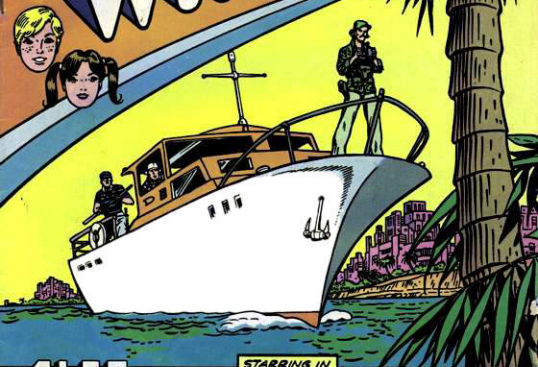


**TANDY COMPUTER**

CAT. NO. 68-2030

# whizkids™



**ALEC AND  
SHANNA**

STARRING IN

**THE COMPUTERS THAT  
SAID *NO* TO DRUGS!**

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TANDY COMPUTER

# Whizkids

ALEC AND SHANNA  
STARRING IN

## THE COMPUTERS THAT SAID "NO" TO DRUGS!

ALONG THE INTRACASTAL WATERWAY...

HEY, JOE—  
THIS'S GOTTA  
BE ONE OF THE  
SLICKEST  
SMUGGLING JOBS  
IN THE COUNTRY!

YOU'RE CATCHING ON,  
KENT! I'LL BET THE  
POLICE AND COAST GUARD  
ARE GOING CRAZY TRYING  
TO FIGURE IT OUT!

HA!  
HA!

YEAH, BUT  
LET'S NOT FORGET  
WHOSE IDEA IT  
WAS IN THE FIRST  
PLACE—

WRITER: PAUL KUPPERBERG • ARTISTS: DICK STERS & CHIC STONE • EDITORIAL DIRECTOR: WILLIAM PALMER

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CAT. NO. 88-2030

—MINE! I WAS THE ONE WHO THOUGHT OF USING THE INTRACOASTAL WATERWAY FOR OUR DRUG DROPS.

THE WAY I SEE IT WE STAND TO MAKE A MILLION BUCKS ON THIS TRIP ALONE...

...IF YOU TWO GUYS DONT GOOF UP YOUR END OF THE JOB!

YOU DONT HAVE TO WORRY ABOUT US, AL!

YEAH YOU CAN COUNT ON US BOSS!

MEANWHILE, AT THE COASTAL CITY ELEMENTARY SCHOOL...

COASTAL CITY ELEMENTARY SCHOOL

GOOD MORNING, CLASS. WELL I SEE WE HAVE FULL ATTENDANCE TODAY—

—BUT THEN I KNEW NOBODY WOULD WANT TO MISS TODAY'S SESSION—CONSIDERING THE THREE SURPRISES I HAVE IN STORE FOR YOU!

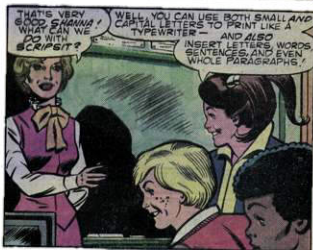
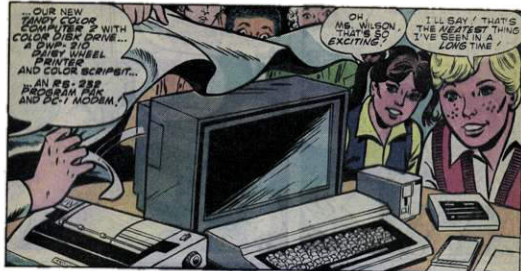
WOW!

THIS'LL BE NEAT! MR. WILSON ALWAYS HAS THE BEST SURPRISES!

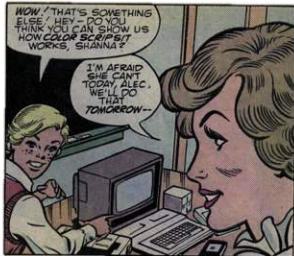
I CAN HARDLY WAIT TO SEE WHAT IT IS TODAY!

DONT KEEP US WAITING, MR. WILSON! THE SUSPENSE IS KILLING ME!

