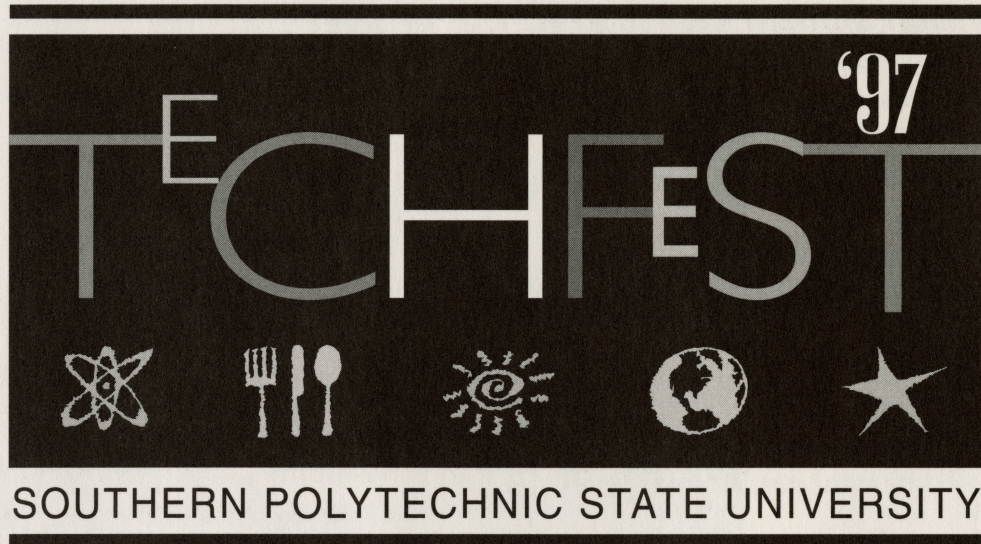


# Welcome to



**11th anniversary**  
**Saturday • May 10, 1997**  
**10 a.m. - 4 p.m.**

## IMPORTANT INFORMATION!

If you encounter any kind of problem or need assistance, please notify **TECHFEST Central**. Located in **Room 204 in Building A**—the Joe Mack Wilson Student Center—TECHFEST Central's extension is 7222. Lost children will be taken to TECHFEST Central. This is also a good location for family members to meet if they get separated.

A **nurse** is available at TECHFEST Central to administer first aid for minor injuries or arrange for additional medical assistance. In case of serious illness or injury, **do not** move the victim. Contact TECHFEST Central and a trained person will be sent to help.

The TECHFEST "**Transportation Trolley**" is available to transport you between the upper and lower levels. Please note the bus stop signs on the streets and near the welcome tables on both levels.

### Signage

*Yellow signs* direct to activities.

*Red signs* direct to assistance, first aid and facilities.

### Maps

Full-size maps are near the information booths situated around campus and the Joe Mack Wilson Student Center.

**Need help? Call 7222.**



# TECHFEST '97

## Building A

### **Joe Mack Wilson Student Center Area**

**Follow the satellite tower** and discover how data is transferred across a satellite link at **AT&T Tridom**. (Outside entrance)

**Tour key campus locations** with the help of a guide and watch a video every half hour from 10 a.m. to 2 p.m. (A215)

**New way to go with gas.** Take an up-close look at **Atlanta Gas Light Co.'s** sporty vehicle, powered by compressed natural gas. (Upper-level plaza)

**The play's the thing.** **The National Society of Black Engineers** presents a play at 1 p.m. (Theater)

**Kids learn the fun way** through **Discovery Toys'** software educational packages for tots to teens. (A206)

**Miss the rollout?** See **Lockheed Martin Aeronautical Systems'** F-22 Stealth Raptor jet up close through a three-foot replica. Designed to fight on the information battlefield of the 21st century, the F-22 is also showcased in a video of its rollout and through actual composite parts. Also, you won't want to miss a model of the newly renovated C-130J Hercules airlifter. (Lobby)

**That's not all** Lockheed Martin has on view. A video presentation showcases what's on the drawing board for futuristic aeronautical technology. (Lobby)

