

TRR - Presentations, Workshops, & Meetings

Saturday, July 28, 2012

10:00 am - *Meeting Room*

CTxRA (Central Texas Robotics Alliance)

Jane Young, Mentor - Team 418

All interested mentors and adults are invited to attend. The discussion will focus on some short term goals and some long term goals as decided by the Alliance membership. There be discussion about a logo design contest, including rules and deadlines involved. You are free to come and go as team demands dictate.

11:00 am - *Meeting Room*

Business Plan Best Practices

Mentors/Members - Team 2468, 2789, & 3320

Representatives from 2012 Regional Entrepreneurship Award winning central Texas teams will discuss how to develop and create a successful Business Plan. Attendees are encouraged to ask questions.

10:00 am - *Auditorium*

Robot Design (Part 1)

Scott McMahon, Mentor - Team 2468/Texas Instruments

This workshop covers build season Pre-Week 1 and Week 1 team and robot design activities. Topics covered include tying game strategy to robot design, decision making, and design flow. Part 1 is based on Andy Baker's presentation from TRR 2011. Part 1 is intended to complement Part 2.

11:00 am - *Auditorium*

Robot Design (Part 2)

Joe Hershberger, Mentor - Team 2468/National Instruments

This workshop covers the technical aspects of robot component design, including motor and gearbox characteristics, torque and power, and design considerations for subcomponents (arms). Part 2 is based on Dr. Ken Stafford's presentations at recent kickoff workshops. Part 2 is intended to complement Part 1.

1:00 pm - *Meeting Room*

NEMO (Non-Engineering Mentors Organization) - <http://www.firstnemo.org/>

Jane Young, Mentor - Team 418

We will be having a NEMO meeting for interested mentors and adults who help to support the teams in the non-engineering aspects of the team. The meeting will highlight Best Practices in several areas of team development and sustainability. Jane will be sharing some of the discussion from the NEMO at the 2012 Championship Event at this meeting. You are free to come and go as team demands dictate.

1:00 pm - *Auditorium*

Strategy & Design Panel Discussion

Mentors/Members - Team 118, 148, & 1477

Representatives from three of Texas' historically most successful teams will discuss aspects of strategy and design that they believe have lead to the development of their strong engineering and competition programs. Attendees are encouraged to submit questions to the discussion moderator.

2:00 pm - *Auditorium*

CAN (Careers and Academic Network) Talks

Mark McDermot - Electrical Engineering Research Fellow, The University of Texas at Austin

Matt Scherer - President, Scherer Communications

Paul Forderhase - Principal Mechanical Engineer, Varian Semiconductor - Applied Materials

Emulating the riveting TED talks, CAN Talks are geared to engage, inspire, and inform the FIRST community and beyond about the exciting possibilities in STEM careers. These 15 minute presentations at TRR will focus on general topics of electrical engineering, mechanical engineering, and using social media as a career tool.