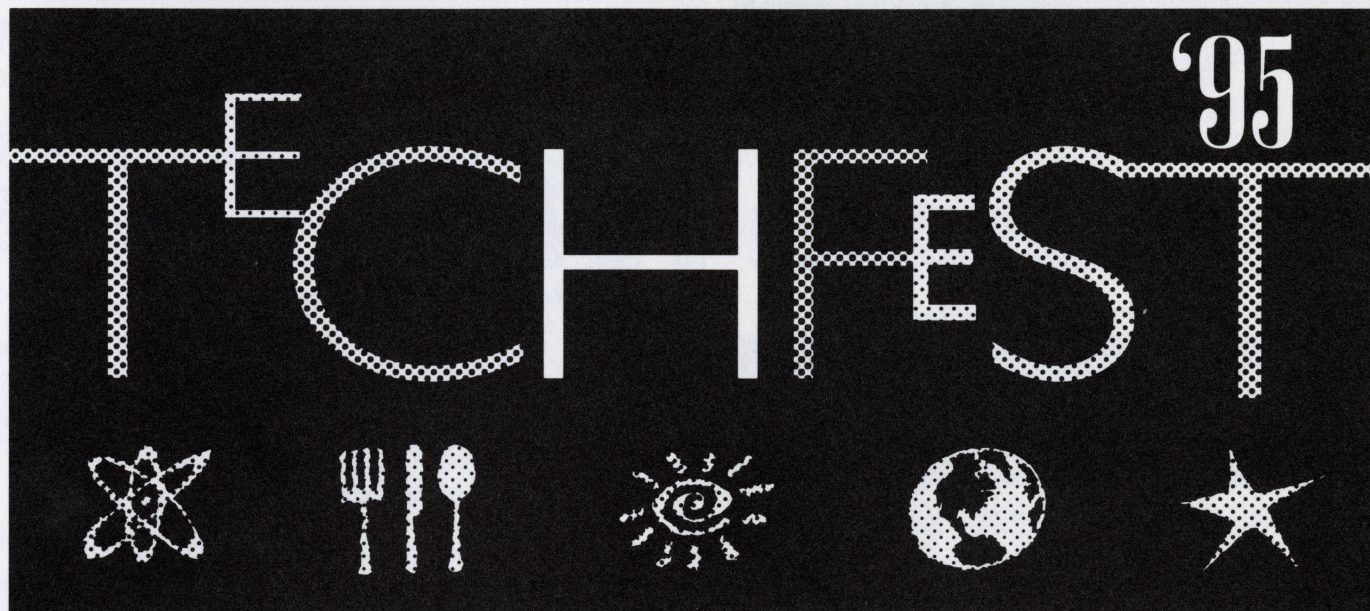


A day to play with technology!



SOUTHERN COLLEGE OF TECHNOLOGY

Welcome to
TECHFEST '95
Saturday, May 6, 1995
10 A.M. – 4 P.M.
Southern College of Technology
1100 South Marietta Parkway
Marietta, GA

IMPORTANT INFORMATION!

Please refer to the map in this folder for locations of TECHFEST exhibits and entertainment.

TECHFEST Central is located in Building F. (See Map.) The on-campus telephone extension is 7240. Notify TECHFEST Central if you need any assistance.

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 and first aid for minor injuries are available at TECHFEST Central. First aid is also available at the Marietta City Fire Truck exhibit. In case of serious illness or injury, DO NOT move the victim, Contact TECHFEST Central and they will send trained help to the person.

Building A—Joe Mack Wilson Student Center

International Student Association Festival.

Experience beautiful, exotic cultural exhibits, entertainment, food and activities of students from around the world.

Ballroom.

Exhibits: 10 a.m. – 4 p.m.

International Luncheon: 12 noon

Entertainment: 12:30 – 4 p.m.

Building C—Library Rotunda

Face up to your features in digitization!

Showcase Photo and Video will produce digitized photographs of your group and explain how it happened. And you get to take your special photograph home.

