

# **IEEE Student Activities**

**Babak Beheshti**

**Students Activities Committee Chair**

**IEEE Member & Geographic Activities Board**

**Region 1 Summer Leadership Training**

**Springfield, MA**

**August 7, 2009**

# AGENDA

- MGA Students Committee.
- Recent Initiatives from MGASC
  - Graduate Student Member.
  - Darrel Chong Student Activity Award.
  - IEEE Xtreme Programming Contest.
  - IEEE Student Enterprise Award.

# AGENDA

- Existing SC Awards/Contests
  - Regional Exemplary Student Branch Award.
  - Larry K. Wilson Regional Student Activities Award.
  - Student Paper Contest.
  - Student Branch Web Site Contest.
  - Micromouse Contest.
  - Ethics Contest.
- Potentials

# MGA STUDENT ACTIVITIES COMMITTEE

# **MGA STUDENT ACTIVITIES COMMITTEE FUNCTIONS**

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- SAC IS THE STUDENTS COMMITTEE OF THE MEMBER AND GEOGRAPHIC ACTIVITIES BOARD (MGA).
- SAC'S CONSTITUENTS ARE UNDERGRADUATE AND GRADUATE STUDENTS WHO HAVE INTEREST IN IEEE DESIGNATED FIELDS - ENGINEERING, COMPUTER SCIENCE AND INFORMATION TECHNOLOGY, PHYSICAL SCIENCES, BIOLOGICAL AND MEDICAL SCIENCES, MATHEMATICS, TECHNICAL COMMUNICATIONS, EDUCATION, MANAGEMENT, LAW AND POLICY.
- SAC PROVIDES RECOMMENDATIONS TO MGA ON OVERALL POLICY AND PROCEDURES REGARDING THE IEEE STUDENT PROGRAM, STUDENT SERVICES AND ACTIVITIES AND STUDENT MEMBERS.

# **MGA STUDENTS COMMITTEE**

## **FUNCTIONS**

- SAC STRIVES TO IMPROVE THE QUALITY OF STUDENT MEMBERSHIP.
- SAC STRIVES TO MAKE STUDENTS AWARE OF RESPONSIBILITIES OF THE ENGINEERING PROFESSION.
- SAC STRIVES TO REPRESENT THE INTERESTS AND CONCERNS OF STUDENTS WORLDWIDE.
- SAC STRIVES TO PROMOTE THE IMPORTANCE OF NETWORKING AND RELATIONSHIP BUILDING
- SAC STRIVES TO INCREASE SYNERGY BETWEEN SAC AND OTHER IEEE UNITS.
- SAC STRIVES TO FOSTER STUDENT BRANCH DEVELOPMENT.
- SAC STRIVES TO PROVIDE EFFICIENT COMMUNICATIONS BETWEEN IEEE AND STUDENT MEMBERS.

# MGA STUDENTS COMMITTEE COMPOSITION

- SAC CHAIR, VICE CHAIR, PAST CHAIR
- FROM EACH OF THE 10 REGIONS - “Our link to the students”
  - 10 REGIONAL STUDENT REPRESENTATIVES - RSR
  - 10 REGIONAL STUDENT ACTIVITIES CHAIR - RSAC
- REPRESENTATIVES - “to remind us of the big world out there”
  - UP TO SIX INDUSTRY REPRESENTATIVES
  - STUDENT PROFESSIONAL AWARENESS REPRESENTATIVE
  - BRANCH CHAPTER REPRESENTATIVE
  - BRANCH CHAPTER STUDENT REPRESENTATIVE
  - IEEE POTENTIALS EDITOR & STUDENT EDITOR
  - TECHNICAL ACTIVITIES BOARD REPRESENTATIVE
  - IEEE-USA SPAC COMMITTEE CHAIR
  - GOLD COMMITTEE REPRESENTATIVE
- IEEE STAFF - “amazing people that make us look good & allow us to accomplish great things”
  - MGA SECRETARY (ex officio)
  - MANAGER STUDENT SERVICES (serves as secretary, no vote)

