IEEE Hungary Section

IEEE HS Newsletter

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2014 fall

List of content

R8 meeting in Amsterdam

From 21 to 22 August 2014 in Amsterdam was held the Region8 meeting. It was followed by the Section Congress (22-24 August, 2014).

We had speeches from the Director, Past Director, leaders of Member Activities, Student Activities, Technical Activities, Secretary.

The Subcommittees had meetings:

- Awards & Recognition Subcommittee (A&RSC)
- Chapter Coordination Subcommittee (ChCSC)
- Conference Coordination Subcommittee (CoCSC)
- Educational Activities Subcommittee (EASC)
- Electronic Communications Coordinator (ECC)
- History Activities Coordinator
- Industry Relations Subcommittee (IRSC)
- Life Member Coordinator
- Membership Development Subcommittee (MDSC)
- Nominations and Appointment Subcommittee (N&ASC)
- Professional Activities Subcommittee (PASC)
- Region 8 News
- Sections Congress Coordinator
- Strategic Planning Subcommittee
- Voluntary Contribution Fund Coordinator
- Women in Engineering Coordinator
- Young Professionals Subcommittee.

The director candidates of the new period introduced herself and had a small election-debates. Meanwhile the IEEE R8 membership elected one of her: Margaretha A.K. Eriksson.

Section Congress in Amsterdam

Every three years IEEE hosts a worldwide meeting of the sections in all ten regions. Sections Congress 2014 was the first such to be held outside of North America. Section and Region leaders from all over Region 5 traveled to Amsterdam in August to attend this well organized event.
There was possibility to meet face-to-face at the booths with the IEEE organization-support groups as

- IEEE Conference Business Services
- IEEE Access
- IEEE eXpress Conference Publishing
- IEEE eBook Classics
- IEEE Intellectual Property Rights Office
- IEEE Foundation, etc.

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To the Section Congres 34 recommendations were submitted by the ten IEEE Regions. SC2014 attendees are encouraged to discuss the recommendations using the SC2014 Facebook page. The recommendations aim to improve the IEEE performance (see the next list) The Primary Section Delegates voted and the final top five recommendations are bolded in the next list. These points are considered being the most important by the delegates.

RECOMMENDATIONS

1. **Develop an incentive and recognition program for companies that invest in full or partial support of their employees' IEEE membership dues.**
2. **Provide a tool to build, promote, record, host and broadcast technical events at the local level and make them available to IEEE members.**
3. **Introduce loyalty rewards such as publication access, conference fees, standards for continued membership.**
4. Establish additional incentives for members to seek elevation to senior membership.
5. Establish and/or strengthen relationships at national or international level with non-IEEE organizations of interest to IEEE members. Build the framework for sections to connect and cooperate with these organizations at the local level.

IEEE SECTIONS CONGRESS 2014

6. Establish a global student and Young Professionals (YP) exchange program through global agreements between IEEE, industry and government.
7. Develop a collaborative platform (one stop shop) for professionals and for the IEEE organizational units.
8. Establish an IEEE Hot Line to provide immediate support for engineers seeking information, advice or help regarding ethics related issues.
9. **Include free access to IEEE Digital Library as a member benefit. Promote other IEEE services and products based on their usage and preferences (adopt Google Business Model).**
10. Include free access to periodic free articles or e-tutorials as a member benefit by awarding credits with dues.
11. Offer members an adaptive bundle program to obtain small number of select articles at reasonable prices from IEEE Xplore Digital Library.
12. Transform the senior member and Fellow elevation processes to automatically generate nominations by IEEE based on member career growth, publications and patents.
13. Improve membership recruitment at events through an "off-line" join application when there is no internet connectivity.
14. Develop a series of Massive Open Online Courses (MOOCs) at introductory level on engineering and technology disciplines including a discussion on value of membership in a professional society for high school seniors, freshman college students, and public in general.
15. Develop an opt-in calendar listing for Section events that will work with popular calendars, such as Google, Outlook, Yahoo, iCal, etc.
16. Produce and maintain a catalog of humanitarian efforts throughout IEEE for use by members and the global community.
17. Provide members with ability to view meetings and activities outside their local geographic area (section).

