

2013 FIELD TRIPS

Alberici – Sustainable Projects, Green Buildings



Have you noticed the wind turbine on Highway 170 at Page Avenue in St.

Louis? This is your chance to tour **Alberici Headquarters**. The facility has received a LEED Platinum certification by the U.S. Green Building Council and remains one of the highest rated buildings to date in the rating system's history. Alberici formed **Vertegy**, a consulting group, to meet their commitment to sustainable projects and the emerging green building market. Alberici has included everything from a rooftop material made of soybeans to motorized windows to allow for natural ventilation. The facility offsets an

estimated 20% of its utility costs with on-site renewable energy production from a wind turbine and a passive solar hot water system. You will learn about sustainable sites, water efficiency, energy efficiency, renewable materials and more.

www.vertegyconsultants.com

Donald Danforth Plant Science Center Healthy Planet, Plants Research and Training

All human life depends on plants. Given the steady growth of

world populations the current use of unsustainable agricultural practices, we face the likelihood of increasing malnutrition, starvation, and the inevitable social unrest that will accompany such scourges. If we are to survive in a peaceful world, we must urgently look to a new revolution, a revolution in plant science. This revolution must logically arise from a deeper understanding of how plants grow and develop, how they resist disease and drought, heat and cold, and what adaptations must be made to decrease the need for chemical fertilizers and pesticides. The mandate of the **Donald Danforth Plant Science Center** is to lead that revolution. The Danforth Center is an innovative, state-of-the-art building which provides outstanding research and training facilities as well as a library, a lecture auditorium with video-conferencing capabilities, compartmentalized greenhouses, and environmentally-controlled growth chambers and growth rooms. Cameras and cell phones are allowed for taking pictures only. **No cell phone talking or text messaging allowed on the tours.** www.danforthcenter.org



Eastman (formerly Solutia) – Chemical Engineering Connecting Science and Sustainability



Eastman is a global specialty chemicals

company that produces a broad range of advanced materials, additives and functional products, specialty chemicals, and fibers that are found in products people use every day. As a world leader in the diverse markets it serves, Eastman is focused on delivering innovative and technology-based solutions while maintaining its commitment to safety and sustainability. Serving customers in

approximately 100 countries, Eastman had 2011 pro forma combined revenues, giving effect to the Solutia acquisition, of approximately \$9.3 billion. The company is based in Kingsport, Tennessee, USA, and, with the completion of the Solutia acquisition, now employs approximately 13,500 people around the world. For more information, visit www.eastman.com.

Solutia is a market-leading performance materials and specialty chemicals company. The company focuses on providing solutions for a better life through a range of products, including: Saflex® polyvinyl butyral interlayers for glass lamination and for photovoltaic module encapsulation and VISTASOLAR® ethylene vinyl acetate films for photovoltaic module encapsulation; LLumar®, Vista™, EnerLogic™, FormulaOne®, Gila®, VKOOL®, Hüper Optik®, IQue™, Sun-X™ and Nanolux™ aftermarket performance films for automotive and architectural applications; Flexvue™ advanced film component solutions for solar and electronic technologies; and technical specialties products including Crystex® insoluble sulfur, Santoflex® PPD antidegradants, Therminol® heat transfer fluids and Skydrol® aviation hydraulic fluids. Solutia's businesses are world leaders in each of their market segments. With its headquarters in St. Louis, Missouri, USA, the company operates globally with approximately 3,400 employees in more than 50 worldwide locations. More information is available at www.Solutia.com. **Participants need to wear closed-toe shoes. No short pants or capri pants allowed in the plant. No cameras or cell phones allowed.**

www.eastman.com www.solutia.com

Innoventor, Inc. – Engineering Solutions for Process, Production and Product Development

Innoventor is an entrepreneurial design and build company that is diversified in major industries with core competencies in engineering, prototyping, assembly, and testing. Our company goal is to exceed our customers' expectations as a single source company, offering quick, flexible and innovative full turn-key solutions.

Innoventor was founded in 1996 and has grown to a team of over 75 multi-disciplined engineers



capable of providing quick, flexible and innovative solutions in the following industries: Aerospace, Defense, Industrial Automation, Energy, Food and Beverage, Medical, and Engineering Services. Innoventor, Inc. "Innovates for its customers and Invents for itself" through the development of proprietary technology. With its broad depth of knowledge in many industries, Innoventor can help Inventors get their ideas and products to the marketplace. NO CAMERAS !

<http://www.innoventor.net/>

LMI Aerospace, Inc. - Design, Engineering and Program - Management Services

LMI Aerospace, Inc. is a leading provider of design engineering services, structure components, assemblies and kits to the aerospace, defense and technology industries. Through its Aerostructures division, LMI manufactures more than 30,000 products for large commercial, corporate, and military aircraft. Through its Engineering services segment (operated by its D3 Technologies, Inc. subsidiary) LMI provides a complete range of design, engineering and program management services, supporting aircraft lifecycles from conceptual design, analysis and certification through production, fleet support and service-life extension.

www.lmiaerospace.com

Participants need to wear closed-toe shoes. No short pants or Capri pants are allowed in the plant. Turn off cell phones and keep in pocket or purse or they will be collected and held until after the tour. No cameras allowed.



Monsanto - Agricultural Technology



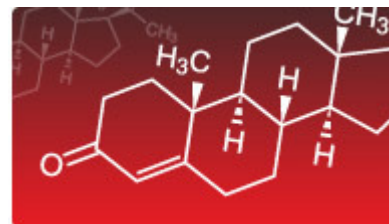
www.monsanto.com

Monsanto is an agricultural company that applies innovation and technology to help farmers around the world produce more while using fewer natural resources. Its mission: to make agriculture more sustainable by working alongside farmers, academics and society to find solutions to feed, fuel and clothe our planet's growing population and needs.

No cameras allowed. Turn off cell phones and keep in pocket or purse or they will be collected and held until after the tour. Participants need to wear closed-toe shoes.

Sigma-Aldrich ~ Life Sciences, Biotechnology

Sigma-Aldrich is a leading Life Science and High Technology company whose biochemical, organic chemical products, kits and services are used in scientific research, including genomic and proteomic research, biotechnology, pharmaceutical development, the diagnosis of disease and as key components in pharmaceutical, diagnostics and high technology manufacturing. Sigma-Aldrich customers include more than 1.3 million scientists and technologists in life science companies, university and government institutions, hospitals and industry. The Company operates in 35 countries and has nearly 9,000 employees whose objective is to provide excellent service worldwide. www.sigma-aldrich.com



Participants need to wear closed-toe shoes. Shorts or sleeveless tops are allowed. No picture taking allowed inside the building.

U.S. Army Corps of Engineers ~ Environmental Protection, Resource Management

The U.S. Army Corps of Engineers' mission on the Mississippi River is sound river management that benefits navigation, recreation, environmental protection and resource management. Each year millions of people travel to the Mississippi River to learn about its history and its impact on our nation. The National Great Rivers Museum at Melvin Price Locks and Dam is dedicated to telling the story of the Mississippi River... from her grand history and cultural significance, to her ecological importance and role as a transportation corridor.

No purses, backpacks, cell phones, or cameras (except disposable) allowed on the lock tour. The tour is partially outdoors so dress appropriately for the weather!

<http://www.mvs.usace.army.mil/Rivers/museum.html>