Upper level campus near Building C—Library

We feel the need for speed! So did Southern Tech's Association of Mechanical Engineering students when they created a formula race car and a human-powered vehicle! The nationally competitive SAE Race car is a high-performance prototype with a 600cc motorcycle engine, turbocharger and intercooler. A little on the milder side, but lot's of fun, is the HPV, a unique bicycle that officially clocks at 47 mph (and unofficially at approximately 60 mph!)

Building D

Smart and moving experiences. See demonstrations of mathematically calculated computer displays, stereoscopic effects and rotation. Experience fractals and Julia Sets moving and growing with fascinating patterns. Find out how you really solve intriguing puzzles like Instant Insanity and Soma Cubes. Your friends will be impressed because you know how to take the logical approach! (D-113)

Building E

Reaction! Use non-toxic substances to create your own simple chemical reactions. Watch a multimedia presentation on what happens when reactions get much more explosive! (E-234)

Scope it out. Investigate what's going on through the lens of sophisticated microscopes in Southern Tech's biology labs. (E-204)

Molecular modeling. Computers emulate builders, using physical or electronic parameters to create accurate models of a molecule. The models then predict chemical and physical behaviors. (E-233)

Little atoms and a lot of levitation. Ever so mighty, yet extremely tiny atoms are displayed on our STM microscope. And don't miss Rotational Dynamics, superconducting levitation of objects and super conductors that are used to move magnetically levitated trains. Enter the worlds of lasers, optics and computerized quantum chemistry calculations. (E-203 and E-206)

Explore the internet. Don't be road kill on the information highway! We'll link you to people and places in other parts of the world who will join TECHFEST visitors via an international computer network link. Get on board and let's travel. (E-127)

Infrared Spectroscopy. Discover how Fourier Transform Infrared Spectroscopy can identify a substance or the structure of a substance's molecules by using infrared light. (E-233)

Building G

Electronics to please and serve. A variety of electronic projects includes a digital lock, a computerized interactive security system and a digital voice recorder. (G-220)

Computer control. Visit this student project to see how a small computer can control an industrial motor. Not unlike David and Goliath! (G-175)

Building H—Burruss Academic Building

Meet multimedia and grab onto graphics. Computers for multimedia and graphics produce state-of-the-art applications in areas of animation, sound, fractals, 3-dimensional visualization and stereographic display. (H-241)

A train with a mind of its own—almost. Southern Tech's digital railway of model trains, controlled by a computer, shows how prototype systems such as MARTA operate. Computers set throttle, manage direction and operate turnouts. Graphic screen displays keep you up to date with status, if you can take your eyes off the trains. (H-243)

Learning Resources. In today's education, individualized instructions with tutorials and computer-assisted instructions help students get on target quickly. Explore the options! (H-125)

TECHFEST '95

Stump the Spanish Professor! ¿Habla Ud. español? Have some fun finding out and sharing. **(Lobby)**

History Mystery! Yesterday takes on new meaning when examined with today's computers. **(Lobby)**

Work Analysis. Thirteen monitors show how the experts analyze typical work situations and make improvements to increase productivity and efficiency. **(H-120)**

Management Displays. The School of Management provides an introduction to the world of management through videos and simulation games for both adults and youngsters. **(H-310)**

From humble beginnings come great endings. Tiny chips eventually create great books. The Pulp and Paper Partnership gives you a hands-on chance to literally create paper, while you also learn more about an industry that is a major factor in Georgia's economy. TAPPI's *Paper Express* program and the Institute of Paper Science and Technology's equipment will help guide you through the process. **(Lobby)**

Building I

KinderPlace for creative kids. KinderPlace is a re-tuning TECHFEST favorite. Here, young children become city planners in a hands-on playground that stresses environmental concerns while it offers the fun of creating. (KinderPlace is a national award winner of the Anheuser-Busch Pledge and Promise Environmental Competition.) **(I-114)**