HA HA! IT CANT BE THAT BAD, ALEC, BUT IF YOU'LL LET ME GET A WORD IN EDGEWISE, I'D BE HAPPY TO INTRODUCE YOU TO THE NEWEST MEMBER OF OUR CLASS...

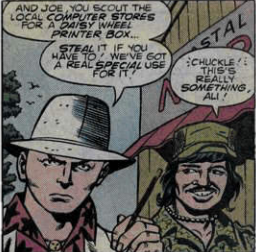






- WE TURN OUR ATTENTION TO THE COASTAL CITY MARINA...

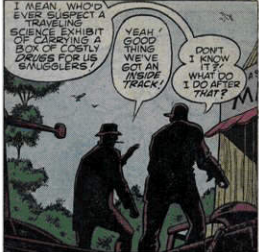




AND JOE, YOU SCOUT THE LOCAL COMPUTER STORES FOR A DAISY WHEEL PRINTER BOX...

STEAL IT IF YOU HAVE TO, WE'VE GOT A REAL SPECIAL USE FOR IT!

:CHUCKLE: THIS'S REALLY SOMETHING, ALI!



I MEAN, WHO'D EVER SUSPECT A TRAVELING SCIENCE EXHIBIT OF CARRYING A BOX OF COSTLY DRUGS FOR US SNUGLERS!

YEAH! GOOD THING WE'VE GOT AN INSIDE TRACK!

DON'T I KNOW IT? WHAT DO I DO AFTER THAT?



AT 8:00 TONIGHT, PICK UP ANOTHER ORDER FROM OUR FRIEND AT 27 CANAL STREET! HE'S ALSO SUPPOSED TO GIVE US ANOTHER PAGE OF THOSE CHICKEN SCRATCHIN'S CODE FOR OUR NEXT JOB!

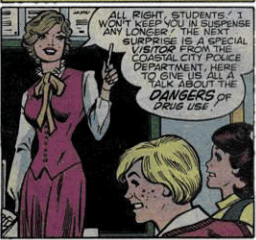


YOU GOT IT, ALI! YOU GONNA STILL BE HERE WHEN I GET BACK?

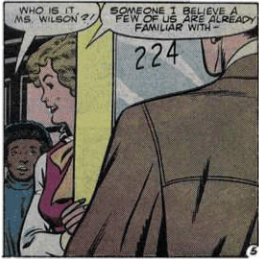
UH-HUH-I'M GOING TO TAKE A CAT NAP WHILE YOU GUYS ARE GONE!

AND SO, AN ILLEGAL VENTURE IS SET IN MOTION

-- WHILE BACK IN THE CLASSROOM --



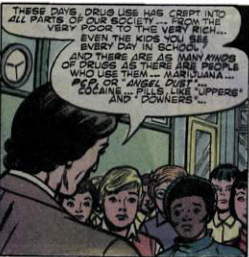
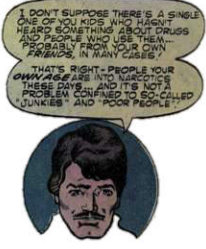
ALL RIGHT, STUDENTS, I WON'T KEEP YOU IN SUSPENSE ANY LONGER! THE NEXT SURPRISE IS A SPECIAL VISITOR FROM THE COASTAL CITY POLICE DEPARTMENT, HERE TO GIVE US ALL A TALK ABOUT THE DANGERS OF DRUG USE!



WHO IS IT, MS. WILSON?!

SOMEONE I BELIEVE A FEW OF US ARE ALREADY FAMILIAR WITH -

224

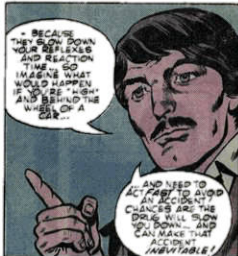






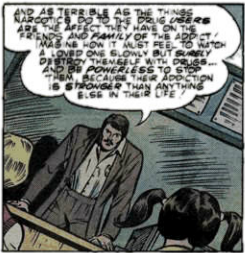
THAT'S RIGHT... DRUGS CAN KILL YOU... AND THEY'RE NOT FAST, LIKE A KNIFE OR A GUN... THEY'RE SLOW AND ANFUL...

