



# 2013 IEEE REGION 1 STUDENT CONFERENCE



April 5 - 6, 2013 | Massachusetts Institute of Technology (MIT), Cambridge MA

Student Paper Contest, Micromouse Competition, Student Ethics Contest, T-Shirt Design, Networking



*Connecting Students with Industry Professionals and IEEE Leaders*

## 2013 IEEE REGION 1 STUDENT CONFERENCE

PATRONAGE / SPONSORSHIP PACKAGE

Soon Wan

([gimsoon@ieee.org](mailto:gimsoon@ieee.org))

IEEE Boston Section Past Chair

IEEE Region 1 Membership Development Chair

Sponsored by IEEE Region 1 and MIT



# Contents

- ▶ IEEE Region 1 Student Conference Goals
- ▶ Introduction of IEEE Region 1 and Membership
- ▶ 2013 Student Conference at MIT
  - Target, Steering Committee, Program, Keynote Speech, Venue, Current Exhibits
  - Student Paper Contest
  - Micromouse Competition
- ▶ **Sponsorship and Exhibition Opportunities**
- ▶ 2012 and Past Student Conferences

# Region 1 Student Conference Goals

## Connecting Students with Industry Professionals and IEEE Leaders

- ▶ The IEEE Region 1 Student Conference is the premier annual event where all the IEEE student branches from IEEE Region 1 (Northeast Region of United States of America) will meet.
- ▶ The conference objective is to encourage student competition and provide an opportunity for the students to network and learn from other students from across the Region 1, while applying practical engineering knowledge in the various competitions.
- ▶ It also provides the great opportunity for the student members to network with the Industry Professionals and the IEEE Leaders.

# Where is IEEE Region 1?

- ▶ Northeastern Region of United States
- ▶ Region 1 consists of the following states:
  - ❖ Connecticut
  - ❖ Massachusetts
  - ❖ Maine
  - ❖ New Hampshire
  - ❖ New Jersey
  - ❖ New York
  - ❖ Rhode Island
  - ❖ Vermont



# IEEE Region 1 Membership

- ▶ Total Members = 35,500
  - Student Members = 5,000
  - Young Professional Members = 4,300
- ▶ IEEE Boston Section has the highest number of student members in Region 1
- ▶ MIT has the highest number of student members in IEEE Boston Section.





# 2013 IEEE Region 1 Student Conference at MIT

# 2013 IEEE Region 1 Student Conference

- MIT, Cambridge MA (April 5-6, 2013)
- Conference Highlight Program:
  - Keynote Speech
  - Micromouse Competition and Workshop
  - Student Paper Contest
  - Student Ethics Competition
  - T-Shirt Design
  - FIRST Lego Introduction
  - Award Dinner Ceremony





# 2013 IEEE REGION 1 STUDENT CONFERENCE



April 5 - 6, 2013 | Massachusetts Institute of Technology (MIT), Cambridge MA



## ► Target:

More than 150 Student and Young Professional Attendees

- ❖ 20 Student Paper Content Participants
- ❖ 20 Micromouse Participants
- ❖ 10 Ethics Competition Participants
- ❖ 10 T-Shirt Design Participants





# 2013 IEEE REGION 1 STUDENT CONFERENCE



April 5 - 6, 2013 | Massachusetts Institute of Technology (MIT), Cambridge MA



## ▶ Steering Committee Members

- [Rob Reilly](#), Region 1 Student Activities Chair and Boston Education Chapter Chair
- [Soon Wan](#), Region 1 Membership Development Chair and Boston Section Past Chair
- [Bruce Hecht](#), Region 1 Chapters Activities Coordinator and Boston Section Pre-University Activities Chair
- [Rob Vice](#), Boston Section Chair
- [Srinivas Vaidyanathan](#), Boston GOLD Chair
- [Charles Rubenstein](#), Region 1 Past Director