# MGA STUDENT ACTIVITIES COMMITTEE

- MEMBERSHIP REQUIREMENTS
  - IEEE MEMBER OF STUDENT, GRADUATE STUDENT MEMBER, MEMBER, SENIOR MEMBER OR FELLOW GRADE
- APPOINTMENTS, ELECTIONS AND TERMS OF OFFICE
  - COMMITTEE MEMBERS - ONE YEAR TERM WITH REAPPOINTMENT PERMISSABLE
  - COMMITTEE CHAIR - ONE YEAR TERM WITH REAPPOINTMENT PERMISSABLE FOR UP TO TWO ADDITIONAL ONE YEAR TERMS
  - OTHER MEMBERS - AD-HOC BASIS BY APPOINTMENT OF COMMITTEE CHAIR FOR IN CONNECTION WITH SPECIFIC PROJECTS
- MEETINGS
  - OCCURS AT THE CALL OF THE CHAIR
  - INTERIM MEETINGS & BUSINESS VIA ELECTRONIC MAIL AND TELECONFERENCE
  - QUORUM IS MAJORITY OF VOTING MEMBERS
  - VOTING BY MAJORITY VOTE WITH CHAIR AS TIE BREAKER

# MGA STUDENT ACTIVITIES COMMITTEE COMPOSITION

- COMMITTEES/SUB-COMMITTEES/AD HOC COMMITTEE CHAIRS

- COMMITTEE CHAIR MUST BE A MEMBER OF THE SAC
- APPOINTED BY SAC CHAIR

- COMMITTEES/SUB-COMMITTEES/AD HOC COMMITTEES

- REGIONAL STUDENT REPRESENTATIVE (RSR) STEERING SUBCOMMITTEE
- REGIONAL STUDENT ACTIVITIES CHAIR (RSAC) STEERING SUBCOMMITTEE
- AWARDS & RECOGNITION SUBCOMMITTEE
- BRANCH LEADERSHIP TRAINING SUBCOMMITTEE
- STUDENT PROFESSIONAL AWARENESS ACTIVITIES SUBCOMMITTEE
- POTENTIALS MAGAZINE SUBCOMMITTEE
- ELECTRONIC COMMUNICATIONS SUBCOMMITTEE

# **MGA STUDENTS COMMITTEE MEMBERS**

**CHAIR**

**BABAK BEHESHTI**

**VICE CHAIR**

**MARTIN BASTIAANS**

**PAST CHAIR**

**JIM RIESS**

# MGA STUDENTS COMMITTEE MEMBERS

CHAIR

Babak Beheshti

VICE CHAIR

Martin Bastiaans

PAST CHAIR

Jim Riess

STANDING COMMITTEES

O RSR STEERING

CHAIR

Matthew Erickson

O RSAC STEERING

Mini Thomas

O COMMUNICATIONS

Pablo Herrero

O POTENTIALS

Ravi Todi

O AWARDS & RECOGNITION

ELIZABETH JOHNSTON

O BRANCH LEADERSHIP TRAINING

Denard Lynch

O STUDENT PROFESSIONAL AWARENESS

Marko Delimar, John Paserba

# MGA STUDENTS

## COMMITTEE MEMBERS

### RSAC STEERING COMMITTEE

REGION 1 - Robert Sadowski

REGION 3 - Eric Ackerman

REGION 5 - Steve Watkins

REGION 7 - Denard Lynch

REGION 9 - Salomon Herrera

REGION 2 - Li Bai

REGION 4 - Don Zinger

REGION 6 - Mohamed Osman

REGION 8 - Eva Lang

REGION 10 - Mini Thomas

### RSR STEERING COMMITTEE

REGION 1 - Briana Morey

REGION 3 - Matthew Erickson

REGION 5 - Jennifer Smith

REGION 7 - Amy Khademi

REGION 9 - Amy Reyes

REGION 2 - Ryan Filman

REGION 4 - Rick Covington

REGION 6 - John Torous

REGION 8 - Pablo Herrero

REGION 10 - Om Perakash Batra

# MGA STUDENTS COMMITTEE MEMBERS

## ADHOC COMMITTEE CHAIRS

- SAC/GOLD TRANSITION Balvinder Blah
- STRATEGIC PLANNING Jim Riess
- BRANCH COUNSELOR SUPPORT Mini Thomas
- IEEE GLOBALIZATION Salomon Herrera

## INDUSTRIAL REPRESENTATIVES

- R. Barnett Adler
- Peter Mauzey
- John Paserba
- Ravi Todi

## IEEE STAFF

- Cecelia Jankowski
- Laura Durrett

**GRADUATE STUDENT MEMBER**

# GRADUATE STUDENT MEMBER

- New graduate student member (GSM) grade completed August 2007.
- GSMs to continue to pay student dues rate.
- Able to vote in IEEE elections in 2006 and 2007.
- Eligible to hold volunteer positions in IEEE sections, chapters, and the affinity groups.