...WASTING AWAY YOUR MIND AND BODY... EVEN SO CALLED "COOL" DRUGS LIKE MARIJUANA, WHICH SOME PEOPLE CLAIM ARE HARMLESS ARE DEADLY...



... BECAUSE THEY SLOW DOWN YOUR REFLEXES AND REACTION TIME... SO IMAGINE WHAT WOULD HAPPEN IF YOU'RE "HIGH" AND BEHIND THE WHEEL OF A CAR...

... AND NEED TO ACT FAST TO AVOID AN ACCIDENT? CHANCES ARE THE DRUG WILL SLOW YOU DOWN... AND CAN MAKE THAT ACCIDENT INEVITABLE!

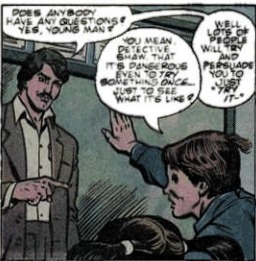


AND AS TERRIBLE AS THE THINGS NARCOTICS DO TO THE DRUG USERS ARE THE AFFECT THEY HAVE ON THE FRIENDS AND FAMILY OF THE ADDICT! IMAGINE HOW IT MUST FEEL TO WATCH A LOVED ONE SLOWLY BUT SURELY DESTROY THEMSELVES WITH DRUGS... AND BE POWERLESS TO STOP THEM, BECAUSE THEIR ADDICTION IS STRONGER THAN ANYTHING ELSE IN THEIR LIFE!



YOU'VE SEEN IT HAPPEN TO KIDS YOU KNOW... YOU'VE READ ABOUT IT... SEEN IT ON T.V. OR ON THE NEWS... MAYBE SPEECHES LIKE THESE SOUND SCARY, BUT THEY SHOULD!

I'D RATHER SCARE YOU WITH WORDS THAN SEE YOUR LIFE WRECKED BY DRUGS!



DOES ANYBODY HAVE ANY QUESTIONS? YES, YOUNG MAN?

YOU MEAN, DETECTIVE SHAW, THAT IT'S DANGEROUS EVEN TO TRY SOMETHING ONCE... JUST TO SEE WHAT IT'S LIKE?

WELL, LOTS OF PEOPLE WILL TRY AND PERSUADE YOU TO JUST "TRY IT."



... BUT WOULD YOU TASTE JUST A LITTLE BIT OF POISON TO FIND OUT WHAT IT'S LIKE?

GOSH, NO, SIR, THAT'D BE STUPID!





MEANWHILE, ON THE COASTAL CITY WATERFRONT, AS INVESTIGATIVE REPORTER JUDY BAKER WALKS TO HER CAR...

WELL, I SURE WASTED MY TIME WITH THAT LAST INTERVIEW!



OH WELL, I GUESS I'D BETTER GET BACK TO THE COASTAL CITY NEWS AND...

**WAIT!**

THOSE TWO MEN... I RECOGNIZE THEM... HAMMM... YES! IT WAS A STORY IN THE NEWSPAPER LAST MONTH -



"ABOUT THOSE SMUGGLERS RELEASED FROM PRISON... THEY WERE PART OF THE GANG." IN FACT I REMEMBER READING HOW THEY LIKED TO OPERATE OUT AT SEA... SO I DON'T HAVE TO GUESS WHAT THEY'RE DOING HERE AT THE MARINA!



THEY MUST HAVE COME FROM THAT BOAT... THE "BIG BUCKS"!

I SMELL A STORY HERE... A BIG ONE! PERHAPS A NEW SMUGGLING SCHEME -



COASTAL CITY MARINA

-AND IF I CAN GET THE INSIDE SCOOP ON IT I CAN GRAB SOME GREAT HEADLINES!

WELL NOBODY SEEMS TO BE AROUND...



BUT I'D BETTER CHECK! IF SOMEONE ANSWERS, I CAN JUST ACT LIKE I'M LOST AND NEED DIRECTIONS!

HELLO? ANYONE HOME?