# Friday, April 5, 2013 Program

Time	Program	Venue
5:30pm - 7:00pm	Registration	Le Meridien Hotel - Hunsaker
7:00pm - 9:00pm	STEP (Student Transition & Elevation Program) - Srinivas Vaidyanathan, Introduction of GOLD - Kapil Dandekar, Engineering Projects In Community Service	
9:30pm - 12:00pm	Micromouse Practice	MIT 34-3rd Floor



Tour MIT Museum  
on Sunday, April 7, 2013 (10:00am – 12:00noon)

# Saturday, April 6, 2013 Program

Time	Program	Venue
8:30am - 9:30am	Registration and Breakfast	MIT 34-401
9:30am - 10:00am	Peter Eckstein, Region 1 Director Welcome Rob Reilly, Region 1 Student Activities	MIT 34-401
10:00am - 10:30am	Keynote #1 Marc Apter, IEEE-USA President - IEEE-USA Activities	MIT 34-401
10:30am - 10:45am	Break	MIT 34-401
10:45am - 11:30am	Keynote #2 - TBD	MIT 34-401
11:30am - 12:00pm	S-PAC Presentation Rob Vice, IEEE Boston Section Chair	MIT 34-401
12:00pm - 1:30pm	Lunch	MIT 34-401
1:30pm - 4:30pm	FIRST Lego League - Stephen M. Cremer	MIT 34-304
1:30pm - 4:30pm	Student Paper Competition	MIT 34-301
1:30pm - 4:30pm	Student Ethics Competition	MIT 34-302
1:30pm - 3:30pm	Micromouse Competition	MIT 34-3rd Floor
3:30pm - 4:30pm	Micromouse Workshop - Soon Wan, Design and develop a Micromouse	MIT 34-303
6:30pm - 9:00pm	Award Ceremony and Dinner - Keynote: Vladimir Bulovic	Le Meridien Hotel - Hunsaker

# Keynote Speech



Saturday, April 6, 2013 7:00pm

## Nanotechnology For Electrical Engineers

Over the last two decades, world-wide community of nano-engineers has advanced assembly of nano materials such as molecules, polymers and colloidal quantum dots into active optical and electronic structures of nano- scale thickness, developing them into practical device technologies of high energy efficiency.

This paradigm shift in device engineering is the sign of the dawn of the new era of electrical engineering and will define our 21st century pursuits. Through examples of commercial and pre-commercial demonstrations of nano-structured devices developed in the Organic and Nanostructured Electronics laboratory (ONE-lab) at MIT, the talk will highlight the emergence of practical, large-area nano-enabled light emitting devices for lighting, displays, and IR illumination, new types of nano-structured solar cells for ubiquitously deployable energy harvesting, and new nanoscale electro-mechanical structures for computation, actuation and sensing.

Vladimir Bulović is the Professor of Electrical Engineering at MIT, leading the Organic and Nanostructured Electronics laboratory, directing the MIT Microsystems Technology Laboratories, and co-directing the MIT-ENI Solar Frontiers Center. Bulović's research interests include studies of physical properties of organic and organic/inorganic nanocrystal composite thin films and structures, and development of novel nanostructured optoelectronic devices. He is an author of over 140 research articles (cited over 10,000 times) and an inventor of over 50 U.S. patents in areas of light emitting diodes, lasers, photovoltaics, photodetectors, chemical sensors, programmable memories, and microelectromachines, majority of which have been licensed and utilized by both start-up and multinational companies. He is a founder of QD Vision, Inc. of Watertown MA which is producing quantum dot optoelectronic components, of Kateeva, Inc. of Menlo Park CA which is focused on development of printed organic electronics, and Ubiquitous Energy, Inc. which is developing nanostructured solar technologies.



# Region 1 Student Paper Contest

## ▶ Student Paper Contest

- This competition offers undergraduate IEEE Student Member opportunities to exercise and improve both written and verbal communication skills.
- Primary function is to improve the engineering student's communicative skills.
- **1<sup>st</sup> Place: \$800, 2<sup>nd</sup> Place: \$500, 3<sup>rd</sup> Place: \$200**
- Prizes sponsored by IEEE Life Members Committee



# Region 1 Micromouse Competition

## ➤ Micromouse Competition

➤ The objective of the competition is to build a robot which can negotiate a specified maze in the shortest time.

