

FIRSTFare Seminar Schedule

October 31st, 2009

Revised 10/26/09

Time	Seminar	Presenter	Room
9:30-4:30	Robot Display	Veteran teams	Cabell lobby
10:00-10:50	FIRST Facts – Parents Overview	Deb Mumm-Hill (FIRST Regional Director)	Cabell
10:00-10:50	Fundraising	Roger Collier (2550 Head Coach)	Gerlinger
10:00-10:50	Robot design. Brainstorming and Rapid Prototyping with 80/20 and Quickframe	Rohan Jhunjhunwala (1540 Design mgr)	Middle School
10:00-10:50	Creating Winning Websites with Drupal	Devyn Powell (1540 web mgr)	Library Classroom
11:00-11:50	Applying to and paying for college for FIRST students	Jodi Walder-Biesanz (College admission coach)	Cabell
11:00-11:50	Chairman’s Award	Nate Edwards (957 Head Coach)	Gerlinger
12:00-12:50	AutoCAD Inventor Demo	AutoDesk	Gerlinger
12:00-12:50	Creating a Buzz. Marketing for FIRST teams.	Roger Collier (2550 Head Coach)	Cabell
12:00-12:50	Intro to programming in C / C++ for cRIO	Kevin Ellis (1540 SW mgr)	Middle School
12:00-12:50	BunnyBot Q&A	Dale Yocum (1540 Head Coach)	Cabell Lobby
1:00-1:50	Electronics for FIRST Robots (includes beta report on new drivers station)	Tim Bennington-Davis (1425 Mentor) + 488 Beta team members	Cabell
1:00-1:50	Project Management	Ejvin Berry, Tim Christensen (Boeing)	Gerlinger
1:00-1:50	Pit Area Layout and Safety	Henry Gordon (1540 Marketing mgr), Dave Sorrells (Boeing)	Library Classroom
2:00-2:50	Advanced Web Development	Abdurrahman Qadan	Library Classroom
2:00-2:50	Drive Trains for FIRST Robots	Dale Yocum (1540 Head Coach)	Cabell
2:00-2:50	Intro to Java	Andrew Merrill (1540 SW mentor)	Middle School
3:00-3:50	Pneumatics for FIRST Robots	Craig Boezwinkle (WIT engineer and 2811 Mentor)	Cabell
3:00-4:00+?	Java beta team insights	957 Beta team members + Andrew Merrill (1540 SW Mentor)	Middle School

FIRSTFare 2009 Seminar Descriptions

Robot Display

Veteran teams bring their robots for others to learn from. These robots will be on display in the lobby of Cabell Center for the duration of the event. Feel free to ask dumb questions and pick up ideas. No one will mind...promise.

FIRSTFacts – Parents Overview

FIRST Robotics can be a life altering experience for students. This session will give parents and others new to FIRST an idea of what the program is about and its impact. Presenter: Deb Mumm-Hill, FIRST Regional Director.

Apply to (and Paying for) College for FIRST Students and their Families

Select Colleges and Universities around the country are providing scholarships and admission preference to students with a FIRST robotics background. This session will help you leverage your FIRST experience to get into the best school for you. Presenter: Jodi Walder-Biesanz, College Admission Coach.

Fundraising

This presentation will cover the how-to's of getting and retaining sponsors. It includes tips on writing grant proposals, presenting to potential sponsors, and keeping your sponsors updated about your team's progress. This is especially useful for new teams, but students and mentors from veteran teams are also welcome. Roger Collier, Head Coach Oregon City Team 2550.

Robot Design. Brain Storming and Rapid Prototyping with 80/20 and QuickFrame

Learn how best to approach the daunting task of designing a robot. From prototyping suggestions to appropriate use of robotic components, this seminar will provide you will all the know-how you need to make the idea in your head become reality. It will also cover the proper usage of 80/20 and Quickframe, a lightweight aluminum framing system that will allow your prototyping to be done efficiently and with little effort. Come see what designing a robot is all about! Presenter: Rohan Jhunhunwala, Manager of Design, Team 1540

Creating a Buzz. Marketing Your Team

How to create a media buzz for your team while gaining mentors and sponsors at school, in your community and in business circles. You will see examples and ideas for contacting different groups as used by team 2550. In their Rookie Year 2550 won "Rookie All Star" at the Portland Regional, last year they won Engineering Inspiration at Seattle. See how they did it. Presenter: Roger Collier, Head Coach Oregon City Team 2550.

Pit Area Layout / Safety FIRST

Two talks for the price of one!

