



Corona



Cedar Rapids Section - Institute of Electrical and Electronic Engineer
Serving Engineering Professionals in Eastern Iowa

January 2015

Section Chair's Message



Wish you all a wonderful New Year. Many thanks to Gary Bishop, who has served our section for several years including an inspiring year of leadership as the Section Chair (2014). As a member of IEEE for 23 years, I am most impressed with its policies and programs which are so well tuned towards universal betterment. IEEE is a global umbrella under which professionals from all walks of life come together to constitute a noble mission of innovation and excellence for the benefit of humanity. It's very many societies, chapters, committees, standards bodies, local sections, and affinity groups offer an excellent ground for an inspiring sea of diverse professionals to volunteer towards a common mission. Today's IEEE is energized by Academicians, Scientists, Innovators, Executives, Lawyers, Managers, Physicians, Engineers, Entrepreneurs, Students, Artists, Professionals and other talented people of all ages. In the Sections Congress 2014, a young artist with a reservoir of amazing ideas turned out to deliver a scintillating keynote address! It is not uncommon to see young elementary school children attend our section programs and feel comfortable to voice their curiosity! Diversity breeds new thoughts and ideas generate innovations. **There is room for all in IEEE.**

I am particularly proud to be a member of the very enthusiastic Cedar Rapids section and the Region 4 (R4) of the IEEE. There is an abundance of encouragement and guidance from the leadership; only such sustained support and team work has enabled me to serve IEEE in very many capacities. I thank R4 and the Cedar Rapids Section members for their support. As an entrepreneur with academic, industrial and management experience, I feel that it has been a humbling and fulfilling experience to be an active member of IEEE.

As the Section Chair for 2015, I greet our new and existing members besides those who are potentially considering IEEE. The Cedar Rapids section of IEEE is an award winning vibrant entity. We offer year round programs and welcome guests. Our chapters and affinity groups are very active. We are working towards creating a local chapter of the Engineering in Medicine and Biology Society (EMBS). There are many initiatives. Only a nozzle flow of new members, ideas and leadership can propel this innovation engine. Please let me know if you would like to be part of it.

Finally, I request every member to bring a new member to the section. IEEE USA and IEEE have launched attractive member-get-a-member programs as explained in the following links.

<http://ieee.fluidsurveys.com/s/ieee-usa/>

http://www.ieee.org/membership_services/membership/join/mgm.html

Drops of water make an ocean. Membership development is the mantra.

Raman Aravamudhan

Section Chairman
Cedar Rapids Section, IEEE

Cedar Rapids Section 2015 Officers

Chair

Raman Aravamudhan

Vice-Chair

Ashley Hochstedler

Secretary

Alex Truman

Treasurer

Robert Dawson

Corona is published monthly and is an official newsletter of the IEEE Cedar Rapids Section. Newsletter website:

<http://www.ieee-cr-section.org/category/corona/>

Newsletter is produced by Elizabeth Kleiman.

To submit your announcement to Corona, email:

Elizabeth.Kleiman.US@ieee.org

Submissions for next edition are due February 1st.

Meet 2015 Officers

Raman Aravamudhan

Raman Aravamudhan is a proud Member of the IEEE for about 23 years and Senior Member since 2002. He has served the Cedar Rapids Section, as the Chair of the Programs committee during 2003-2007 and as Chair of the Consultants' Network during 2011-2012. He is the section Vice Chair for 2014 and is serving as a member of the IEEE_USA R&D Policy committee. Raman, a certified PMP, has about 28 years of experience in IT software industry; He leads the software development consulting services at Ramaanchar Technologies, Inc. (<http://www.ramaanchar.com>) located at the University of Iowa Research Park and is an Adjunct Faculty member at the University of Iowa Computer Science department since 2003. Raman is an avid volunteer serving many diverse groups and committees.



Ashley Hochstedler

Ashley is currently employed by International Transmission Company Midwest and has a Bachelor of Science degree in Electric Engineering from the University of Iowa. Her current job title is Engineer within the Substation Equipment and Maintenance Group. Ashley is currently pursuing her PE License. Ashley is an Executive Committee officer of the IEEE Cedar Rapids Section and is a member of the Insulating Fluids Committee for Doble Engineering. As of this year, Ashley is also volunteering for IEEE at the regional level as the Region 4 Small West Sections Support Chair.



Alex Truman

Alex is currently employed by International Transmission Company Holdings and has a Bachelor of Science degree in Electrical Engineering from Iowa State University. His current job title is Associate Engineer within the Relay Design Group. Alex is pursuing his FE License. Alex is an Executive Committee officer of the IEEE Cedar Rapids Section.



