THE SCIENCE FAIR STORY OF

MAN'S DISCOVERY THAT CHANGED THE WORLD



FROM THE SCIENCE STUDENTS AND KIT BUILDERS OF TODAY... WILL COME THE INVENTORS WHO WILL SHAPE TOMORROW!

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"RADIO, TELEVISION. COMPUTERS, RECORDERS, TELEPHONES ...



SCANNERS AND MONITORS IN HOSPITALS ...



AUDIO-VISUALTEACHING AIDS IN CLASSROOMS ... "



THESE ARE ONLY A FEW THINGS THAT OPERATE ON THE PRINCIPLES OF ELECTRICITY AND ELECTRONICS. MANY OF US CAN'T IMAGINE LIFE WITHOUT THEM.



BUT NONE OF THESE THINGS JUST HAPPENED.)(0 IT'S TAKEN A LOT OF HARD WORK BY INVENTORS, SCIENTISTS. ENGINEERS, AND OTHERS TO BRING US THESE THINGS WE SIMPLY TURN ON.

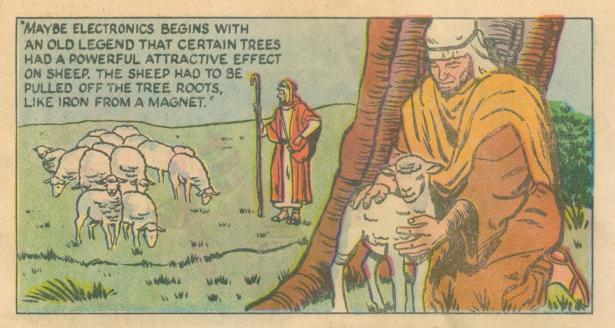
LOOK AT, LISTEN TO, TALK THROUGH ...







FOR SURE, IT MIGHT HAVE BEGUN LIKE THIS ... "



"AS EARLY AS 600 B.C. THALES OF MILETUS, GREECE THEORIZED A CONNECTION BETWEEN ELECTRICITY AND MAGNETISM. THE ANCIENTS EVEN TRIED ELECTRIC SHOCKS FROM EELS TO TREAT STIFFENING DISEASES."



ARCHEOLOGISTS HAVE DISCOVERED STRANGE CLAY POTS IN ANCIENT ARABIC RUINS WHICH INDICATE SOMEBODY WAS ELECTROPLATING JEWELRY 1000'S OF YEARS AGO."



WITH ALL
THAT, WHY
DIDN'T ANYONE
LEARN TO
UNDERSTAND
ELECTRICITY?

NO ONE REALLY
KNOWS! FOR SOME
REASON, PEOPLE
SEEMED TO THINK HUMAN
KNOWLEDGE DIDN'T HAVE
MUCH TO DO WITH
THE REAL WORLD!



"We think the first compass was this asian cart arrangement for navigating on the high asian plains. A piece of Lodestone in the Wood spindle kept its arm pointing north and a counter ticked off the distance





THE FIRST REAL BATTERY WAS BUILT ABOUT 1800 BY ALESSANDRO VOLTA TO SHOW THAT CERTAIN METAL AND CHEMICAL COMBINATIONS



'LATER, FARADAY DEVISED THE FIRST MACHINE TO MAKE ELECTRICITY FROM MECHANICAL ENERGY. IT WASN'T EFFICIENT BUT IT WORKED."





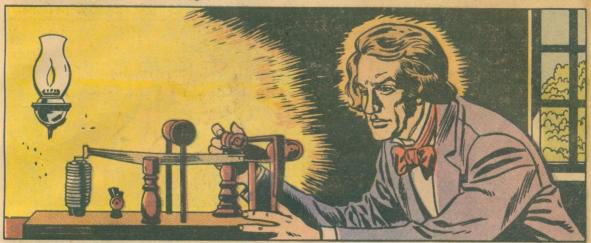
"IN 1808 HUMPHREY DAVY USED A LARGER BATTERY TO POWER THE FIRST ELECTRIC LIGHT. IT WAS A SIMPLE CARBON ARC LAMP."