# GRADUATE STUDENT MEMBER

- Must have earned a bachelor's (or equivalent) degree from an accredited institution in a program within the IEEE's designated fields of interest.
- Must be registered graduate student in regular graduate course of study in one of IEEE fields and carry at least half of a full-time academic program.

# GRADUATE STUDENT MEMBER

- Student and graduate student member grades can be held for a combined total of eight years.
- After graduation or upon reaching eight-year limit, graduate student members will be elevated automatically to member grade.

**[www.ieee.org/students](http://www.ieee.org/students)**

Click on

**“Scholarships, Awards,  
Contests and Grants”**

**DARREL CHONG STUDENT  
ACTIVITY AWARD**

# DARREL CHONG STUDENT ACTIVITY AWARD

- Conducted by IEEE Student Activities Committee
- Changes the student branch mindset from being number-driven to being value-driven.
- Improve quality of activities .

# DARREL CHONG STUDENT ACTIVITY AWARD

- Foster sharing of knowledge among student branches.
- Encourage and motivate student branches to innovate and implement meaningful ideas.
- Each student branch may enter as many activities as they want.

# DARREL CHONG STUDENT ACTIVITY AWARD

- Student branches submit description of organized activity.
- Award status of platinum, gold, silver, bronze or unrated.
- No limit in number of winners.
- Allows same activity to be elevated to higher medal based on future improvements in subsequent years.

# DARREL CHONG STUDENT ACTIVITY AWARD

- Deadline is September 30.
- Judging criteria includes the Concept (0-20 pts), Implementation (0-20 pts), Repeatability (0-15 pts), and Results and Outcome (0-45 pts).

# IEEE XTREME 24 HOUR PROGRAMMING CONTEST

# IEEE XTREME 24 HOUR PROGRAMMING CONTEST

- Goals:
  - Give branches a new interesting and fun activity, while promoting interaction between Section, SB and University in both local and global scale.
  - Increase the number of activities aimed at computer programming fans in IEEE.
  - Be different from other competitions (like TopCoder or ACM's) and from other IEEE activities

# IEEE XTREME 24 HOUR PROGRAMMING CONTEST

- IEEE Xtreme is a worldwide contest in which teams of student members, supported by a Student Branch and proctored by an IEEE Member, compete in a 24-hour time span against each other to solve a set of programming problems

# IEEE XTREME 24 HOUR PROGRAMMING CONTEST

- Teams will be formed by up to 3 student members (StM or GSMs)
- Student Branches will host the event for their local team, with support of their local Sections and Universities
- Each of these places where competition is hosted (ranging from private residences or SB offices to College labs) is called a Venue

# IEEE XTREME 24 HOUR PROGRAMMING CONTEST

- The problems will be proposed and judged by the **Contest Committee**, a panel of experts from both Academia and Industry
- An **Organization Committee** formed by IEEE volunteers will take care of the management part of the contest (like enrollment or problem submission)

# IEEE XTREME 24 HOUR PROGRAMMING CONTEST

- Teams should submit their problem solutions electronically using a contest management page
- Each submission gets a timestamp (extra points for early submission)
  - Infrastructure should be put in place to solve possible bottlenecks (use distributed submission)

# IEEE XTREME 24 HOUR PROGRAMMING CONTEST

- Winning teams will receive prizes and plaques, both for them and their schools (as we're using their collaboration)
- The recognition ceremony should probably be organized as part of a Region / Section event, and with collaboration from the Region / Section SAC, if possible
- Our suggestion is that a funny prize is worth more than money (take into account the nature of the contest)
- We can easily extend the contest format to include in-person finals if at any time we want to do so

# IEEE STUDENT ENTERPRISE AWARD

# IEEE STUDENT ENTRPRISE AWARD

- Objective is to provide opportunities for IEEE Student Members to enhance professional development skills by developing collaborative projects related to engineering and technology.
- Projects ideas range from robotics and system design to programs to benefit the community.

