

# TCF@50

## TCF1976 - TCF2015

### THIS SESSION WILL LOOK AT THE HISTORY OF TCF

### HOW IT BEGAN

### WHERE IT IS GOING

### & WHAT TCF@50 MIGHT BE LIKE?



# OUTLINE

- HOW TCF ORIGINATED
- BIRTH OF PC & ACGNJ
- THE 1<sup>ST</sup> TCF AT TSC (NOW TCNJ)
- 1<sup>ST</sup> KEYNOTE SPEAKER
- SOME OF THE MEMORABLE TCFs
- MOVE TO MCCC, THEN TO NJ EXPO CENTER
- KGP & MARKETPRO MANAGEMENT
- BACK TO TCNJ
- PRESENT PROBLEMS
- FUTURE POSSIBILITIES
- TCF@50 & FUTURE OF COMPUTING

# GENESIS - COMPLEX

## CLAUD KAGAN'S RESISTORS 1965



1965 – Claude Kagan's Datapoint vacuum tube computer in the basement of his barn. Hopewell, New Jersey high school students worked on it.

# GENESIS

## SOL LIBES BUILD 8008 MICROPROCESSOR BASED COMPUTER



1973 – Sol Libes & Students build Intel 8008 microprocessor-based computer using parts from obsolete computer

# GENESIS

ROGER AMIDON (K2SMN)  
RTTY ENTHUSIAST  
DREAMS OF A COMPUTER



~ 1974



# GENESIS

## MITS ANNOUNCES ALTAIR 8800 KIT 256 BYTES OF MEMORY



JAN 1975

HOW TO "READ" FM TUNER SPECIFICATIONS

## Popular Electronics

WORLD'S LARGEST-SELLING ELECTRONICS MAGAZINE JANUARY 1975 \$7.50

**PROJECT BREAKTHROUGH!**

### World's First Minicomputer Kit to Rival Commercial Models...

**"ALTAIR 8800" SAVE OVER \$1000**



**ALSO IN THIS ISSUE:**

- An Under-\$90 Scientific Calculator Project
- CCD's—TV Camera Tube Successor?
- Thyristor-Controlled Photoflashers

**TEST REPORTS:**

- Technics 200 Speaker System
- Pioneer RT-1011 Open-Reel Recorder
- Tram Diamond-40 CB AM Transceiver
- Edmund Scientific "Kirlian" Photo Kit
- Hewlett-Packard 5381 Frequency Counter

# GENESIS

SOL LIBES FORM ACGNJ – 1<sup>ST</sup>  
INCORPORATED PC CLUB

**SPRING 1975**



# GENESIS

- **AL KATZ -1<sup>ST</sup> EME WAC**
- **GETS INTERESTED IN MICROPROCESSORS**
- **REALIZES IMPACT & STARTS TEACHING ASSEMBLY LANGUAGE**
- **JOINS ACGNJ**

**1976**





# GENESIS

FALL 1975

SOL LIBES WITH ACGNJ

&

AL AT TSC (NEW ENGR PRGM)

NEED VISIBILITY & WANT TO PROVIDE SERVICE

JOIN FORCES TO PRODUCE  
FIRST COMPUTER FESTIVAL

(ROGER SAYS TCF WAS HIS ORIGINAL IDEA)

# GENESIS

1976

## ACGNJ BOARD OF DIRECTORS

- PRES: SOL LIBES
- VP: MARTIN NICHOLS
- REC SEC: PIERCE CAPELL
- CORR SEC: EDWARD EIBLING
- TREAS: KEVIN REDDEN
- DIR: TOM KIRK
- DIR: WILLIAM KLOTZ
- DIR: ALLEN KATZ
- DIR: ARTHUR FOWLER
- DIR: ROGER AMIDON
- DIR: DOUGLAS L. MOSER

RESULT

TCF '76

APRIL

ARMSTRONG HALL

> 1000 ATTENDED

GREAT MEDIA ATTENTION



# TCF76 –FRONT PAGE NY TIMES

## Low-Cost Computers Beginning to Move Into the Home

By BOYCE RENSBERGER

Special to The New York Times

TRENTON, May 3—The computer, once an awesome, mysterious and incredibly expensive machine of superhuman powers, has become the hottest new toy of electronics hobbyists, some of whom predict that within a few years computers will be commonplace in American homes.

