Exhibitors for TechFest 2006

9-Feb-06

Exhibit No.	Great Hall, Building 12, Ponitz Center
1	**Air Force Institute of Technology-Tau Beta Pi Engineering Honor Society**—Hands-on engineering exhibits.
2	**National Museum of the United States Air Force**—Experience a simplified heads-up display and this is used in cockpits and new future automobiles.
3	**Dayton American Chemical Society**—See and do hands-on chemistry experiments.
4	**Lockheed Martin Corporation**—Visit a professional display by Lockheed Martin Aircraft and see a video of aircraft in flight. Sign your name on a poster that will be flown on a future space shuttle mission
5	**The Mars Society-Ohio Chapter**—Learn about some of the exciting advances toward human space exploration.
6	**Society of Automotive Engineers-Dayton Section**—Enjoy a hands-on activity to make toy skimmer boats, which can be tested on the floor.
7	**American Society of Civil Engineers**—Learn about civil engineering and how it affects your life.
8	**American Meteorological Society-Wright Memorial Chapter**—Learn about different weather stuff and how computers are used.
9	**Dayton Advocates for Computing Women** / **Association for Computing Machinery**--Cracking the computer case, seeing what's inside your computer (And/Or) Barcodes and RFID technology, what the codes mean & how they work.
10	**WPAFB Education Outreach**—Experience electricity and magnetism, robotics, an aerospace wind tunnel, a water channel and other demonstrations.
11	**SCC Mechanical Engineering Technology**—Enjoy a hands-on activity in mechanical engineering technology.
12	**Miami Valley Astronomical Society**—Learn about astronomy, telescopes and the make up of the universe.
13	**WSU Psychology Dept.**—See and participate in demonstrations of various psychological principles in perception, cognition, etc.
14	**WSU Physics Dept.**—Experience interactive demonstrations of various physics phenomena.
15	**WSU Geological Sciences Dept.**—See how human activities interact with geological processes.
16	**WSU Mathematics & Statistics Dept.**—See a computer exhibit showing math applications and pick up materials describing the mathematical sciences and the opportunities in these fields.
17	**SCC Miami Valley Tech Prep Consortium & Kuder Career Planning System**—Learn about the web-based Career Discovery Curriculum for grades 6 to adult and career pathways for grades 11-16 in 11 different career fields.
18	**SCC Nursing Dept.**—Check the blood pressure, pulses from the heart beat, heart sounds and breathing sounds from a simulated patient.
19	**WSU Institute for Environmental Quality**—Demonstration of the sensitivity of aquatic life to pollution.
20	**WSU Biological Sciences Dept.**—Explore biology by looking at various organisms.
21	**Affiliate Societies Council**—Information about TechFest and related organizations.
22	**UD Biology Dept.**—1. Learn about anatomy at UD for pre-med/biology majors. 2. Become aware of the Importance of wetlands to our environment.
23	**UD Geology Dept.**—Feel and discuss different rock, mineral and fossil samples. See a fluorescent mineral display and other items of geologic interest.
24	**Institute of Environmental Science and Technology & Instrumentation Systems and Automation Society**—Discover how instrumentation and automation systems work.
25	**ASC Student Award Winner, Mont. County Science Day, Josiah Dierken, Dayton Christian H.S.**.—His award-winning system uses a small pressurized tank with two high voltage electrodes used to ionically break down the gases and then he determines the voltage required for this decomposition. Its purpose is to enhance a Geiger Counter's sensitivity to detecting lower levels of radiation.
26	**UD Department of Physics**—Experience the science of color and light. See the magic of how color is produced.
27	**Clark State Community College**—Discover real-time reporting technology of Judicial (court) reporting, closed captioning, CART reporting--Hands On!
28	**UD Chemical and Materials Engineering Dept.**—Enjoy hands-on chemical engineering projects and learn the importance of this field to society.
29	**WPAFB Education Outreach**—Experience electricity and magnetism, robotics, an aerospace wind tunnel, a water channel and other demonstrations.
30	**National Society of Black Engineers-Dayton Alumni Chapter**—See an exhibit on African-American contributions to society through engineering, math and scientific inventions.
31	**Dayton History at Carillon Park**—Hands-on exhibit showing 1930's printing and information on Carillon Historical Park.
32	**Inventors Council of Dayton**—Operate a model of the Wright 1903 flyer in a wind tunnel.
33	**WPAFB Education Outreach**—Experience electricity and magnetism, robotics, an aerospace wind tunnel, a water channel and other demonstrations.
