



**25 years of
Hungary Section**

IEEE HS Newsletter

Official news of
IEEE Region 8
Hungary Section
Vol.5. No.2.
2013 fall

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R8 meeting in Sarajevo

At the beginning of October 2013 was held the R8 fall meeting in Sarajevo, BiH. The city seems to be recovered from the civil war, the event was excellent. Looking the economy crisis in the region, some delegates asked for cost cut also in the IEEE headquarter in

Piscataway. (This unplanned motion made some trouble in the board.) As it was announced, the IEEE Middle East SB Congress is scheduled for 2013, May 31 – June 1, 2013, Beirut, Lebanon. The IEEE Region 8 Student Branch and Gold Young Professionals Congress in Kraków, Poland is scheduled for 6-10 August 2014.

Also it was announced that R8 meeting in the spring of 2014 will be held in **Budapest, Hungary.**



R8 meeting in Budapest

It is our pleasure to announce that the next R8 meeting will be held in Budapest on 4-6th of April 2014. This is our honor, chance and challenge. I ask all the HS members to support our organizing work. Beyond the official IEEE protocols we have possibility to introduce the section, the chapters, the SB activities, the University and Industry relation, the splendid past of the Hungarian electro-technics. If you are ready to join to the preparation committee, please don't hesitate.

Peter Kadar, IEEE HS chair



3DTV-CON

The Tampere University of Technology, Tampere, Finland is going to organize

the 3DTV-CON conference in Budapest in June/July 2014. This will be the 8th edition of the 3DTV-CON conference. The conference concentrates on capture, processing and visualization of 3D content.



Award of Tamás Roska



Professor Tamas Roska is the 2013 recipient of the prestigious 'Mac Van Valkenburg Award' of the IEEE Circuits and Systems Society "for seminal contribution to the realizability of Nonlinear Circuits and Systems, Cellular Nonlinear Network (CNN) dynamics through a seminal theorem, and extension of the class of CNN, and fundamental contribution to the establishment of a spatial-temporal, stored programmable computing and computer paradigm based on the CNN universal machine." The Mac Van Valkenburg Award honors the individual for outstanding technical contributions and distinguishable leadership in a field within the scope of CAS Society. The award is based on the



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quality and significance of contribution, and continuity of technical leadership. Professor Tamas Roska is the first scientist working in Hungary who received the Mac Van Valkenburg Award since its starting in 1985.

Gábor Szederkényi



The road to ICC'13 and beyond...

IEEE ICC • 9-13 June • Budapest, Hungary



HTE, the Scientific Association for Infocommunications

<http://www.hte.hu> was awarded in 2010 the possibility to organize the IEEE International Conference on Communications (ICC) in June 2013 in Budapest. <http://www.ieee-icc.org/2013>

The conference, which turned out to be a real success, benefited greatly from the relentless efforts of a wholehearted local organizing team that included Prof. Lajos Hanzó (University of Southampton) as Executive Chair, Dr. Rolland Vida (Budapest University of Technology and Economics) as Operations Chair, the local PCO (Professional Conference Organizer) Assisztencia Ltd., and Péter Nagy,

Managing Director of HTE, as Finance Chair.



Peter Nagy

A few weeks after the successful ending of ICC 2013, Péter Nagy was invited by the Organizing Committee of IEEE ICC 2014 to fill in the Finance Co-Chair position for the conference which will be held next year in Sydney, Australia. <http://www.ieee-icc.org/2014>. And another six months later he was now invited to serve as member of the Organizing Committee of WCNC 2015. The IEEE Wireless Communications and Networking Conference is one of the flagship conferences of IEEE Communications Society. The 2015 edition will be organized in New Orleans, USA, while next year's event will take place in Istanbul, Turkey. <http://www.ieee-wcnc.org/2014>

For more information, please contact the HTE Secretariat info@hte.hu

Peter Nagy



Appointment Rolland Vida

Dr. Rolland Vida, associate professor at the Budapest University of Technology and Economics and Head of International Affairs of the Scientific Association for Infocommunications, Hungary (HTE) was appointed as voting member and operations manager of the Globecom/ICC Management & Strategy Committee (GIMS) of the IEEE Communications Society, during the IEEE Globecom 2013 conference that took place a few days ago in Atlanta, USA.