Retail computer stores—the Hoboken Computer Works, for one—are springing up around the country. Several computer hobbyist magazines have begun publishing. And yesterday the new movement held its first convention—the Trenton Computer Festival, which drew an estimated 1,500 men, women and children to lectures, commercial exhibits and an outdoor computer flea market.

"We're on the doorstep of a brand new thing," said Sol Libes, a festival organizer who is president of the Amateur Computer Group of New Jersey. "Until a year or so ago, there weren't more than a hundred or so people who had computers in their homes. Now we estimate there are around 5,000. And it's growing."

The upsurge in amateur computer hobbyism is the direct result of the sudden and dramatic decline in the price of



The New York Times/William E. Squire

Continued on

Column 2

Electronics hobbyists looking over offerings at Trenton Computer Festival on Sunday





Photo by Marj -- Copyright 1976, 2000 by Marj Kirk Prager



Photo by Marj -- Copyright 1976, 2000 by Marj Kirk



Photo by Marj -- Copyright 1976, 2000 by Marj

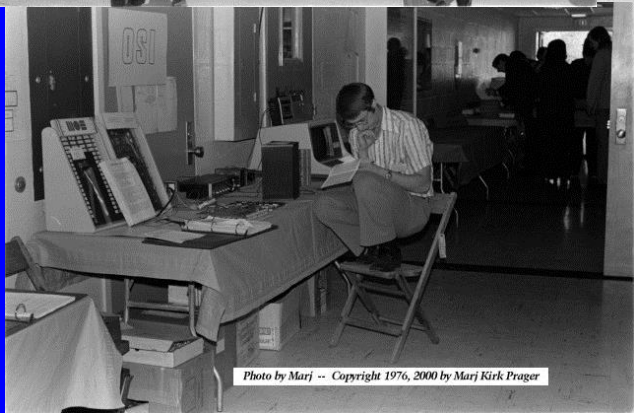
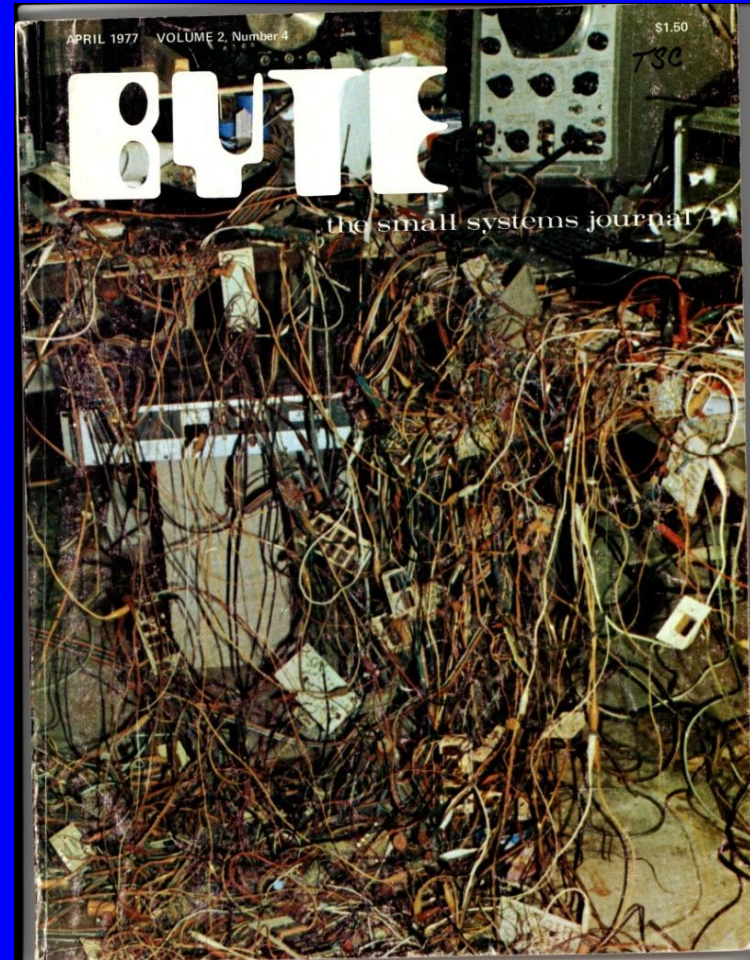
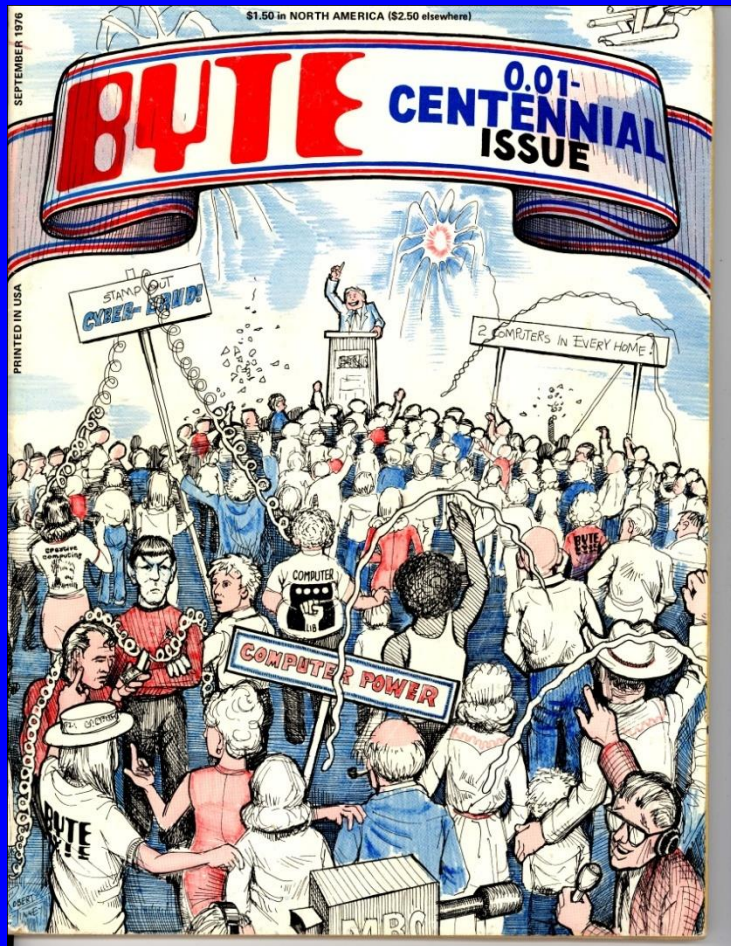


