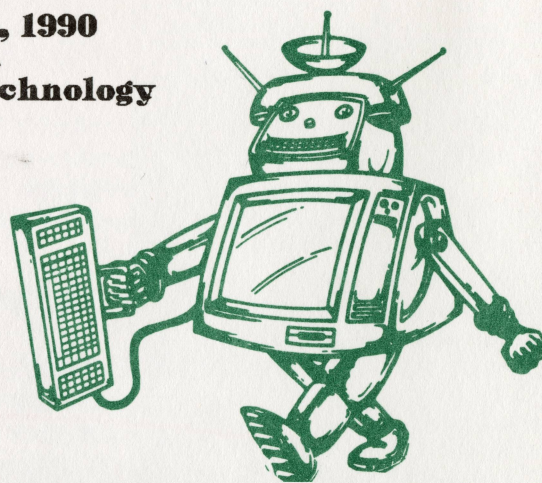




**TECHFEST '90**  
**Where eyes widen and hands touch.**  
**Where science fiction becomes scientific fact.**  
**TECHFEST --**  
**Your day to explore**  
**The wonderful world of technology**

**Saturday, April 28, 1990**  
**9 a.m. - 3 p.m.**  
**Southern College of Technology**



# **TECHFEST '90**



# Welcome to TECHFEST '90!

## Enjoy the TECHFEST Entertainment Team from 9 a.m. - 3 p.m.

RE/MAX Hot Air Balloon -- 9 a.m. - 12 noon  
Rides (Weather permitting)  
Campus between Building 6 and Apparel and Textile Center

WKLS'96 Rock" Live -- 10 a.m. - 1 p.m.  
In front of the Library

Park Street Choir -- 11 - 11:30 a.m.  
Apparel and Textile Patio

McCleskey Middle School Jazz Ensembles  
12 noon - 1 p.m.  
Apparel and Textile Patio

Kennesaw State College Community Band  
11 - 11:45 a.m.  
Stage area

Country Classic Cloggers -- 12 noon - 12:45 p.m.  
Stage area

Monte Johnson's Magic -- 10:45 a.m.  
Stage  
1 p.m.  
Apparel and Textile Patio

Chicken Chips Quartet -- 1 - 2 p.m.  
Campus-wide

Creative Caricatures -- 11 a.m. - 2 p.m.  
Library Circle

Dixie Racing Club Radio-Controlled cars  
Race 1 - 2 p.m.  
Set up: a.m.  
Parking Lot across from Building 6

International Student Association Festival  
Entertainment: -- 12:45 - 3 p.m.  
Chinese Dance Ensemble  
Chinese Grandfather Dance  
The Arabian Knights and Belly Dancer  
Columbian Folkloric Dance Group  
Indian Classical Dance  
"Stars of Atlanta"  
Stage

Southern Tech's gourmet groups have put together tasty treats for your TECHFEST enjoyment: soft drinks, doughnuts, a bake sale, barbeque chicken, popcorn and international delicacies from many different cultures.

Your chefs are: The International Student Association, Sigma Phi Epsilon, Black Men in Unity, AM Institute of Architects, Foreign Language Society, Society of Black Engineers, Lambda Chi Alpha, Circle K and the Diplomats.

Southern Tech International Student Association's Exhibits: 9 a.m. - 3 p.m.  
(In front of Building 2)

The American Institute of Architecture Students (AIAS) welcomes you to its Architectural Balloon Exhibition. (The "Rock" Field)

Join the Bathtub Racing Association for a look at one of Southern Tech's competitive bathtub racers and don't miss the "Human Powered Vehicle", compliments of ASME.

Hosted tours of the Library will be held every hour on the hour.

## Displays and Demonstrations

### ACADEMIC BUILDING

Your old model train set was never like this. Watch "Real Time Processing" in action with a computer-controlled electric train. It's a model example of how computers are used in systems like MARTA, and how computer software can monitor and control physical devices. (Academic Building, Room 4212)

Southern Tech is a leader in developing techniques for linking high-tech medical equipment to hospital computer systems so follow the leader into a demonstration of biomedical applications of computer systems. (Academic Building, Room 4211)

**Computer Graphics Animation** is produced with a network of high-powered graphics workstations. (Academic Building, Room 4212)

**Can a computer create and play music as well as a human?** The answer is yes, if the human programs the computer. Listen to synthesizers and learn how music is entered into computers for later playback. (Academic Building, Burruss Seminar Room)

**Mathematics computer graphics:** Computers understand and teach difficult mathematical concepts. See displays of fractal sets, Julia sets and graphic displays of equations. (Academic Building, Burruss Exhibit Hall)

Computers, physics and measurement! **Computers now do the job of reading and recording scientific measurements** for their human operators. And, more, they analyze the results. (Academic Building, Burruss Exhibit Hall)



6c

6a

6b



Academic Bldg.