Safety FIRST

Safety in the real world starts at knowing your personal responsibilities. Learn about hand and power tool safety and how to avoid hand and finger injuries. Learn about the importance of maintaining a safe work area and housekeeping. Become a better safety coach and help each other change risky behavior. Presenter: David Sorrels, Boeing

Pit Area Layout

Your pit area is a window others have into your team. Help judges and other teams take you seriously by taking your pit area seriously. Presenter: Henry Gordon, Marketing Manager for Team 1540.

BunnyBot Q&A

Those taking part in the Dec 19th BunnyBot Scrimmage can meet, share ideas, and get questions answered about this friendly competition. The various field pieces will be on display. See what those Bunny's look like! This is held at the far end of the lobby of Cabell Center near the robot displays. Dale Yocum, Head Coach of Team 1540, and host of the scrimmage, will be on hand.

Electronics for FIRST Robotics

An introduction to the control system both from a hardware and conceptual standpoint. Learn what the Input and Output capabilities of the cRIO are. You may have heard the Driver's Station is changing this season to a Classmate PC. Hear from the beta testers what they've discovered. Presenters: Tim Bennington-Davis Mentor of Team 1425 and Representatives of team 488 xbot, a beta team from Seattle, for the new hardware and Labview.

Project Management

Project management is the organization, planning and management of group resources toward a specific, time-based goal; a discipline which many organizations fail to use effectively. Project leaders will learn to use concepts employed by Project Managers such as work breakdown structure, task dependencies and critical path. Following these and other concepts will not only allow teams more time and energy to complete the design and build process, but will allow a greater share of resources for necessary support functions like fundraising, sponsor relations, community outreach and earning awards. Presenters: Ejvin Berry, Tim Christensen, Boeing Corporation.

Drive Trains for FIRST Robots

A multimedia comparison of various drive platforms for FIRST robots. This session compares 2 wheel, 4 wheel, 6 wheel, Mecanums, treads. We'll look at the various transmissions available to FIRST Teams. Vendors such as IFI, Skyway, and AndyMark will be discussed and audience members will share their experiences. Presenter: Dale Yocum. Robotics Program Director, Catlin Gabel School Team 1540.

AutoCAD Inventor Demo

See what all this AutoCAD Inventor fuss is all about. This breezy introduction will give you a sense for what the program can do and, hopefully, inspire you to try it for designing parts of your robot. Presenter: Justin Hoey, AutoDesk

Chairman's Award

The Chairman's Award is the highest award bestowed to a FIRST Robotics Competition Team at the Regional and Championship competitions. It is an honor given to the team that best represents FIRST and its Ideals, through examples of community service, recruitment, mentoring and gracious professionalism among other great team attributes. Discussion will include but not be limited by example activities, writing style, presentation tips, sample questions and why the award is important. Presenter: Nate Edwards, alumni and head mentor Team 957. His team won the 2002 Rookie All Star award, and Chairman's award in 2003 and 2005.

Introduction to C/C++ Programming

The new control system is a big step up for all FRC teams. This session, designed for those who have some C or Java programming experience, will discuss getting started programming the controller in C/C++. Presenter: Kevin Ellis, Software manager for team 1540.

Pneumatics for FIRST Robots

An introduction to the pneumatic parts used on FRC robots, engineering challenges and possible solutions. Calculations related to pressure, cylinder, compressor and force and torque needs will be introduced. Presenter: Craig Boezwinkle, Fluid Applications Engineer, Western Integrated Technologies, WIT is a distributor, manufacturer, and integrator of Pneumatic and Hydraulic systems.

Creating Winning Websites with Drupal

Get the word out about your team in a high impact way. See how a winning website is put together and managed using the free content management software, Drupal. Presenter: Devyn Powell, Webmistress for team 1540. Devyn's website, www.team1540.org, won Best Website at the Oregon Regional in 2008 and 2009 and in Las Vegas in 2009.

Advanced Web Design

Have some web experience on your hands? Great! Learn some advanced techniques on how to present your information efficiently, ideally, and attractively. Learn the hot spots of a page, the best navigation techniques, and the design elements of a web site. After this presentation, you will have the ability to determine the what, where, and how of a website. Moreover, part of this presentation will include some cool tricks and tips using the AJAX technology to impress all your viewers. Presenter: Abdurrahman Qadan, college mentor for local robotics teams and software developer for local firms.

Introduction to Java

Teams will be able to use Java this year. If you've never programmed in Java before, this session will give you a high level idea of what the language looks like and what this object orientation stuff is all about. Presenter: Andrew Merrill, Computer Science Instructor at Catlin Gabel School and software mentor for team 1540.

Java Beta Team Insights

Team 957, from West Albany, OR, was chosen as the NW team to beta test Java. Hear their insights about this new language and what they've found so far. Presenters: Representative from team 957. Andrew Merrill, Computer Science Instructor for Catlin Gabel School and mentor team 1540 will be on hand to discuss concepts as needed.