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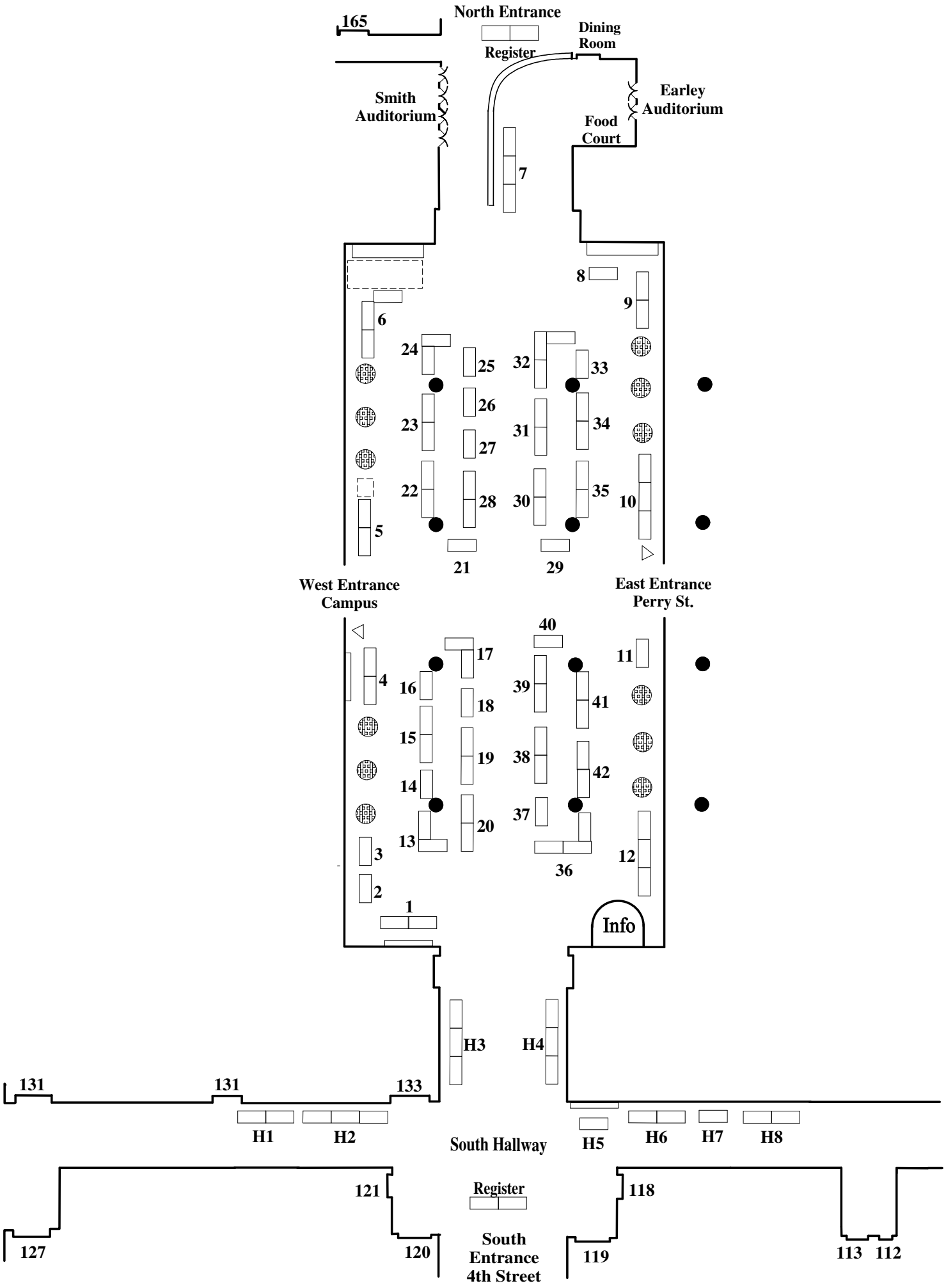
36	**SCC Fire Science Technology**—See and learn about firefighting equipment, hazmat suits and safety equipment, and view a firefighting video.
37	**SCC Civil Engineering Technology**—Enjoy simulation of computer-aided design (CAD) and models that demonstrate civil engineering principles.
38	**SCC Engineering & Industrial Technologies Counselors**—Examine materials and visuals supporting the other EIT exhibits plus Women In Engineering Technologies materials.
39	**SCC Automation & Control Technology**—Experience robotics with hands-on small robots.