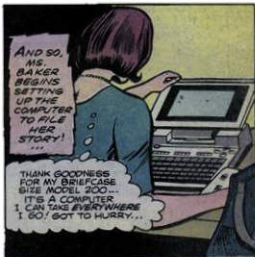
**KNOCK! KNOCK!**

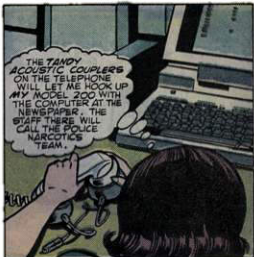












...THAT CAN ONLY BE ANSWERED BY  
RETURNING TO THE "B'S BUCKS"...



**THE COASTAL CITY POLICE HEADQUARTERS...**

HEY, CAPTAIN MARTIN!  
YOU BETTER COME AND  
HEAR THIS PHONE CALL...

POLICE

POLICE

IT'S A RANSOM DEMAND-  
FOR A REPORTER! I'VE  
PUT IT ON THE SPEAKER-  
PHONE!

I WON'T SAY THIS AGAIN, SO  
LISTEN GOOD! WE'RE HOLDING  
JUDY BAKER, WHO TELLS US  
SHE'S A REPORTER FOR THE  
COASTAL CITY NEWS!

IF WE DON'T  
RECEIVE ONE MILLION  
DOLLARS...

PLUS SAFE CONDUCT TO THE AIRPORT,  
AND A PLANE FUELED AND READY TO  
FLY US OUTTA HERE - AND WE'LL TELL  
THE PILOT WHERE WE WANT TO GO  
AFTER WE'RE IN THE AIR!

I'LL CALL BACK AT 6 A.M. SHARP TOMORROW  
MORNING TO TELL YOU WHERE TO DELIVER  
THE RANSOM - AND YOU'D BETTER HAVE  
THE MONEY AND THE PLANE READY...

...OR YOU'LL NEVER  
SEE THE NEWSPAPER  
REPORTER AGAIN!

THESE ARE ANXIOUS HOURS FOR THE POLICE AND  
STAFF OF THE COASTAL CITY NEWS, AS THEY  
AWAIT WORD ON JUDY BAKER!

BUT THEY  
PASS  
EVENTUALLY,  
AND  
MORNING  
FINDS US AT  
COUNTY  
HALL -



...HERE ALEC AND SHANNA, THE TANDY WHIZ KIDS, ARE ALREADY HARD AT WORK ON THEIR SPECIAL ASSIGNMENT AT THE TRAVELING SCIENCE AND TECHNOLOGY EXHIBIT!

WHOW! THIS IS SURE HARDER THAN SITTING IN CLASS, HUH, SHANNA?

YES - BUT IT'S FUN... AND EDUCATIONAL, TOO!

BESIDES, I'M GLAD MS. WILSON CHOSE US TO HELP OUT!

ME TOO!

THIS END UP

SAY ALEC, ISN'T THAT DETECTIVE SHAW OVER THERE?

SURE IS! GOSH, I WONDER WHAT HE'S DOING HERE? WELL, ONLY ONE WAY TO FIND OUT -

- IS TO ASK! HIYA, DET. SHAW... IT'S US, ALEC AND SHANNA FROM MS. WILSON'S CLASS!

HEY! WHAT'RE YOU KIDS DOING HERE?

MS. WILSON CHOSE US TO HELP SET UP THE EXHIBIT!

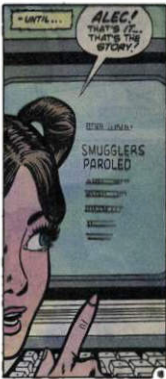
WE WERE GONNA ASK YOU THE SAME QUESTION, MR. SHAW! ARE YOU WORKING ON A CASE?!

MS. BAKER'S BEEN KIDNAPPED... AND THE ONLY CLUES WE'VE GOT ARE FROM A PRINTOUT SHE SENT OVER HER MODEL 200 COMPUTER ABOUT DRUGS BEING HIDDEN AT THE SCIENCE EXHIBIT AND THE NAMES "ALI GURKA" AND "BIG BUCKS"!

YOU'VE JUST GOT TO FIND HER, DET. SHAW!

KIDNAPPED?! OH THAT'S TERRIBLE!

AS A MATTER OF FACT, I AM ALEC... ONE THAT INVOLVES A FRIEND OF OURS!



"SMUGGLERS PAROLED...  
KENT JONES, AND JOE ORTEGA...  
AND ALI GURKA!"