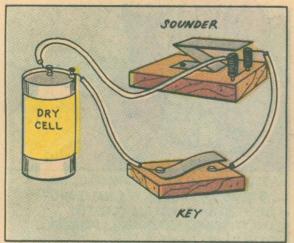
"... AND JUST ABOUT THAT TIME, JOSEPH HENRY WAS BUILDING THE FIRST (DIRECT CURRENT) ELECTRIC MOTOR IN ALBANY, NEWYORK."



"SAMUEL F.B. MORSE BUILT HIS FIRST TELEGRAPH SOUNDER IN 1836 FROM MANY MISCELLANEOUS PARTS INCLUDING AN OLD PICTURE FRAME." MORSE WAS ALSO A TALENTED PORTRAIT ARTIST."



"THIS PROJECT SHOWS HOW A TELEGRAPH SYSTEM WORKS"



"HIS WIRE TELEGRAPH WAS THE FIRST PRACTICAL LONG-RANGE COMMUNICATIONS SYSTEM. IN 1861, STEPHEN FIELD SENT THE FIRST TRANSCONTINENTAL TELEGRAPH MESSAGE TO PRESIDENT LINCOLN."







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"AT THE BERLIN EXPOSITION IN 1879, THEY HAD ONLY SWITCHES TO CONTROL ELECTRICITY, BUT AN ELECTRIC TRAIN CARRIED 100,000 PASSENGERS THAT SEASON."



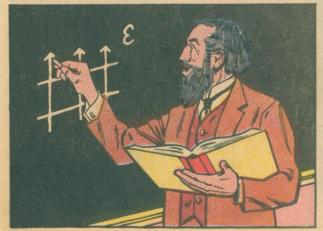
ELECTRIC LIGHTS WERE HARDER TO MAKE THAN ELECTRIC TRAINS! THAT SAME YEAR, AFTER MUCH HARD WORK EDISON CAME UP WITH AN EXPERIMENTAL LAMP THAT BURNED FOR SEVERAL HUNDRED HOURS!



"EDISON HAD TO DEVELOP NEW METHODS USING NACHILIM SYSTEMS AND GLASS BUILDED OF

"EDISON HAD TO DEVELOP NEW METHODS USING VACUUM SYSTEMS AND GLASS BULBS! ONE OF HIS TESTS SHOWED AN ELECTRIC CURRENT COULD FLOW THROUGH A VACUUM; A PRINCIPLE LATER USED IN RADIO TUBES."

"ABOUT THIS TIME, MAXWELL WAS STUDYING THE WORKS OF FARADAY, DAVY AND OTHERS. HIS MATHEMATICS PREDICTED ELECTRO-MAGNETIC DISTURBANCES IN SPACE."







"THE FIRST TRANSATLANTIC CABLES WERE UNRELIABLE, AND MESSAGES COST THE MODERN EQUIVALENT OF SEVERAL DOLLARS A WORD."



"...THERE WERE RADIO-ASSISTED RESCUES SOMETIME BEFORE TRANSATLANTIC WIRELESS COMMUNICATIONS BEGAN."



SO EVERYBODY
WANTED WIRELESS
COMMUNICATIONS
ACROSS THE
ATLANTIC TO
SAVE TIME
AND MONEY!

AND MONEY!

YES...AND FOR
SHIPS AT SEA TO
COMMUNICATE
WITH MEN ON
SHORE...

"ON DECEMBER 12, 1901, GUGLIELMO
MARCONI SENT THE FIRST TRANSATLANTIC
WIRELESS MESSAGE FROM ENGLAND TO
NEWFOUNDLAND. THIS SUCCESS SHOWED
THE LONG-RANGE POSSIBILITIES OF
RADIO COMMUNICATIONS."



"IN A FEW YEARS, LONG-RANGE RADIO COMMUNICATIONS WERE ALMOST ROUTINE."



BOB, CAN YOU THINK
WHAT REVOLUTIONIZED
ELECTRONICS A FEW
YEARS AFTER THAT
FIRST TRANSATLANTIC
COMMUNICATION?

ELECTRIC CURRENT
FLOWING IN A
VACUUM!

RIGHT, BOB! IN A FEW YEARS, RECEIVERS
USING MODIFIED AUDIONS REVOLUTIONIZED
RADIO COMMUNICATION. THEY HAD FAR
BETTER SENSITIVITY AND
SELECTIVITY!



"THEN, MAJOR EDWIN ARMSTRONG DEVELOPED THE SUPERHETERODYNE RECEIVER IN PARIS DURING WORLD WAR I." IT GAVE THE U.S.

