

IEEE I&M MEETING NOTICE

You are invited to attend our November meeting:

Thursday, November 19, 2009
4:30 PM – 6:30 PM

Roseville Area High School (RAHS)

1240 County Road B-2
Roseville, MN 55113
<http://www.roseville.k12.mn.us/rahs>

PRESENTATIONS: "HIGH TECH KIDS" and "FIRST"
DEMONSTRATIONS: HIGH TECH KIDS" and "FIRST"

***ABOUT OUR HOST ***

The Roseville Area High School will host our November meeting.

Roseville Area Schools are committed to:

- + using research-based curriculum and instruction strategies
- + meeting the needs of its diverse community
- + providing ongoing job-embedded professional development for its staff
- + continually assessing student performance to provide parents and staff the instructional information they need
- + providing a rigorous, challenging and enriched learning environment for all students, while providing differentiated programming and curriculum options for identified gifted and talented students.

*** ABOUT HIGH TECH KIDS ***

High Tech Kids is a 501 (c)(3) nonprofit organization that supports Minnesota FIRST LEGO League (MN FLL) teams, coaches and volunteers. With the help of many volunteers, we provide high-energy, fun, team-based programs that celebrate engineering, science and technology. Each year, over 3,000 kids, ages 9 - 14, learn how to work together and solve real-world problems in Minnesota. This 12 week program keeps them engaged in math and science during critical decision making years. Many of our alumni have gone on to pursue STEM (Science, Technology, Engineering and Math) careers. We also strive to help these children learn to be engaged and educated citizens, and contributing members in their communities.

Creativity and innovation are celebrated at 11 regional tournaments and our State Championship each year, from November through January. Teams are evaluated in robotic design, programming, teamwork and research presentation. Volunteer opportunities are in any of these judging categories or as a referee for robot performance. The 2009 FLL theme is transportation and the 2010 theme is Biomedical.

High Tech Kids' mission is to provide innovative, high integrity STEM (Science, Technology, Engineering and Math) programs for kids in Minnesota.

To support High Tech Kids is to invest in our children, to share our passion, and to inspire these future leaders, innovators, collaborators and problem solvers.

Holly Mezera, Executive Director of High Tech Kids will be present to represent this program. After 16 years in the biotechnology industry Holly transitioned to the nonprofit sector in 2006. She has taught middle school math and science and coached MN FLL for both her kids and their teams. Holly works on sponsorship and fundraising initiatives, collaborates with other STEM partners and coordinates over 700 volunteers annually to assist with training, tournaments and events. Holly received her Food Science degree from the University of Wisconsin - Madison.

Norm Tiedemann, Head Official of High Tech Kids, IEEE member and Engineer for Alcatel-Lucent will also be attending to represent this program.

*** ABOUT FIRST ***

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FIRST (For Inspiration and Recognition of Science and Technology) is a 501(c)(3) not-for-profit organization devoted to helping young people discover and develop a passion for science, engineering, technology, and math. Founded nearly 20 years ago by inventor Dean Kamen, the 2008-2009 FIRST season attracted over 196,000 students and over 85,000 mentors, coaches, and volunteers from 51 countries. The annual programs culminate in an international robotics competition and celebration where teams win recognition, gain self confidence, develop people and life skills, make new friends, and perhaps discover an unforeseen career path. For students aged 6-18, it's the hardest fun you'll ever have. For team mentors, coaches, and volunteers, it's the most rewarding adventure you'll ever undertake. For sponsors, it's the most enlightened investment you could ever make.

- + Jr.FLL - Junior First Lego League (Grades K-3)
- + FLL - First Lego League (Grades 4-8)
- + FTC - First Tech Challenge (High School)
- + FRC - First Robotics Competition (High School)

See http://www.usfirst.org/uploadedFiles/whatisFIRST_Brochure.pdf for more info.

Ken Rosen will be present to represent FIRST. During the past three years, he has been building the FIRST Robotics program among Minnesota's high schools in a part-time role supported by the Medtronic Foundation. He also works for the Medical Devices Center at the University of Minnesota. In his FIRST role, he helps high schools to start teams and also to raise funds and recruit mentors for them.

*** ABOUT THE PRESENTATIONS ***

Presentations will be provided about these programs.

*** ABOUT THE DEMONSTRATIONS ***

There will be demonstrations by two FLL teams and an FRC team.

Here is an overview of the two FLL teams that will demo for us. Scott Boyd, 3M Aerospace and Aircraft, is their coach.

Robo Rebels

In their fifth year, this team started at Centerpoint Elementary in White Bear Lake. Current members go to Mahtomedi Middle School, Sunrise Middle School in WBL, FAIR school in Robbinsdale and Centerpoint Elementary.

State Teamwork Division 1 Award Winner

Division One State Champs

Second Place Innovation Research Solution HTK International Open

Regional Tournament Division 2 Research Award

Regional Tournament Division 1 Research Award

Regional Tournament Division 1 Robot Performance Award

Regional Tournament Division 1 Programming Award

Purple Peace Peeps

Third Year Team started at Centerpoint Elementary in White Bear Lake.

Current members go to Mahtomedi Middle School and Sunrise Middle School in WBL.

State Sportsmanship Award Division 1

Regional Tournament Judges Award Division 1

Regional Programming Award Division 1

Here is an overview of the FRC team that will demo for us. Tom Lageson, Senior Software Engineer at Boston Scientific is their coach.

The team is the Roseville Area High School Fire Bears. They are a 2nd year FIRST Robotics Competition (FRC) team (Grades 9 - 12). As a rookie team in 2009, they competed at the MN 10000 Lakes Regional at Williams Arena where they were the Alliance Captain for the alliance that took 2nd place (51 teams competed). They also competed at the MN State Fair where they won 1st place (out of 20 teams). As a

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team they had 21 students and 6 mentors last year. This year they have approximately 38 students and 8 mentors. Their primary sponsor is Boston Scientific.

*** FOOD AND REFRESHMENTS ***
Pizza will be provided.

*** ELECTIONS ***
The I&M will also be holding their annual elections during this meeting.

*** DIRECTIONS TO ROSEVILLE AREA HIGH SCHOOL ***
Please see the map at the following link
http://www.mapquest.com/mq/3-6KTxCeGK6Qxs_wxZ.
Try to park in the upper parking lot (farthest away from County Road B2). You can park in any of the three lots depending on how far you want to walk. Enter through the theater entrance, veer left, then a hard left into the cafeteria. We will be meeting in the cafeteria.

AGENDA:
Networking/Food 4:30 pm
I&M Business 4:45 pm
Presentations/Demos 5:00 pm
Adjourn 6:30 pm

ATTENDANCE IS FREE at our NOVEMBER MEETING! NON-MEMBERS WELCOME! TEACHERS, PARENTS, AND SCHOOL AGE CHILDREN ARE WELCOME. ANYONE INTERESTED IN LEARNING MORE ABOUT THESE PROGRAMS IS WELCOME TO ATTEND.

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IMPORTANT NOTE: PLEASE RSVP (WITH NUMBER OF ATTENDEES) FOR THIS MEETING TO HELP US PLAN FOR FOOD/REFRESHMENTS. PLEASE RSVP TO:

Jeff Paulson: (651) 582-4076
jeff.paulson@bsci.com
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PLEASE GO TO OUR WEB PAGE:
<http://www.im.tc-ieee.org>
for the latest information.

EMAIL: If you would like to start to receive your meeting notices via the internet: Send an email message to:
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