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18. Develop consistent global engineering and technology outreach (to pre-college students) tools that can be easily implemented within sections.
19. Integrate IEEE information into social media feeds for easier access.
20. Create daylong programs on technical topics at an overview level suitable for those external to the discipline.
21. Connect student members and Young Professionals with Life Members to leverage their talent and experience.
22. Provide free memberships to graduate and undergraduate students who are active in their local sections for their first two years in the work force.
23. **Enhance vTools for better usability by volunteers and provide a training program to the Sections.**
24. Create career fairs and other activities to help members find employment.
25. Create an entrepreneurs network and other programs to help IEEE members create and run successful start-ups and to fund opportunities in start-ups.
26. Membership and Geographic Activities should work to extend the open access option for journal publications to conferences and workshops.
27. Promote closer ties and collaboration between IEEE and industry through events such as tradeshows and on-site training.
28. Foster IEEE member development by offering reduced dues to some societies and affinity groups such as Social Implications of Technology, Education and Professional Communications and Women in Engineering.
29. Update and optimize mobile applications for tools and services from IEEE not only for members but also volunteer resources.
30. Create a corporate membership program oriented for the Small Office Home Office (SOHO).
31. Make it mandatory for Technical Societies to consult local Section before holding a conference in that area to leverage local volunteer resources and provide the opportunity for financial partnership.
32. Recognize a member's contribution to IEEE activities such as conference registrations and contributions as reviewers through letters that can be useful in professional career development.
33. Enhance volunteer experience by providing more resources and references such as web applications, templates, etc. for hosting conferences and events.
34. Provide a gateway to more easily use the distinguished lectures at the section level.

Appreciation for R8 meeting organisation

Peter KadarIEEE HS chair received a plaquette from R8 director Martin Bastiaans for the outstanding support of HS in the preparation and service of the R8 meeting in Budapest.

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Election for period 2015-2016

IEEE Hungary Section general meeting hold an election for the period of 2015-2016.

The newly elected persons are:
Chair: Peter Kádár
Vice chair: Levente Kovács
Vice chair: Peter Nagy
Secretary: Gábor Szederkényi
Treasurer: Anikó Szakál


Chair Péter Kádár

Péter Kádár received Power Eng. Diploma at Technical University of Budapest 1987; PhD 1994; MBA at Open University, UK; dr. habil title in electrical engineering from Széchenyi Egyetem, Győr (SZE). He works in the area of the Power System control, smart networks and renewable energy technology. He is the leader of the Department of Power Systems, at Óbuda University, Faculty of Electrical engineering. Member of MEE since 1985, NJSZT sinc e 1990, of IEEE since 1992 and CIGRÉ. Member of organising committees of several conferences. Treasurer of IEEE HS in 2003 - 2004, Secretary of HS 2005 - 2008, vice chair of HS 2009 - 2012, chair of HS 2013 - 2014.


Vice Chair Levente Kovács

Dr. Levente Kovács received a degree in electrical engineering at the "Politechnica" University of Timisoara, Romania in 2000 and the PhD in 2008 at the Budapest University of Technology and Economics where currently he is a senior lecturer at the Dept. of Control Engineering and Information Technology. His research topic is physiological cont rol, robust control theory, biomedical engineering and bioinformatics, with special interest in diabetic control. He has published more than 20 papers in international journals and 50 publications at international conferences. He is IEEE member from 2009, MATE Control Theory section management board member from 2007 and Hungarian Diabetes Association member from 2010. From 2010 is Membership Development Officer of the IEEE Hungarian Section. Vice chair of HS 2013 - 2014.


