



Hi Everyone,

A huge thank you to all of presenters from our Fall Workshop Day at CSUN on Saturday, November 6, 2010. Charlie Hurst from JPL, Ric Roberts from Raytheon, Chris Husmann from Northrop Grumman, ADAM MANFREDONIA from PTC, KEVIN RUDOLPH RAYTHEON, Lilly Shraibati Metropolitan Water District, Debbie Dalton MEDTRONIC TOASTMASTERS, Ray Straub, Paul Fabares Intellitek Paul Dominguez Jr. Underwriters Laboratory, Milo Knapp, Darryl Newhouse & Kevyn Arcudia. I was able to visit with our student participants during the passing periods and after the workshop and heard great things about your sessions and their excitement about the new season.

I could not have even considered taking on this event without the help of Tarek Shraibati and the CSUN School of Engineering. There are countless times when many of us have needed his help and he has stepped up without hesitation. A true Gracious Professional!

This is the first time we invited teams that play FRC, FTC and VEX. The students worked together in their sessions and there was something for everyone. I am off to the Disney All Star Challenge this week with my middle school and will be glad to report what I learn about the air travel, ground transportation, Disney accommodations and what it is like to play at the ESPN complex.

Have a great week,

-Nancy Mc

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Engineering Project from PTC

Registration is now open for the 2010-2011 Real World Design Challenge. The Challenge is totally free to participate in and open to teams of 3-7 high school students. It is an aviation design competition that uses real engineering tools. We have added some new tools this year, and each teacher that participates gets more than \$1 million in professional engineering software. Teams get access to mentors, and state winners get an all-expenses-paid trip to Washington, DC to compete in the National Finals. Please check out our new website www.realworlddesignchallenge.org and sign up.

Dr. Ralph K. Coppola
Director, Real World Design Challenge &
Senior Director of Government & Strategic
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I have spoken with the person who has been coordinating this program in Hawaii and will be running a team at my school this year so I will be glad to do my best to answer questions that you may have.

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The Pre Ship Scrimmage will be at Harvey Mudd on Feb 20th, starting at 8am. Rookie teams are highly encouraged to attend. As usual we will be offering courtesy inspections.

This is also a great place for teams that have no room to run their robot to find out just what it will do. I am looking for a scale suitable for robot weighing that we can borrow.

Another event is in the planning stages. It is a Robot Quick Build Session. All teams who can use help with assembling their robot are encouraged to attend, especially rookies. We will be building complete kitbots. Teams should be able to leave the event with a running robot base. Once they get it running they can modify as they see fit. We are tentatively planning this event for Jan 15th at Poly High in Riverside. We can also use some volunteer mentors, especially in electronics and programming.

Christopher H Husmann, PE
Tool Design Stress Analyst
Northrop Grumman - Aerospace Systems
2P61/ES1
310 331-6758

There is an achieve of this newsletter is posted at <http://larobotics.org/SeniorMentorNewsletters.html> should you need to see it again for reference or to share it with someone else.

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Did you know that there is a series of calls that all mentors can be involved with to learn about the upcoming season from veteran mentors?

The past topic calls will be posted on the FIRST website so that you can catch up on something you may have missed or to listed to a good idea when you have a little more time.

FTC/SENIOR MENTOR/EXPERT/COACH CALLS
2010

- FTC Mentor 101: Discussion of how to register a Team, season timeline, recruiting mentors, and organizing a Team.

Host: Kathie Kentfield

Expert/Partner: Jill Wilker

Date: September 23rd, 2010 @ 7pm ET

- *New Call: Teams in Transition: Transitioning from FTC to FRC, how to prepare your Team for changes, and new challenges, how does the game change?

Host: SMS: Ron Borden and Fredi Lajvardi

Expert/Partner: Joe Passofaro-FTC

Date: September 28th, 2010

- New Call: Teams in Transition: Transitioning from FLL to FTC-what to expect, how does the 'game' change, what are the new challenges, what's different?

Host: Fredi Lajvardi

Expert/Partner Matthew Collier (FTC) Date: September 30th, 2010 @ 7pm ET

- Software Basics: What to expect at an event, focusing on inspection and field control.

