Delphi and SAE agree to expand technical library into global knowledge center at prominent Chinese University

SAE and Delphi Corp. announce the expansion of their relationship in the Delphi Tsinghua Institute (DTI) in Beijing, China. Delphi and SAE first entered into a five-year agreement with Tsinghua University in June of 1999 to develop the comprehensive DTI-SAE technical library on the Beijing campus. Under the new memorandum that will begin in June of 2004, the expanded facility will be called the “DTI-SAE Global Knowledge Center.” The new and expanded facility will include a full-time staff person, SAE books, technical papers, and standards, and the provision of space and personnel for education and technical training programs.

“Delphi is proud to extend the commitment we made with Tsinghua University and SAE almost five years ago,” said Donald Runkle, Delphi Vice Chairman, Lean Enterprise, and Chief Technology Officer. “The DTI-SAE Knowledge Center will bring the Chinese market an excellent technical resource to develop qualified engineers and technical professionals who can support the phenomenal growth in China’s automotive industry.”

Duane Tiede, 2004 President of SAE, echoes Runkle’s sentiments. “One of the society’s primary goals is to provide capable practitioners to the mobility industries in order to prepare for future advancement. Delphi is an ideal partner for us to ensure the DTI-SAE Global Knowledge Center will be a big step in moving China with some strong momentum into the realm of a worldwide society’s primary goals is to provide capable practitioners to the mobility industries in order to prepare for future advancement. Delphi is an ideal partner for us to ensure the DTI-SAE Global Knowledge Center will be a big step in moving China with some strong momentum into the realm of a worldwide industry.”

SAE launches new Web site

SAE is pleased to announce a redesign of its Web site—www.sae.org. In addition to a new, modernized look and feel, the site has been restructured to more clearly present the organization’s purpose, resources, products, and services. This new look and navigation structure should make it faster and easier for you to find what you need on the site.

Some features of the new site include:

- Direct access to specific industry information via separate automobile, aerospace, heavy-duty, and motorsports “homepages” that can bookmark as their gateway into SAE’s Web site
- Streamlined navigation elements that provide easier access to the products and services you need on the job
- A centrally located search function

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SAE expands services to the automotive community

The automotive industry has seen many predictions for 2004. One prediction that is staying true is that SAE will be introducing a variety of new services and products to its members this year, including the Automotive Resources Institute (ARI), led by Neil Schilke, Managing Director and 2001 SAE President, and Herb Everss, Director, Business Development, was created to benefit the global automotive community by providing leaders and experts to resolve specific technical and business challenges.

“ARI allows industry leaders and experts to extend their careers, stay involved in the industry, and share their knowledge and expertise,” said Schilke. “ARI is bridging the gap between the industry and consultants, creating and fostering mutually beneficial relationships.”

With the full support and endorsement of SAE, ARI is assembling and managing a select group of professionals with a broad range of expertise. Individuals will be pre-screened and registered as ARI consultants. Also, the organization is working with automotive companies to identify specific areas of need. By working with both the industry and consultants, ARI can efficiently provide solutions on a project-by-project basis. This service not only streamlines the process of becoming and marketing oneself as a consultant, but also reduces the cost and time for an organization to identify and secure a consultant with appropriate expertise.

“By leveraging the breadth and depth of SAE, ARI is poised to have an immediate impact on the automotive industry as well as SAE members,” said Ray Morris, Executive Vice President and Chief Operating Officer, SAE. “This service is another example of how SAE is working within the industry to add value.”

Currently, ARI is seeking SAE members who are interested in consulting in the automotive industry, to strengthen its talent pool. In addition, any organization interested in using ARI to address current or future challenges should initiate contact.

ARI is headquartered in the SAE Automotive Headquarters in Troy, MI. For more information regarding ARI, please contact Neil Schilke or Herb Everss at 248.273.4029 or email neilschilke-ari@sae.org or herbeverss-ari@sae.org.
Howard Marmon: SAE’s eighth President

Howard Marmon was an engineer from a family of engineers. His father designed and built flour milling machines and farm equipment in the 1890s. His brother Walter was trained as an engineer and would become an early partner with Howard in the fledgling automobile business. Upon graduation with an M.Eng. from The University of California – Berkeley, Marmon returned to the family business in Richmond, IN, and soon discovered that however profitable flour milling equipment might be, it didn’t hold his interest for long.

Marmon built his first car in 1902 with an air-cooled V-twin engine, and overhead valves. His second car, in 1903, had an air-cooled V4. By 1904, the company found itself immersed in the automobile business, selling six cars. Production increased to 25 cars in 1905, and Marmon began trying different engine configurations.

After an experimental V6, and a V8, he stuck with conventional water-cooled, inline designs for practicality. New Marmons were introduced in 1909, among them the Model S2, which also came in a racing version called the Marmon Wasp because of its yellow color and long, pointed tail. The Wasp established Marmon as a reliable and fast competition machine by winning the first Indianapolis 500 in 1911, driven by Ray Harroun.

Marmon was elected President of SAE in 1913. His tenure was highlighted by the creation of the Research Division of the SAE Standards Committee. At the 1913 meeting in which Marmon took office, the hot-topic technical discussion was titled “With the motor starter, lighting plant, and ignition possible in one unit, will the magneto be discarded?” Marmon continued to design and build popular cars through the 1920s, but his crowning achievement among automobile everywhere came in 1931—the stunningly beautiful, highly advanced V16, a car of awesome performance and impeccable styling. The timing couldn’t have been worse. Luxury cars of any kind were a tough sell in the Great Depression. By mid 1933, Marmon was in bankruptcy, with 86 Sixteens delivered and no more orders on the books.

Howard Marmon’s bad business timing in no way obscures his engineering genius and sense of style. SAE awarded Marmon its annual design award in 1931, and any one of the 400 Marmon Sixteens that were built will always command staggering prices at vintage automobile auctions around the world.

Marmon’s 16-cylinder luxury car debuted at the onset of the Great Depression.
SAE UPDATE PAGE 3 MARCH 2004

WASHINGTON REPORT

SAE co-sponsors second annual Engineering Research & Design Symposium

By Doug Read, Managing Director, SAE Washington, D.C., office

The second annual Engineering Research & Design Symposium will be held on Capitol Hill in downtown Washington on March 8-9, 2004. The event, at the Holiday Inn on the Hill, is intended to raise awareness of the growing shortfalls in federal R&D spending that affects the engineering community. Besides SAE, this event will be co-sponsored by The American Institute of Chemical Engineers (AIChE), the American Society of Civil Engineers (ASCE), the American Society of Mechanical Engineers (ASME), the Institute of Electrical and Electronic Engineers (IEEE), and the American Society of Heating, Refrigeration, and Air Conditioning Engineers (ASHRAE).

The program is intended to take the mystery out of the bureaucratic process and will provide a “heads-up” on the affect of the FY ’05 federal budget on the engineering profession, information on federal R&D priorities, and an overview of how the federal R&D funding will impact the economy, technology jobs, and national security.