AND IT'S ALLIES A GREAT ADVANTAGE.



"LEE deFORREST'S INVENTION OF THE AUDION MARKED THE BEGINNING OF REGULAR RADIO BROADCASTS INTO THE HOME."



ON JUNE 9, 1922,
INVENTOR/EDUCATOR
JOSEPH TYKOCINER
(TICK-OH-SHINER), A
POLISH IMMIGRANT TO
THE U.S., DEMONSTRATED
THE FIRST SOUND-ONFILM MOTION PICTURE--THE PRINCIPLE USED IN
OUR MODERN-DAY MOVIES.
THE PICTURE SHOWED
PROF. ELLERY PAINE
RECITING LINCOLN'S
FAMOUS GETTYSBURG
ADDRESS.



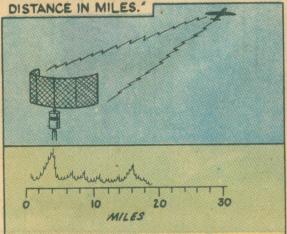
OTHER FIELDS OF ELECTRONICS BEGAN TO DEVELOP ALSO. IN 1933 KARL JANSKY ANNOUNCED THE DISCOVERY OF RADIO WAVES FROM OUTER SPACE --- THE BEGINNING OF RADIO ASTRONOMY."



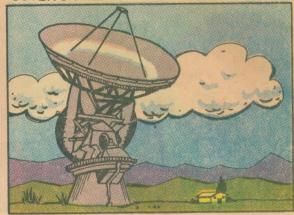
"BY 1939 ELECTRONICS WAS A VERY ACTIVE BUSINESS AND INDUSTRIAL FIELD. THERE WERE EVEN SOME COMMERCIAL TV SETS IN PRODUCTION."



"RADAR IS A SYSTEM WHERE A RADIO SIGNAL IS SENT OUT AND IS REFLECTED OFF AN OBJECT, LIKE AN AIRPLANE, BACK TO A RECEIVER WHICH IS SCALED TO SHOW THE



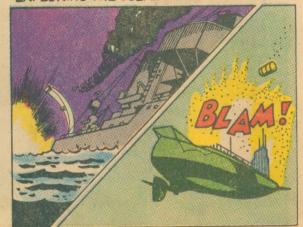
"TODAY, GIANT RADIO TELESCOPES LIKE THAT OF THE NATIONAL RADIO ASTRONOMY OBSERVATORY AT GREEN BANK, WEST VIRGINIA, AID IN LEARNING MORE ABOUT OUTER SPACE."



"THE BLASTS OF WORLD WAR II BROUGHT RAPID DEVELOPMENT OF THE ELECTRONICS INDUSTRY AND IT PLAYED A VITAL ROLE FOR THE ALLIES. TAKE THE INVENTION OF RADAR, FOR EXAMPLE."

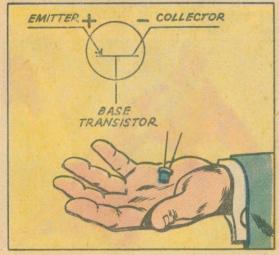


"WAR BROUGHT DEVELOPMENT OF DEEP-SEA RADAR, TOO. WE CALL IT SONAR. TODAY SONAR IS USED BY SUBMARINES, NAVY SHIPS, AND UNDERSEA RESEARCH VESSELS EXPLORING THE OCEAN FLOOR."





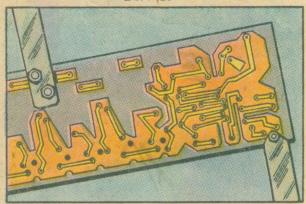
"THE ELEMENTS OF ATRANSISTOR ARE SHOWN IN THIS WAY IN A SYMBOL."



YES, THE NOBEL PRIZE IN PHYSICS WAS
SPLIT BETWEEN THREE MEN FOR THE
INVENTION OF THE TRANSISTOR: JOHN
BARDEEN, WILLIAM SHOCKLEY, AND
WALTER BRATTAIN. IT REVOLUTIONIZED
THE ELECTRONICS INDUSTRY.