- **1<sup>st</sup> Place: \$800, 2<sup>nd</sup> Place: \$500, 3<sup>rd</sup> Place: \$200**
- Prizes sponsored by IEEE IBSC (Individual Benefits & Service Committee)



# R1 SAC Conference 2013

## Hotel: Le Meridien @ MIT

### Conference Day : EECS @ MIT



# Le Meridien @ MIT

Le Méridien Cambridge-MIT  
20 Sidney Street  
Cambridge, MA 02139

*Le* **MERIDIEN**  
CAMBRIDGE-MIT

- ▶ Next to MIT campus
- ▶ 10-minute walking distance to MIT- EECS (Building 34)
- ▶ Next to MIT Museum (Tour on Sunday 10:00am – 12:00noon)
- ▶ Banquet space reserved for Friday and Saturday evenings



Wide Hall for Registration  
& Exhibits



Hunsaker Ballroom



# MIT Building 34

77 Massachusetts Avenue  
Cambridge, MA 02139

- ▶ Opening Ceremony and Keynotes at Building 34-401



Registration  
and Exhibit Booths  
- Outside Room 34-401



# MIT Building 34

77 Massachusetts Avenue  
Cambridge, MA 02139

- ▶ All competitions are at Building 34, 3<sup>rd</sup> Floor



Area for  
Micromouse Competition



Classroom 34-301 for  
Student Paper Contest



Classroom 34-302 for  
Ethics Competition

# Current Exhibits at 2013 Student Conference

- ▶ IEEE Membership
- ▶ IEEE Power & Energy Society Scholarship Plus Initiative
- ▶ IEEE Women In Engineering
- ▶ IEEE HKN
- ▶ MIT Graduate School Programs



IEEE Power & Energy Society  
**SCHOLARSHIP PLUS INITIATIVE™**  
*Preparing the Next Generation of Power & Energy Engineers*





# Student Conference Sponsorship and Exhibition Opportunities

# Sponsorship and Exhibiting Opportunities

## Why be a Sponsor?

- ▶ Your company name, logo, products and services will be exposed to students and young professionals from all over Northeastern Region of USA (IEEE Region 1). They are the future industry leaders, influential design and development researchers and decision maker engineers who are, year after year, attracted to the conference.
- ▶ Your company leaders can participate in the conference keynote speakers program to address and share visions that will significantly impact the future of the world's industry.
- ▶ You'll have the opportunity to recruit potential leaders.
- ▶ Your patronage will validate the leadership of your organization in the industry.

# Opportunities Exist for Additional Support

- ▶ Our targeted sponsor items at the moment are:
  - ▶ Breakfast (\$800)
  - ▶ Break (\$500)
  - ▶ Lunch (\$1,200)
  - ▶ Award Ceremony and Dinner (\$6,000)
  - ▶ Exhibit Booth (\$500)
  - ▶ 200 T-Shirts with Company Logo (\$1500) to give out to each Student attendee
  - ▶ 200 Conference Badges and Lanyards (\$500)
  - ▶ Conference Program Booklet (\$1000)
  
- ▶ Your sponsorship includes:
  - Recognition at the Networking Reception
  - Full page advertisement in the conference program
  - Conference Passes
  - Speaking opportunity at the conference
  - Company Logo on conference website, program booklet, social media, and publicity materials.

# Current Sponsors

- ▶ IEEE Region 1
  - Includes:
    - Students Hotel Accommodation
    - Travel Mileage
- ▶ IEEE Education Society
- ▶ IEEE Boston Section (STEP Event)
- ▶ IEEE MGA GOLD Committee (STEP Event)
- ▶ IEEE Life Member Committee (Student Paper Contest)
- ▶ IEEE IB&SC (Individual Benefits and Services Committee (Micromouse Competition))