Speakers will include: John Marburger III, Director, White House Office of Science and Technology Policy (OSTP); David Trimble, Program Director, Science and Space Programs, Office of Management and Budget (OMB); Kei Koizumi, Director, R&D Budget and Policy, The American Association for the Advancement of Science (AAAS); David Goldston, Chief of Staff, Association for the Advancement of Science (AAAS); and Barry Glogowski, Director of Legislative Affairs, The American Chemical Society (ACS).

Registration process change at 2004 Congress

A new registration process is in place for the SAE 2004 World Congress. This year, all categories of attendees—including managers, technical program committee members, and boards—must register. Attendees can pre-register by February 13 to avoid onsite registration fees.

This change will enable SAE to better manage data, help adopt a more targeted approach to marketing, and ultimately provide members with improved products and services.

For advance registration, visit the SAE Congress site at www.sae.org/congress, or call SAE Customer Service at 877.SAE.CONG (724.772.4227 outside U.S./Canada). SAE/STS members attend this conference free, and non-members pre-registering by February 13 can save up to $250.

DoD, Department of Homeland Security, and the National Science Foundation are the agency R&D priorities will take place on the second day for The National Science Foundation, NASA, the National Institute for Standards and Technology (NIST), DoD, Department of Homeland Security, as well as the Departments of Transportation and Energy, and the Environmental Protection Agency (EPA).

Additional information can be found at www.engineeringpolicy.org.

DOT announces proposal for reforming federal fuel efficiency program

A proposal for strengthening a federal program aimed at increasing fuel efficiency, improving safety, and protecting the nation’s economy was announced recently by U.S. Department of Transportation Secretary Norman Mineta.

The Department’s National Highway Traffic Safety Administration (NHTSA) issued an advance notice of proposed rulemaking seeking public comment on a host of Corporate Average Fuel Economy (CAFE) reforms aimed at revising and modernizing fuel economy standards to balance America’s need for better fuel efficiency while maximizing auto safety and maintaining a healthy economy.

In April, the agency successfully increased fuel economy standards for light trucks for model years 2005-2007, the first increase in fuel economy standards in 20 years.

“Today’s advance notice is another important step in America’s commitment to improving fuel efficiency and cutting emissions that contribute to global warming,” said NHTSA Administrator Norman Mineta.

“Today’s advance notice is another important step in America’s commitment to improving fuel efficiency and cutting emissions that contribute to global warming,” said NHTSA Administrator Norman Mineta.

SAE International

“*The premier society dedicated to advancing mobility engineering worldwide*”

Government/Industry Meeting

May 10-12, 2004
Lakeside Plaza Hotel • Washington D.C.

Each year over 600 technical authorities from government, industry and academia assemble to address the most pressing issues in ENERGIE—alternative powertrains and their 2004 update; THE ENVIRONMENT—diesel emissions, climate research, its role in reducing pollution, and SAFETY—crashworthiness, crash avoidance, harmonization...key areas where technology and policy significantly affect one another.

This year’s theme, Government/Industry: Partners for Progress, focuses on that strong connection.

Keynote speakers include:

- John H. Davis, President/Host/Creator, Motorweek (invited)
- Jeffrey W. Runge, Administrator, NHTSA (invited)
- Thomas C. Stephens, Director, Sloan Automotive Laboratory, MIT
- Richard Zalesky, President, Honda Business University, Chenoweth/Vauses Technology Ventures Company

Larry Burns, Vice President R&D, GM (invited)

High visibility sponsorship and tabletop display opportunities are available!


http://www.sae.org/govind
Congress Foundation Lounge provides haven to relax and regroup

The SAE Foundation Lounge at SAE’s World Congress has become a destination for contributor members. It’s an area where they can make phone calls to the office, have one-on-one meetings, network, and just take a break from the hectic pace of activity at Cobo.

“The Foundation Lounge is one way we can thank our many contributors,” said Veronica Meury, Director, SAE Foundation. “Finding a quiet spot to gather your thoughts and make a few phone calls can be a challenge at Cobo. The Foundation staff is on hand to make our contributors comfortable and to extend our gratitude to them for all they do to support our many educational programs.”

In addition, you can learn more about A World In Motion on Wednesday, March 10, 2004 from 10:00 to 11:00 a.m., when Kathleen O’Connor Byrne, K-12 Education Manager, presents an interactive demonstration about this program.

The SAE Foundation Lounge is open from 8:00 a.m. to 5:00 p.m., Monday through Thursday, March 8-11. The lounge is located in Congress Central W260.

For more information about the Foundation Lounge, contact Ginny Whipple in the Foundation office at 724.772.5893.

Updated UNS reference now available online

Metals and Alloys in the Unified Numbering System, previously available as a print and CD-ROM from SAE, is now also offered as a web-based subscription. The new UNS on the Web product includes new and updated data since the publication of the ninth edition of the book and CD-ROM in 2001.

UNS on the Web will be updated quarterly, enabling subscribers to receive the most recent UNS numbers and descriptions, designations, sources & models, materials; active noise & vibration; control; SEA systems & sensors, and methods; reliability and maintenance models; powertrain components; instrumentation; design; vibro-acoustic analysis; acoustic; noise & vibration sources & models; materials; active noise & control; diesel engine noise; standards; and off-road/ recreational vehicles.

The web subscription also includes an enhanced search function, allowing searches by UNS numbers, descriptions, trade names, cross reference organizations or specifications, and chemical composition. Users can also browse listings via a series of 18 designations for metals and alloys. In total, UNS on the Web includes more than 5000 UNS numbers, 7300 trade names, and 13,300 cross-references. The Unified Numbering Systems for Metals and Alloys (UNS) was developed to provide a means of correlating many different numbering systems used internationally to identify the thousands of metals and alloys in commercial use. It provides the uniformity necessary for efficient indexing, record keeping, data storage and retrieval, and cross-referencing.

UNS on the Web is available for $820 (SAE member price). To begin your subscription, or for more information, call 724.772.7144.

6-11 meeting scheduled

The U.S. Army Research, Development, and Engineering Command from Picatinny, NJ, has announced the launch of a new culture-changing initiative as it co-hosts the next SAE G-11 Reliability, Maintainability, Supportability, and Logistics (RMSL) Division and Probabilistic Methods Committee Meeting, March 1-3, 2004 at The Westin in Morristown, NJ. The event will look to revolutionize the RMSL aspects of systems engineering and the life-cycle management culture of the U.S. Army and its industrial base.

The meeting will provide an industry/government/forum to review RMSL technology; reliability and probabilistic technology; reliability-based design methods; software reliability; and maintainability standards. The U.S. Army and SAE G-11 anticipate 150-250 attendees, with at least 100 existing members, including members with national/international standing.

The event will be highlighted by numerous keynote speakers from the Office of the Under Secretary of Defense, Mark Schaeffer, the Director of Systems Engineering (final commitment expected), as well as the Department of the Army, including the Deputy Chief of Staff for Logistics, Lieutenant General C. V. Christianson. Other distinguished keynote speakers from the Army include U.S. Army TACOM Commanding General, Major General N. Ross Thompson III, the Program Executive Officer (PEO) for Intelligence, Electronic Warfare & Surveillance (IEWS) Edward Bair; and the Program Manager for the Army’s Future Combat Systems (FCS), Brigadier General Donald Schenk. Additionally, distinguished speakers from industry, academia, and government labs include Rex Geveden, Deputy Director of the Marshall Space Flight Center; David Swain, Executive Vice President and Chief Operating Officer of Integrated Defense Systems, Boeing Co. (invited); and Eric Van Marcke, Distinguished Professor, Princeton University.