Photo by Marj -- Copyright 1976, 2000 by Marj Kirk Prager

TCF '76



# BYTE & KILOBYTE MAGAZINES



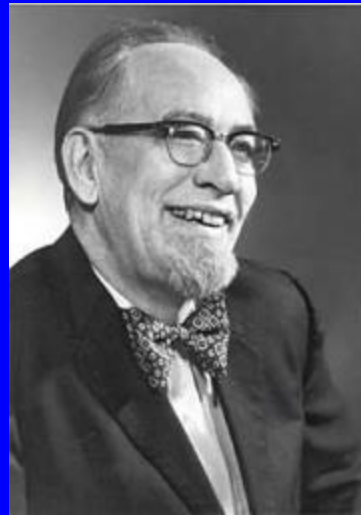
# OTHER COMPUTER FESTIVALES



**TCF'77 – MORE THAN DOUBLED IN SIZE**

**FIRST KEYNOTE SPEAKER**

**MR. AND MRS. JOHN W. MAUCHLY**



**INVENTOR OF THE FIRST DIGITAL COMPUTER**

**THE CIRCUMSTANCES SURROUNDING THE  
INVENTION OF THE FIRST DIGITAL COMPUTER**



- 1978 David Ahl**, Publisher Creative Computing Magazine
- 1979 Wayne Green**, Publisher of Kilobaud Magazine,
- 1980 Carl Helmers**, Executive Editor of BYTE Magazine
- 1981 Dr. Adam Osborne**, Author & 1st Portable Computer
- 1982 Dr. Gary Kildall**, Creator of CP/M
- 1983 Dr. Ken Iverson**, IBM, Creator of APL
- 1984 Steve Ciarcia**, Ciarcia's Circuit Cellar
- 1985 Seymour Rubinstein**, Originator of Word Star.
- 1986 Philip Lemmons**, Editor of BYTE Magazine
- 1987 Claudia Choi**, Editor Family Computing Magazine
- 1988 Chris Rukowski**, Founder and CEO Rising Star Inc.

# TCF'89 BILL GATES, CEO MICROSOFT



IN ROOM BSC 202

LAST TIME TCF AT TCNJ UNTIL 2005

10 YEARS AT MCCC & 5 NJCS

# **1990 TO 1999 TCF WAS AT MCCC**

## **TCF WAS KICKED OUT OF TCNJ BY EWING TOWNSHIP**

- **David House**, Senior VP Intel Corp. "Advances in Microcomputers"
- **Gordon E. Eubanks**, CEO Symantec Corporation, "The Future of Personal Computing",
- **Bjarne Stroustrup**, Developer C++
- **Phil Zimmerman**, Creator PGP – Cryptography
- **Dennis Hayes**, "The Future of High Speed Internet Communications"
- **Eric Raymond**, "Open Source Software Movement"

# 2000 TO 2004 TCF WAS AT NJ CONVENTION CENTER

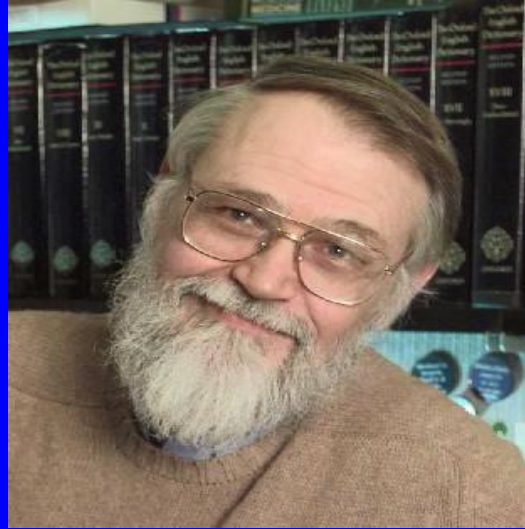


**MANAGED BY KGP**  
**KEN OFFERED A DEAL WE COULD NOT REFUSE**

**Emmanuel Goldstein, Ari Kaplan & Rebecca Mercuri**



# **IN 2005 TCF RETURNS TO TCNJ STILL MANAGED BY KGP**



**Dr. Brian Kernighan was Keynote  
After TCF 2005 Ken Gordon Retires  
Search for New Manager**

**TCF ITPC ADDED ON FRIDAY**

# 2006 GREGORY OLSEN, 3<sup>RD</sup> PRIVATE CITIZEN TO ORBIT THE EARTH IS TCF KEYNOTE



**MarketPro Takes Over Management 2006, 2007, 2008**

# **IN 2009 MARKETPRO SEVERES RELATIONSHIP WITH TCF AND RUNS OWN SHOW IN COMPETITION**



**IEEE REGION I  
STUDENT  
CONFERENCE  
AT TCF**

**TCF TEAM TAKES OVER MANAGEMENT OF  
VENDORS & SHOW FOR 1<sup>ST</sup> TIME IN 10 YEARS  
CESOP DROPS OUT AS TCF SPONSOR  
BRING DVRA TO HELP WITH REG.**



