membership	24	4
IEEE Robotics and Automation Society Membership	92	24
IEEE Signal Processing Society Membership	157	18
IEEE Society on Social Implications of Technology Membership	45	5
IEEE Solid-State Circuits Society Membership	24	9
IEEE Systems, Man, and Cybernetics Society Membership	73	6
IEEE Technology Management Package (EM014)	90	21
IEEE Ultrasonics, Ferroelectrics, and Frequency Control Society Membership	29	2
IEEE Vehicular Technology Society Membership	43	6
IEEE Women in Engineering (Requires IEEE Membership)	35	32



## Advertisements

# CANNONDESIGN

Position: Electrical Engineer/Team Leader

Cannon Design, a leading international design firm offers challenging and rewarding career opportunities for an experienced Electrical Engineer in a dynamic, team-focused work environment in our St. Louis office. If you are a self motivated, goal driven engineer interested in the exciting growth fields of health care, education, data centers, and sports facility design, then we would like to talk with you.

A proactive, collaborative approach to relationships with project teams, owners, and contractors is necessary. Strong technical and communication skills in power, lighting, and integrated technology systems required. Background in facilitating and multi-tasking these projects types from concept design through construction is essential. Capable of serving as the lead electrical engineer on large projects. Significant project experience in highly technical healthcare, and/or research labs required. Minimum 7+ years of relevant experience required. Opportunities in all phases of design from concept through construction with a focus on client and team interaction and project management, power, datacomm systems or lighting design. Proficiency with BIM applications preferred, REVIT experience strongly desired. BAE or BSEE required. PE registration & LEED Accreditation a plus. Bring your strong communication, analytical, and organization skills and become a part of our integrated design process at Cannon Design. Send your cover letter and resume to [EESTL0310.cannon@hiredesk.net](mailto:EESTL0310.cannon@hiredesk.net).



## Special Announcements

- *Funding Requests*

Please submit any funding requests for your organization to [sec.stlouis@ieee.org](mailto:sec.stlouis@ieee.org)  
The funding request should include the items that are being requested, along with the purpose and justification of the activity and how it relates to IEEE and to the St. Louis Section

- *IEEE Sections Congress 2011 Survey*

FOR: Council, Section, Subsection, Chapter, and Affinity Group Officers

IEEE Sections Congress will be conducted 19-22 August 2011, in San Francisco, California, USA. The theme is "Empowering Members to Create the Future." The Sections Congress 2011 (SC2011) Program Committee has begun the process to develop the program content - the ideas and issues that are most important to IEEE Sections. With this as our goal, the SC2011 Program Committee is requesting that you complete the online questionnaire as soon as possible, thereby having a direct influence on the course taken by SC2011.

Complete the Survey at this Link: <http://ieee.fluidsurveys.com/s/SC2011/>  
Please complete by April 19, 2010

- *Section Website*

The Section Website, located at <http://ewh.ieee.org/r5/stlouis/> is continually updated with meeting minutes and other information. Check back often!



## Section Branch/Society Officers

### Student Branch's

*Mizzou (University of Missouri – Columbia)*

Counselor:

Dr. Scott Kovaleski, kovaleskis@missouri.edu

Chair: Daniel Nabelek, dpn6f4@mail.mizzou.edu

*Missouri S&T (University of Missouri – Rolla)*

Counselor: Dr. Jag Sarangapani

President: Fred Reineke

*Washington University*

Counselor: Dr. Paul Min, psm@wustl.edu

Chair: Jeffrey Feiereisen, jf12@wustl.edu

*St. Louis University – Parks College*

gharabr@slu.edu

*Southern Illinois University – Edwardsville*

gengel@siue.edu

*Southern Illinois University – Carbondale*

Dr. Fran Harackiewicz, fran@enr.siu.edu

Chair: Anil Mehta, anil@siu.edu

*St. Louis Community College – Florissant Valley*

Jessica Dumaine, jdumaine@stlcc.edu

### Societies

*Aerospace and Electronic Systems Society (AESS)*

Bob Menzel, Robert.k.menzel@boeing.com

*Communications Society (COMSOC)*

Ken Owens, ken.owens@ieee.org

*Computational Intelligence Society (CIS)*

Ganesh K. Venayagamoorthy,  
ganeshv@mst.edu

*Computer Society (CS)*

Jessica Dumaine, jdumaine@stlcc.edu

*Education Society (ES)*

Fran Harackiewicz, fran@enr.siu.edu

*Engineering in Medicine and Biology Society (EMBS)*

David Barnett barnettd@slu.edu

*Industry Applications Society (IAS)*

Ganesh K. Venayagamoorthy,  
ganeshv@mst.edu

*Power & Engineering Society (PES)*

Chair - Leon White Leon.white@ge.com

*Graduates of the Last Decade (GOLD)*

Anil Mehta, anil@siu.edu

*Women in Engineering (WIE)*

Jackie Stroble, j.k.stroble@ieee.org

*Rolla Subsection*

waleed@mst.edu