



TechFest

TechFest 2008  
 An Engineers & Scientist Week Celebration  
 Family Fun with Science and Math Beyond the Classroom  
 Saturday, February 16 10am – 6pm  
 Sunday, February 17, 11am – 5pm



Affiliate Societies Council



Over 60 Hands-on Exhibits and Demonstrations

Science



Over 30 Exciting Presentations by Scientists and Engineers

Technology

Engineering

Math



Eight Teachers' STEM Workshops

David Ponitz Center (Bldg 12), Sinclair Community College  
 Affiliate Societies Council



TechFest

# TechFest



Affiliate Societies Council



- Family Fun with Science, Technology, Engineering and Mathematics (STEM)
- Hands-on Interactive Stem Exhibits with Scientists and Engineers
- STEM Teachers' Workshops
- Door Prizes
- Food Court
- Free Attendance and Free Parking

**Primary Objective:**

**Encourage Youth to Study Math and Science.**



# TechFest 2007 Outcomes



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- **Students Registered:** 2002
- **Time at TechFest** 75% over 3 hours
- **Exhibitors Delivered:** 65 "Exhibits"
- **Presentations:**
  - **Speakers** 14
  - **Presentations** 36
  - **Attendees** 1544 (829 Youth, 715 Adults)
- **Saturday Teachers Workshops:** 8

A good time was had by all

# Over 60 Hands-On Interactive Exhibits & Demonstrations



Life Sciences



Aeronautics



Problem Solving



Practical Physics



Robots



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# Exhibitor Profile



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- 26 College and University Departments
- 18 Professional Societies
- 6 Museums, Historical parks, and similar
- 3 WPAFB organizations
- 3 Industrial Organizations
- 3 Pre-college Youth Organizations
- 6 Miscellaneous Organizations
- 65 Total exhibits on 116 tables representing 66 organizations
- Additional STEM experiences
  - Computer Museum
  - Science and Engineering Hall of Fame
  - ASC Waves Sciences Kit
  - NASA educational exhibit

# Over 30 Info-tainment STEM Presentations



Science of Exploration



Science of Exploration



A Career Path to Flight



Science of Music



Chemistry is Fun



# Typical Presenters



Affiliate Societies Council



Name of Presenter -	Typical Topic
John Fortman, Ph.D.	Demonstrations of Chemistry
Jim McCutcheon "	The Guitar Man Does Science
Jim Fitzgerald-NASA,	NASA Exploration and Human Space Flight
Hank Fincken as Thomas Edison	Engineering and Inventions
Hank Fincken as Christopher Columbus	Technology, Exploration and Discoveries
Greg Parr, IBM	Preparing for a Technical Career
Richard Strode, ASC:	Wave Kit "Waves in the World Around Us"
NASA Astronaut, Invited	Preparing for and Experiencing Space
Society of Experimental Test Pilots:	Engineering a Key to the Sky
Steve Frey-Inventors Council of Dayton	Problem Solving
Mars Society	Moon, Mars and Beyond



# Eight Free Teachers' STEM Workshops CEU's Awarded



Affiliate Societies Council



## Past Workshops

- Engineering into the Classroom;
- A mathematical Carnival;
- FIRST LEGO League (FLL) Robotics;
- Flying Through Ohio;
- Exploring Newton's Laws with Rocketry;
- Emergent Technology;
- Motors, Magnets & Electricity; and
- Reliving the Wright Experience.