GIMS is the committee responsible for supervising and shepherding the organization of the IEEE Globecom and IEEE ICC conference series, from the financial and legal aspects, through the fostering of industrial participation and patronage involvement, to the fine details of the conference operations. GIMS is also responsible for selecting the venues of future conferences. Globecom and ICC are the two flagship conferences of the IEEE Communications Society, which attract yearly more than 2000 participants, and include more than 1500 presentations during a five-day program which runs in 20 to 25 parallel sessions.

Dr. Vida's appointment is greatly due to the sheer success of the IEEE ICC 2013 conference, organized in June 2013 for the first time in Central & Eastern



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Europe, an event where he served as Conference Operations Chair.

The other members of this committee are Paul Hartmann (chair, RFSAW, USA), Stan Moyer (Inventures, USA), Fambirai Takawira (Univ. of Johannesburg, South Africa), Chi-Ming Chen (AT&T Labs, USA), Dilip Krishnaswamy (IBM Research, India), Hikmet Sari (Supelec, France), Ray Dent (Nelson Gilmour Smith, Scotland) and Michael Devetsikiotis (North Carolina State University, USA). Rolland Vida was appointed for a term of three years, starting with January 1st 2014, and the first two conferences he will be involved with are ICC 2014 in Sydney, Australia and Globecom 2014 in Austin, Texas.



Rolland Vida and Paul Hartmann



News of BUTE SBC

Representatives of the Budapest University of Technology and Economics (BUTE) Student Branch

Chapter attending the IAS Annual Meeting 2013

Four members of the BUTE SBC could attend the IAS Annual Meeting in 2013 Orlando, Florida between 6-11 October. On the 6th of October we attended the whole day IAS CMD annual workshop where the chapters presented their last year program.

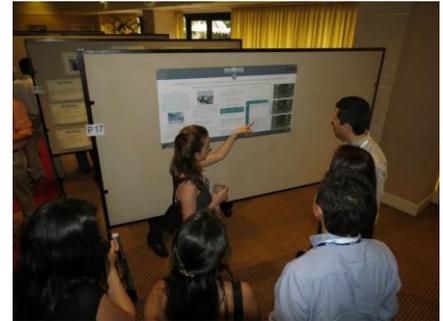


Chapter presentation given by Bence Pauló and Tímea Kántor

The Welcome Reception was in Sunday evening in combination with the poster session where Tímea Kántor and Beáta Polgári presented their research work.



Beáta Polgári presenting her poster



Tímea Kántor presenting her poster

The plenary session was very special in Monday morning – the breakfast was served during the presentations. The Annual Meeting usually has technical conference sessions and society meetings in parallel. The whole Monday was dedicated to a special session for students where all the contest award recipients and some invited students could give a presentation. As Beáta was invited for the conference because she was the second prize recipient of the IEEE IAS Graduate Student Thesis Contest 2013, she also gave a speech and Tímea as well, who was invited.



The Master Thesis Contest presentation of Beáta Polgári



The presentation of Tímea Kántor

We were also invited for the Zucker Student Luncheon and the CMD dinner and multi-cultural event. Our Prezi presentation about Hungary was accepted for this event and we assembled a special presentation focusing on Hungarian traditions using personal photos.



On the multi-cultural event with Blake Loyd (IAS President)

On the 8th October we could choose between the technical session and the conference tour to the NASA Kennedy Space Center.



Tímea Kántor in the Kennedy Space Center

Last night at the conference, the President's Reception and the Awards Banquet had been held. Our SBC was honored with the „2012 Continued Outstanding Performance Student Branch Chapter Award” and the Website Contest second prize. Beáta received a plaque for the Master Thesis Contest.



Group picture at the Banquet (Tamás Ruzsányi, Beáta Polgári – SBC chair, Richárd Cselkó – SB chair, Tímea Kántor, Bence Pauló – vice-chair, Péter Magyar-CMD chair)

It was a great experience for all of us to participate in this event and we would

like to thank here the support of the Hungary Section!

