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HAPPENINGS IN THE COLLEGE OF ENGINEERING & TECHNOLOGY

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Check This Out! - A Century of Technology - In recognition of the one hundredth anniversary of the automobile industry and its close relationship to engineering and technology, Don Slanina has put together a display on the automobile in technology and society. The display includes models of a few historically significant cars including the 1896 Duryea - the first commercially marketed car in the USA. A few mechanical and electrical components along with some sketches and drawings are displayed to make students more aware of how important engineering and technology are to the design and manufacture of automobiles. A number of photographs are also included in the display depicting design and manufacturing functions in the auto industry as well as road construction. The display concludes with a look to the future which includes sketches of future vehicles and photographs of solar powered cars and General Motor's EV1 electric vehicle which is just entering the market place. The display is located in the northwest stairwell of the Engineering Science Building between the third and fourth floors. Don Slanina was assisted by EET student, John Pavlic, in preparing the display.

Co-op Keeps Growing and Growing and Growing by Gerri Sullivan - Cooperative Education students now represent most of the academic departments in the College of Engineering and Technology. Stacey Conner, Electrical Engineering Technology, accepted a co-op assignment at **Taylor-Winfield**. In March, she will be replaced by Thanh Tan Vo, also an Electrical Engineering Technology student. Robert Korchnak, Mechanical Engineering, begins work January 13 at **Techneglas** in Columbus. Colleen Barnes, Industrial and Systems Engineering, accepted a co-op assignment at **Hunt Valve** in Salem. Andrew DelSignore, Mechanical Engineering, begins a co-op at the **Swagelok Company** in Solon, OH, this March.

Several employers new to the co-op program are currently interviewing students. **Bliss-Salem** is seeking Mechanical and Electrical engineering majors. **Keithley Instruments, Inc.**, in Solon, OH, is interested in Electrical Engineering students as well as those with an intensive computer background for co-op positions. **Helco, Co.**, Warren, OH, wants junior and senior Mechanical and/or Civil engineering students for alternating co-op positions. The company also wants to interview Freshman and Sophomore Electrical engineering students. See Gerri Sullivan in Williamson Hall, Room 408 for more information or call (330) 742-1405. You may also e-mail her at gerri.sullivan@ysu.edu.

The December 15 deadline has passed for the summer internship at **American Electric Power**. The company, based in Columbus, OH, is offering \$2345/month to students who will work in St. Albans, WVA from June 2 through August 22, 1997. Housing is provided for students who commute. If you are still interested, contact Gerri Sullivan as soon as possible.

Article Published by Dr. Jack Bakos, Chair/Professor of Civil & Environmental Engineering Department - My article entitled, "Communication Skills for the 21st Century" was published in the January, 1997, issue of the American Society of Civil Engineers' **Journal of Professional Issues in Engineering Education and Practice**.

Ohio Contractors' Association Scholarship Awarded - Stacey Bice Hoover, a YSU Civil & Environmental Engineering senior, was just awarded a \$1000 scholarship by the Ohio Contractors' Association. Stacey competed with other civil engineering applicants from around the state.

Tenure Granted to Faculty - Dr. Jeffrey Ray, Assistant Professor Department of Mechanical Engineering, was informed on December 11, 1996, that he would be granted tenure in his department for the 1997-98 academic year. This decision is based upon the recommendation of the Provost, college Dean, department Chairperson and other tenured faculty peers in his department. His tenure will be effective September 15, 1997.

IEEE Promotion - Dr. Theodore R. Bosela, Assistant Professor and Director of the School of Technology, was promoted to the "Senior Member" level of the IEEE in December 1996.

Dr. Zenouzi Presented A Paper & Chaired A Session At The International Mechanical Engineering Congress & Exposition - Dr. Mansour Zenouzi, Associate Professor, School of Technology, presented a paper titled, "Mathematical Modeling and Optimization of the Immobilized Metal Affinity Chromatography", at the 1996 *International Mechanical Engineering Congress and Exposition*, in Atlanta, Georgia, November 17-22, 1996. The paper was published in the proceedings of the conference. Dr. Zenouzi also chaired a session on "Energy Conservation Measures in Industry," and co-chaired another session on "Concepts of Thermodynamics and Engineering Education."

CERTT - Center for Engineering Research & Technology Transfer - source - The Ohio Alliance For The Environment Newsletter dated Nov./Dec. 1996 - The Center for Engineering Research and Technology

Transfer (CERTT), located on the campus of Youngstown State University in Youngstown, Ohio, is a growing center dedicated to helping improve industry in the Youngstown area. CERTT has quickly and quietly become a valuable resource to the area. Recently, CERTT's most successful program, the Mahoning County Industrial Waste Minimization Project, has gained state-wide attention as a recipient of the Governor's Award for Pollution Prevention.

CERTT's environmental programs are overseen by Laura Lyden, Manager of Environmental and Analytical Services, and Mike Rekestis, Assistant Manager of Environmental and Analytical Services. A team of Youngstown State University Environmental Studies interns and Engineering interns complete the CERTT staff.

The services provided by the CERTT environmental staff include waste minimization services, materials exchange services, environmental compliance assistance and brownfield redevelopment facilitation. All services are confidential, and many are available free of charge. The center also coordinates applied research projects with an environmental focus. Examples of research projects include industrial air emissions factor development and sludge reuse evaluation.

Waste minimization audits are a featured service of CERTT's environmental group. Audits provide a comprehensive analysis of a company's manufacturing process. The objective is to identify a company's waste streams and provide opportunities for that company to minimize waste and to reduce costs. The Mahoning County Industrial Waste Minimization Project (MCIWMP) is a program operated by CERTT that provides audits free of charge to Mahoning County companies through a grant from the Mahoning County Solid Waste Management District (MCSWMD). This project was awarded the annual "Governor's Award for Outstanding Achievement in Pollution Prevention Education, Awareness and Outreach in September of 1996."

The Mahoning Valley Industrial Materials Exchange (MVIME) a component of the MCIWMP, is an active materials exchange service operated by CERTT. A quarterly newsletter is the highlight of the project. The newsletter provides a confidential medium through which waste materials can be transferred between industries for use as raw materials. The MVIME is sent to over 1000 industries in the Mahoning Valley and surrounding areas and is growing consistently. The exchange is also a free service to the industrial community through a grant from the MCSWMD.

CERTT has recently entered into a partnership with the Cleveland Advanced Manufacturing Program (CAMP) to provide manufacturing outreach services to small and medium-sized manufacturers in the Mahoning Valley area. Known as the Advanced Manufacturing Network, this partnership will offer ISO 14000 assistance and an Environmental Compliance Assistance Network, as well as other manufacturing assistance services in the near future. Additionally, CERTT is examining the formation of a partnership with the Center for Hazardous Materials Research to establish an environmental training center capable of providing specialized training for area industries.

For more information about CERTT or any of its programs, please contact the CERTT office at 330-742-2742.