

TechFest 2004

February 21 & 22, 2004

Ponitz Center,
Sinclair Community College

Free
Admission

Saturday (10 AM - 6 PM), Sunday (11 AM - 5 PM) - Free Admission - Free Parking in Ponitz Center



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, 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).



AC



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



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

Honorary Chair
Carl Nichols
2News (WDTN)
Chief Meteorologist

An Engineers and Scientists Week Event
Celebrating Creativity and Innovation

TechFest 2004

February 21 & 22, 2004

Saturday 10 AM - 6 PM

Sunday 11 AM - 5 PM

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 Segway (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

Affiliate Societies Council
140 East Monument Avenue
Dayton, Ohio 45402-1267
937.224.8513 (12-4 PM)
Fax 937.224.0644
asc@dnaco.net
www.ascd Dayton.org/TechFest2004/index.htm

Audrey Brewer, Project Chair
Phone: 937.904.3102
audrey.brewer@wpafb.af.mil

Alva Karl, Project Jr. Chair
Phone: 937.255.3328
Alva.Karl@wpafb.af.mil



This community outreach educational event is supported by the Engineering and Science Foundation of Dayton a component fund group of the Dayton Foundation 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.

Ponitz Center,
Sinclair Community College

Free Admission
Free Parking in Ponitz Center