Polgári Beáta, BUTES IAS/PES Joint SBC chair



BUTE SBC – Night of Museums

Around Midsummer Night (24th June), which is the longest day in the year, there are a lot of cultural programs in Hungary. The Night of Museums is one of them.

Following the tradition of previous years, the Budapest University of Technology and Economics IAS/PES Joint Student Branch Chapter also took part in this event in 2013, on June 22. This time our members performed scientific experiments with dry-ice and liquid nitrogen with the help of the Wigner Jenő College for Advanced Studies and the Department of Energy Engineering. We had about 200 guests, fascinated by the laws of Physics, so the visitors and the organisers could spend a successful and magnificent evening together.



BUTE SBC – Night of Museums

Beáta Polgári, Chapter Chair



BUTE SBC – IYCE 2013

The fourth edition of the International Youth Conference on Energy (IYCE) which is traditionally organized by the Budapest University of Technology and Economics IAS/PES Joint Student Branch Chapter (BUTE SBC) took place from 6 to 8 June in Siófok, Hungary, on the southern shore of Lake Balaton, the largest lake in Central Europe. The event once again provided a good opportunity for young experts working in different fields of energy- and power engineering to present their work in an international forum and make contacts for their future



IYCE Conference hall during the poster session

The conference included a plenary session, oral sessions and a poster session with the main goal of offering the participants a wide platform for

discussions and experience exchange in an informal and smooth atmosphere. The conference was technically co-sponsored by IEEE Industry Applications Society, final papers will be available on IEEE Xplore.

On IYCE 2013 the nearly 110 participants from 28 countries of the world have published 91 professional papers. Besides these presentations, we organized a plenary session with renowned invited lecturers such as Mark Halpin (Past president of IEEE IAS), Larry Good (AEE Director International Membership Development) and Sergey A. Boyarkin (Director of Programs, State Corporation “Rosatom”).



Visitors at the Paks NPP

The meeting was also aimed to give opportunity for making new friendships in a pleasant environment. Therefore, apart from the technical sessions, the social programs made the desired informal interaction between the participants possible and also gave a touristic overview of Hungary.



For more information please visit <http://www.iyce-conf.org/>



Factory visits organized by BUTE SBC in 2012/2013 spring semester

Along other important activities the BUTE SBC is organizing lectures, panel discussions and technical visits every week, to provide an opportunity for all the people interested to get acquainted with the views of experienced and practicing professionals. The lecturers invited are great authorities of their field, and are up-to-date with technical developments and economic trends. Similarly to the previous semesters, in 2013 spring our chapter had successful and well-attended events, where we visited significant industrial facilities and reviewed important topics and actualities with the help of experts.

Date	Title / factory visit	Lecturer / location
14 February 2013	Károly Zipernowsky, first professor of electrotechnics at Budapest University of Technology	Prof. Tibor Horváth (BUTE)
25 February 2013	Factory visit	Tisza Chemical Group PLC, TVK Power Plant, BanKonzult energy Ltd.
28 February 2013	A modern planning procedure for HVAC system design	Zoltán Virág (Duoplan Ltd.)
14 March 2013	The experiences of the design and construction of the solar power plant in Újszilvás	Zsolt Megyik (MEngineering Ltd.), Csaba Petrányi (mayor of Újszilvás)
26 March 2013	Factory visit	MVM Paks Nuclear Power Plant
28 March 2013	Energy recovery from municipal solid waste – Will there be a second waste combustion heating power plant in Budapest?	János Bánhidly (FKF Ltd.)
4 April 2013	Safety challenges of modern nuclear reactors	Denis Kolchinskiy (St. Petersburg Atomenergoproekt)
10 April 2013	Factory visit	Solid Waste Incineration Plant in Budapest
19 April 2013	Factory visit	Gönyű Power Plant
11 April 2013	Nuclear Power Plants: constructions and decommissions in the world	András Cserháti (MVM PNPP Ltd.)
18 April 2013	Hungarian natural resources, mainly the not renewable ones	János Horn Ph.D (BDSZ)
25 April 2013	Factory visit	GE Hungary Ltd. gas turbine manufacturing plant at Veresegyház
2 May 2013	With what kinds of products could a power plant sustain itself on the electricity market?	András Vinkovits (BERT Ltd.), Zoltán Katona (E.ON Power Plants)
14 May 2013	Exploration of energy loss	Albin Zsebik Ph.D (BUTE)

BUTE SBC's activity in the first half of 2013

BUTE SBC's visit to Tisza Chemical Group Ltd.

