



Engineering Careers Panel: Motorsports Engines

Hosted by  **UNC CHARLOTTE**
The WILLIAM STATES LEE COLLEGE of ENGINEERING

Date: Monday, March 27, 2017

Where: UNC Charlotte, NC Motorsports and Automotive Research Center,
Duke Centennial Hall, Room 345 - 8415 Phillips Rd, Charlotte, NC 28223

Cost: SAE student members and guests \$0.00

Event Schedule: 6:00pm – 6:30pm Attendees arrive, Refreshments available
6:30pm – 7:30pm Panel/Presentation – Duke 345
7:30pm – 8:00pm Panelists available for further questions

Three engineers from Roush Yates Engines will be answering questions about their education and career path. The panel is intended help engineering students understand more fully what type of real-life applications there are for the education they are receiving, so that they can have more direction upon graduation.

Christopher Spock
Valvetrain Engineering Manager



Christopher Spock currently leads the Valvetrain design, development, testing and modeling activities at Roush Yates Engines. He received his BSME from the University of Tennessee in 1994. There he competed in the SAE Hybrid Electric Vehicle challenge before joining Roush Industries in Michigan. Mr. Spock spent 10 years at Roush Industries where he directed engine testing to improve reliability, performance, and efficiency for both internal and OEM clients. He later moved to Roush Yates Engines when the two companies combined their NASCAR engine programs in 2004. Over the years, Mr. Spock has been fortunate enough to work with other talented engineers, artisans and assemblers who together have produced numerous race and championship winning engines.

Brett Manwill
Cranktrain & Reliability Manager



Brett graduated from the University of Utah, Magna Cum Laude, with a Bachelor's of Science in Mechanical Engineering. His first job after College was at Ford Motor Company/Visteon in the Climate Control division. Although he enjoyed the exposure to the Production Automotive Industry he could not deny his passion to be involved in Motorsports. After two years at Ford, Brett took a job with MAHLE in their new US Motorsports Division. At MAHLE he worked as a Piston Design Engineer and Application Engineer. In 2005, Brett joined the Roush Yates Engines team. In his current role he is responsible for design and development of crankshaft, connecting rods, pistons, and bearings. He is also responsible for managing the overall reliability of the engine which includes engine failure analysis as well as ensuring that all engine reliability issues are tracked and resolved.

Jeff Dickinson
Trackside Calibration Engineer



Jeff Dickinson graduated from the University of Kansas with a Mechanical Engineering degree. While at college he was involved with Formula SAE and was powertrain team lead. He also had internships with the Transport Research Institute and Procharger. After college, he relocated to North Carolina to work with Roush Yates Engines. He is currently the Lead Trackside Calibration Engineer and travels to each NASCAR race to provide support to Ford Performance teams. This involves monitoring the engine data, applying changes to the calibration (EFI system) and providing reports after each race.

Light refreshments will be provided for attendees.

Please plan to join us and learn invaluable information about career paths!

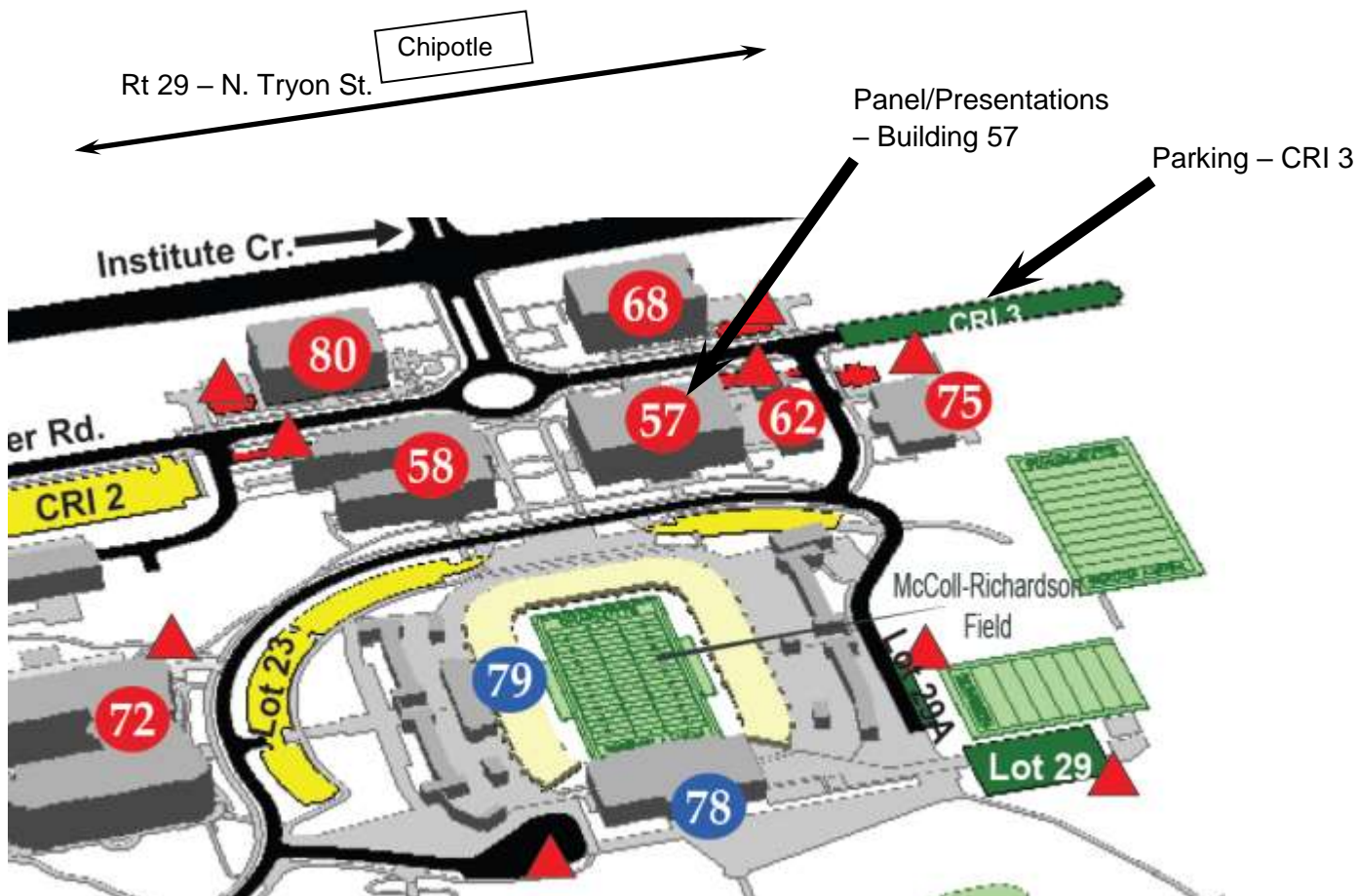
Registration: Please make your reservations online at www.Carolina.SAE.org. Registration must be completed by Saturday, March 25, 2016. *Registered attendees will have first priority for seating/attendance, as capacity is limited.*

Contact for Additional Information: Jennifer LaFever, jlafever@roushyates.com

Important Information: See page 2 for campus map for building location and parking lot.

Parking Instructions

Address:
8415 Phillips Rd, Charlotte, NC 28223 (Building 75)



Park in CRI 3 – at registration you will be given a token to exit

Panel/ Presentations will be in Building 57 [Duke Centennial Hall > Third (Top) Floor > Room 345]