



## TechFest 2004

An Engineers and Scientists Week Event  
Celebrating Creativity and Innovation

February 21 & 22, 2004

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

Ponitz Center, Sinclair Community College

Free Admission - Free Parking in Ponitz Center

**Honorary Chair, Carl Nichols, 2News (WDTN) Chief Meteorologist**

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

- **Fun for youth (Kindergarten through 12<sup>th</sup> 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, new technology, network with other adult professionals.
  - Discover professional development opportunities in math, science, engineering and technology.
- **Workshops and ideas for science, math and computing teachers.**
- **Meet and talk with “Cady” Coleman, Lt Col, USAF, NASA Astronaut -**  
Explore the details of a NASA Education Exhibit.
- **Learn about the Science, Engineering, Mathematics and Aerospace Academy (SEMAA) - NASA & Sinclair.**
- **Explore interactive demonstrations, exhibits, and games prepared by over thirty professional societies from Dayton and hosted by dedicated volunteers and practicing professionals.**
  - 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.
  - Participate in a **balloon car competition** sponsored by the Society of Automotive Engineers (SAE). Teachers, find out how you can obtain “FREE” Science and Math teaching materials from the SAE.
  - Learn about **science and physics of weather:** American Meteorological Society - Wright Chapter (AMS).
- **Hands-on technology demonstrations 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 LEGO Mindstorm Robot projects and learn about the FIRST LEGO League.
  - 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.**
    - See six other magnification instruments.
- **Inspect and examine Wright State University's innovative Electric Powered Race Car (it competes).**
- **Participate in hands-on scientific demonstrations and learn about area education opportunities from:**
  - The University of Dayton
  - Sinclair Community College
  - Wright State University
  - Cedarville University
  - Wilberforce University
  - Central State University

- **Participate in 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.
- **Learn and enjoy “on stage” entertaining demonstrations on Science and Technology (Learning is Fun):**
  - Experience Dayton's **Innovative Chemistry** by Professor John Fortman from Wright State University, sponsored by the American Chemical Society.
  - Interact with Jim McCutcheon when **the Guitar Man does Science!**
  - Learn from Andy Thurling, Major USAF, **Test Pilot for Wright Brothers Aeroplane Co.**
  - **Thomas Edison** (played by Hank Fincken) brightens the world with entertaining ideas – phonographs, light systems and motion pictures.
  - Learn about innovation and creativity from the **Inventors Council of Dayton.**
  - Participate in creative problem solving with the **MARS Society.**
  - **Check out the Baja competition car**, sponsored by the SAE and Cedarville University.
- **Conducted tours and demonstrations:**
  - Learn about the evolution/revolution of computers in the **Computer Museum** hosted by the Dayton Microcomputer Association (DMA).
  - Daily tours of the **Advanced Integrated Manufacturing (AIM) Center** of Sinclair Community College.
  - Tour the **Heating, Ventilation and Air Conditioning (HVAC) Controls Lab** of Sinclair.
  - Visit the **Engineering And Science Hall of Fame**, a congressionally chartered organization to recognize outstanding achievements impacting society. Learn who has been honored for their discoveries and inventions. Tour with interpreters at scheduled times.
  - See the innovative Seqway (invited).
- **Visit interactive exhibits and demonstrations by Dayton Area science based organizations:**
  - Carillon Historical Park
  - Boonshoft Museum of Discovery
  - Dayton Aviation Heritage National Historical Park, National Park Service
  - Wright Flyer Simulator (invited)
- ◆ Food court available
- ◆ Door Prizes
- ◆ For additional information contact
 

<ul style="list-style-type: none"> <li>• Affiliate Societies Council</li> <li>140 East Monument Avenue</li> <li>Dayton Ohio 45402-1267</li> <li>937.224.8513 (12-4 PM)</li> <li>Fax 937.224.0644</li> <li>asc@dnaco.net</li> <li>www.ascdayton.org/TechFest2004/index.htm</li> </ul>	<p>Audrey Brewer, Project Chair            Phone: 937.904.3102            audrey.brewer@wpafb.af.mil</p> <p>Alva Karl, Project Jr. Chair            Phone: 937.785.3328            Alva.Karl@wpafb.af.mil</p>
--	---

**This community outreach educational event is sponsored by the Engineering and Science Foundation of Dayton and is dedicated to Dayton/Miami Valley Youth who are the future of the Dayton/Miami Valley Area.**

**It is planned and conducted by volunteers from member societies of the Affiliate Societies Council (ASC) of Dayton**