Vice Chair Péter Nagy

Péter Nagy received the M.Sc. degree in Electrical Engineering from the Budapest University of Technology and Economics (BME) in 2000, and MBA in 2005. Next he started to work for the National Regulatory Authority of Hungary (presently National Media- and Infocommunications Authority). He was involved in many international projects and liaison with international organization. He held more positions at the IEEE Hungary Section (Student counsellor, Industry Relations). He was a main local organizer, patronage or finance chair of WTC2006, MobileSummit 2007, Networks 2008, WCNC2009, WMNC2010, Future Internet Week 2011, VTC2011 Spring, IEEE ICC2013. From 2000 he is the Managing Director of the Scientific

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Association for Infocommunications, Hungary (HTE), which is a Sister Society of IEEE. Lastly his recent project was to organize the IEEE ICC 2014 in Sydney with the support of the Organizing Committee, he was the Finance Co-Chair.

Secretary Gábor Szederkényi

Gábor Szederkényi studied at Veszprém University and got PhD grade in 2002. His current position is research Fellow at Process Control Research Group in Computer and Automation Research Institute Hungarian Academy of Sciences. Teaches at PázmányPéter Catholic University. He served as secretary and treasurer of IEEE HS between 2008 - 2009, since that serves as secretary.

Treasurer
Anikó Szakál

Anikó Szakál, studied at Bánki Donát Polytechnic and Budapest Polytechnic, in field of information technology and education. She serves from 1996 in IEEE Hungary Section administration. She worked as mathematics and physics teacher in Secondary School and Head of Dean's Office of Budapest Polytechnic, John von Neumann Faculty of Informatics. From 2002 she works at Budapest Polytechnic's Directorate and official in charge for international relations. Since 2010 she is the treasurer of HS.

Award established

By the recommendations of the IEEE HS Award Committee the Boeard of the HS founded the IEEE HS Excellence Award for outstanding communities of the HS. The rule of the nomination can be red on the website.
Please don't hesitate, nominate!


IEEE Hungary Section
Excellence Award
is hereby granted to
for outstanding performance and lasting contribution
Budapest, December 9, 2014
IEEE Hungary Section since 1987
Péter Kádár
Section Chair, IEEE HS
Krisztián Lamár
Awards & Recognition Chair, IEEE HS

Student & Young Professional Congress, Krakow 2014

Budapest University of Technology and Economics Joint IAS/PES Student Branch Chapter represented Hungary in the Krakow congress.

Two members of our SBC have participated in IEEE R8 Student & Young Professionals Congress Krakow 2014. The event was held mainly at AGH University's campus Krakow and many other lovely external venues for the opening and social events. We had

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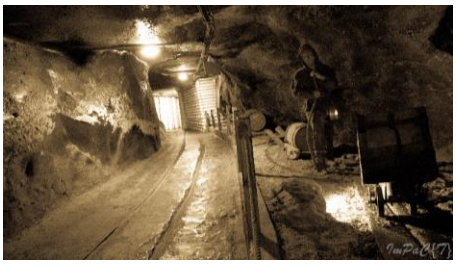
plenary sessions by various speakers from IEEE, the local officers and supporting companies.

Opening Ceremony at Wawel Castle, Hungarian Praticipants in the second row (photo: Mateusz Wędrychowicz)

After the plenary sessions we went to technical sessions and workshops. In order to acquire broader knowledge and materials both of us tried to join diverse events. We got to know more and more facts and information about general IEEE's activities (especially in the region 8) and more specialized initiatives and member driven activities such as the Student & Young Professionals.



Wieliczka Salt Mine, a very international table at the Gala Dinner (photo: https://www.facebook.com/ieee.r8sac)

IEEE TISP workshop and a plenary session (photo: Mateusz Wędrychowicz)

At technical sessions we had speakers from the sponsor companies that we also visited at their facilities later on. The workshops seemed to be very useful e.g. how to write publication papers and present them, activities for pre-university students and so on. The main goal of the congress was to get to know each other, which has been fully achieved. We got to know many colleagues from foreign SBC's and we tried to establish long lasting relations that could provide both of us great benefits.