40	**Hesler Machine Tool**—See a full replica of the 1903 gas engine used by the Orville and Wilbur Wright in the *first* successful heavier-than-air, powered airplane. Watch and hear it run.
41	**SCC Aviation Dept.**—Learn about aviation and aviation classes, and about blimps and hovercrafts.
42	**SCC Aviation Technology Dept.**—Computerized flight simulator and other flying-related objects.

	Earley Auditorium, Rm 172, Building 12, Ponitz Center
E1	**Boonshoft Museum of Discovery**—Enjoy robot interactives and interactive games (red wings).
E2	**UD Engineering in Technology, Humanity, and Opportunity of Service-learning**—
E3	**Engineers Club of Dayton**—Engage in engineering problem solving. "You may be an engineer if:"
E4	**Dayton Aviation Heritage National Historical Park**—Wright brothers and the Birthplace of Aviation! Enjoy hands-on activities and pick up free souvenirs.
E5	**Aerospace Adventures-Dayton Air Show**—Operate a Wright Brothers aircraft simulator.
E6	**UD Mechanical & Aeronautical Engineering Dept.**—Make airplanes and learn aerodynamics.
E7	**WSU College of Engineering and Computer Science**—Get information on Wright State University; see a display of projects and learn about the electric race car and/or a mini baja vehicle.
E8	**National Aviation Hall of Fame**—Demonstration of exposure to very low atmospheric pressure using a vacuum pump and marshmallows.

	South Hallway, Building 12, Ponitz Center
H1	**American Society for Quality**—Quality demonstration doing statistical charting. Analyze your own data.
H2	**Institute of Industrial Engineering**—Enjoy learning what industrial engineers are and what they do. See a video and participate in an activity for students that shows how industrial engineering principles can be used in real life.
H3	**Project Management Institute, Dayton/Miami Valley Chapter**—This exhibit provides an introduction to task identification and organization for projects which is a needed skill for high performing students and sound science. Students, either individually or in teams, are challenged to organize tasks on a project into a logical sequence from the first to the last task. Students can choose from projects such as a science fair project, completing a research report, hosting a party, planning for a camping trip, baking cookies from their home room, or making trail mix. The exercises provide a fundamental in logical thinking. The interacting with the PMI coach develops communication skills, and if they work as a member of a team, they learn fundamentals of conflict resolution.
H4	**SAFE-Wright Brothers Chapter**—Learn about life safety and aerospace physiological research with test manikins.
H5	**UD Electro-Optics Program**—Learn about and experience optics, lasers and optical communications.
H6	**WPAFB Air Force Research Laboratory-Photonics Materials Group**—Learn about optics, lasers and optical communications.
H7	**Camp Fire-USA**—Learn about family-oriented program for youth.
H8	**Dayton Microcomputer Association**—Enjoy learning about and playing unusual computer logic games.

	Building 13 - AIM Center
A1	**American Welding Society, Dayton Section**—See a live welding display and exhibit describing welding technology
A2	**Miami Valley Society of Plastics Engineers**—Learn and experience injection molding. See how plastic products used in your every day life are made. Mold a back scratcher to take home with you.
A3	**Society of Manufacturing Engineers**—Computer numerically-controlled milling machine and robotics work-cell. Watch it make a souvenir TechFest key ring to take home. Learn what you need to study to run this machine.
A4	**Segway**—See demonstrations and ride on the famous two-wheel Segway transportation system.
A5	**SCC Automotive Technology**—See a professional drag racer: Nostalgia Pro Stock Series, named, GROCERY GETTER. Learn about the science and engineering of power, acceleration, traction, lift, drag, speed, and safety. Presentations and video of the car in action. Talk to the engineer and driver.
A6	**WSU AIM Center**-- See ultra modern automated manufacturing machines at work in the AIM Center. See a souvenir made for you to take home and to school. Show your friends.
A7	**SCC Aviation Technology Dept.**—Sit in a FAA approved flight motion simulator provides pitch, roll, and yaw simulation. It can simulate instrument fight rules (IFR) programming. Passing this test is a requirement for learning to fly. You might get motion sickness. Trained operators can stop it quickly. You must be able to reach the controls to sit in this simulator.
A8	**SCC Aviation Technology Dept.**—Computer Flight Simulator Lab has six computer simulation stations that test your ability to operate an aircraft correctly. This includes taxiing, takeoff, carrying out standard coordinate turns, dead reckoning flight between two points and landing. These activities can be with various wind conditions.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North Entrance
Register
Dining Room
Smith Auditorium
Earley Auditorium
Food Court
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West Entrance Campus
East Entrance Perry St.