At the opening event of the Károly Zipernowsky Memorial Semester, BUTE SBC had a fascinating all-day factory visit on the 25th February, in an industrial town in north-eastern Hungary called Tiszaújváros. We intended to get acquainted with the energy processes of the most significant Hungarian petrochemical factory, moreover, we were able to visit

the gas-fired TVK Power Plant and the workshops of BanKonzult Energy Ltd, which are producing electric machines, mainly generators for wind turbines. In spite of the early hour departure, the bus was completely filled, 50 participants started the exciting journey, where we were understandably not able to discover every interesting and important aspects of such a big industrial complex like Tisza Chemical Group in one day. We got only a short introduction, but it was

really delicious for the technology people.



Walking to the lengthwise-flowing mechanical separator water pool



*Group of visitors by the main gate of
Tisza Chemical Group Ltd*



Lecture of Denis Kolchinskiy

The highlighted lecture of BUTE SBC's Károly Zipernowsky Memorial Semester took place on the 4th of April, 2013, on the score of the safety challenges of newly designed nuclear reactors. It was held by Denis Kolchinskiy, the chief engineer for design from the JSC "Saint-Petersburg Design and Research Institute Atomenergoprojekt". The event was honoured by the presence of Pál Kovács, Secretary of State for Climate Change and Energy, Dr. József Rónaky, Director General of the Hungarian Atomic Energy Authority and Prof. Dr. Attila Aszódi, Director of Institute of Nuclear Techniques as well as nearly one hundred and forty other visitors.



*Denis Kolchinskiy (on the left) and his
interpreter (on the right)*

From the lecture the audience could learn about the operating experiences of various VVER reactors over the world and the main principles of nuclear reactor designing. The other main part of the presentation was revolved around the latest safety related developments, such as passive safety devices and core catchers. According to Mr. Kolchinskiy's final conclusion, both presented reactor units, the AES-2006 and the MIR-1200 are reliable opportunities for the future investors. It is also proofed by the stress tests ordered after the accident of Fukushima, that the vessels satisfied every modern security conditions. The new safeguard devices help the acceptance of the newly designed reactors among the population.



*The audience of Mr. Kolchinskiy's
lecture*

Beáta Polgári, Chapter Chair



Geostrategy of Energy Workshop

A specific workshop took place at the BUTE on 9th October as one of the BUTE SBC's György Jendrassik Memorial Semester's programme, co-organised by BME Institute of Nuclear Techniques, the HAS Committee of Energy Engineering and the CEA Regional delegation. The title of the workshop was Geostrategy of Energy. The first half was held by Mr. Bertrand Barré, Professor Emeritus at INSTN (France) and the second half was presented by Mr. Zoltán Tihanyi, Deputy CEO of the Hungarian Independent Transmission Operator Company (MAVIR). Mr. Barré introduced the social and geographical aspect of the energy consumption growth. He explained the global fossil energy trade system and the energy portfolios in several countries. Mr. Tihanyi continued the workshop with

introducing the challenges of the European electricity market. He talked about the main principles of the European Commission and ACER referred to the electrical energy markets. We got a view of the existing and proposed markets in the EU and the prospects of Hungary.



Mr. Bertrand Barré, Mr. Zoltán Tihanyi and Mr. Attila Aszódi (BME Institute of Nuclear Techniques)



Mr. Bertrand Barré and the audience of the workshop



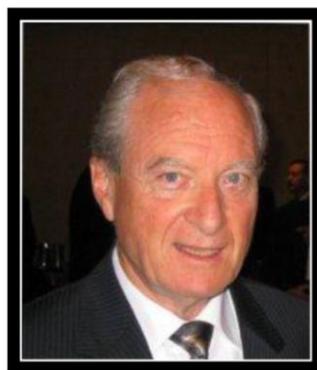
New Chapter Chair for the IEEE-CPMT Hu&Ro Joint Chapter.