Martin Bastiaans Region 8 Director among the Hungarian Praticipants

Ákos BALDAUF, Vice-chair
Imre PÁCSONYI, Treasurer

Approval for YP Affinity Group

The (Hungarian) IEEE Young Professional (former GOLD) Affinity group is formed and is officially approved by the leadership of Esztergár-Kiss Domokos.

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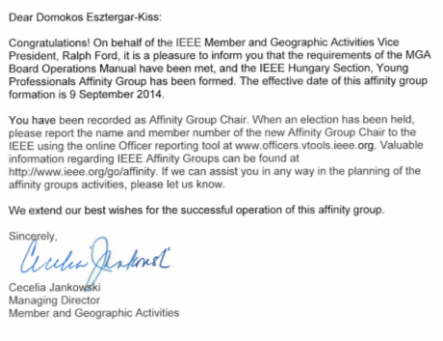

Dear Domokos Esztergar-Kiss:

Congratulations! On behalf of the IEEE Member and Geographic Activities Vice President, Ralph Ford, it is a pleasure to inform you that the requirements of the MGA Board Operations Manual have been met, and the IEEE Hungary Section, Young Professionals Affinity Group has been formed. The effective date of this affinity group formation is 9 September 2014.

You have been recorded as Affinity Group Chair. When an election has been held, please report the name and member number of the new Affinity Group Chair to the IEEE using the online Officer reporting tool at www.officers.vtools.ieee.org. Valuable information regarding IEEE Affinity Groups can be found at http://www.ieee.org/go/affinity. If we can assist you in any way in the planning of the affinity groups activities, please let us know.

We extend our best wishes for the successful operation of this affinity group.

Sincerely,

Cecelia Jankowski
Managing Director
Member and Geographic Activities

IEEE DAY

The IEEE Hungary Section and Young Professionals Affinity Group organized an IEEE day on the 7th of October 2014 in the premises of Budapest University of Technology and Economics (BME).

The opening words were presented by Péter Kádár, the chair of Hungary Section. Then Prof. Árpád Csurgay, an IEEE life fellow held a highly interesting presentation about the mission of an IEEE Young Professional in Hungary.

As this event was also the first meeting of Young Professionals in Hungary, the stories of the members were told, how they joined IEEE and what do they expect from this new formation. The tasks and possibilities of Young Professionals were discussed, where special emphasis was put on the scientific events, organization of conferences and new member recruitment. Based on the discussion an activity plan was elaborated. The IEEE Day finished with a networking reception including some pizza and drinks.

Domokos Esztergár-Kiss chair
IEEE Young Professionals Affinity Group

DLP of prof. Ephraim Suhir

Dr. Suhir is Fellow of ASME, IEEE, American Physical Society (APS), Institute of Physics (UK), Society of Optical Engineers (SPIE), International Microelectronics and Packaging Society (IMAPS), Society of Plastics Engineers (SPE), Foreign Full Member (Academician) of the NAE, Ukraine, and Fulbright Scholar in Information Technologies. He has authored above 300 publications (patents, books, book chapters, papers) and received numerous professional awards, including 2004 ASME Worcester Read Warner Medal for outstanding contributions to the permanent literature of engineering and laying a foundation of a new discipline "Structural Analysis in Electronics and Photonics Systems". Dr. Suhir is the third Russian American, after Steven Timoshenko and Igor Sikorsky, who received this prestigious award. Dr. Suhir is co-founder of the ASME Journal of Electronic packaging and served as

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its Technical Editor for eight years (1994-2002).