# IEEE STUDENT ENTRPRISE AWARD

- This program is supported by the IEEE RAB Student Activities Committee.
- Proposals are evaluated by the awards & recognition subcommittee of RABSAC.
- Judges carefully consider proposals and score them on established criteria.

# IEEE STUDENT ENTRPRISE AWARD

- Six awards valued up to \$1500 each are available annually.
- Deadline for proposals is November 15.

**REGIONAL EXEMPLARY  
STUDENT BRANCH AWARD**

# REGIONAL EXEMPLARY STUDENT BRANCH AWARD

- Public recognition of exemplary IEEE student branch operations.
- Must be nominated by an officer of the branch.
- Awards are presented to nominated branches meeting 6 required items and at least 12 elective items of documentation indicated on the nomination form.

**MGA LARRY K. WILSON**

**REGIONAL STUDENT ACTIVITIES**

**AWARD**

# MGA LARRY K. WILSON REGIONAL STUDENT ACTIVITIES AWARD

- In memory of Dr. Wilson who strongly supported student activities.
- One award per Region for students that are most responsible for an extraordinary accomplishment associated with student activities.

# MGA LARRY K. WILSON REGIONAL STUDENT ACTIVITIES AWARD

- Designed to reward a particular event or product of IEEE activities.
- May be nominated by a Branch Counselor, Section Chair or Section SAC Chair.
- Nominees must be student members at the time of the accomplishment.

# STUDENT PAPER CONTEST

# STUDENT PAPER CONTEST

- Offers Undergraduates an opportunity to exercise and improve both written and verbal communication skills.
- No student should be discouraged from entering the contest due to false requirement of technical sophistication.
- An entrant may collaborate with additional students.

# STUDENT PAPER CONTEST

- Papers cover technical, engineering, management, or societal aspects.
- Written presentation evaluation includes form (0-70 pts) and for subject matter (0-40 pts).
- Oral presentation evaluation includes form (0-60 pts) and subject matter (0-30 pts)

# STUDENT BRANCH WEB SITE CONTEST

# STUDENT BRANCH WEB SITE CONTEST

- Each Student Branch may enter only one Web Site regardless of the number of Branch Chapters.
- For the international contest, a Region that has more than 10 and less than 20 entries may submit 2 entries in the finals. A Region that has 20 or more entries may submit 3 entries in the finals.

# STUDENT BRANCH WEB SITE CONTEST

Judging criteria include:

- Content (0-30 points)
- Navigability (0-25 points)
- Originality (0-15 points)
- Overall Presentation (0-15 points)
- Portability (0-10 points)
- Load Time (0-5 points)

# MICROMOUSE CONTEST

# MICROMOUSE CONTEST

- Objective is to build a robot to negotiate a specified maze in the shortest time.
- The maze is comprised of 16 X 16 multiples of 18 cm X 18 cm unit square with walls that are 5 cm high.
- The micromouse robot shall not exceed 25 cm in length and 25 cm in width.
- The micromouse is to travel from the start square to the destination square.

# ETHICS CONTEST

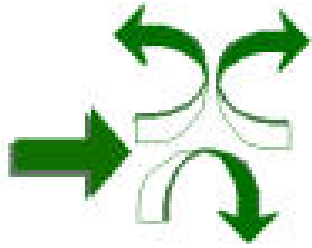
# ETHICS CONTEST

- Designed to provide experience in applying ethical concepts to situations that might arise in the workplace.
- A case study posing an ethical dilemma is given to teams.
- After three hours, teams explain to a panel of judges how the case should be handled ethically.

POTENTIALS

# POTENTIALS

- IEEE Publication dedicated primarily for students.
- R8-R10 Students can subscribe to the print version for US\$5.
- All members, including students, have online access through IEEE Xplore.
- Visit <http://www.ieee.org/potentials> for author guidelines.



# Thank You

**Babak Beheshti**  
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