Host: Mike Henry

Expert/Partner: Mike Nikolai

Date: October 7th, 2010 @ 7pm ET

- New Call: Team Strategy at Events

Expert/Partner: Debora Massouda

Host: Nate Knauss

Date: November 3rd, 2010 @ 7pm ET

- New Call: FTC Judging – What to Expect

Host: Karina Powell

Expert: Kevin Ross, Judge Advisor from Worlds

Date: November 11th, 2010 @ 7pm ET

FRC/FIRST SENIOR MENTOR/EXPERT CALLS
2010-2011

- Choosing a Competition: Tips and suggestions for successful travel; don't panic! Resources for Rookie Teams-what to expect at an event

Host: SM Nate Knauss

Expert: Frank Merrick

Date: 9/9/10 @ 7pm ET

- FRC Mentor Orientation 101: Team Organization, student recruitment, mentor recruitment, organizing your Team, teambuilding strategies, registration information

Host: SM Mike Henry

Expert: SM Mike Siegel

Date: 9/21/ 2010 @ 7pm ET

- *New Call: Teams in Transition: Making the transition from FTC to FRC, how to prepare your Team for changes, and different challenges.

Host: SM Ron Borden and SM Fredi Lajvardi

Expert: Joe Passofaro (FTC)

Date: 9/28/10 @ 7pm ET

- New Call: What Makes a Team a Success? : A perspective from Teams who have achieved great success in several different areas; tips, best-practices, and advice on how they did it,

and inspirational guidance for would-be Teams.

Host: SM Nate Knauss

Expert: Team 341 (Miss Daisy) - Alan Ostrow

Team11 (MORT) - David Bodmer

Team103 (Cybertronics) Jack L Tusman

Date: 10/06/10 @ 7pm ET

- Chairman's Award: Why everyone should submit a chairman's entry and how to prepare for this as well. Preparing your team for judging.

Host: SM Fredi Lajvardi

Expert: Wendy Trommer

Date: 10/27/10 @7pm ET

- Control System/Driver's Station & Beta Test Observations:

Host: SM Mike Siegel

Expert: Mat Pilotte

Date: 11/18/2010 @ 7pm ET

- Robot Transportation Checklist:

Host: SM Mike Henry

Expert: Jinnel Choiniere?

Date: 2/10/11@ 7pm ET

- Getting Ready for your Regional:

Host: SM Don Brobst and SM Ron Borden

Expert: Kathie Kentfield (SM)

Date: 2/17/11 @ 7pm ET

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The LARFLL events page has been updated

(<http://fll.larobotics.org/Events.html>)

and the FLL Team Registration

LeRoy Nelson is the partner in Los Angeles LeRoyNelson@earthlink.net

Lynn Crockett is the partner in San Diego Lynn.Crockett@LEGOLAND.com

Sara Tamayose is the partner in Hawaii

stamayose@gmail.com

<http://www.hawaiifll.org/>

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Los Angeles Partner Suparna Mukherjee

suparna.mukherjee@jpl.nasa.gov

San Diego Partner John Brooks

jbrooks6@att.net

San Diego Partner Marion Brooks

manybrooks@att.net

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The details for 2011 Robotics and Education Foundation

(RECF) Online Challenges have now available at RobotEvents.com

at <http://forum.robotevents.com/design/>.

Mixing successful ideas from the past two years with new challenges and interesting twists, we are proud to release this year's events. We are also pleased to announce that EMC Corporation is joining last year's

sponsors, Autodesk, the FUTURE Foundation, and VEX Robotics. EMC Corporation is sponsoring the robotics team Website Design Challenge. The complete list of this year's challenges:

- Autodesk® Inventor® 2011 Digital Prototyping Challenge
- EMC Corporation Robotics Team/Club Website Challenge
- FUTURE Foundation Design Challenge
- VEX® Robotics Design a Game Animation Challenge
- VRC Promote Award
- RECF Team Educational Video Challenge
- VEX® Robotics Essay Challenge

Admissions are open now, so start working!

All the specific details and information can be found

at <http://forum.robotevents.com/design>.