JOHN
BARDEEN
WALTER
BRATTAIN
WILLIAM
SHOCKLEY

"ANOTHER GIANT STEP OF THIS EVOLUTION TOWARD MINIATURIZATION WAS THAT OF PRINTED CIRCUITS. SOLID WIRE CONNECTIONS AND TUBES WERE BEING REPLACED BY PRINTED CONNECTIONS ON A FLAT CIRCUIT BOARD."



"COMPARED TO TUBE EQUIPMENT, TRANSISTORS ARE MORE EFFICIENT, LIGHTER, MORE RELIABLE, AND RUN COOLER. THERE IS NO DELAY IN WARMING UP, AND THEY PRODUCE VERY LITTLE HEAT."





"THIS IS KNOWN AS MOLECULAR ELECTRONICS, WHERE MATERIAL ONLY A MILLIONTH OF AN INCH THICK IS USED. SOMEDAY, THIS CIRCUITRY BUILDING WILL BE DONE ENTIRELY WITH AN ELECTRONIC BEAM."



*COMMUNICATIONS IN GENERAL HAVE SHRUNK
THE SIZE OF THE WORLD. WITH THE PROSPECT OF
600,000,000 TELEPHONES IN OPERATION BY
1980, ELECTRONIC EQUIPMENT WILL MAKE IT
POSSIBLE TO DIRECT DIAL ANY ONE OF THEM."



"ELECTRONIC DEVICES WILL MAKE IT POSSIBLE TO ORDER GROCERIES BY A COMPUTER AFTER SEEING AND EVALUATING FOOD BY TV PHONE."



"OF COURSE, THE GREATEST EARTH-SHRINKING ADVANCE IN COMMUNICATIONS CAME IN 1962 WITH THE U.S. INVENTION OF THE TELESTAR SATELLITE. THIS WAS A COMPACT ROUND BALL FILLED WITH MINIATURIZED TRANSISTORIZED COMPONENTS. IT COULD RELAY TV AND VOICE SIGNALS FROM STATIONS THOUSANDS OF MILES APART."



'IN 1964, WE IN AMERICA WERE ABLE TO WATCH OUR ATHLETES PERFORM IN THE TOKYO OLYMPICS...VIA U.S. BUILT



"THE WORLD GREW EVEN SMALLER BY 1972, WHEN PEOPLE AROUND THE WORLD WERE ABLE TO VIEW LIVE TELECASTS OF THE U.S. PRESIDENT'S VISIT TO THE PEOPLE'S REPUBLIC OF CHINA VIA THE U.S. BUILT INTELSAT - IV IN ORBIT ABOVE THE EARTH."

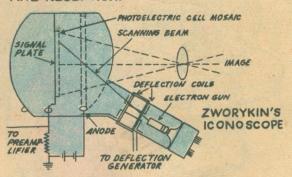




"IMPROVEMENT SINCE 1960 INCLUDE LENS ZOOMING AND INSTANT VIDEO TAPE RECORDING LIKE THOSE USED IN SPORTS TELECASTS FOR INSTANT REPLAY OF THE ACTION. TODAY, MANY PEOPLE ARE VIDEO-TAPING THEIR OWN "HOME SHOWS," AND VACATION SIGHTS."



"ALTHOUGH MANY OTHER INVENTORS MADE IMPORTANT CONTRIBUTIONS TOWARD THE DEVELOPMENT OF TELEVISION-NIPKOV, CAREY, FARNSWORTH, ALEXANDERSON, AND OTHERS-THE REAL BREAKTHROUGH CAME WITH VLADIMIR ZWORYKIN'S ICONOSCOPE (TV CAMERA) AND LATER HIS KINESCOPE (TV RECEIVER) PRINCIPLES USED IN TODAY'S TV TRANSMISSION AND RECEPTION."



"THE POTENTIAL OF TV IS ALMOST INFINITE.

TV PORTABILITY AND ADAPTIBILITY TO

STRANGE ENVIRONMENT MADE TVA VALUABLE
SCIENTIFIC TOOL. ON JULY 20, 1969, IT

SHOWED US THE FIRST MEN ON THE MOON."