Four Strategic Issue Sessions have been arranged to address reliability and maintainability technology for the Army, industry, and academia. The meeting will also offer a dual-educational session, which includes at least four hours of educational tutorials taught by several world-renowned pioneers and practitioners in probabilistic technology.

During the event, the Reliability Committee and Probabilistic Methods Leadership Council (PMLC) will launch the National Culture Change Planning processes and Roadmap development. The effort is an extension of the Army’s Transformation Reliability Improvement Program, or ATRIP, which has the goal of changing the RMSL culture of the Army and its industrial base through advanced tools, methods, technologies, and best practices. Probabilistic technology is one of the technologies viewed by the Army and SAE G-11 as crucial for this culture changing phenomena to succeed.

A new G-11 Reliability Applications Committee, under the lead of David Gorsich from U.S. Army TACOM, will focus on advanced RMSL methods, which will be used for Army ground vehicles and equipment. The committee will address issues of uncertainty, durability, and reliability of ground vehicles. The work will provide value to both the DOD and the automotive industry by working to standardize methodologies and facilitate the commercialization of such applications and products. These new tools are expected to improve the reliability and quality of vehicles, enabling warranty extension for commercial vehicles, and reducing maintenance and logistics issues for both industry and the military.

Participation on any one of these groups within G-11 is open to all. For more information on the Army and National Culture Changing initiatives, contact Bob Kuper at bjkuper@us.army.mil. The Reliability Applications Committee, contact David Gorsich at GorsichD@tacom.army.mil or K.K. Choi at kkchoi@ccad.uiowa.edu; G-11 technical matters, contact Suren Singhal at Surendra.N.Singhal@nasa.gov; and for registration for the meeting, contact SAE G-11 Representative Kerri Rohall at kerrir@asa.org. To ensure your active participation, please register immediately by contacting the SAE technicalcommittees@eforms@1-1.sae.org.
Meetings and symposia schedule

For more information about meetings and symposia, call SAE Customer Service toll-free at 877.606.7323 (724.776.4970 outside the U.S. and Canada). Additional meeting details can be found on SAE’s website at www.sae.org/calendar/meetings.htm; symposia details at www.sae.org/calendar/toptecs.htm.

SAE Ground Vehicle Design & Manufacturing Events

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<tr>
<th>Event</th>
<th>Date</th>
<th>Location</th>
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<tbody>
<tr>
<td>SAE 2004 World Congress</td>
<td>March 8-11, 2004</td>
<td>Detroit, MI</td>
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<tr>
<td>Frontiers of Automotive Telematic Systems Symposium</td>
<td>April 20-21, 2004</td>
<td>Troy, MI</td>
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<tr>
<td>Automotive Dynamics, Stability &amp; Controls Conference and Exhibition</td>
<td>May 4-6, 2004</td>
<td>Detroit, MI</td>
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<tr>
<td>Designing Electronic Powertrain Controls</td>
<td>May 4-6, 2004</td>
<td>Austin, TX</td>
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<td>Government/Industry Meeting</td>
<td>May 10-12, 2004</td>
<td>Washington, DC</td>
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<td>Nanotechnology - Inner Value Symposium</td>
<td>May 11-12, 2004</td>
<td>Pittsburgh, PA</td>
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<td>Statistical Energy Analysis (SEA) Symposium</td>
<td>May 11-14, 2004</td>
<td>Troy, MI</td>
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<tr>
<td>Highway Vehicle EDR Symposium</td>
<td>June 3-4, 2004</td>
<td>Ashburn, VA</td>
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<tr>
<td>Fuels &amp; Lubricants Meeting &amp; Exhibition</td>
<td>June 8-10, 2004</td>
<td>Toulouse, France</td>
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<td>Digital Human Modeling for Design and Engineering (DHME)</td>
<td>June 15-17, 2004</td>
<td>Rochester, MI</td>
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<td>Automotive Alternate Refrigerant Systems Symposium</td>
<td>June 29-July 1, 2004</td>
<td>Scottsdale, AZ</td>
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<tr>
<td>Homogeneous Charge Compression Ignition Symposium</td>
<td>August 10-11, 2004</td>
<td>Berkeley, CA</td>
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<tr>
<td>International Body Engineering Symposium</td>
<td>September 21-22, 2004</td>
<td>Troy, MI</td>
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<tr>
<td>Small Engine Technology Conference (SETC)</td>
<td>September 27-30, 2004</td>
<td>Graz, Austria</td>
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<tr>
<td>22nd Annual Brake Colloquium &amp; Exhibition</td>
<td>October 10-13, 2004</td>
<td>Anaheim, CA</td>
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<td>Convergence 2004</td>
<td>October 18-20, 2004</td>
<td>Detroit, MI</td>
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<tr>
<td>DoD Maintenance Symposium &amp; Exhibition</td>
<td>October 25-28, 2004</td>
<td>Houston, TX</td>
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<tr>
<td>Powertrain &amp; Fluid Systems Conference &amp; Exhibition</td>
<td>October 25-28, 2004</td>
<td>Tampa, FL</td>
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<tr>
<td>SAE Commercial Vehicle Engineering Congress and Exhibition</td>
<td>October 26-28, 2004</td>
<td>Metro Chicago Area, IL</td>
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SAE Aerospace Design & Manufacturing Events

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<tr>
<th>Event</th>
<th>Date</th>
<th>Location</th>
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<tbody>
<tr>
<td>General Aviation Technology Conference &amp; Exhibition (GATC)</td>
<td>April 20-22, 2004</td>
<td>Wichita, KS</td>
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<tr>
<td>Aerospace Friction Stir Welding Symposium</td>
<td>June 10-11, 2004</td>
<td>Albuquerque NM</td>
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<tr>
<td>Digital Human Modeling for Design and Engineering (DHME)</td>
<td>June 15-17, 2004</td>
<td>Rochester, MI</td>
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<tr>
<td>DoD Maintenance Symposium &amp; Exhibition</td>
<td>October 25-28, 2004</td>
<td>Houston, TX</td>
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<tr>
<td>Aerospace Manufacturing and Automated Fastening Conferences &amp; Exhibit</td>
<td>September 21-23, 2004</td>
<td>St. Louis, MO</td>
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*Meetings at which SAE seminars will be conducted.

Every year
a new event

Watch this column for the latest developments as industry creates SAE 2004.

• Congress Parking Made Easier with Advance Parking Reservations
  We’ve lessened your parking headaches at SAE 2004 with three convenient options from SAE and the Detroit Municipal Parking Department. Select parking facilities at or near Cobo Center will accept advance parking reservations at a cost of $15/day. Visit the Congress web site at http://www.sae.org/congress/parking for details.