If you have any questions about the challenges, post them on the Online Challenge forum

at <http://www.vexforum.com/forumdisplay.php?f=352>.

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Many colleges and universities, professional associations, and corporations offer college scholarships to high school students on *FIRST* teams. This is official recognition of the knowledge and technical and life skills these students have gained from participating in a *FIRST* competition. For 2011, over **128**

scholarship providers are making available over **853 individual scholarship opportunities** with a total value of over **\$14 Million!**



Location: _____
School Contact: _____

Make this Poster Visible to Students

Post in Math Room

- Post in Science Classrooms
- Post in Team Workspace
- Post in Guidance Office
- Post in Cafeteria
- Post in Activities Office
- Post in Computer Lab

The link is available on the FIRST Scholarship page.

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MATE Underwater Robotics Program

The Championship event will take place this June at the Johnson Space Center in Houston, Texas.

The focus for this year will have something to do with the oil spill in the Gulf from last spring. I believe more information will be available in the very near future. Look for another update in my next newsletter.

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Information on Service Academy and ROTC

Do you have students who are interested in applying to the US Naval Academy or to the Naval Reserve Officer Training Corps (NROTC)? They can learn more about these opportunities at a meeting to be held on Tuesday, Nov. 23, 2010 from 6-8 pm at the Veterans of Foreign Wars Post, 8107 Canoga Ave, Canoga Park CA. Questions? call Capt Heather Ichord, USMC at 323-369-6541 or email heather.ichord@marines.usmc.mil

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Upcoming Events:

CR HHS SMI VEX Round Up Challenge Nov 13, 2010 Hawthorne High School

Granada Hills/ SME VEX Tournament and Community Open House: Saturday, November 20, 2010

VEX Pan Pacific Games: December 2-4, 2010 Honolulu Convention Center, Hawaii

Los Angeles VEX Competition: Saturday, December 11, 2010 CSUN

Los Angeles FLL Regional: Saturday, December 18, 2010 Chaminade College Preparatory Chatsworth, CA

FRC Kickoff 2011: USC School of Engineering Saturday, January 8, 2011 Location TBD

FRC Pre Ship Scrimmage February 20, 2011 Harvey Mudd to host.

San Diego FRC Regional March 10-12, 2011

Los Angeles FRC Regional March 24-26, 2011

Hawaii FRC Regional March 24-26, 2011

VEX World Championship Walt Disney World
April 14-16, 2011

FiRST Championship St. Louis April 27-30, 2011

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Resources:

FIRST www.usfirst.org

VEX www.vexrobotics.com

Robotevents www.robotevents.com

Carnegie Mellon Curriculum
<http://www.education.rec.ri.cmu.edu/roboticscurriculum/index.html>

ROC <http://www.hawaiiroc.org/>

Autodesk Student Community
<http://students.autodesk.com/>

Robot Magazine <http://www.botmag.com/>

Chief Delphi
<http://www.chiefdelphi.com/forums/index.php>



Grants and Fund Raising Ideas:

- ✓ Homeroom Reformers \$5,000 Essay Contest Sponsored by NBC Education Nation. Information can be found at <http://www.nbclosangeles.com/brchannel/103554939.html>
- ✓ Has your team sold Hexbugs? We made \$3,000 just before last Christmas! They make great stocking stuffers. Information at <http://www.vexrobotics.com/fundraising>
- ✓ Intel honors schools as Intel Schools of Distinction for their extraordinary commitment to instituting 21st century teaching and learning environments and for exemplary instruction in math and

science. The 2010 winning schools from six states were announced at a gala celebration in Washington, D.C. Sept. 14. - you can learn more about them here:

<http://www.youtube.com/watch?v=7w0cvPw2FPU>

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Quote for the week:

“An investment in knowledge always pays the best interest.”

- **Benjamin Franklin**

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Reminders:

1. What shape is your crate in?
2. Have your students downloaded Inventor and 3D Studio Max?
3. Have you updated your team website?
4. Have you selected your kickoff site and Kit pick up location for FRC?

Have a great week,

-Nancy Mc

FUTURE Founding Board Member

(My school e-mail is still the best way to reach me during the academic year.)

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nancy@futurefound.org