

James Knighten
USA

for contributions to understanding electromagnetic noise coupling paths for product compliance with regulatory standard

Mali Mahalingam
USA

for contributions to packaging and thermal performance of semiconductor electronics

Timothy Maloney
USA

for contributions to electrostatic discharge protection of semiconductor components

Chandrakant Patel
USA

for leadership in thermal and energy management in data centers

Omar Ramahi
Canada

for contributions to computational electromagnetics in electromagnetic compatibility

Gregory Taylor
USA

for contributions to mixed signal circuit technology for microprocessors

New IEEE CPMT Senior Members

The members listed below were recently elevated to the grade of Senior Member.

The grade of Senior Member is the highest for which application may be made and shall require experience reflecting professional maturity. For admission or transfer to the grade of Senior Member, a candidate shall be an engineer, scientist, educator, technical executive, or originator in IEEE-designated fields for a total of 10 years and have demonstrated 5 years of significant performance. Individuals may apply for Senior Member grade online at: www.ieee.org/web/membership/senior-members/index.html.

Valentin Baranov
Belarus Section, Belarus

Steve Bezuk
San Diego Section, USA

W Bottoms
Santa Clara Valley Section, USA

Antonio Ciccomancini-Scogn
Boston Section, USA

Joseph Diepenbrock
Eastern North Carolina Section, USA

Ezra Gershon
Long Island Section, USA

Stephen Hellriegel
Seattle Section, USA

Tuula A Ilmorinne
Finland Section, Finland

Shutesh Krishnan
Malaysia Section, Malaysia

Hua Lu
U.K.& Rep Of Ireland Section, United Kingdom/Republic of Ireland

Gamal Refai-Ahmed
Toronto Section, Canada

N Slater
Toronto Section, Canada

Yuming Tao
Ottawa Section, Canada

Klaus-Juergen Wolter
Germany Section, Germany

Xin Wu
Central Texas Section, USA

Luhua Xu
Coastal Los Angeles Section, USA

John Zhang
Northern Virginia Section USA

Student Branch News:

Interconnection Techniques in Electronics (TIE)– Professional Student's Contest

*submitted by Cocoru Vlad, Chair of IEEE CPMT Student Branch
Chapter of University Politehnica of Bucharest, Romania—
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At the beginning of April, between 9th and 12th, Galati, Romania, was home of the XVIIIth edition of an increasingly popular students' contest: **Interconnection Techniques in Electronics (TIE- www.tie.ro)**. The main organizer of the event was "Dunarea de Jos" University, Faculty of Electric and Electronics Engineering led by Prof. Dorel Aiordachioaie. The core of this

event is to test the participants' ability to find a professional solution to a real electronics interconnection problem.

The Romanian Student Branch Chapter is involved together with the IEEE-CPMT Hu&Ro Joint Chapter (Chair Professor Dan Pitica) in organizing this event and takes full credit for training the participants.

This competition gathers the most skilled and trained undergraduate students from the majority university campuses across Romania.

The main difference for this edition, compared to the past ones, is that we have invited our Hungarian colleagues from the Budapest University of Technology and Economics, Department for Electronic Technology (Head of the Department Professor Harsany Gabor). The students were accompanied by Professor Illyefalvi-Vitez Zsolt and Ms. Batorfi Reka. This was also the first edition to be held in English.

Professor Nihal Sinnadurai, IEEE Fellow, IEEE Distinguished Lecturer has presented to the participants the place of IEEE in the professional world and how important is for the young students to join a.s.a.p. this community.

The sole participation to this contest as a student implies that you have the required skills of a CAD designer. This competition is recognized by employers as a real certification of participants' knowledge level.

The subjects are created by a team of professionals who deal with CAD topics and winners from past editions of the TIE contest.



Fig. – Brainstorming session for creating the proposed subject for this edition

The topic proposed this time refers to the command of an integrated video camera and signal transmission through USB port. The design in Schematics and in Layout is highlighted: The correct implementation of decoupling capacitors, the separation of analog and digital ground layers are important issues, but special attention is paid to the problems that could appear in the actual practical PCB design phase: the signals and high speed routes integrity for multiple layers in printed circuit boards.

The real issue is not the difficulty of the problem (at this level, all participants are likely to be able to fully answer the given problem), but to do that in a very short time (only 3 hours, when the required time to fully solve the problem would be above 5). Therefore, no one is able to achieve the maximum available score, and the winners are expected to resolve as many problems as possible in the given time.

The first three ranked students receive a 10 month scholarship. Additionally, the winner of the TIE contest, Bogdan Raducanu, was awarded by CPMT Society with a full year IEEE CPMT Membership.



Figure – awarding the winners. From right to left: Prof. Paul Svasta (SBC Advisor), Bogdan Raducanu (TIE 2009 winner, 3rd year student at Electronics, Telecommunication and Information Technology, Bucharest), Adrian Petrariu (TIE 2009 first runner-up, “Stefan cel Mare” University of Suceava), Alexandru Coman (TIE 2009 second runner-up, “Dunarea de Jos” University of Galati).

All the participants expressed their interest for the TIE event and many of them, including our Hungarian friends, claimed their intention to attend the next year edition, which will take place in Cluj Napoca.

At the end, there was a very pleasant social event (boat trip on the Danube) and a closing ceremony in the last afternoon of staying in Galati. With this occasion, many contacts have been made which are likely to turn up into future collaborations and even friendships. Professor Paul Svasta, the SBC Advisor, pointed out the importance of IEEE-CPMT Politehnica University of Bucharest Student Branch Chapter to promote round of our country the aim of IEEE-CPMT Society.

We wish to all the participants all the best until the next year!

IEEE CPMT Society Newsletter

**Send inputs, suggestions, and
articles by email to
nsltr-input@cpmt.org**

..... Editor