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Info
H3
H4
131
131
133
H1
H2
South Hallway
H5
H6
H7
H8
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Register
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South Entrance 4th Street
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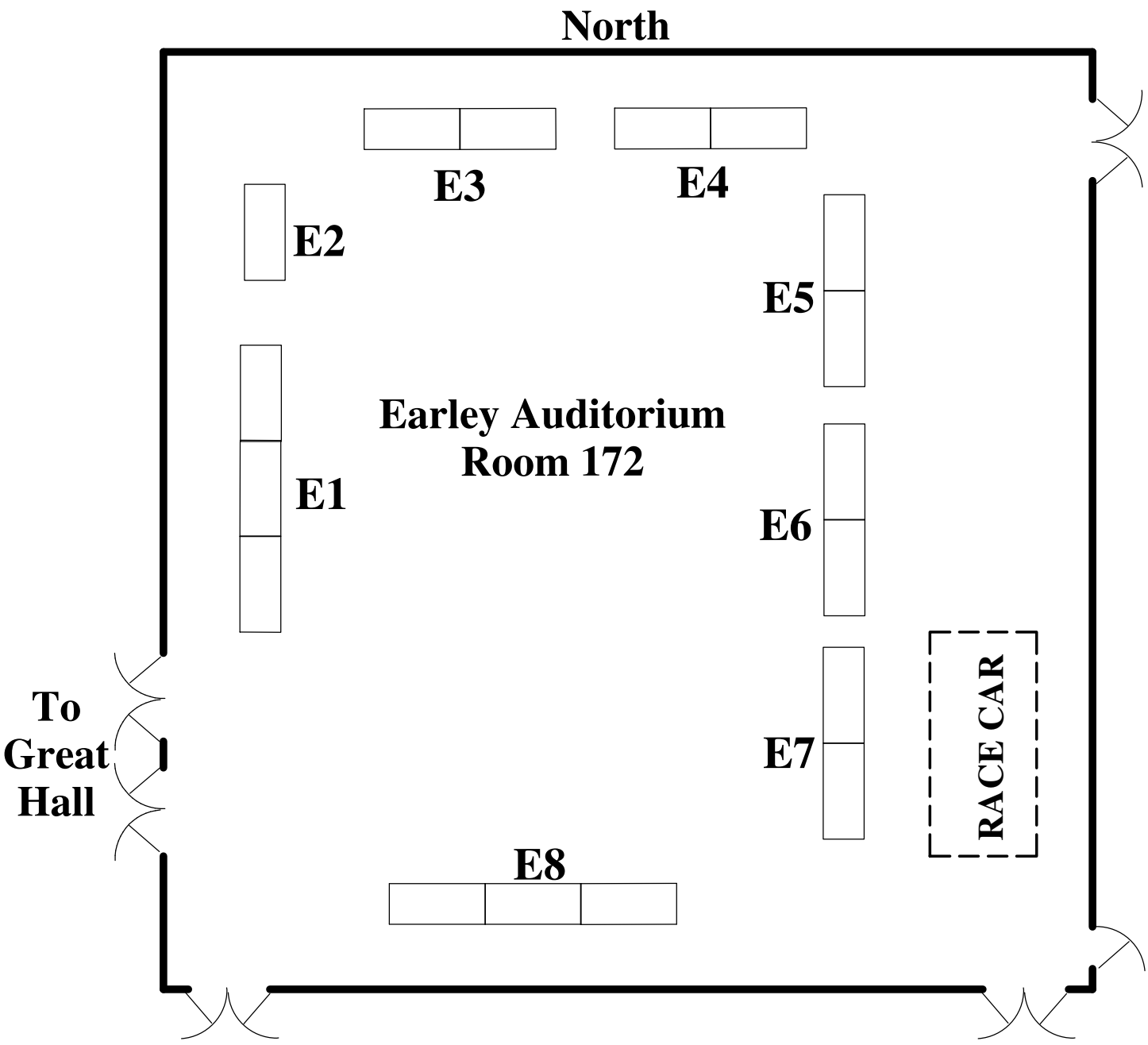
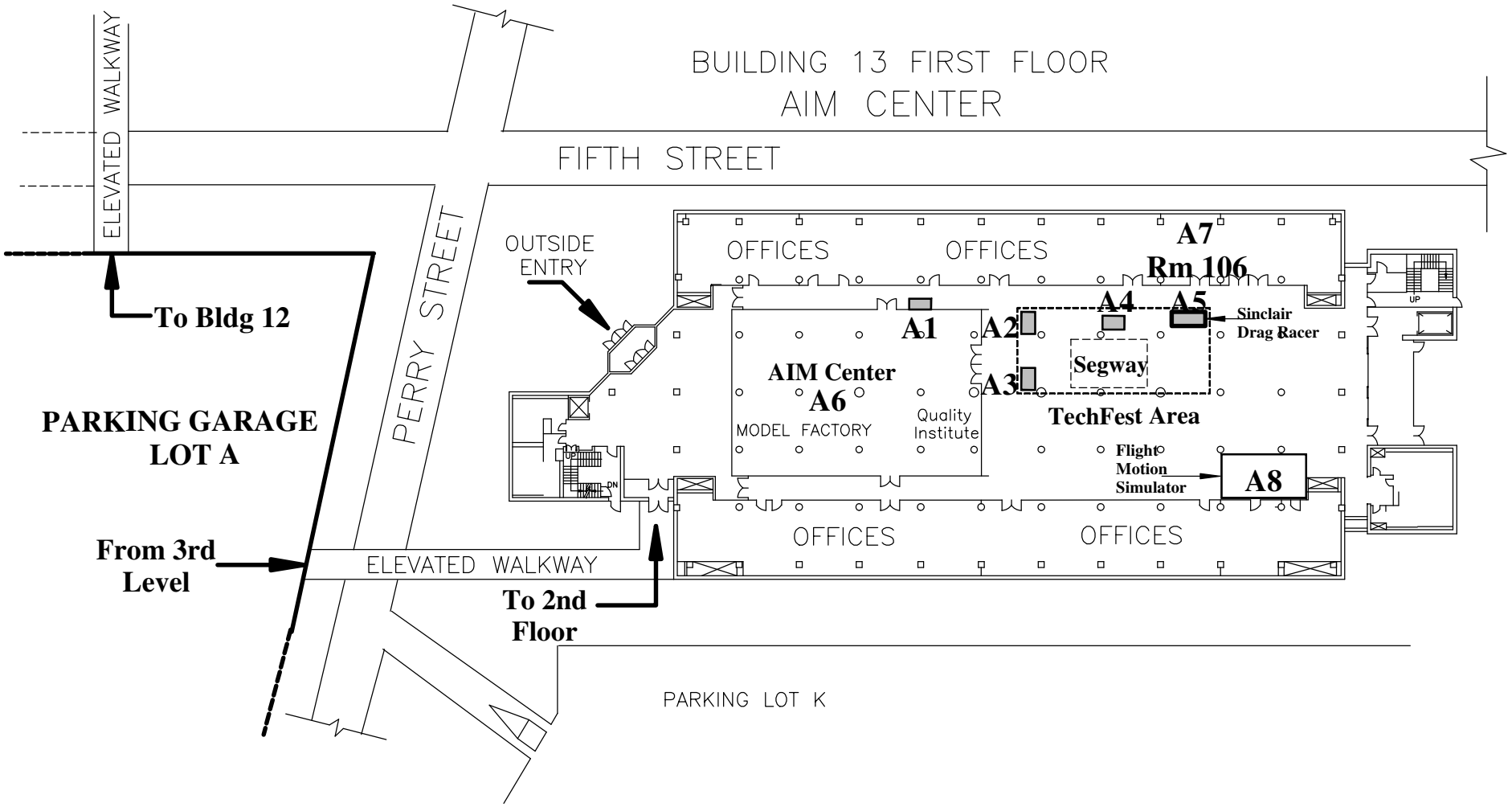

North
E3
E4
E2
E5
E1
Earley Auditorium
Room 172
E6
To
Great
Hall
E7
RACE CAR
E8


BUILDING 13 FIRST FLOOR
AIM CENTER
FIFTH STREET
ELEVATED WALKWAY
PERRY STREET
OUTSIDE ENTRY
OFFICES
OFFICES
A7
Rm 106
A1
A2
A4
A5
Sinclair Drag Racer
Segway
A3
AIM Center
A6
MODEL FACTORY
Quality Institute
TechFest Area
Flight Motion Simulator
A8
UP
DN
OFFICES
OFFICES
ELEVATED WALKWAY
To Bldg 12
PARKING GARAGE LOT A
From 3rd Level
To 2nd Floor
PARKING LOT K