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**NASCAR Nextel Cup:
High Performance Engine Development**

Tuesday, March 21st, 2006 (note special time)



Speaker:

Chuck Jenckes

Engine Department Technical Director
Dale Earnhardt, Inc.

3:30 – 4:30 PM Presentation

4:30 – 5:30 PM Networking Reception

NASCAR Nextel Cup engines are 5.8 liter pushrod V8s, which produce upwards of 800 HP for up to 800 miles, and have a regulated maximum operating speed of 9500 rpm. This lecture will provide a background and technical overview of a NASCAR Nextel Cup Engine, the development process, and will offer a virtual tour of Dale Earnhardt, Inc.'s Engine Development Department.

Location: Caterpillar Technical Center A Auditorium, Mossville: Located on the North-West corner of Old Galena Road and Cedar Hills Drive. From the Route 6, Route 29 intersection, take Rt. 29 North. Your first left (turn lane, but not a stop-light), take a left on Old Galena Road. Cross Cedar Hills Dr., take a left into TC-A visitors parking lot. If you are a non-Cat employee, you must register at the reception desk.

Cost: No cost for this program. No RSVP's are required.

Thank you to our Program Sponsor:

Caterpillar Inc.

For 80 years, Caterpillar has been building the world's infrastructure, and in partnership with our independent dealers, is driving positive and sustainable change on every continent. Caterpillar is a technology leader and the world's leading manufacturer of construction and mining equipment, diesel and nature gas engines and industrial gas turbines.





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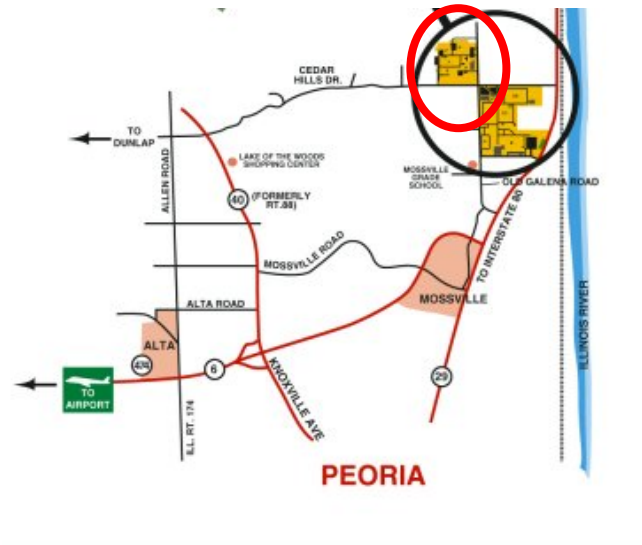
About Chuck Jenckes:

Charles Jenckes has a master's degree in mechanical engineering. His primary field of study has been in thermo-fluid science. He has worked in engine, fuels and lubricants research at both the OEM and supplier level. Mr. Jenckes has completed leading edge work in the mathematical modeling of high performance four stroke spark ignited engines. In Motorsports he has contributed to championships in Road Racing, NHRA Drag Racing, and NASCAR. His primary focus has been Nextel Cup engine development for the last five years. In his position as engine development engineer he serves as a technical resource to DEI's engine shop. Part of Mr. Jenckes' duties includes the introduction of new technology into the engine shop.



Mr. Jenckes has authored articles and technical papers on a wide range of engine topics from combustion and emissions to the use of CAE (Computer Aided Engineering) in engine development. He has received numerous awards for his work and presentations from the Society for Automotive Engineers (SAE).

Map to the event:





Central Illinois Section

Centroid News • January 2006



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Upcoming Program Topics:

Below, find potential program topics for CIS. The Program Team has outlined an outstanding line-up for this year, so keep a look-out for future program announcements:

April: SAE-SWE Leadership Development Seminar

Join us for our 3rd annual SAE-SWE Leadership Development Seminar, as we reflect on building and implementing leadership skills, with presentations from a diverse group of community leaders.

May 9: Columbia Accident Investigation Report & Return to Flight of the Space Shuttle

Bryan Palaszewski, a member of the Combustion Branch, Turbomachinery and Propulsion Systems at NASA's John H. Glenn Research Center, will speak at this dynamic program. It will be held at the Challenger Learning Center in Bloomington.

Lakeview Engineer's Week:

Contributed by Carrie Pickens, Math & Science Chair

Lakeview Museum of Arts & Sciences in Peoria, IL recently held their National Engineer's Week activities on Sunday, February 19 to encourage young children to pursue careers in math, science, and engineering. Central Illinois SAE presented their display/booth and worked with children of all ages to build and test their own jet toy from A World In Motion Challenge I. The activity represented an opportunity to make learning fun, have young students discover the exciting application of science principles and share information about rewarding careers in engineering and technical professions. SAE participation in these programs reflects the substance and values necessary for continued technological growth and helps prepare students for future challenges through personal discovery. Special thanks to the volunteers who assisted with Engineer Week activities on February 19: Brian Call, Dave Haney, Greg Tomlins, Samba Subramanian, and Carrie Pickens.