MS. BAKER WAS TRYING  
TO TELL US SHE'S BEEN  
KIDNAPPED BY THOSE  
SMUGGLERS! NOW IF  
ONLY WE KNEW WHAT  
"BIG BUCKS" MEANT...

DET.  
SHAW!  
YOU'VE  
GOTTA  
SEE  
THIS!

GURKA! I SHOULD'VE RECOGNIZED  
IT IMMEDIATELY! THIS IS THE FIRST  
LEAD WE'VE GOTTEN!  
GOOD WORK, SHANNA!

ANYTHING  
TO HELP  
MS. BAKER!

WHAT  
NEXT,  
DETECTIVE  
SHAW?

"NEXT," DETECTIVE SHAW SAYS GRIMLY, "WE HEAD FOR  
HEADQUARTERS AND SEE WHAT OUR POLICE COMPUTERS  
CAN DIG UP ON ALI GURKA."

"ACCORDING  
TO THE REPORTS  
FROM THEIR PAROLE  
OFFICERS, GURKA,  
JONES, AND ORTEGA  
DROPPED OUT OF  
SIGHT SHORTLY  
AFTER THEIR  
RELEASE."

WELL THEY'RE BACK...  
ADDING KIDNAPPING  
TO THEIR LIST OF  
CRIMES! ANYWAY  
WE CAN TRACK THEM  
DOWN, BILL!

OUR COMPUTERS  
ARE TIED IN TO A  
NATIONWIDE NET -  
WORK OF LAW  
ENFORCEMENT  
COMPUTERS-

-AND THEY'RE  
WORKING AS  
FAST AS POSSIBLE,  
BUT WE NEED A  
GOOD LEAD,  
RIGHT NOW!

HMMM - HOW ABOUT THIS!  
THESE GUYS USED TO WORK  
OFF OF BOATS... MAYBE  
MS. BAKER'S MYSTERIOUS  
"BIG BUCKS" IS THE NAME  
OF THE BOAT THEY'RE  
USING NOW! CAN WE  
FIND OUT?

I'LL FIND OUT  
WITH A PHONE  
CALL TO THE  
COASTAL CITY MARINA  
TO FIND OUT IF A  
BOAT BY THAT  
NAME IS TIED  
UP THERE!



HALF AN HOUR LATER, AT THE COASTAL CITY MARINA...









MEANWHILE,  
OUTSIDE...

OKAY, DET. SHAW - MY MEN  
ARE IN POSITION... THE FROSMEN  
ARE IN THE WATER AROUND THE  
BOAT, THOSE KIDNAPPERS ARE  
TRAPPED IN THERE!

YEAH, BUT SO IS  
JUDY BAKER - AND  
GETTING HER OUT  
ALIVE IS THE MOST  
IMPORTANT... AND  
HARDEST PART OF  
OUR JOB!



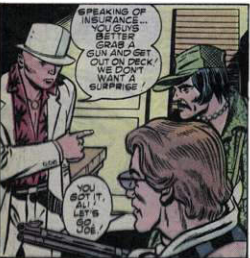
KRACKLE... FROSMAN 1 TO SHAW / I'M ON  
TOP DECK... 2 MEN IN SIGHT... OTHER  
MAN AND MS. BAKER MUST BE IN THE  
CABIN BELOW!

FINE  
FROSMAN 1  
KEEP THEM  
IN SIGHT!

SO NOW  
WE  
KNOW  
JUDY'S  
ALL RIGHT-



-BUT HOW  
DO WE GET HER  
OUT OF THERE  
PAST THREE  
ARMED  
KIDNAPPERS?!



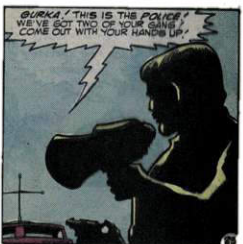
SPEAKING OF  
INSURANCE...  
YOU GUYS  
BETTER  
GRAB A  
GUN AND GET  
OUT ON DECK!  
WE DON'T  
WANT A  
SURPRISE!

YOU  
GOT IT,  
AL!  
LET'S  
GO  
JOB!