Dr. Ciprian Ionescu, PhD, Associate Professor at the University POLITEHNICA of Bucharest, Romania was elected to serve as Chapter Chair for the IEEE-CPMT Hu&Ro Joint Chapter. The election was held at the Chapter Meeting on the 24th October 2013, in Galati, Romania. His email address (ciprian.ionescu@cetti.ro) is also included into the copy list. As a Contact to the IEEE Hungary Section, where the Chapter has to report to, I am still helping the work of Dr. Ionescu and serving the Chapter.

Zsolt Illyefalvi-Vitéz



Obituary



Dr Rolf Remshardt (1936-2013)

With the passing of Rolf Remshardt, IEEE has lost one of its most highly valued volunteers. His sudden death,

only weeks after he was a special guest at the 50th Anniversary celebrations of Region 8 in Madrid, has come as a terrible shock to his many friends across IEEE. For almost 30 years he provided an outstanding example of selfless and ethical service to the Institute. He was a major influence in policy-making: eight regional Directors benefited from his wise and friendly advice. His stewardship, as Treasurer, of the Region's finances for 15 years enabled a huge expansion of its activities, underpinned by the substantial reserves he built up by careful investment and budget controls. Rolf Remshardt earned a Diplom-Ingenieur degree and a PhD in electrical engineering from the Technical University in Stuttgart, Germany. He began his career at IBM in 1967, working as a development engineer, designing integrated circuits and semiconductor chips, and spent 2 years with IBM in the USA. During his nearly 30 years with the company he held several development and management positions.

Rolf joined IEEE as a Senior Member in 1983, and was elected Region 8 Treasurer. His IBM boss at the time, Director Walter Proebster, had persuaded Rolf to take on the job without warning him about the time commitment involved. Nevertheless, Rolf quickly demonstrated his skill in managing the complexities of dealing with many different currencies and



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exchange controls, in an era before credit cards became universal. He was elected as Region 8 Director (1999-2000) at a time when there was a rapid expansion in IEEE activity in Eastern Europe and the Middle East. Under his wise counsel the problems of IEEE membership in the 'low-income' countries were dealt with very effectively. This laid the foundations for the success of the enlarged Region 8 as it reached its 50th year.

Rolf also served on many IEEE Boards and committees, including the IEEE Foundation as a Director and Vice-President Projects.

He was honoured by IEEE through the Larry K Wilson Transnational Award (2002) and the RAB Achievement Award (2006).

We mourn the loss of one of IEEE's finest volunteers, and share the grief of his wife Renate and son Marc. We will all miss Rolf, as a friend and colleague, and as a happy companion.

*Kurt R. Richter past IEEE Director R8
Charles W Turner past IEEE Director R8*



HS Website

After some pause the IEEE HS home page came into operation. Please visit it, send us information, articles, news (www.ieeehs.hu). In this site not only

the chapters but also the BUTE and Óbuda University SB can be reached. IEEE HS invited applications for graphic renewal of IEEE HS home page. The contest has just finished, the new design was made by student Balázs Kelemen. We hope, you will like the new design and it reflects our work, our community, our identity. The visualization comes on-line soon.



INVITATION FOR DINNER

The IEEE HS membership means conferences, events, publication, friendships or virtual relations. The Hungary Section invites all members to a self-cost dinner out-of-bounds.

date: 8th of January 2014

Location: Trófea Grill Étterem Újbuda, 1117 Budapest XI.; Hauszmann Alajos st. / Szerémi st. corner.

Expected cost: 4500 Ft/pers.

Please register your intention to come at Ms Rita Lovassy till. 3rd of Jan.2014
lovassy.rita@kvk.uni-obuda.hu.



The IEEE HS wish you

MERRY CHRISTMAS AND HAPPY NEW YEAR!