• SAE Honors Convocation Luncheon
  Help honor engineers who have contributed to the advancement of automotive engineering by purchasing your ticket for the SAE Honors Convocation Luncheon taking place Tuesday, March 9. Dr. Jack E. Thompson, 2003 SAE President, will be presiding.

• Record OEM and Supplier Participation
  SAE 2004 World Congress features the largest technical program in history, with more than 1500 papers scheduled to be presented. A record number of these presentations - approximately 50% - will be from representatives of the industry’s OEMs and major suppliers, including 25 of the top 30 suppliers.
  Number of Papers authored by OEMs: 439 - up 35% from 2003
  Number of Papers authored by Suppliers: 221 - up 21% from 2003

• New Registration Process for Congress
  This year, all attendees must register for Congress (including members, participants, committees, boards). Make the most of every technology-filled minute and skip registration lines at Cobo Hall by registering before the event. Visit http://www.sae.org/congress/about/register/
Tickets available for Honors Convocation Luncheon

Help honor engineers who have contributed to the advancement of automotive engineering by purchasing your ticket for the SAE Honors Convocation Luncheon. SAE’s 2004 Fellow Grade inductees will be recognized as well as several other distinguished award recipients. The luncheon is scheduled for Tuesday, March 9, 2004 from 11:30 a.m. to 1:30 p.m. at Cobo Center, First Level, W1-52.

Charlotte E. Wiley of Cummins Power Generation has been selected to receive the 2004 SAE/WEC BREEED Award for Women’s Leadership in the field of engineering. The award will be presented during the Honors Convocation at the SAE World Congress in Detroit on March 9, 2004.

The WEC/BREEED Award is designed to honor women in the mobility industry based on the contributions they make both professionally and personally. It recognizes women who have demonstrated outstanding performance in several key areas including providing leadership, contributing technical or engineering achievements in the mobility industry, and displaying innovation and uniqueness in achieving corporate and personal goals.

Wiley is a mechanical engineer/technical advisor with Cummins Power Generation where she is involved with a major Six Sigma Project. She has 25 years of mechanical engineering, team leadership, and technical project management experience at major corporations, including General Motors Fuel Systems Division, MDT Biologic Co., Xerox, Safetran Systems, Boston Scientific SCIMED, and Carl Zeiss. Career milestones include her work at General Motors Fuel Systems Division in designing and delivering to production three major new fuel systems: the Rochester Products closed loop carburetor, the Rochester Products/Robert Bosch port fuel injection system, and the Rochester Products maxi throttle-body injection system. During her time at Xerox, she won an award for an invention proposal to detect and prevent illegal use of the color copier system. She also led the pre-charge erase subsystem team in the implementation of significant new photoreceptor lighting technology.

Wiley has been an active member of SAE for 25 years. She has served on both the Western New York Section Board and Twin Cities Section Board. In May 2002, she attended the national Section Officers Leadership Seminar when she returned to Minneapolis to serve as the local chairperson for the 2002-2003 program year.

Wiley has a bachelor’s degree in mechanical engineering from Rochester Institute of Technology.

Benjamin Loop receives the 2002 Charles M. Manly Memorial Medal

Benjamin Loop is the recipient of the 2002 Charles M. Manly Memorial Medal. Loop was presented with the award at the 2003 Aerospace Congress & Exhibition in September.

This annual award, established in 1928, recognizes the author(s) of the best paper relating to theory or practice in the design or construction of, or research on, aerospace engines, their parts, components, or accessories, at a meeting of the society or its sections during the calendar year. The award commemorates the contributions made by Charles M. Manly, SAE’s President in 1919, to the field of aeronautical engineering.

Yasuhiro Matsui receives the 2002 Ralph H. Isbrandt Automotive Safety Engineering Award

Yasuhiro Matsui, a researcher in crash safety with the Japan Automobile Research Institute, has been selected to receive the 2002 Ralph H. Isbrandt Automotive Safety Engineering Award. The award will be presented on March 9, 2004 during the Honors Convocation at the annual SAE World Congress in Detroit, MI, USA.

This award, established in 1972, recognizes individuals for their outstanding contribution to SAE literature, which advances the field of automotive safety engineering. The award honors the late Ralph Isbrandt, 1967 SAE President, who contributed significantly to automotive safety engineering, and inspired young engineers to seek a career in mobility engineering.

Matsui is being recognized as the lead author, along with co-authors Adam Wittke and Atsushi Kinomoto, for the SAE technical paper “Comparison of Pedestrian Subsystem Safety Tests Using Impactors and Full-Scale Dummy Tests.”

Since joining the Japan Automobile Research Institute in 1994, Matsui has contributed to the development of test methods and tools to assess vehicle aggressiveness as a means to improve the safety performance of the front vehicle structure. The research is intended to find ways to reduce the number and severity of pedestrian injuries in traffic accidents.

Matsui received his doctorate in engineering from the Graduate School of Engineering of Nagoya University in Japan.
The recipients are being recognized for their accomplishment in developing and implementing a unique CAE durability prediction method for MIG and laser welds, a method currently used by Ford Motor Co. and several of its subsidiaries in vehicle development.

SAE is pleased to announce that a team of engineers lead by Hari M. Agrawal, Senior Technical Specialist with Ford Motor Co., has been selected to receive the 2003 Henry Ford II Distinguished Award for Excellence in Automotive Engineering. Team members are Ramamohan Petukutchi and Parambakatoo R. Perumalswami, both of Body Durability at Ford Motor Co., and Pingsha Dong, Research Leader and Technical Director of the Center for Welded Structures Research for Battelle Memorial Institute. The award will be presented on March 9, 2004, during the Honors Convocation at the 2004 SAE World Congress in Detroit, MI.

This award, established in 1988, recognizes an individual or team who uses their engineering skills to achieve product or manufacturing process contributions that have had the greatest positive effect on the passenger car, truck, and bus industries. The award, funded by Ford Motor Co., honors the memory of Henry Ford II and the enormous impact he had on the automotive industry.

The recipients are being recognized for their accomplishment in developing and implementing a unique CAE durability prediction method for MIG and laser welds, a method currently used by Ford Motor Co. and several of its subsidiaries in vehicle development.

Hari M. Agrawal has been with Ford for more than 25 years, holding both research and design positions with a focus on durability and fatigue. Prior to joining Ford, he worked as a Project Engineer for Fruehauf Corp. in Detroit, MI, Blitz Corp., Chicago, IL, and Eureka Auto Radiator Products in Chicago, IL. He is an active member of SAE and serves on its Fatigue Design and Evaluation Committee. Agrawal has been recognized by Ford with 17 different awards, including the prestigious Henry Ford Technology Award by Ford Motor Co. A resident of Farmington Hills, MI, Agrawal received his bachelor’s degree in mechanical engineering from the University of Jodhpur in India. He also has a master’s degree in mechanical engineering from Illinois Institute of Technology in Chicago, IL.

