



TechFest

TechFest 2006

An Engineers and Scientists Week Event
Celebrating Creativity and Innovation

February 18 & 19, 2006

Saturday (10 AM - 6 PM), Sunday (11 AM - 5 PM)

David H. Ponitz Center (Bldg 12), And AIM Center (Bldg 13)

Sinclair Community College

Free Admission - Free Parking in Ponitz Center and Lot A

Technology Surrounds Us



A Family Oriented Career Exploration Festival Focused on Mathematics, Science, Engineering and Technology

Honorary Chair: Colonel Michael B. Leahy Jr., Ph.D., United States Air Force

- ★ **Fun for youth (Kindergarten through 12th Grade): Participate in “hands-on” science-based exhibits, demonstrations & contests that could be glimpses into your future. Meet adult career models.**
- ★ **Information for parents and adults:**
 - Discover youth interests in new technology. Network with other adult professionals.
 - Learn about professional development opportunities in math, science, engineering and technology.
- ★ **Explore over sixty interactive science and technology demonstrations, exhibits, and games hosted by dedicated volunteers and practicing professionals and prepared by Dayton/Miami Valley professional societies, universities, industry, Air Force, and NASA. (Each interactive exhibit meets one or more Ohio Proficiency Standards)**
 - Find out what it's like to work in math, science, engineering or technology career fields.
 - Learn what courses and studies are needed for these careers.
 - Discover why courses in math and science are important to your future.
 - Learn about science and engineering of **Aerospace Systems** from Lockheed-Martin Corporation.
 - See how science and engineering affects **NASCAR** performance.
- ★ **Learning is Fun!! Enjoy “on stage” entertaining programs on science and technology:**
 - Get excited with **Dr Dave Willey**, University of Pittsburg (a frequent guest on the Jay Leno Show).
 - Experience Dayton's science and chemistry by **Professor John Fortman** from Wright State University, sponsored by the American Chemical Society.
 - Get first hand information on space travel from **NASA Astronaut, Tracy E. Caldwell**.
 - Learn from **Colonel Michael Leahy, Jr.** about preparing for a technical career.
 - Interact with **Jim McCutcheon** when **the Guitar Man** does science!
 - Talk with **Thomas Edison about inventing, design and marketing** (played by **Hank Fincken**).
 - Learn what a **test pilot** does and what you need to study to become one. (Major “Ditch” Walters, USAF).
 - Become creative. Learn problem solving from the **Dayton Inventors Council**.
 - Attack technology and human engineering problems of MOON, MARS, AND BEYOND with the MARS society.
- ★ **Participate in hands-on technology demos by volunteers from across Wright-Patterson Air Force Base!**
 - Talk with **“Wizards of Wright”** (practicing engineers and scientists from Wright-Patterson AFB).
 - See fundamentals of aerospace **technology in action** from experts from the Air Force Research Laboratory and American Institute of Aeronautics and Astronautics (AIAA).
 - See and learn about the FIRST LEGO League Robotics. Learn how to prepare for Science Fair – borrow laboratory equipment. Explore Educational Outreach Programs available for schools.
 - **Visit and tour the Wright-Patterson AFB Tech Trek Bus. Scanning Electron Microscope (SEM) - See objects magnified 50,000 times, and other magnification instruments.**



- ★ See, hear, and smell a replica 1903 Wright Flyer Engine built by HMT Hessler Machine Tool.
 - ★ Specific features for science, math and computing teachers.
 - Participate in free accredited science based in-service workshops: • Explore the details of a NASA Education Exhibit, • See many offerings available through the Wright- Patterson AFB Education Outreach Office, • Discover the role of waves in our everyday lives from the ASC Waves Sciences Kit, • Learn about teaching materials for hands on experiences in basic optics, and • Review the Boonshoft Museum curriculum for Revved Robots and BOE Bot robotics kit.
 - All hands-on exhibits and demonstrations and “infotainment” sessions relate to one or more Ohio Proficiency Standards.
 - ★ Browse the Dayton Area Computer Museum. Examine generations of computer styles and technology.
 - ★ Learn how waves impact our lives. Attend the ASC developed Wave Science Kit demonstrations:
 - Youth, learn how microwave ovens, antennas, cellular phones, & FM radios work.
 - Teachers, discover how these kits can assist in the classroom. Workshop also available.
 - ★ Participate in hands-on scientific demonstrations and learn about area education opportunities from invited Miami Valley colleges and universities:
 - The University of Dayton
 - Sinclair Community College
 - Wright State University
 - Central State University
 - ★ Visit interactive exhibits and demonstrations by Dayton Area science based organizations:
 - Carillon Historical Park
 - Dayton Aviation Heritage National Historical Park, NPS
 - Boonshoft Museum of Discovery
 - National Museum of the United States Air Force
 - ★ Create a painting while learning about the interaction between art and science from Steve Bricker.
 - ★ Visit the Engineering And Science Hall of Fame (A congressionally chartered organization to recognize outstanding achievements affecting society).
 - Tour with interpreters at scheduled times.
 - Learn who has been honored for their discoveries and inventions.
- ★ Free Interactive CD ★ Door Prizes ★ Food court available
- ★ For additional information see <http://www.ascdayton.org/TechFest2006> or contact

Affiliate Societies Council asc@dnaco.net
140 East Monument Street
Dayton Ohio 45402-1267
937.224.8513 (12-4 PM) Fax 937.224.0644

TechFest 2006 Project Chair
Alva Karl, Phone: 937.255.3368 ext 310
Alva.Karl@wpafb.af.mil

TechFest 2006 is conducted by The Affiliate Societies Council of Dayton (a 501 (c) 3 organizations) in partnership with Sinclair Community College and is dedicated to Dayton/Miami Valley Youth who are the future of the Dayton/Miami Valley Area.

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