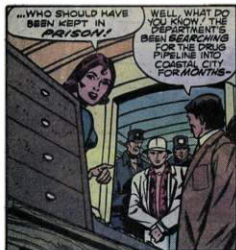
I'LL FEEL  
A LOT BETTER  
WHEN WE'RE ON  
THAT PLANE!

OH-OH!  
HERE COME  
TWO OF  
THEM -  
BUT THEY  
DON'T SEEM  
SUSPICIOUS...











AND SO, THE NEXT DAY WHEN THE TRAVELING SCIENCE AND TECHNOLOGY EXHIBIT OPENS IN COASTAL CITY, SPECIAL CEREMONIES ARE ADDED TO THE DAY'S EVENTS...

WELCOME TO THE GRAND OPENING OF THIS UNIQUE EVENT, LADIES AND GENTLEMEN OF OUR FINE CITY! WE'RE PROUD TODAY TO NOT ONLY WELCOME THE TRAVELING EXHIBIT TO COASTAL CITY--

-- BUT ALSO TO HONOR FOUR COURAGEOUS CITIZENS OF OUR CITY... DETECTIVE SHAW OF THE COASTAL CITY POLICE... JUDY BAKER OF THE COASTAL CITY NEWS...

... AND ALEC AND SHANNA, OUR OWN TANDY COMPUTER WHIZ KIDS, FOR THEIR PART IN HELPING IDENTIFY AND APPREHEND DRUG SMUGGLERS WHO SOUGHT TO USE THIS EXHIBIT TO SPREAD THEIR VILE NARCOTICS INTO OUR COUNTRY!

# TRAVELING SCIENCE EXHIBIT

TODAY

CONGRATULATIONS  
ALEC AND SHANNA,  
THE TANDY COMPUTER  
**WHIZ KIDS!**

COASTAL CITY THANKS  
DETECTIVE SHAW AND  
JUDY BAKER



WE ARE LUCKY AND PROUD TO HAVE SUCH CONCERNED AND DEDICATED CITIZENS WHO ARE WILLING TO DO THEIR ALL TO PROTECT OUR STREETS FROM CRIME AND DRUGS...



...NO MATTER WHAT THE RISK TO OURSELVES! THE DRUG TRADE IN THIS CITY HAS BEEN HURT BY THE ARREST OF THE SMUGGLERS...

...BECAUSE THESE FOUR PEOPLE CARED ENOUGH TO DO SOMETHING ABOUT IT!



SO, AS COASTAL CITY'S MAYOR, IT IS MY PRIVILEGE TO AWARD THESE SPECIAL CERTIFICATES OF MERIT TO ALEC, SHANNA, DET. SHAW AND MS. BAKER... AND THANK YOU FOR ALL YOU'VE DONE FOR US!

BELIEVE ME, MAYOR PATTERSON—IT WAS WELL WORTH THE EFFORT!

THANKS FOR THE CERTIFICATE, MAYOR, BUT I WAS DOING MY DUTY LIKE ALL MEMBERS OF THE POLICE DEPARTMENT!

GEE, THANKS, YOUR HONOR! BUT WE ALSO HAD HELP FROM A TANDY COLOR COMPUTER 2... USING IT TO FIND INFORMATION ABOUT THE SMUGGLERS!

WE'RE JUST GLAD TO HELP, MA'AM! WE LEARNED A VALUABLE LESSON...



THAT THE BEST WAY FOR ANYONE TO FIGHT DRUG SMUGGLING IS TO SAY "NO" TO DRUG USE!

YAYYY!

THREE CHEERS FOR MS. BAKER...

DET. SHAW...

...AND THE **TANDY COMPUTER WHIZ KIDS!**



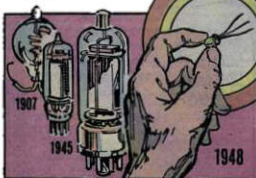
# TANDY bits & bytes of Computer History

**T**ODAY, MICROCOMPUTERS (MEANING TINY IN SIZE) ARE RESHAPING OUR WAY OF LIFE. THE **COMPUTER AGE** IS TRULY HERE. BUT, IT REALLY BEGAN ALMOST **200** YEARS AGO!

IN THE LATE 1940'S, SCIENTISTS MADE A REVOLUTIONARY DISCOVERY FOR RADIO CIRCUITS. WHAT WAS IT?