**Converse in real-time video and audio conversations** across the Internet on faster, more powerful systems now available. View email display with live pictures and sound from a person on the other side of the network. (Lobby)

**Getting around.** Learn about the **Department of Transportation's** Advanced Transportation Management System through an interactive kiosk. (A206)

**Go abroad without leaving the campus** at the **International Festival**. Southern Polytechnic students take you to different countries through a host of cultural exhibits and a fashion show. (Ballroom)

**Energy!** See **Automated Logic Corp.'s** state-of-the-art environment control system, featuring graphical programming, user-friendly operating system and rock solid controllers. (Lobby)

**Technology plays a role** in caring for and protecting our future, or in hurting it. Learn from the ones in the know—the **U.S. Environmental Protection Agency**. Receive information on the protection of the land, air, water and animals so important to us. (Lobby)

**Radio activity!** **WGHR** DJs and staff are broadcasting live and providing interviews with **TECHFEST** exhibitors. (Upper-level plaza)

**The National Aeronautic and Space Administration's Mission to Planet Earth** exhibit stimulates thought-provoking views and even a shuttle stick to help get you on board. (A206)

## Building C Library Area

**Experience fine art** in a very interactive way from the world's finest art galleries via the **Electronic Gallery**. (Library Rotunda)

**Explore, review and evaluate** some of the best children's and adult interactive multimedia products. (Center for Instructional Technology)

**Art does** couple beautifully with machines and electronic multimedia applications on the computer. Also see a Renaissance drawing machine designed by a student. (Library Rotunda)

**It's a bird. It's a plane.** No, it's a radio-controlled aerial robotics helicopter and system display. Or, more technically, it's a controlled helicopter display and planned integration with a Global Positioning System and camera for autonomous



navigation and mapping of a simulated toxic waste dump! (Front of Library)

**Feel the need for speed?** Race car and auto enthusiasts won't want to miss the Formula SAE Race Car and the ASME Human-Powered vehicle. The race car is Southern Polytechnic's 1997 entry in the national collegiate competition held in Detroit, Mich. (Upper breezeway across from Library)

**Next time you drop the ball,** you'll wish for our automated robot. It navigates around a board picking up and depositing balls in a demonstration of robotics at work. (Plaza near Library)

### Building D Area

**Magical Math!** Video displays calculated by computer include 3-D representations of solid figures that rotate. Also find out how to solve intriguing puzzles like soma cubes and instant insanity. (Front of D113)

### Building E Area

**Going around together** with the physics of spinning as the Physics, Chemistry and Biology Department examines why things spin, including you. Experience the conservation of angular momentum. (E203)

**Sights you seldom see.** View interesting and unusual creatures by using research grade microscopes. (E204)

**Physics for fun** — superconductors, scanning microscopes and optics (E206). A 30-minute film on comets will be shown on the hour from 10 a.m. to 3 p.m. (E220)

**Chemical instrumentation demonstration.** (E233)

### Building G Area

**Picture Perfect.** Review the history of technology and contemporary issues in science and technology through a poster display by Social and International Studies students. (First floor hallways)

**Lasers, stereo chorus circuit and Pspice software** await participants in various electronic demonstrations. A helium-neon laser will transmit audio signals and an electronic delay circuit will be used to create a stereo signal from a single audio channel. Various electronic circuits will be simulated with a computer software package called Pspice. (G153)

### Building H Burruss Academic Building Area

**"Do the Zoo from a Distance"** as GSAMS at TECHFEST connects to **Zoo Atlanta** with special programs at 10:30 a.m., 12:30 p.m. and 2:30 p.m. When you're not at the Zoo on GSAMS, talk with a representative to learn about zoo programs and how they use technology. (H320-upstairs GSAMS lab)

**Watch out for soaring paper airplanes.** Make sure your paper airplanes soar by following this activity's design instructions and suggestions. Then, put your newly created plane to the test by competing in the paper airplane contest. If your plane flies the farthest, you win. Even if you don't win, you'll also enjoy computer lab demonstrations and connect to the Internet. (Third floor)

**Love to make a mess?** Kids do, especially when they are also making real paper from scratch. Participate in a hands-on paper-making activity. Also, watch a videotape on the art and technology of paper-making. (H202 off lobby)