Parambakatoo R. Perumalswami has been with Ford Motor Co. for more than 25 years in management of CAE development, training, consulting, and applications. He has made significant contributions in automotive body and chassis structures, and has taught a finite element structural analysis, both at Ford and at several U.S. universities. Perumalswami received a B.E.C.E. degree with honors from the University of Madras in India. He also holds a doctorate in structural engineering from the University of Minnesota.

Pingsha Dong’s research interests include design and analysis methods for welded structures, advanced computational procedures for welding/joining process simulations, and fatigue/fracture behavior of welded structures, and residual stress and distortion mitigation techniques. He has published more than 150 papers in peer-reviewed journals and conference proceedings and has received numerous awards for his work. In addition, he serves as editor or reviewer for a number of international journals. Since 1994, he has been elected as the U.S. Delegate to International Institute of Welding (IIW) to Commissions X on Fatigue and Fracture Control of welded structures. Dong has both bachelor’s and master’s degrees in welding engineering from Harbin Institute of Technology in China. He also has a master’s degree and doctorate in mechanical engineering from the University of Michigan in Ann Arbor.

William C. Brubaker to receive Outstanding A World in Motion Volunteers

This award, established in 2003, recognizes volunteers who further students’ understanding and experience in math and science by helping teachers use the AWM materials in the classroom. The nominee must be a volunteer who has assisted a teacher integrating the AWM program and must have participated in classroom activities during the current academic year. The award honors William G. Agnew, retired from General Motors Research Laboratories, for his work in establishing and continued support of the AWM program.

Brubaker’s career spanned 25 years with Martin Marietta in military and commercial aircraft work, three years with Bellcomm on the Apollo and Skylab programs, and 20 years with the National Highway Traffic Safety Administration (NHTSA) where he helped develop crash protection standards for passenger cars and school buses. Since his retirement from NHTSA, he received a citation in recognition of his superior achievement in developing the technical and legal foundation for improved side-impact crash protection for passenger cars.

Brubaker is a member of the American Institute of Aeronautics and Astronautics (AIAA), and has been an SAE member for 21 years. He established the AWM Program in Maryland, and has presented sessions. Brubaker has a bachelor’s in aeronautical engineering from Tri-State College. He is a licensed professional engineer in the State of Maryland.
Gary L. Boyd receives the 2002 Wright Brothers Medal

Gary L. Boyd has received the 2002 Wright Brothers Medal. Boyd was presented with the award at the 2003 Aerospace Career Expo & Exhibition (ACE) in September 2003. This award, established in 1927, annually recognizes the author(s) of the best paper(s) relating to the invention, development, design, construction, or operation of an aircraft and/or spacecraft presented at a meeting of SAE or any of its sections. Consideration is given to the value of the author's contribution to the state of the art in furthering flight technology, whether it pertains to aircraft or spacecraft systems or their parts, components, or systems, or accessories. The award honors Orville (an early SAE member) and Wilbur Wright, the first successful builders and operators of heavier-than-air flying aircraft.

Boyd is President and Owner of Ceramic Engineering Consulting (CEC), Inc. His work focuses on advanced ceramic components and systems for the aerospace industry. Boyd is a current member of SAE. He has an Airframe and Powerplants (A&P) License and an Airline Transport Pilot (ATP) License. He graduated from Texas A&M University with a bachelor's degree in mechanical engineering and one in materials science.

Narayan Yoganandan to receive 2004 Arnold W. Siegel International Transportation Safety Award

Narayan Yoganandan of the Medical College of Wisconsin has been selected to receive the 2004 Arnold W. Siegel International Transportation Safety Award. Yoganandan will be presented with the award on March 9, 2004, during the Honors Convocation at the annual SAE World Congress in Detroit, MI.

This award, established in 1987, recognizes outstanding international research, innovation, and contributions to crash injury protection, biomechanics, and design for all mobility vehicles for land, air, sea, and space. The award honors Arne Siegel, SAE Fellow, whose pioneering crash injury research began in 1954 at the University of California-Los Angeles.

Yoganandan is Professor and Chairman of biomedical engineering in the Department of Neurosurgery at the Medical College of Wisconsin in Milwaukee. He is also Adjunct Professor of biomedical engineering at Marquette University in Milwaukee. He teaches courses in impact biomechanics, trauma, crash reconstruction, and mathematical modeling, and has presented more than 150 peer-reviewed papers worldwide, including numerous national briefings.

A researcher and author, Yoganandan's studies focus on the biomechanics of trauma to the head, face, neck, spine, chest, abdomen, pelvis, and extremities using experimental and computer modeling. He has been teaching and training clinicians in these areas for more than 15 years. He has published more than 400 scientific papers, including 150 peer-reviewed journal articles and more than 40 book chapters. Yoganandan is on the editorial board of several clinical and engineering journals, and serves as a reviewer for numerous journals. He is also the senior editor of two recent books: 'Advanced Concepts in Head and Neck Trauma' (2008) and 'Clinical and Biomechanical Frontiers in Whiplash Trauma' (2008). He is also a distinguished author of more than 150 peer-reviewed journal articles, including numerous national briefings.

Career development opportunities at SAE 2004

If you're looking to hire or be hired, the SAE 2004 World Congress offers several ways to help you network to find the right company or professional to meet your needs. Learn about succeeding in the automotive industry at the SAE Career Development Session on Tuesday, March 9, 1:30 pm to 3:30 pm, Room W2-65, Cobo Center. Hear valuable tips from featured speakers Steve Dulie, Director, Human Resources, Ford Motor Co.; and Shane Stefancik, Vice President, Human Resources, Arotek.

Stop by the Career Center now located in Congress Central, Room W2-60 and check out the many job postings available and post your resume for free. Those wishing to display their resumes should bring 50 copies directly to the Career Center Monday- Wednesday, 8:00 a.m. to 5:00 p.m. and Thursday, 8:00 a.m. to 4:00 p.m.

If you are interested in nominating an individual for the SAE 2004 Clifford Garrett Turbomachinery Engineering Award Lecturer, visit www.sae.org/awards/ aerospace/2004. Additional information and a nomination form. Nomination deadline is March 31, 2004.
March membership renewal time is here

Check your SAE Membership card...if you have an expiration date of March 31, now is the time to take action and renew for 2004. If you have not already done so, here are your options:

Automatic renewal: This new feature from SAE is perfect for you if you do not want to receive membership renewal reminders every year. You give authorization for SAE to charge your credit card each year at renewal time and SAE will renew your membership automatically. Plus, you’ll save $10 on your membership dues every year you are in the Automatic Membership Renewal program. See shaded box.

Renew online: This is a fast, easy way to renew, and you can save money, too. Reduce your dues from $90 to $85 by renewing on the SAE website. Just log on to www.sae.org/renew. Payments online are by credit card only, and VISA, MasterCard, American Express, and Discover are accepted. To ensure your privacy, your membership renewal will be processed on SAE’s secure server. You will need your login id and password. Call 877.776.4970 or email CustomerService@sae.org for id and password help.

You can save time and money by renewing online, but you save even more time and even more money by enrolling in SAE’s Automatic Membership Renewal. See shaded box.

Renew by mail: If you have not yet received a renewal notice in the mail, call 877.606.7223 to request one. Complete your membership renewal form and mail it along with payment, either credit card or check, in the envelope SAE provides.