Building K

Robotic chess pieces. It's hard to believe that something as cerebral and thoughtful as chess has anything to do with robotics. But come see robotic equipment and computer-controlled machines handling materials and machining chess pieces. It demonstrates the manufacturing methods of the '90s. **(K-188)**

Dazzling displays of computer technology. Come see 3-D computer-aided design systems, photo-realistic renderings of designs, computer-generated movies, visual displays of stresses and deflections in machine parts, computer control of machine tools and more. You'll marvel at the impact the computer has on the design and manufacturing process. **(K-155)**

Building M—W. Clair Harris Apparel & Textile Center

CAD helps make a fashion statement. Computer-aided design is becoming a major factor in the fashion industry as computers electronically sketch, design, color and texture apparel items. Come and take a look at this colorful process, which also includes computers designing emblems and then following through by sewing the item onto fabric! And, can you believe, a computer-aided creation of the most delicate embroidery? You will. **(M-CAD lab)**

Building SJ

(interior and exterior displays)

Showing Off! Southern Tech's new Civil Engineering home offers a variety of interesting exhibits to debut this exciting new facility. For example, today's state-of-the-art computing equipment goes so far as to monitor satellites. And, a fluid flow demonstration, more technically known as hydraulic flume, helps us understand that changes in river flow have to do with much more than just rainfall. Youngsters love to actually feel the flow! Southern Tech's mighty award-winning steel bridge team displays the latest winner. And, finally, don't miss the concrete canoe! Yes, it floats—in fact, it rides so well that it has consistently won regional competitions.

Building SM—Wilder Communications

(interior and exterior displays)

Terrific tricks and treats. The little building with a big impact is featuring a variety of exciting and fun experiences that are proven crowd favorites—from satellite communication and fiber optics to tricks with stereo amplifiers and lasers. Be careful what you say around the large parabolic reflectors. They are aligned to allow your little whisper to be heard a hundred feet away!

**FOR ASSISTANCE:
REMEMBER TECHFEST CENTRAL
BUILDING F
CAMPUS EXTENSION 7240
OR ASK A HOST
IN A TECHFEST T-SHIRT**

Welcome Visitation Day Participants!

Entertaining Experiences!

All-day Activities (10 a.m. – 4 p.m.)

Oscar the Robot
Face Painting (Near Bldg. H)
Miniature Train Rides
Dumbo Space Walk (In front of Bldg. F)
Pop-a-shot (Bldg. M—Patio)
Class of '94 Quartet
Marietta City Police remote-controlled Robo car (Parade Circle)

Special Presentations

10:30-10:45 a.m.

North Cobb High School ROTC Drill Team (Parade Circle)

11:15-11:45 a.m.

Littlest Fiddlers (Main Stage)



12 noon-12:15 p.m.

Class of '94 Quartet (Parade Circle)

12:15-12:30 p.m.

NCHS Jr. ROTC Drill Team (Parade Circle)

12:30-1 p.m.

Li'l General Cloggers (Parade Circle)

1-2 p.m.

530th Air Force Band (Main Stage)

2-2:30 p.m.

Choi Kwang-Do martial arts (Stage Area)

2:30-3 p.m.

Cobb Community Chorus Salute to Broadway's One Hundredth Birthday (Main Stage)

Other Times to Remember:

STARLAB Planetarium shows: Every 30 minutes starting at 10:15 am. Final session at 3:15 p.m. (Bldg. M)

Magic mystery of chemistry follow up hands-on sessions: 10:30 a.m., 1 p.m., 2 p.m., 3 p.m. (Bldg. M—Patio)

NASA Space Shuttle Exhibits/Lecture/Videos: 11 a.m.–12; 1–2 p.m.; 3–4 p.m. (Bldg. H)

Hungry or thirsty?

- Pack a picnic with a burger, sandwich or other goodies at the **Snack Bar** (11 a.m.–2 p.m.,) lower level of the Student Center.
- Visit the student food concessions around campus.