**All sidewalk construction experts welcome.** Join in a construction interaction game, see a construction materials display and let your youngsters visit an "equipment crawl-over." (Outside in front of Building H; in H201; and grass area east of Building H)

**Your work world could be better.** Experience different work situations through IET's computerized workplace simulations that show a better way. (H121)

**A train with a mind of its own—almost.** Ever wonder how rapid transit systems like MARTA operate? Southern Polytechnic's computer-con-



trolled model trains will show you how to set throttle levels, change directions and avoid collisions! Graphic screen displays also show train locations and status. (H243)

**Interested in management?** Get your questions answered about Southern Polytechnic's School of Management programs. And learn about Delta Mu Delta, a national honor society for business administration. (Lobby)

**Testing, surfing, searching.** Participate in real-time video and audio conversations across the World Wide Web and test your skills on surfing and finding information on the World Wide Web in an Internet contest. (H241)

**Be on the lookout** for "flying dishes and swinging glasses" as a SciTrek representative performs science and interactive physics demonstrations. Kids of all ages will learn how to pull a tablecloth out from under dishes and how to swing a glass of water on a tray. (Outside near Bell Tower and Building H)

### **Buildings S and V Area (between dorms)**

**What's the buzz?** The Naval Air Station/Atlanta plans to fly the exciting **AH-1W Super Cobra Helicopter** onto campus and bring its sophisticated technology to ground level and eye-level for us all.

### **Building I Area**

**Kids are the developers at Kinder Place**, an interactive development game by the Student Society of Environmental Developers Department. Young ones encounter the decisions that environmental developers face everyday about trees versus buildings. (At the corner of Building I, near Building H)

### **Building K Area**

**Manufacturing is not the same old thing.** See computer-aided manufacturing and computer numerical control demonstrations where hands-on opportunities enable each person to use CAM

software. The program is then executed on a three-axis vertical molling machine. It is much more technical than it is difficult. In fact, you can also operate a mechanical robotic arm. (MET machine shop—K122)

**Ham it up, seriously.** Learn how to communicate with people around the world, maybe even helping others in times of crisis, by visiting the Amateur Radio Club exhibit. They'll share the excitement that makes amateur radio one of the most popular hobbies in the world. Come and learn about HF, VHF and UHF radio communications, digital packet radio (putting your computer "on the air") and amateur television. (Near Building K)

### **Building M Area**

#### **W. Clair Harris Apparel and Textile Center**

**High Tech—High Fashion.** Computers are making a big difference in the fashion industry. Watch computer-aided embroidery, textile testing and see textile prop, and visit computer-aided design and manufacturing labs.

**See stars and more at Georgia Youth Science and Technology Center** exhibits. Check out the beauty of space, the earth and human cells by going inside the **STARLAB Planetarium**. Show hours are 10:30, 11 and 11:30 a.m.; 1, 1:30, 2, 2:30, 3 and 3:30 p.m. (Lobby)

**Discover the magical mysteries** of polymer chemistry, acids and bases, liquid nitrogen and rockets through demonstrations by South Cobb High School's Chemistry Club (M100 and on patio). Show times: 10:40 a.m., 1:10, 2:10 and 3:10 p.m.). You may also cover your hands in homemade slime, but that's not mandatory.

**Escape without fear.** Kids will learn about safety the fun way in the **City of Marietta Fire Department's Fire Safety House** for the Citizens of Cobb County. House visitors will learn how to prevent and escape potentially hazardous fire-related situations. (Outside of Apparel and Textile Center by loading dock)

**More exhibits on reverse side of panel**





### ***Exhibits continued from inside panel***

**Breaking news? Look for the satellite dish.** WGNX, Channel 46, CBS Television, is on campus to introduce you to its sophisticated satellite news gathering system vehicle, with all the electronic bells and whistles. If you take for granted how news from around the world reaches your television, come on board to view the computer uplink capabilities of gathering and transmitting news and information around the American continent and relays worldwide. (Area near Building M)

### **Building SJ CET Building Area**

**Century of surveying.** Enjoy a 100-year history of surveying in Georgia, along with a look at today's state-of-the-art surveying equipment. See an electronic distance measurement display and computer-aided drafting and plotting (SJ125).