Renew by phone: Call 877.606.7223 in the U.S. and Canada, 724.776.4970 from other countries, and an SAE Customer Service Representative will assist you.

Renew by fax: Fax your completed form and credit card payment information to 724.776.0790. To prevent duplicate charges, do not also mail the completed form to SAE.

Save time and money renewing your membership by enrolling in SAE’s Automatic Membership Renewal

Save $10 on your membership every year with Automatic Renewal.

If you never want to receive another renewal notice from SAE, Automatic Membership Renewal—the society’s newest renewal feature—is for you. Here’s how it works: With your authorization, SAE charges your credit card every year at renewal time and your membership is renewed automatically. You will receive no renewal notices in the mail or by email, which means no forms to fill out and no forms to return. Instead, you will receive notice from SAE that your credit card has been charged and that your membership has been renewed for another year.

There are two very important benefits from Automatic Renewal: First, you will not receive any renewal notices and reminders from SAE, and, second, you will save $10 on your dues every year you are in the Automatic Renewal program. Of course, you may withdraw from the program at any time and return to the traditional membership renewal process. Call 877.606.7223 for details.

You can save time and money by renewing online, but you can save even more time and money by enrolling in SAE’s Automatic Membership Renewal.
PROFESSIONAL DEVELOPMENT

Seminar emphasizes safety design, specification writing

With safety recalls continuing to be a costly problem for companies in the automotive industry, the SAE seminar “Designing for Safety and Developing Accurate Safety Specifications” focuses on how significant cost savings can be achieved through creative design practices.

“Safety has a very high return on investment if companies would look at the real life cycle costs of unsafe products and use creativity in design,” said seminar instructor Dev Raheja, author of the books Product Assurance Technologies: Principles and Practices and Creativity: The Art of Doing Right Things Right.

“Many safety recalls are the result of incomplete, vague, or poorly written engineering safety specifications,” said Raheja, an international consultant specializing in design assurance technologies. In the two-day seminar, he emphasizes techniques for writing clear, accurate safety specifications, as well as design practices that focus on inherent product risks very early in the design process, thereby leading to reduced accidents and lower costs.

In addition to exploring the creative techniques used by many successful engineering managers, seminar attendees will engage in several hands-on activities where they practice balancing intuitive vs. logic-based design considerations.

The “Designing for Safety and Developing Accurate Safety Specifications” seminar will be held April 19-20 at SAE Automotive Headquarters in Troy, MI. It will again be offered on September 23-24. For more information or to register, visit www.sae.org/ seminarsinfo, or call SAE Customer Service at 877.606.7323 or 724.776.4970 (outside U.S. and Canada).

SAE Continuing Education and Training Programs earn esteemed authorization status

SAE is proud to announce that its professional development and engineering education programs have earned “Authorized Provider” status, as recognized by the International Association for Continuing Education and Training (IACET).

This designation is awarded by the IACET Commission, a body that is widely respected in defining and maintaining specific guidelines for providing quality continuing education units (CEUs). IACET has conducted a strict and comprehensive evaluation of SAE’s educational processes and programs. This analysis has concluded that SAE is in compliance with proven, research-based criteria created in cooperation with the U.S. Department of Education, and that SAE also demonstrates a strong dedication to high quality standards for continuing education and training.

As an Authorized Provider, SAE can now award the IACET CEU, regarded by many as the hallmark of quality in continuing education and training.

According to David Cameron, Chairperson of the SAE Continuing Professional Development Group, and Chief Technologist, By-Wire Chassis, General Motors Corp., “The attainment of the IACET Authorized Provider status validates the long tradition of excellence that continuing education and training has had within SAE. This further recognizes SAE as a high quality, value-driven provider of technical educational products in this increasingly competitive environment.”

SAE offers a variety of educational opportunities in several formats, including courses presented at the SAE Automotive Headquarters in Troy, MI. For additional information regarding SAE Professional Development and Training programs, contact Kevin Perry at 724.772.7502 or visit www.sae.org and select the training option.

Internal combustion engine and catalytic converter seminars to be released on CD-ROM

Due to the success of the Diesel Engine Technology e-Seminar, SAE plans the release of two additional e-Seminars (electronically delivered seminars) this spring. The well-established, two-day SAE classroom courses, “The Basics of Internal Combustion Engines” and “Catalytic Converters: Design and Durability,” will be available for delivery on CD using full-motion video illustrated with synchronized presentation slides.

The Basics of Internal Combustion Engines e-Seminar featuring instructor William Mark McVea will examine the fundamental characteristics, operational principles, and component applications of modern internal combustion engines—from hydrocarbon fuel ignition to volumetric efficiency. Instructors Ron Heck and Suresh Gulati team up for the Catalytic Converters: Design and Durability e-Seminar. The program will cover topics from the early development of catalytic converters and the key inventions that made them viable to the recent advances in converter technology required to meet the ever stringent emissions regulations for both light- and heavy-duty converters.

Convenient, portable, and with content not reliant on live Web connectivity, e-Seminars offer a new way to receive the same instruction without the need to travel to a fixed location and at added expense or to spend time away from the home and office. Preceded by a self-quizzz, content is presented in a series of modular topics that allow the student to progress through the course at their own pace. Navigation is granular to a slide as revisiting a specific concept or using the table of contents to select a starting point is easy. A handout accompanies the CD to complete a ready-reference package available whenever a refresher is needed.

Upon conclusion of the course, students have an opportunity to take an online post-test to gauge proficiency in the topics, receive continuing education units (CEUs), and obtain a certificate of completion.

For more information, to view demo clips, or to purchase an SAE e-Seminar, visit www.sae.org/content/distance.htm.

SAE 2004 World Congress SEMINARS

www.sae.org/congress/seminars/

Some 30+ seminars in core technology areas will be offered in conjunction with the SAE World Congress. Record numbers attended last year’s seminars. Ensure your spot. Register by February 27.

Seminars will again be held on-site at Cobo Center—allowing you to experience more of the technology of SAE 2004.

STUDENT ACTIVITIES

2004 Clean Snowmobile Challenge scheduled

The SAE Collegiate Design Series: 2004 Clean Snowmobile Challenge is approaching. The event, hosted for the second year by Jay Meldrum, Director of Keweenaw Research Center, Michigan Technological University, located in Houghton, MI, will be held March 15-20.

The Clean Snowmobile Challenge competition is designed to challenge engineering students to re-engineer an existing snowmobile for improved emissions and noise while maintaining the performance characteristics of the original snowmobile. The modified snowmobiles are also expected to be cost effective.

Houghton, MI specifically the Keweenaw Peninsula, is a snowmobiler’s dream and a perfect location to conduct such a collegiate competition. Hence why it is the chosen location of this year’s Clean Snowmobile Challenge. Snow is not measured in inches or counted by days here, instead it is measured in feet and it stays around for months. And the average winter temperature on the Keweenaw Peninsula is a little warmer than what one might expect at approximately 20-30 degrees.

