



TRACKS

TRC INC. TO HOST AUTOMOTIVE NEWS PACE INNOVATION FORUM JUNE 19, 2002

Transportation Research Center Inc. is proud to host the Automotive News PACE Award's Innovation Forum at The Ohio State University's Fawcett Center in Columbus, Ohio, from 8:45 am to 3:30 pm. on June 19, 2002.

The Forum's speakers will tie together this year's theme, "Winning Through Innovation" and how it serves to recognize the importance and value of innovation in the automotive industry. Two keynote speakers will highlight the day's activities: Ohio Governor Bob Taft will speak on "Ohio's Automotive Infrastructure and How It Can Support Innovation" and The Ohio State University President Brit Kirwan will present "Academia's Importance to Innovation." Peter Brown of Automotive News will be the Master of Ceremonies. Additional speakers will include selected 2002 PACE Award winners, who will present how they developed the strategies and corporate culture to foster their award-winning innovations.

The Innovation Forum serves as the kick-off to the 2003 Pace Awards. "PACE" is the acronym for Premier Automotive Suppliers' Contribution to Excellence. Established in 1994 by Automotive News, the PACE Award honors automotive suppliers who have embraced innovation or adapted and reinvented themselves to meet the demands of the OEM customer. This prestigious award sets the standard for innovation and excellence and has become a significant industry credential. Annually, hundreds of automotive suppliers around the globe submit their innovative products, designs, and ideas to compete for this distinguished award. The list of winners, selected by a panel of independent judges of former automotive industry executives, is among the "Who's Who" of the automotive world.

The Innovation Forum is sponsored by Automotive News, Transportation Research Center Inc., Honda of America Manufacturing, The Ohio State University's Center for Automotive Research and Intelligent Transportation, and Cap Gemini Ernst & Young.

Scheduled Speakers & Forum Topics

- Governor Bob Taft, State of Ohio**
Ohio's Automotive Infrastructure and How It Can Support Innovation
- President Brit Kirwan, The Ohio State University**
Academia's Importance to Innovation
- John Adams, Honda of America Manufacturing**
HAM Flexibility & Innovations in Manufacturing
- Stephanie Brown, Goodyear Tire & Rubber Company**
2002 PACE Awards Winner Presentation
Rubber Wrangler MT/R Computer Modeling Accelerating & Validating Innovation
- Dwight Morgan, POM Group**
2002 PACE Awards Winner Presentation
Direct Metal Deposition and Tooling
- Jeff Owens, Delphi Delco Electronics Systems**
2002 Pace Awards Winner Presentation
Passive Occupant Detection System PODS II
- Giorgio Rizzoni, Center for Automotive Research and Intelligent Transportation at The Ohio State University**
Interpretation of Research in Innovation
- Jeroen Verdenious, CAP Gemini Ernst & Young**
An International Approach to Innovation

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PACE
AWARD
Innovation
Forum

(TRC Inc. to Host . . . continued)

Scott Whitlock, PACE Judge

A Judge's Perspective on Innovation

Mike Wujciak, CAP Gemini Ernst & Young

History and Overview of PACE Awards

Registration is by invitation only, and the cost of the program is free. If you would like information on how to attend the forum, call Jeffrey Sprague at Transportation Research Center Inc. at 1-800-837-7872x349.



NEW CALIBRATION SERVICES

As an ISO 9001 registered company, TRC Inc. has established three primary quality objectives: to provide timely, accurate, and well planned and organized services.

Among the activities we perform to help ensure we meet these objectives is the maintenance of an inventory of calibrated test and measurement equipment. Understanding how essential calibrated equipment is to our customers, TRC Inc. is now offering calibration services to them for their own equipment. Currently calibration services are available for:

- accelerometers
- load cells
- pressure gages and transducers
- anthropomorphic test dummies
- position transducers
- electrical measuring instrument calibration, including digital multimeters and temperature meters
- torque wrenches

TRC Inc.'s calibration equipment:

- Vibration and shock equipment
- Reference load cells
- Digital and multi-meter equipment

For more detailed information about our calibration services, please visit our website at www.trcpg.com, and click on instrumentation calibration services. Please call us today for a quotation.



LETTING LIGHT IN, KEEPING INTRUDERS OUT

Ethereal, crystalline, delicate, fragile. Strong, impenetrable, shatter-proof, flexible. Aren't those characteristics diametrically opposed? Not when they are used to describe glass. Like hot fudge and ice cream make a delicious sundae, laminated glass's qualities have also evolved from a blend of characteristically opposed ingredients into a concoction that can help contain vehicle occupants, withstand hurricane windblown debris, and prevent intrusion by thieves. Glass has so changed it is now referred to as "glazing material." Laminated glass products helped hold aloft the Olympic flame glass cauldron in Salt Lake City and were also used in the soaring barrel-vaulted glass roof of Philadelphia's Kimmer Center for the Performing Arts.

In addition to award-winning architectural uses, the same glazing technology is integral to the comfort and safety features of window glass in vehicles, planes, commercial and government buildings, and homes. TRC Inc. provides testing for safety glazing for both automotive and architectural uses.

Laminated glass has been used in the windshields of vehicles since the 1950's. For the most part, it has not been used in the door glass or sidelights of vehicles. The material of choice here has been tempered glass, primarily due to the cost factor. Tempered glass offers little intrusion resistance, and sidelights provide ready access to a vehicle and its contents. Since automotive

break-ins continue to rise and the public has an increased awareness of security, manufacturers are actively pursuing various approaches to address these concerns. The introduction of laminated sidelight glass has served to offer better resistance to break-ins and increased security. It is also seen as a passive restraint safety feature to mitigate occupant ejection during a crash.

TRC Inc's Static Fixtures Laboratory has the capability to test to SAEJ2568, Intrusion Resistance of Safety Glazing System for Road Vehicles. SAEJ2568 consists of three invasion-type tests for the evaluation of various sidelight glazing system designs installed in motor vehicles. These three tests include use of a spring-loaded punch, impact pendulums, and hydraulic loads. Since intrusion resistance performance is determined not only by the glazing but also by the glazing attachment to the vehicle and by the vehicle structure, it's logical that this system then be tested as a single unit. Once a glazing system passes the criteria set forth by these three tests, it may be labeled as Enhanced Protective Glazing or EPG.

These same materials that make auto glass safer also enhance its sound-deadening qualities. TRC Inc.'s numerous road surfaces and instrumentation are utilized for evaluating the effects of different glazing compositions on interior noise levels.



TRC Inc. CONVERTS ISO 9001:1994 TO 9001:2000 VERSION

Citing our commitment on customer focus and our factual approach to decision making, the ISO auditor said TRC Inc. is a new benchmark for companies converting from ISO 9001:1994 to the new 2000 version. Aceing our recent fourth surveillance and ISO 9001:2000 upgrade

audit with no nonconformances, TRC Inc. displays evidence that we are continuing to listen to the needs of our customers to improve the quality of our services.