Library

Administration

Registration

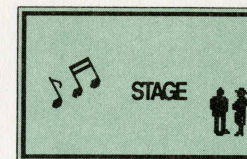
Flagpole

Student Center

Bookstore

3

FIELD



5

4

2

See applications of super conductivity, which go far beyond the magician's illusion of levitating a partner. The use of liquid nitrogen and magnetics with super conductors can raise and spin objects, including levitating a model train right off its tracks. (Academic Building, Burruss Exhibit Hall)

A display of laser applications that produce a very different kind of laser light show. Continuously tuneable dye lasers produce light of very precise frequency which covers the entire color spectrum. (Academic Building, Burruss Exhibit Hall)

**Conservation of angular momentum sounds very technical**, but it's really the basis of how champion ice skaters can use their bodies to spin at an extremely rapid rate. You won't need ice to prove it. Just step aboard the Southern Tech turntable and spin away. (Academic Building, Burruss Exhibit Hall)

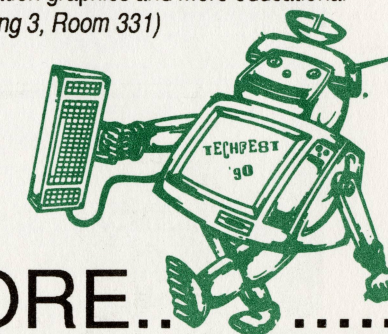
The Developmental Lab will demonstrate **CAI software used to support the teaching** of algebra, physics, english and reading. (Academic Building, Room 4110)

### BUILDING 2

The Panasonic mobile television facility demonstrates the latest in cameras, editing equipment and other TV components. Visitors will be given a hands-on opportunity to see how the equipment works. (Outside Building 2)

### BUILDING 3

Southern Tech students have prepared "hands-on" exhibits suitable for all age groups, offering interactive games and drawing programs, animation graphics and more educational programs as well. (Building 3, Room 331)



# AND MORE.....



## Building 4

Computers now control testing processes for amplifiers and filters that once required tedious manual activity. **They measure -- log data -- and plot the results.** (*Building 4, Room 466*)

**Digitized vision -- pattern recognition -- and artificial intelligence** add up to a partnership that has helped robotics revolutionize manufacturing. Learn how a TV camera makes the process possible. (*Building 4, Room 454*)

An **Electronic computer-aided design** showing of packages available for electronic design and circuit board layout. (*Building 4, Room 462B*)

**Circuit Board Milling** has quickened the process of making circuit board prototypes to an hour and, even better, has eliminated the unpleasantness of the old chemical process. (*Building 4, Room 417*)

## BUILDING 5

**Become a Civil Engineer for a while:** Learn to perform a survey exercise, where you'll use a restored 19th century transit and a very modern computer-enhanced total surveying station. (*Building #5, Room 515*)

With the **Electronic Distance Meter**, you can measure a line 600 to 700 feet long to the nearest hundredth of a foot. (*Building #5, Outside rooms 515 & 517*)

A **"weight-watchers" special** allows visitors to determine their weight using strain-gauge technology. (*Building #5, Room 517*)

**Why does the Chattahoochee River rise and fall?** It certainly isn't just because of rainfall. Southern Tech demonstrates the principles of open channel fluid flow. (*Building #5, Room 517*)

Do you ever wonder what kind of an architect you would have made? The amazing capabilities of **computer-aided architectural design** become very real when you sit at computer controls and begin designing in minutes. (*Building #5, Room 563*)

## BUILDING 6

Southern Tech's computer-aided design equipment in the Automated Manufacturing Laboratory designs chess pieces and manufactures them automatically, without the touch of a human hand. **It's called robotics and it's changing manufacturing.** (*Building #6, Lab*)

## APPAREL AND TEXTILE CENTER

Cobb County district **winners in the Georgia Science and Engineering Fair competition** will display their science projects. (*Foyer of the Apparel and Textile Center*)

**Apparel and Textile Innovation:** See a garment created before your eyes, via **computer-aided design**. Then step across the hall and watch designs and patterns become reality in the computer-enhanced, **automated apparel production** facility. **Enter the testing lab** to watch the latest in automated textile testing and manufacturing. **Watch a carpet automatically produced** from spools of yarn. See Computer Integrated Manufacturing in action as **computers, linked in a CIM network, communicate with each other.** (*Apparel and Textile Center of Excellence*)

### TECHFEST'S CORPORATE EXHIBITORS DEMONSTRATE TECHNOLOGY IN THE WORLDS OF BUSINESS AND INDUSTRY

ROBOTS.  
FIBER OPTICS.  
NETWORKING CAPABILITIES.  
ENERGY MANAGEMENT.  
COMPUTER GAMES.  
RENDERINGS.  
MOBILE COMMUNICATION.

Visit our very welcome corporate exhibitors who are displaying technology as it serves you in your businesses, your homes and your places of recreation.

AUTOMATED LOGIC. INTERNATIONAL BUSINESS MACHINES (IBM). PANASONIC.

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