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# TechFest

## Is Planned and Delivered by Volunteers



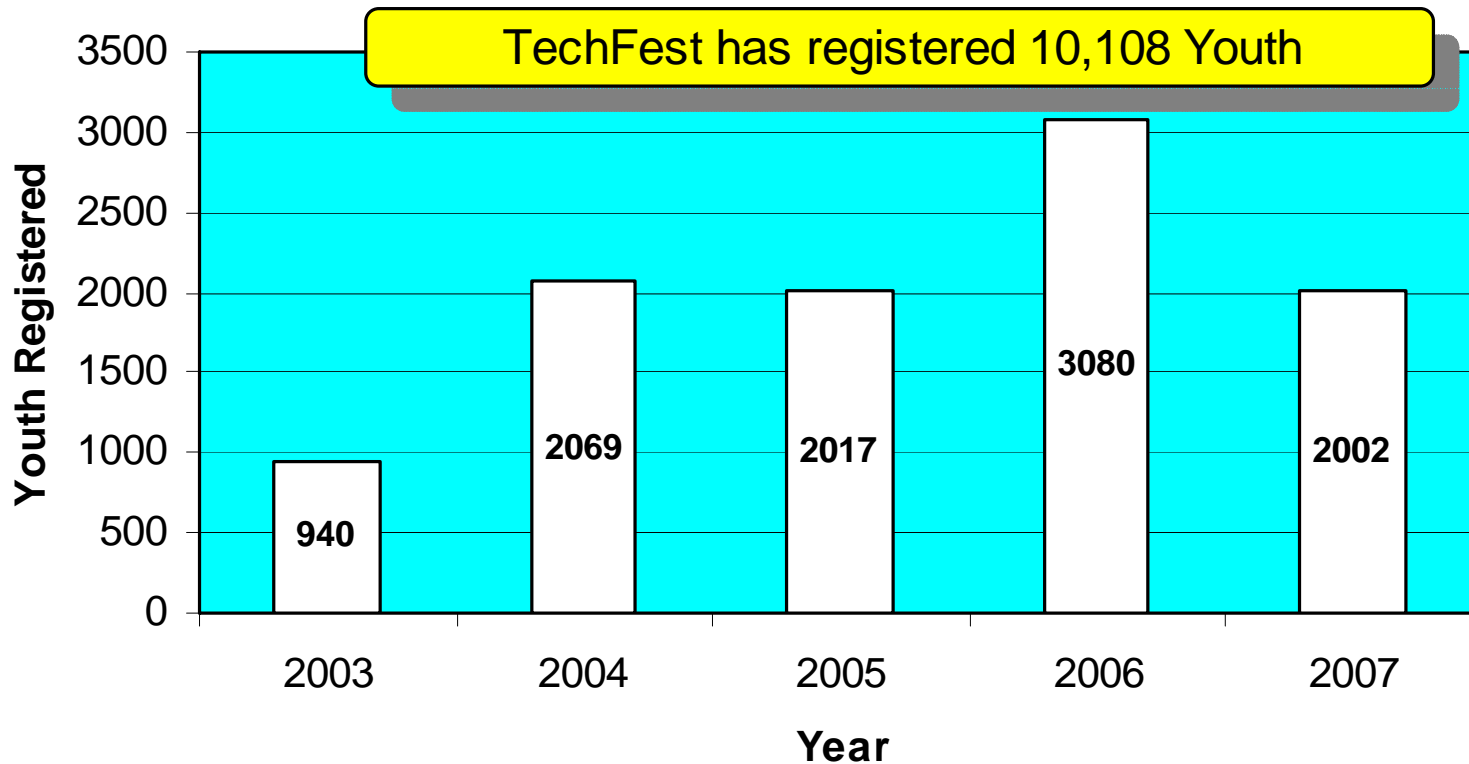
Affiliate Societies Council



- **Planning Team**
  - Volunteers from member societies of the Affiliate Society Council (ASC)
  - Other volunteers
- **Participating Partners**
  - **Joint Air Force Association and TechFest Educators Action Team**
    - Teachers' Workshops
  - **Sinclair Community College**
    - TechPrep Delivery of Teachers and Student flyers to seven counties
    - Project Read
    - Facilities and presenter's Coordination
  - **AVETeC: Clark County Schools**
  - **Miami County Schools Education Resource Center**
  - **Butler County Schools Education Resource Center**
- **Hands-on Interactive Exhibits and on-site registration:**
  - 70 Organizations
  - 500 people 2 days (2600 hours)



## TechFest Youth Participation (Registered)



### Notes for 2007

- Many Greater Dayton/Miami Valley area schools were closed the preceding week due to inclement weather. Thus there was little to no opportunity to make in-school announcements.
- Additionally, Saturday morning of TechFest started with approximately 2 inches of snow.



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# Financial Support TechFest 2007



Affiliate Societies Council



- Air Force Association, Wright Bros. Chapter
- American Physical Society, Dayton Chapter
- ASQ, Dayton Section
- Engineering & Science Foundation
- General Dynamics Corporation
- Greene County Community Foundation
- Lockheed Martin Corporation
- Ohio Space Grant Consortium
- Physicians Charitable Foundation
- SAE, Dayton Chapter
- SAMPE, Dayton Chapter
- UD School of Education & Allied Arts
- Virginia Kettering Foundation
- Member Societies and
- Individuals (6 sources)

Affiliate Societies Council (ASC) is a 501 (c) (3)  
Charitable Organization (Educational)



# How you can help



Affiliate Societies Council



- Kids
  - Come to TechFest
  - Bring friends, neighbors, relatives, youth groups
  - Tell others about TechFest
- Teachers
  - Register for Teachers' Workshops
  - Encourage youth to participate
  - Bring your family
- Adults
  - Propose to bring a hands-on, interactive STEM based demonstration, exhibit, game, or exercise supported by practicing professionals in STEM or closely related fields
  - Volunteer to help with promotion, flyer delivery, program planning, registration, assist with fund raising
  - Make a financial Contribution



# 3, 2, 1 -- Lift Off



Affiliate Societies Council



*Dayton/Miami Valley TechFest 2008*

**A Celebration of Technology in the Dayton Area!**

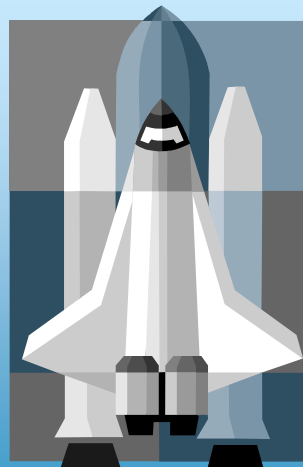
**Saturday, February 16, 10 AM - 6 PM**

**Sunday, February 17, 11 AM - 5 PM**

**Sinclair Community College, David Ponitz Center**

**Free Admission and Parking in Building 12**

*Science and Math Beyond the Classroom*



**We have a mission!**



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# Points of Contact



Affiliate Societies Council



- Hands-on Interactive STEM Exhibits and Demonstrations
  - Dr Perry Yaney, 937.229.2221
  - [Perry.yaney@notes.udayton.edu](mailto:Perry.yaney@notes.udayton.edu)
- Teachers' Workshops
  - Shiela Wallace, 937.429.2473
  - [swal3745@ameritech.net](mailto:swal3745@ameritech.net)
- Contributions
  - Jim Woessner, 800.762.2336
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