Professor Suhir had a Distinguished Lecture Presentation at the Óbuda University, on 3rd of November, 2014, about:

Probabilistic Design for Reliability in Electronics and Photonics: Role, Attributes, Challenges

The recently suggested ***probabilistic design for reliability (PDfR) concept*** is based on: 1) highly focused and highly cost-effective ***failure oriented accelerated testing (FOAT)*** aimed at understanding the physics of the anticipated failures and at quantifying, on the probabilistic basis, the outcome of FOATs conducted for the most vulnerable element(s) of the product of interest and the most likely and meaningful combination of possible stressors (the principle of superposition does not work in reliability engineering), and 2) simple and physically meaningful ***predictive modeling (PM)***, both analytical and computer-aided aimed at bridging the gap between what one "sees" as a result of FOAT and what he/she will supposedly "get" in the field. FOAT and PM based ***sensitivity analysis*** (SA) algorithms are developed as by-products. The PDfR concept is based on the recognition of the fact that nobody and nothing is perfect, and that the difference between a highly reliable and insufficiently reliable product is "merely" in the level of its probability of failure. If this probability (evaluated for the anticipated loading conditions and the given time in operation) is not acceptable, then such a SA can be effectively employed to determine what could be possibly changed, in terms of materials, geometries, application restrictions, etc., to improve the situation. The PDfR analysis enables one also to check if the product is not "over-engineered", i.e., is not superfluously robust: if it is, it might be too costly although the operational reliability cannot be low, it does not have to be higher than necessary either, but has to be adequate for the given product and application. This means that when both ***reliability and cost-effectiveness*** are imperative, ability to quantify reliability is a must. In this seminar the major PDfR concepts will be illustrated by case studies and practical examples. Although some advanced and subtle PDfR predictive modeling techniques have been recently developed for quantifying and assuring reliability of electronic and photonic products, especially those intended for aerospace applications, the practical examples addressed employ more or less elementary analytical models.

Appretiation to Zsolt Illyefalvy-Vitéz

With the compliments of
IEEE Member and Geographic Activities

This Certificate of Appreciation is a small token of thanks for your leadership and service as an IEEE volunteer Chapter Chair.

The technical Chapter is, to many IEEE members, the focal point of their IEEE experience. Your leadership and responsiveness to member needs has been admirable. Your involvement in this Chapter should give you a true feeling of accomplishment as well as the respect and admiration of your fellow engineers.

Be proud to display your Certificate, as you continue to support your profession.

IEEE
Advancing Technology for Humanity

IEEE hereby expresses its appreciation for Notable Services and Contributions towards the advancement of IEEE and the Engineering Professions to

Prof. Zsolt Illyefalvi-Vitéz
Chair
Components Packaging, and Manufacturing Technology Society Chapter
Jt. Hungary/Romania Section
2006-2013

Dr. Jacek M. Zurada
Vice President, Technical Activities

Ralph M. Ford
Vice President, Member and Geographic Activities

CogInfoCom 2014

The 5th IEEE CogInfoCom 2014 Conference was suscesfully held in Vietri sul Mare, Italy on 5-7 November, 2014.
358 authors from 33 countries in 6 continents have published 123 papers

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and DEMO proposals and the Conference welcomed 120 guests who held presentations, demonstrations and plenary lectures at the event.
Based in the success of the conference the researchers who have attended the conference already started special journal issues under CogInfoCom.

IEEE technical co-sponsorship

We face with many questions related the IEEE conference sponsoring, IEEE logo usage, IEEE explore papers, etc. We summarized the rules related this topic, you can read at http://ieeehs.uni-obuda.hu/files/vegyes/tanacsok_konferenciaszervezeshez_v1.pdf

Upcoming event

The 16th International Carpathian Control Conference (ICCC) will be held in Miskolc, Hungary – May 27 - 30, 2015
Abstract Submission Date: Dec 31st, 2014
http://www.iccc.uni-miskolc.hu/

Winter dinner

On 15th of January, 2015 we plan to go have the traditional IEEE HS winter dinner. The call will be sent by mail, we hope you can join to us! Mark in your calendar!

We Wish you Merry Christmas and a Prosperous Happy New Year!

Vacancy

The editorial office seeks volunteer co-worker to edit IEEE HS Newsletter. Please send your application to the office.

Imprint

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