I KNOW! IT WAS THE **TRANSISTOR** IN 1948.

THEIR RESEARCH WAS DONE AT WORLD FAMOUS BELL TELEPHONE LABS. MANY TIMES SMALLER THAN RADIO TUBES, THE TRANSISTOR MADE POSSIBLE POCKET RADIOS, CALCULATORS, AND SMALLER STEREO SETS.



IN 1801, JOSEPH MARIE JACQUARD, CALLED THE "FATHER OF THE COMPUTER," WAS HONORED BY THE EXPOSITION IN PARIS FOR A WEAVING LOOM WHICH USED PROGRAMMED, PUNCHED, CARDS TO CONTROL THE WEAVING OF COMPLEX PATTERNS FROM THREAD.



JOHN BARDEEN



WALTER BRATTAIN



WILLIAM SHOCKLEY

YES, THE NOBEL PRIZE IN PHYSICS WAS SPLIT BETWEEN THREE AMERICANS... FOR INVENTING THE TRANSISTOR: JOHN BARDEEN, WILLIAM SHOCKLEY, AND WALTER BRATTAIN.

SHOWN BESIDE A COIN TO GIVE YOU AN IDEA OF ITS SMALL SIZE.



NEXT CAME THE TINY IC (INTEGRATED CIRCUIT) USED IN TODAY'S RADIOS, STEREO HI-FI SETS, AND POWERFUL DESK-SIZE HOME AND BUSINESS COMPUTERS LIKE THE TANDY 1000. **529**

# COMPUTER AGE!

TODAY'S LESSON IS ABOUT COMPUTERS. THIS IS A PROGRAM CALLED **SCRIPTSIT** ... DOES ANYONE KNOW HOW IT IS USED?

I KNOW, TEACHER! MY DAD HAS ONE OF THESE TRS-80 MODEL 12 COMPUTERS IN HIS OFFICE... AND HE TAUGHT ME HOW TO USE IT WITH A DAISY WHEEL PRINTER TO WRITE BUSINESS LETTERS, RESEARCH NOTES, PRESS RELEASES... BULLETINS...

ANY, YOU KNOW SO MUCH! SHOW US HOW...

...SCRIPTSIT WORD PROCESSING WORKS IN OUR SCHOOL'S OFFICE!

FIRST, TURN ON THE POWER SWITCH. WHEN "INSERT DISKETTE" APPEARS ON THE SCREEN... CAREFULLY PUSH THE DISKETTE INTO THE SLOT (DRIVE B) AND ROTATE THE LATCH TO A HORIZONTAL POSITION.

AFTER THAT, THE WORD "INITIALIZING" APPEARS ... WHICH MEANS THE COMPUTER IS LOADING THE PROGRAM...

AFTER THE LIGHT GOES OUT, THE PROGRAM HAS BEEN "LOADED" INTO YOUR COMPUTER. NEXT IT TELLS YOU TO TYPE IN THE DATE. ...FOR EXAMPLE, LET'S SAY APRIL 6, 1984. ...TYPE 04/06/1984 AND THEN PRESS THE ENTER KEY!

...ALSO, THE SMALL RED LIGHT NEXT TO THE DISK DOOR WILL BE "ON".

ENTER DATE (MM/DD/YYYY)

NEXT, THE COMPUTER PROMPTS YOU TO ENTER THE TIME, USING THE 24-HOUR SYSTEM (GIVING HOURS, MINUTES AND SECONDS). FOR EXAMPLE, 9:30 AND 20 SECONDS A.M. IS TYPED THIS WAY —09.30.20. THEN PRESS THE ENTER KEY.

...THAT MAKES THE "DIRECTORY" APPEAR ON THE SCREEN. THE DIRECTORY IS DIVIDED INTO SIX "CELLS". EACH CELL IS THE STORAGE UNIT FOR INFORMATION ABOUT ONE DOCUMENT.