As far as the course goes this year, organizer Jay Meldrum states that at this year’s event the endurance race will be run on local snowmobile trails, specifically the trail from Twin Lakes to Copper Harbor (Trail #3), although local snowfall and trail conditions will dictate which trail is used. The remainder of the testing will all be done on the private 500-acre test course using snow packed areas groomed by staff.

For more information, check out the SAE Collegiate Design Series Web site at www.sae.org/students/csseventinfo.htm, or you can visit the following two Web sites for additional information provided by the organizer: www.pasty.com and www.mtukrc.org.

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PROFESSIONAL DEVELOPMENT

Courses from SAE

Detailed course descriptions are available online at www.sae.org/contedu. To register, complete the online registration form, email profdev@sae.org, or call SAE Customer Service toll free at 877-696-7320 or 724-776-4970 (outside the U.S. or Canada).
** One of SAE’s 40 most popular seminars.

April 2004
Troy, MI, USA - SAE Automotive Headquarters

Apr 1-2 Controller Area Network (CAN) for Vehicle Applications **
Apr 5-7 Motor Fuel: Technology, Performance, Testing, and Specifications
Apr 5-8 Noise and Vibration Measurement: Instruments and Facilities
Apr 14-15 Powertrain Selection for Fuel Economy and Acceleration Performance **
Apr 16-17 Advanced Engine Development
Apr 18-19 Fundamentals of Engine Oils
Apr 19-20 Designing for Safety and Developing Accurate Safety Specifications
Apr 19-21 Liquid Atomization, Sprays, and Fuel Injection **
Apr 19-21 Geometric Dimensioning & Tolerancing - Level II
Apr 22-23 Adhesive Bonding Technology
Apr 22-23 Design for Manufacturing & Assembly (DFM/DFA)
Apr 23 Engine Cooling Design: A System Engineering Approach
Apr 26 Fundamentals of Sensor Design for Automotive Air Bag Systems
Apr 26 Static And Dynamic Sealing **
Apr 26-27 Brakes - Design & Safety **

New! Turbocharging Internal Combustion Engines

This two-day seminar will cover the basic concepts of turbocharging of modern day gasoline and diesel engines. Turbocharger matching and charge cooling, an integral part of the modern-day air management systems will be discussed as well as associated controls that provide opportunities to optimize engine systems for specific applications. The limitations and future possibilities of present day systems, as well as emerging technologies and their impact on engine/vehicle performance will be presented. The seminar will deal more with the turbocharger-engine interface—matching, benefits, limitations, emerging technologies—and not with detailed turbocharger aerodynamics and design.

CAREER OPPORTUNITIES

It’s easy to place an advertisement in SAE Update. Simply call with your space reservation and fax—or e-mail and save the typesetting fee—your ad copy to Rebecca Wiley:

724/772-7116
724/776-2690
advertising@sae.org

You will be contacted promptly to discuss your ad and to receive details about pricing and deadlines.

Fleet Marketing Manager

Leading equipment supplier in the Commercial Vehicle industry, in the greater Detroit metro area, seeks Fleet Marketing Manager to develop fleet data, contacts and strategy and to provide “Pull-Through” support to grow Company products for North American OE and aftermarket sales. Identify and implement optimal aftermarket fleet marketing strategy for all company products and services, including retrofit opportunities. This is a “hands-on” role with responsibility for client follow-through from corporate purchasing to existing maintenance centers. Requirements: BSME/BE(A (Engineering or Marketing); 7-10 years experience in heavy vehicle (class 6-8) industry; sales/marketing/aftermarket or distribution experience, self-confidence, initiative, team player. Existing client contacts within the industry are needed. Microsoft skills, organizational skills and people sensitivity, willingness to travel (30-50%). OE/Supplier experience in Fleet Marketing/Sales, internationa experience, maturity and sales management experience will also be considered. We offer an outstanding compensation and flexible benefits package, including 401(k) and ESOP. If you are seeking a challenging and rewarding position with a World Class Team, please e-mail your resume to: WNArecruiting@amtd.com Equal Opportunity Employer M/F/DV. Drug Free Workplace and complete background check.

U.S. ENVIRONMENTAL PROTECTION AGENCY

National Vehicle and Fuel Emissions Laboratory

The U.S. EPA’s National Vehicle and Fuel Emissions Laboratory is soliciting resumes for several engineering vacancies. With one noted exception, the engineering jobs described below are located in Ann Arbor, Michigan, a highly desirable community with excellent schools, safe streets, and many cultural, entertainment, and sports opportunities. Salary range for these positions is $46,870 to $94,573, with recruitment bonuses possible. Please note that US citizenship is required.

Hybrid Vehicle Development: Unique opportunity for highly creative, competitive, and dedicated engineers to help design engines and powertrains for the vehicles of the 21st century. Selectees will play a central role with a hands-on engineering team that is developing cost-effective technology for the ultra clean and efficient hybrid/hybrid vehicles of the future—without sacrificing safety, performance, size, pollution control, or affordability. Responsibilities of the team include concept generation, design, development, fabrication, integration, assembly, and testing of cutting edge hybrid/hybrid electric vehicle technology for demonstration vehicles.

Advanced Engine Development: Highly competent, creative and dedicated engineers to serve with our advanced engine development team supporting our advanced powertrain projects. Selectees will have responsibilities for the efficient operation of several advanced engine testing sites and will engage in design and hands-on engineering for control system development and/or state-of-the-art fuel injection systems design. Development and testing will be applied to demonstration of EPA’s clean diesel combustion, multi-cylinder HICC demonstration engines, and EPA’s unique patented free-piston engine technology.

ADVANCED FUELS: Opportunities exist for those with scientific engineering backgrounds and strong communication and interpersonal skills who are interested in becoming a part of the dedicated team of professionals which will lead the way to improving our nation’s air quality by supporting fuel regulatory and technology programs. As a member of the Fuels Center team, there will be opportunities to develop fuel quality standards/regulations, assess and evaluate fuel-related emission control technologies and alternative fuel technologies, such as fuel cells, evaluate fuel effects on emissions, conduct environmental and economic impact assessment of fuel control options, evaluate refinery technology and economic issues, evaluate fuel distribution system issues and implications, and assess the impacts of worldwide fuel markets and imports on EPA programs.

Diesel Retrofit Programs: Opportunities exist (in either Washington, D.C. or Ann Arbor, Michigan) for individuals with a scientific or engineering background and strong communication and interpersonal skills to join the diesel retrofit program. Selectees will become part of a dedicated team of professionals implementing new, innovative voluntary programs designed to reduce emissions from the existing fleet of diesel vehicles and equipment through the installation of pollution-reducing technology and use of clean fuels. Responsibilities of the Diesel Retrofit Team include providing technical expertise and support to state, local, and tribal retrofit programs in the assessment of the performance of verified emission control technologies that reduce mobile source air emissions.

QUALITY CONTROL: If you are interested in working in a dynamic setting with a highly energetic and dedicated group of individuals an opportunity exists for a highly competent energetic engineering professional to lead our quality control team. Selectee will act as the leader and expert in the implementation of quality systems, expert in regulatory requirements for emissions testing and audit leader and continuous improvement champion. Responsibilities will include development of correlation programs, design, plan and implement quality control processes and procedures throughout the lab and serve as an external point of contact with respect to quality control practices and procedures.