# **IN 2010 MOVE TALKS TO SSB DVRA RUNS NJ HAM CONVENTION MAVHFS RUNS FLEA MARKET**



**HOST FIRST STEM EVENT TO BECOME ISEC**



# IN 2011 MOVE VENDORS TO GYM FINANCIAL DISASTER



**TCF TALKS & NJ HAM CONVENTION VERY  
SUCCESSFUL**

# KEEPING TCF ALIVE - RESPONSE

## 2011 MANY SPONSORING CLUBS LEFT TCF

- **TCF CORP DISBANDED** – TCNJ TOOK ON \$ RISK
- DOWNSIZED TCF TO ONE DAY + ITPC & ISEC PROFESSIONAL CONFERENCES
- HAD TO ELIMINATE POSTAL MAILING
- MOVED EARIER IN YEAR TO GET FAVORABLE ROOM RATE
- MOVED VENDORS FLEA MARKET INDOORS

# IN 2012 AND 2013

- TCF WAS IN ARMSTRONG HALL AND PHYSICS BUILDING
- HAD MODEST GROWTH FROM 600 TO 800 ATTENDANCE



## IN 2014 MOVE TO EDUCATION BUILDING

- BETTER PARKING
- MORE SPACE AND CONSOLIDATED



## FUTURE – BRIGHTER

(NEW ENGINEERING BUILDING COMING)



# IN 2014

- ED BUILDING BEST TO DATE
- HAD MODEST GROWTH  
~ 900 ATTENDANCE
- **IN NEAR FUTURE WIL STAY  
IN ED BUILDING**

**NEW ENGINEERING BUILDING  
UNDER CONSTRUCTION**





# THIS YEAR 40<sup>TH</sup> TCF (2015)

- INVITE ATTENDEES FROM TCF@1
- INVITE BACK PAST TCF KEYNOTE SPEAKERS
- HAVE RECEPTION FOR PC PIONEERS

**NOW LOOKING FOR IDEAS**

# TCF@50

# FUTURE TRENDS FOR TCF@50

- BIOLOGY & COMPUTING?
- PARALLEL SYSTEMS – SETI@HOME



- MEMS (MICRO ELECTRONIC)  
MECHANICAL SYSTEMS) COMBINED  
WITH COMPUTERS

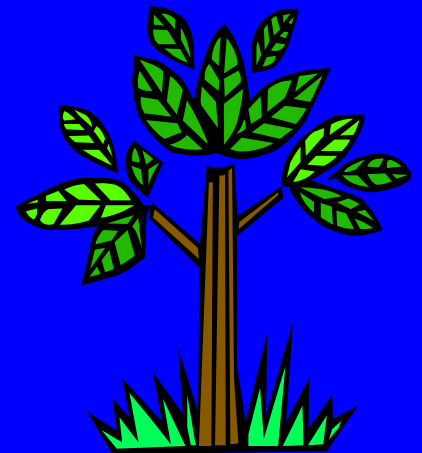
# COMPUTERS THAT “THINK”

*COMPUTER* BASED LIFE --

JEFF HAWKINGS - *ON INTELLIGENCE*

REPRODUCTION  $\neq$  GAGE OF LIFE  
CONSCIOUS IS KEY

COMPUTER LIFE FORMS WILL  
NOT WANT TO TALK WITH US!



# CONCLUSION



- THE NEXT 500 YEARS  
WILL BE VERY  
DIFFERENT FROM THE  
PAST 500 YEARS.
- **TCF@50 BRING BIG SURPRISES!**
- WILL BE MORE COMPUTERS THAN PEOPLE.
- COMPUTERS COULD BE THE DOMINANT  
SPECIES..... WILL WE CARE?