ENTER TIME (HH.MM.SS)

NAME	AGE	SEX	HEIGHT	WEIGHT	HAIR	COLOUR
1. J. SMITH	25	M	5' 10"	170	B	BRN
2. M. JONES	30	F	5' 5"	120	B	BLK
3. R. BROWN	22	M	5' 8"	150	B	BLK
4. S. GREEN	28	F	5' 6"	130	B	BRN
5. T. WHITE	35	M	6' 0"	180	B	BLK
6. K. BLACK	20	F	5' 4"	110	B	BRN

10/10/84 10:00 AM 1000 1000 1000 1000 1000 1000

# COMPUTERS and ASTRONOMY...

**T**HE WORLD'S FIRST ALL-ELECTRONIC COMPUTERS WERE MADE IN THE UNITED STATES AT THE END OF WORLD WAR II. THESE COMPUTERS CONTAINED THOUSANDS OF VACUUM (RADIO) TUBES, RESISTORS, CAPACITORS AND SWITCHES — AND REQUIRED A ROOM-SIZE SPACE! THEY USHERED IN THE **COMPUTER AGE!**



**I**N THE LATE 1940'S, THE SSEC (SELECTIVE SEQUENCE ELECTRONIC CALCULATOR), WAS USED BY PIONEERING ASTRONOMER WALTER J. ECKERT AND ASSOCIATES TO COMPUTE A NEW EPHEMERIS — (CELESTIAL ALMANAC) FOR THE OUTER PLANETS JUPITER THROUGH PLUTO. IT REPORTEDLY TOOK 120 HOURS TO PERFORM ALL OF THE CALCULATIONS.\*

THESE SAME CALCULATIONS WERE REPORTEDLY PERFORMED BY A TRS-80 MODEL 1 1979 DESK-TOP COMPUTER AND PRINTER IN LESS THAN 11 HOURS!

\*QUOTED IN PART BY PERMISSION FROM APRIL 1984 SKY AND TELESCOPE MAGAZINE.

**T**HE ASTRONOMICAL CALCULATIONS MADE BY THE 1979 MODEL 1 COULD BE PERFORMED EVEN FASTER BY TODAY'S TANDY 1000 MICROCOMPUTER ...RECOGNIZED FOR ITS POWER AND STORAGE CAPACITY IN BUSINESS AND EDUCATIONAL USE.



DISK DRIVE

**I**NCIDENTALLY, ESTIMATES SAY THAT IT WOULD HAVE TAKEN ONE PERSON ABOUT 80 YEARS TO DO THE JOB — WITHOUT THE HELP OF A COMPUTER!



# STUDENT'S GUIDE TO COMPUTER LANGUAGE

- BACK-UP DISKETTE** A "Safe Copy" made from the original diskette and kept in case of damage or destruction of data on the original diskette.
- BASIC** Beginner's All-purpose Symbolic Instruction Code, a widely-used programming language.
- BINARY** A numbering system using only two digits, 0 and 1.
- BIT** The smallest unit a computer circuit can recognize.
- BOOT UP** To turn on a computer system (including all peripherals) and load an operating system or program.
- BREAK** To stop the execution of a program by pressing the key (**BREAK**) or by typing the word "STOP."
- BYTE** A combination of 8 consecutive binary digits.
- CASSETTE** An information storage medium composed of magnetic tape on a spool enclosed in plastic case.
- COMMAND** A function the computer performs upon your instructions.
- CONTROL** That section of a computer which directs the activity of all other sections.
- CURSOR** A flashing, white box on the screen which marks the location of the next letter or numeral.
- DATA** The information processed by a computer.
- DEFAULT** An action or value taken by a program if you do not specify which is to be used.
- DIRECTORY** A listing of the contents stored on a disk.
- DISK** A magnetic recording device for storage of data.
- EDIT** To change existing information.
- ENTER** The key on a keyboard that is pressed to enter data into the computer.
- K or KILOBYTE** The letter symbol for 1024 bytes.
- MEMORY** The section of a computer used for storage of information (also called data).
- MENU** A list of questions, or prompts, the answers to which determine how the computer will execute an instruction.
- PASSWORD** A file security option of up to 8 alphanumeric characters.
- POWER UP** To turn on the computer system (including all peripheral equipment).
- PROGRAM** The instructions that tell a computer how to process and deliver its answer or information.
- PROMPTS** Questions displayed on the screen which enable you to complete necessary instruction to the computer.
- SCRIPSIT** A program used in word-processing.

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