Robert Dawson

Student member (1958), Member (1960), Senior Member (1998), Life Senior Member (2002). PACE Chairman for the Cedar Rapids Section of IEEE since 1987. Also served as Section Treasurer (1989-1992, 2003-2008), Section Vice Chairman (1992-1993), Section Chairman (1993-1994), Section Financial Advisor (2009), Section Treasurer (2010-2015), Region 4 PACE Coordinator (1997-2000), Region 4 West Area Chairman (2001-2002), Region 4 Treasurer (2003-2004), Region 4 Director-Elect (2005-2006), Region 4 Director (2007-2008), Region 4 Life Member Coordinator (2009-2015), RAB liaison to IEEE Conferences Committee (2005-2006), IEEE BOD representative IEEE Life Members Committee (2007-2008), IEEE WISE Committee member (2007-2008), IEEE-USA liaison to the IEEE Conferences Committee (2009), Chair of the IEEE-USA PACE Committee (2010-2011), Member IEEE Life Member Committee (2011), Member IEEE CLE committee (2013-2014).



Member of Phi Beta Kappa, Eta Kappa Nu, and Tau Beta Pi. Retired in 2006 from Rockwell Collins, Inc. in Cedar Rapids, Iowa as a Senior Electrical Engineer specializing in Manufacturing Test operations.

Upcoming Events

Microfabrication Facility Tour	January 22, 2015
Excom Meeting	January 29, 2015
Senior Membership Upgrade	February 7, 2015
ProCon 2015	May 19, 2015

Our next Excom in on January 29. All are welcome. Please Contact Raman Aravamudhan to attend or visit <http://www.ieee-cr-section.org/> for more details.

The Cedar Rapids Section of the IEEE is actively seeking volunteers! If you're interested in volunteering in any capacity please contact one of the 2015 officers.

The Cedar Rapids Section is now on LinkedIn! Click to joint.



2015 Societies & Committees

IEEE Cedar Rapids Section offers Society Chapters in many areas. In next newsletter we will introduce each of the Chapters and its directors in details.

- Communication Society Chapter
- Computer Society Chapter
- Eastern Iowa Consultants Network
- Electromagnetic Compatibility Society Chapter
- K-12 STEM Literacy Committee
- MTT Society Chapter
- Power & Energy Society Chapter
- Women In Engineering Society
- Young Professionals
- University of Iowa Student Branch
- University of Northern Iowa Student Branch



Nanofabrication is the meeting ground of engineering, biology, physics, medicine and chemistry. Most of these disciplines converge at the nanoscale towards the same building blocks, principles, tools of investigation and fabrication.

The University of Iowa Microfabrication Facility (UIMF) is an open-research facility serving the academic, industrial and governmental researchers across campus and beyond. Hands-on demos in the UIMF labs, including tours of the Molecular Beam Epitaxy (MBE) and Laser Labs. Visitors will wear cleanroom suits to visit the UIMF and MBE labs. Hands-on demonstrations on various tools, including, Thin-film deposition, Reactive Ion Etching, Lithography and Nanoimprint.

Speaker: Aju Jugessur received a Ph.D. degree in Optoelectronics, Electronic engineering, with a focus on Nanofabrication, from the University of Glasgow, Scotland, United Kingdom, followed by a postdoctoral fellowship at McGill University, Canada. He is currently the Director of the University of Iowa Microfabrication Facility and Adjunct Professor in the Department of Physics and Astronomy.



CR Chapter officers have recently recognized that there is a significant Engineering in Medicine and Biology (EMBS) membership presence in the area. With the assistance of EMBS member Kenny Aron, a solicitation for section formation has been circulated and is in progress. At this time, more positive responses are needed. The plan is to base the chapter meetings in Iowa City, with two technical and two social meetings per year. For more information, feel free to contact Kenny at k.aron@ieee.org.

Microwave Theory and Techniques Chapter

**The University of Iowa Microfabrication Facility
Converging Science and Technology at the Nanoscale**

Thursday, January 22nd, 2015

OPTICAL SCIENCE AND TECHNOLOGY CENTER
(Includes tours of MBE Lab and Laser Lab)



Where:

Lecture: Indiana Room, Iowa Memorial Union (IMU), 125 North Madison St, Iowa City, Iowa 52242

Demos: Iowa Advance Technology Labs (IATL) 174, 205, North Madison St

When:

6:00pm, Presentation: Indiana Room, IMU

6:40pm Social/Networking/Food/coffee: IATL Lobby

7:00-8:30 pm Hands-on Demo and lab tours: ~30mins (each tour) IATL 174

Registration:

Please register at <http://www.ieee-cr-section.org/>

Price:

No charge for the presentation and the tour. Guests are welcome!