**Celebrate** the winning ASCE Steel Bridge Team and watch as they practice building techniques for this year's competition. Also, view some

winning steel bridges from the past. You won't want to miss the Concrete Canoe display of different concrete canoes (Yes, they float!), their cross sections, and a tour of the concrete canoe trailer from 10 a.m. until 3 p.m. (SJ parking lot)

**There's a reason why rivers ebb and flow.** View a fluid mechanics open channel flow flume and oxygen aeration demonstration equipment. And the youngsters can get their hands wet; no problem. (SJ parking lot).

### **Building SM Wilder Communications Area**

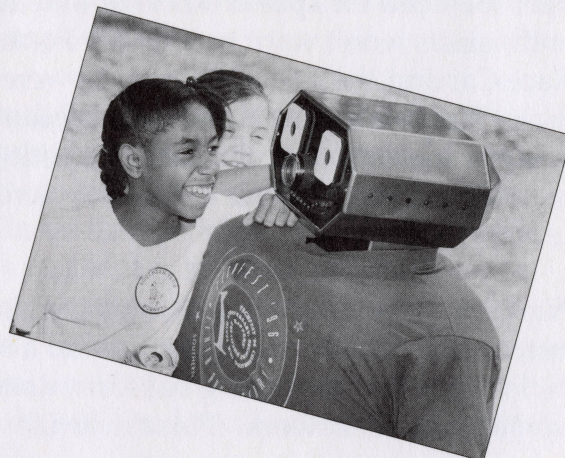
**A little building with a big impact.** Don't let the small size of the exterior fool you. Wilder Communications packs a great variety of exciting and fun experiences in satellite communications and fiber optics, tricks with stereo amplifiers and laser communications. Walk on across the street from Apparel and Textile Building M and look for the satellite dish overhead. (Building SM)



# SPECIAL NOTES

Join us in welcoming our *special guests* by visiting their exhibits.

- AT&T Tridom (Outside Student Center)
- Atlanta Gas Light Co. (Upper-level plaza)
- Automated Logic Corp. (Student Center)
- Department of Transportation (Student Center 206)
- Discovery Toys (Student Center 206)
- Georgia Youth Science & Technology Centers (Bldg. M)
- Lockheed Martin Aeronautical Systems (Student Center)
- City of Marietta Fire Department (Outside Bldg. M)
- National Aeronautical and Space Administration (Student Center)
- Naval Air Station/Atlanta AH-1W Super Cobra Helicopter (Between Bldgs. S and V)
- SciTrek (Outside near Bldg. H)
- U.S. Environmental Protection Agency (Student Center)
- WGNX—Channel 46, CBS Television (Outside Bldg. M)
- Zoo Atlanta (Building H 320)



## For your enjoyment!

**Enjoy!** Be sure to say hi to Oscar the roaming robot and our TECHFEST clowns. And, you won't want to miss our face painter.

**Climb aboard!** Let the younger TECHFEST visitors hop on our special miniature train for a little TECHFEST tour on the upper level of our campus plaza.

**Worn out? Tired?** TECHFEST trolleys are available to pick up tired treckers on Hornet Drive, surrounding the campus. Look for Trolley signs and ride to your next area of interest.

## Hungry or thirsty?

Food and drinks are available throughout campus at concessions operated by Southern Polytechnic State University students.

## DESIGNATED SHOW TIMES

<i>Campus tour/video</i> (every half hour)—A213, A214, A215	10 a.m.-2 p.m.
<i>30-minute film on comets</i> (on the hour)—E220	10 a.m.-3 p.m.
<i>"Do the Zoo from a Distance"</i> shows — H320	10:30 a.m., 12:30 and 2:30 p.m.
<i>STARLAB Planetarium shows</i> — Building M lobby	10:30, 11 and 11:30 a.m., 1, 1:30, 2, 2:30, 3 and 3:30 p.m.
<i>South Cobb High School's Chemistry Club shows</i> — M100 and patio	10:40 a.m.; 1:10, 2:10 and 3:10 p.m.
<i>NSBE play</i> —Student Center Theater	1 p.m.