BENEFITS: Benefits include a stable retirement plan, employer matching of 401(k) contributions, choice among a dozen different health care providers (both HMO and traditional), regular salary increases for inflation and seniority, incentive pay for superior work performance, a merit-based system of promotion to higher levels of management responsibility and pay, and a compressed work week (flexible start times and a three day work week every other week and one three day weekend every other week).

Contact: Interested engineers and scientists should contact the NVEFL Human Resources Office. For resumes, the mailing address is U.S. EPA, Human Resources Office, 2000 Travewood Drive, Ann Arbor, MI 48105. The e-mail address is: GROUP NVEFL-HRO@epa.gov An Equal Opportunity Employer.
CAREER OPPORTUNITIES

Put Your Experience To Work... At

STIHL Incorporated produces power tools and averages over 30 product launches per year. We are located on the Atlantic Ocean in the State of Virginia and cover over a half million square feet of manufacturing and warehouse space. STIHL currently has the next opportunity available at its Virginia Beach campus for the following positions:

Unit Manager - Machining

In this position, you will direct and coordinate the manufacturing activities of the Crankshaft, Piston and H-Head Treating Units in compliance with required output and quality standards. The Unit Manger will be responsible for the following:

• Overseeing and participating in the development of the manufacturing, performance, efficiency and product quality standards

• Monitoring output, cycle times and working with departmental managers

• Overseeing and participating in daily production operations

• Participating in the development of production plans

• Serving as liaison to manufacturing engineering in the USA and Germany

• Participating in research, development and design

The successful candidate will have a 4-year college degree and a minimum of 5 years of related experience in high volume production and previous supervisory or management experience.

Process Engineer - Machining

The individual in this position will be responsible for conducting manufacturing engineering assignments to develop new methods, tools and machine design costs estimates and for resolving engineering problems in manufacturing. This position will include working closely with other departments and fulfilling the following:

• Carrying out approved recommendations to include redesign and alterations

• Developing proposals for automation, mechanization, methods and tooling

• Preparing cost estimates and estimating savings

• Participating in time and motion studies

The successful candidate will possess a 4-year college degree in a related discipline and four years related experience that includes:

• Hands-on experience with CNC machining processes

• Experience with OD Grind/ Ring, Multi-axis turning, Swiss machining and rotary transfer

• Knowledge of gauge and fixture design

• AutoCAD 200 or Pro/Engineer

Full benefits and compensation package available. Interested candidates may forward resumes to: Employment@stihlusa.com or E-mail: employment@stihlusa.com.

Commercial Vehicle Systems LLC

Responsibilities/Qualifications:

- CAD/CAE Design Engineer: 1) Four years of experience in relevant design fields is required; 2) Strong mechanical design, firewall and vehicle support system design experience; 3) Experience in the development and refinement of customer/business strategy to grow Bendix content OEM platforms; and Lead the engineering management of customer co-development teams.

- Engineer - Modules: 1) Four year Technical/Science/Industrial Management degree; Minimum of 5 years experience in the field of technical design, firewall and vehicle support system design; 4) Experience in the development and refinement of customer/business strategy to grow Bendix content OEM platforms; and Lead the engineering management of customer co-development teams.

- Quality Engineer: 1) Support the Charging PBT & be the quality focal point for Caterpillar, DDC and Cummins. Support the Controls and New Venture PBTs and be the quality focal point for Caterpillar, DDC and Cummins. Be responsible for the support and development of production systems using lean engineering concepts. Review & approve plans for correction of non-conformance, and support specific direction to suppliers for product manufacturing cost process & performance improvement. Qualified applicants should send resume & verification of req. to: MDCD/ESA, P.O. Box 11170, Detroit, MI 48211-1170, or E-mail: emp@oh.hra.com. 

- Senior Supplier Quality Project Engineer (multiple openings): 1) 40 hrs./wk.; 7 am-4 pm; $67,250 yr. Job requires: Bachelor's degree in Mechanical Engineering & 5 yrs. experience in Job Offered (as an Engineer). Job also reqs.: 1) Experience implementing quality control tools; 2) Exp. implementing lean engineering concepts; 3) Exp. implementing advanced product quality planning; 4) Exp. reducing manufacturing costs; & 5 yrs. exp. as an engineer working in manufacturing operations. Exp. reqs. may be met concurrently during the same 5-year period. Job duties: Perform quality engineering function in all business matters involving purchasing, engineering, marketing, & supplier manufacturing. Provide technical direction in advanced planning, product development, and current problem resolution. Review & direct changes to supplier manufacturing & quality control systems using lean engineering concepts. Review & approve plans for correction of non-conformance, and provide specific direction to suppliers for product manufacturing cost process & performance improvement. Qualified applicants should send resume & verification of req. to: MDCD/ESA, P.O. Box 11170, Detroit, MI 48211-1170, or E-mail: emp@oh.hra.com. 

- Design Engineer - Air Disc Brake: 1) Support the Charging PBT & be the quality focal point for Caterpillar, DDC and Cummins. Support the Controls and New Venture PBTs and be the quality focal point for Caterpillar, DDC and Cummins. Be responsible for the support and development of production systems using lean engineering concepts. Review & approve plans for correction of non-conformance, and support specific direction to suppliers for product manufacturing cost process & performance improvement. Qualified applicants should send resume & verification of req. to: MDCD/ESA, P.O. Box 11170, Detroit, MI 48211-1170, or E-mail: emp@oh.hra.com. 

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- Process Engineer - Machining: 1) Four years related experience in high volume production and previous supervisory or management experience.

- Quality Engineer: 1) Support the Charging PBT & be the quality focal point for Caterpillar, DDC and Cummins. Support the Controls and New Venture PBTs and be the quality focal point for Caterpillar, DDC and Cummins. Be responsible for the support and development of production systems using lean engineering concepts. Review & approve plans for correction of non-conformance, and support specific direction to suppliers for product manufacturing cost process & performance improvement. Qualified applicants should send resume & verification of req. to: MDCD/ESA, P.O. Box 11170, Detroit, MI 48211-1170, or E-mail: emp@oh.hra.com.

At Honda R&D Americas, Inc., you'll be involved in projects that not only excite you, but also turn the heads of an entire industry. Our engineers are designing, testing and using their talents to create the most reliable, durable, and cost-effective automobiles and power equipment concepts of the future. And in the process theyrediscover why they chose this profession — the power to turn today's dreams into tomorrow's products. It's a high-performance, highly rewarding opportunity and we invite you to come along for the ride of your life.

Our success is built with a hands-on approach beginning with concept generation and continuing through the finished vehicle. All this is made easier by our proximity and accessibility to Honda's manufacturing facility.

Be part of the excitement. If you are interested in a career at Honda, send your resume to: Human Resources, Honda R&D Americas, Inc., 21003 State Route 739, Raymond, OH 43067-9705. Fax: 937-645-6337. Email: emp@oh.hra.com. An equal opportunity employer.

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Find out if you are ready!