Vacancy

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



Imprint

IEEE HS Newsletter

This is the official news of the "IEEE HS Villamosmérnökök Magyarországi Egyesülete" 1034 Budapest, Bécsi u. 96/b

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Approved - Formation of the IEEE Hungary Section Jt. Chapter, AP03/ED15/MTT17/COM19/EMC27HONLAP

Here you find the congratulatory letter regarding the approval of the IEEE Hungary Section Jt. Chapter, AP03/ED15/MTT17/COM19/EMC27. The geo-code is CH08069.



Cecelia Jankowski
Managing Director
Member and Geographic Activities
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14 June 2013

LAJOS NAGY
BUTE
GOLDMANN GY. TER 3
BUDAPEST, H-1111
HUNGARY

Dear Lajos Nagy:

Congratulations! On behalf of the IEEE Member and Geographic Activities Vice President Ralph Ford, and IEEE Technical Activities Vice President, Robert Hebner, it is a pleasure to inform you that the requirements of the MGA Board Operations Manual have been met, and the IEEE Electromagnetic Compatibility Society, has been added to the Hungary Section Joint Chapter AP03/ED15/MTT17/COM19, to form Hungary Section Joint Chapter, AP03/ED15/MTT17/COM19/EMC27 chaired by Lajos Nagy. The effective date of these chapter changes is 10 May 2013.

We extend our best wishes for the successful operation of these chapters.

Sincerely,

Cecelia Jankowski
Managing Director
Member and Geographic Activities

cc: R. Ford – Member and Geographic Activities Vice President
R. Hebner – Technical Activities Vice President
M. Bastiaans – Region 8 Director
T. Bird – Antennas & Propagation Society President
S. Zhongiang – Antennas & Propagation Society Chapter Activities Chair
K. Lai Yu – Electron Devices Society President
X. Zhou – Electron Devices Vice-President of Regions and Chapters
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K. Wu – Microwave Theory and Techniques Society Member Services Chair
R. Sparks – Microwave Theory and Techniques Society Administrator
M. Gollo – Microwave Theory and Techniques Society MGA Administrator
V. Bhargava – Communications Society President
N. Da Fonseca – Communications Society Vice-President
M. Ulema – Communications Society Director Membership Programs Development
J. Howell – Executive Director Communications Society
C. Swaim – Senior Administrator Communications Society
G. Pettit – Electromagnetic Compatibility Society President
S. Pignari – Electromagnetic Compatibility Society Chapter Coordinator
P. Kadar – Hungary Section Chair
M. Ward-Callan – Technical Activities Managing Director

BUTE SB program ended

The College of Energetics in cooperation with the BUTE SB has finished by the commemorial year “Jendrassik György”.



György Jendrassik Memorial Semester

**Professional events organized by the Budapest University of Technology and Economics
IAS/PES Joint Student Branch Chapter (BUTE SBC)**

The detailed report of the programs are available on our website.

<p><i>Opening lecture</i></p> <p><i>Factory visit</i></p> <p><i>Lecture</i></p> <p><i>Workshop</i></p> <p><i>Lecture</i></p> <p><i>Factory visit</i></p> <p><i>Factory visit</i></p> <p><i>Factory visit</i></p> <p><i>Lecture</i></p> <p><i>Factory visit</i></p> <p><i>Lecture</i></p> <p><i>Lecture</i></p>	<p><i>The life and work of György Jendrassik</i></p> <p><i>Energy supply of Audi Hungaria Motor Factory, Győr Power Plant</i></p> <p><i>ALLEGRO: The Central European gas-cooled fast breeder reactor</i></p> <p><i>Geostrategy of energy</i></p> <p><i>The state and prospects of non-conventional hydrocarbon reserves in Hungary and worldwide</i></p> <p><i>Supply security challenges in the power grid</i></p> <p><i>Paks Nuclear Power Plant</i></p> <p><i>Mátra Power Plant</i></p> <p><i>Power plant development trends in the world: limits and long-term prospects</i></p> <p><i>The cooling system of Budapest Ice Rink</i></p> <p><i>Nuclear fuel cycle: from the mine to reprocessing</i></p> <p><i>Power plant air quality management issues: The way to electrostatic precipitators</i></p>	
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BUTE SBC has finished one of its most successful semester, with approximately more than 600 people participating its events.

www.eszk.org