Southern Tech's bookstore/shop is open, lower level of the Student Center.

Special Guest Exhibitors

National Aeronautics Space Administration (NASA)

Space and shuttle exhibits, videos and presentations by NASA representative Les Gold take you through the challenges and experiences of a journey through space. See samples of flight equipment and rock samples that once nestled on the face of the moon. **Presentations: 11 a.m.–12; 1–2 p.m.; 3–4 p.m.**
Bldg. H—Burruss

COMPU-ED 2000

Grab a mouse and Surf the Net to see where you can go and what you can find. Meet Multimedia Magic with graphics and sound, scanners and video cameras. Learn how images are computerized. And, finally, enter the 3-D world of Sensational Stereograms to find out if you are one of the people who can see the images. Not everyone can!

Building A—Student Center

Special Guest Exhibitors (cont.)

Georgia Youth Science & Technology Centers

(All GYSTC activities located in and around the Apparel & Textile Center, Bldg. M)

STARLAB Planetarium

Come inside West GYSTC's STARLAB and explore the exciting beauty of space, the earth and human cells. **Sessions every half hour, beginning at 10:15 a.m. Bldg. M—Lobby**

The magical mystery of chemistry

Demonstrations by South Cobb High School students unravel the mysteries of polymer chemistry, acids and bases, liquid nitrogen and rockets. **Bldg. M—Room 100.** Hands-on activities are available at 10:30 a.m., 1 p.m., 2 p.m. and 3 p.m. **Bldg. M—Patio**

A terrific bad hair moment

Getting acquainted with an electrostatic generator is a real hair-raising experience, and more energetic than a visit to your salon. It's fun and, happily, it also won't last a day! **Bldg. M—Lobby**

Under the (radar) gun

All Cy Young winner-wannabees find out how much you really have on your fastball. It's fun and you'll learn a lot more about how radar works. **Bldg. M—Outside**

Flying Fish

Help Skipper the fish get back in his bowl. All it takes are the science concepts of trajectory, force and leverage to launch him home. **Bldg. M—Outside**

Automated Logic

Energy! It's easy to learn about logical choices for building automation with ACL's innovative system—SuperVision—interactive graphical software, Eikon-graphical programming, and how they all integrate. **Bldg. A—Student Center**

Georgia Fire Academy Fire Safety House

Bring your children to this very special house, where they will enter the fun and educational world of safety in preventing and escaping potentially hazardous fire-related situations. (Accommodates approximately six to eight children at a time.) **Bldg. M—Outside northwest**

Galileo, Inc.

It's not business as usual at this exhibit. Talking Business Cards, Laptop Sales Systems and Kiosks highlight the innovative uses of new technologies in the competitive marketplace. **Building A—Student Center**

Atlanta Gas Light

The eventual alternative to your local gas station may lie in a natural gas powered vehicle similar to the one displayed by Atlanta Gas Light today at TECHFEST. **Parade Circle—Upper Campus**

Georgia Power

You will get a charge out of Georgia Power's solution to gas-guzzling transportation, the electric-powered automobile. **Parade Circle—Upper Campus**

Scientific Atlanta

TECHFEST brings you Scientific Atlanta's Sega Genesis demonstration or, more simply put, video game delivery systems. **Building A—Student Center**

TRANSQUEST

(An AT&T and Delta Air Lines Partnership)

Ever wonder who's tracking the airplane you're on? And how? You'll find out with Graphical Flight Following. You'll also view multimedia flight attendant training received through full-motion multimedia computers, and touch a screen to see how international check-in procedures are simplified. **Building A—Student Center**

Access Atlanta

Here's a one-stop tour of what's available on-line in the "Big A." News, views and happenings. **Building A—Student**

SciTrek

A brand new invention called Intelligent Illumination lets you create light and sound with just a wave of your hand. Or, if you prefer, put away your CD player and use this new system to play music. **Bldg. H—Burruss Lobby**