## IEEE life members





# 2012 and Past IEEE Region 1 Student Conference



# 2012 IEEE Region 1 Student Conference



# 2012 IEEE Region 1 Student Conference

- At Hartford, Connecticut
- March 8-10, 2012
- Conference Programs
  - Micromouse Competition
  - Micromouse Training Workshop
  - Student Paper Contest
  - Student Ethics Competition
  - T-Shirt Design Competition
- **155 Student Attendees**



**2012**  
**IEEE Region 1 Student Conference**  
Connecting Students with Industry Professionals and IEEE Leaders

Region 1 Student Conference is the premier annual event where all student branches from IEEE Region 1 (Northeast Region of United States of America) will meet, and engage in activities such as leadership training and various competitions. It provides the great opportunity for the student members to network with the Industry Professionals and the IEEE Leaders.

**Date:**  
10-11 March 2012

**Location:**  
Marriott Hartford  
200 Columbus Blvd  
Hartford, Connecticut

*For additional information,  
please e-mail:*

*IEEE Region 1 SAC Chair  
Ravi Todi  
(rtodi@ieee.org)*

*Or*

*IEEE Region 1 RSR  
William Dorney  
(william.dorney@ieee.org)*

**Conference Highlights:**

- ❖ Student Paper Contest
- ❖ Student Ethics Competition
- ❖ T-Shirt Design Competition
- ❖ Micromouse Competition and Workshop
- ❖ Leadership Training Session
- ❖ Plenary Session
- ❖ Region 1 and Award Reception
- ❖ Meet Leaders on Region 1 Board of Governor

Registration Deadline: February 20, 2012

To register online:  
<http://ewh.ieee.org/reg1/sac/conference>



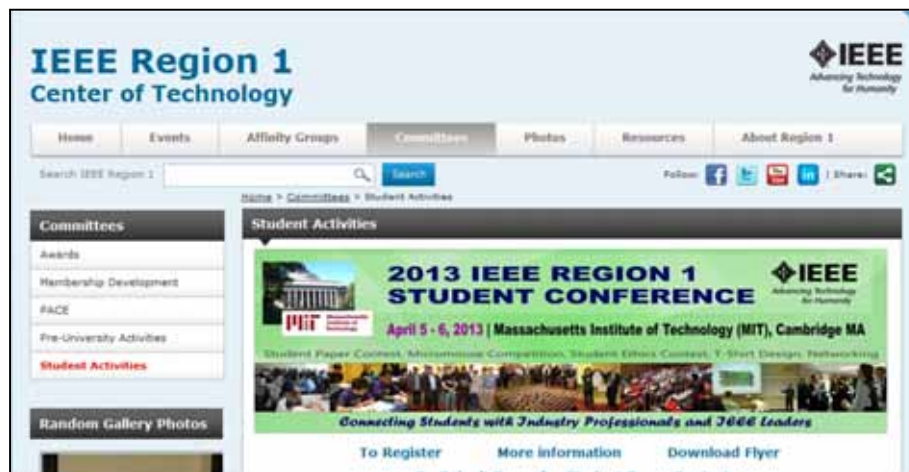
**IEEE Region 1**

# Past IEEE Region 1 Student Conferences



# Useful Links

- ▶ Conference Website:  
<http://sites.ieee.org/r1/committees/students>
- ▶ To register (deadline is March 31, 2013):  
[https://meetings.vtools.ieee.org/meeting\\_view/list\\_meeting/17007](https://meetings.vtools.ieee.org/meeting_view/list_meeting/17007)
- ▶ To submit paper for Student Paper Contest:  
<https://ieee-r1-studentconference.myreviewroom.com>



# Thank You



## 2013 IEEE REGION 1 STUDENT CONFERENCE

April 5 - 6, 2013 | Massachusetts Institute of Technology (MIT), Cambridge MA

Student Paper Contest, Micromouse Competition, Student Ethics Contest, T-Shirt Design, Networking



*Connecting Students with Industry Professionals and IEEE Leaders*

*We are looking forward to your support and participation.*

For Questions:

**Soon Wan**

IEEE Region 1 Membership Development Chair

[gimsoon@ieee.org](mailto:gimsoon@ieee.org)

(978) 749-3358