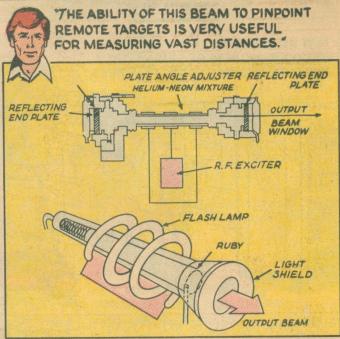




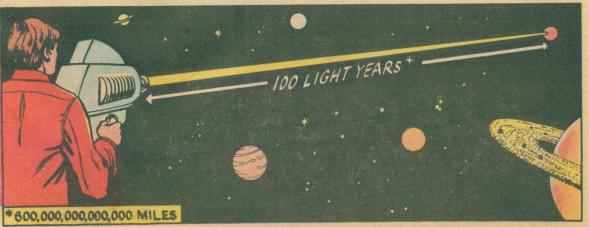
"A LASER CAN FOCUS ENORMOUS ENERGY ON A VERY SMALL AREA TO CUT STEEL OR BURN HOLES IN DIAMOND WIRE DIES."







"MAYBE WE COULD TALK TO PEOPLE AROUND OTHER STARS. A LASER BEAM PROJECTED FROM EARTH COULD STILL BE DETECTED AT 100 LIGHT YEARS DISTANCE."







"COMPUTERS WERE DEVELOPED BECAUSE THEY COULD DO ROUTINE WORK FAST AND RELIABLY. EVEN A SMALL COMPUTER REPLACES A ROOM FULL OF CLERKS DOING TEDIOUS WORK."



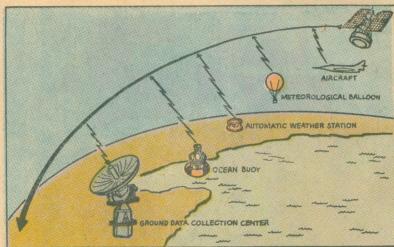


"ELECTRONICS ALSO PLAYS AN IMPORTANT ROLE IN AIR SAFETY. A 747 JET CAN LAND OR TAKE OFF IN PITCH DARKNESS, RAIN, SNOW, SLEET OR FOG IN REASONABLE SAFETY BECAUSE OF RADAR AND OTHER ELECTRONIC COMMUNICATION DEVICES." SOLID-STATE ELECTRONICS MADE POSSIBLE NOT ONLY OUR GIANT COMPUTERS, BUT ALSO OUR TINY, POCKET-SIZE CALCULATORS IN EVERYDAY USE BY STUDENTS, BUSINESSMEN, AND HOUSEWIVES.



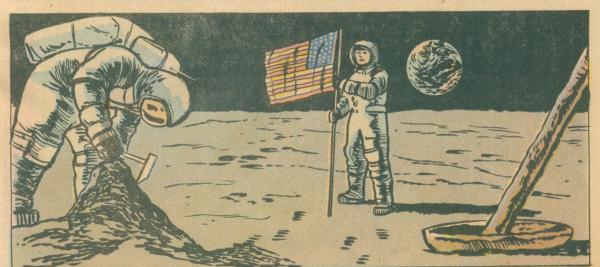






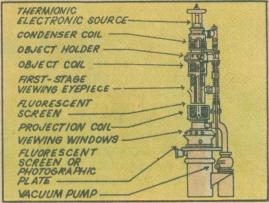
'SATELLITES IN ORBIT
AROUND THE EARTH, LIKE
THE FAMOUS U.S. NIMBUS-D,
PERFORM MANY ECOLOGICAL
FUNCTIONS... OBSERVATION
OF WILDLIFE ACTIVITY,
SPOTTING DEVELOPING
VOLCANOS, DETECTION OF
FOREST FIRES, ICEBERG
WARNINGS, AND THE
GATHERING OF SCIENTIFIC
INFORMATION FOR LONG
RANGE WEATHER FORECASTS."

"ELECTRONICS ENABLED THE UNITED STATES TO LAND THE FIRST MEN ON THE MOON -NEIL ARMSTRONG AND EDWIN ALDRIN. THE YEAR WAS 1969. SINCE THEN, OTHER LANDINGS
ON THE MOON HAVE BEEN MADE BY U.S. ASTRONAUTS WHO HAVE ALSO SET WORLD RECORDS
FOR TIME SPENT IN ORBITING LABORATORIES ABOVE EARTH. OUR SPACE VEHICLES ARE
ALSO PROBING OTHER PLANETS IN OUR SOLAR SYSTEM, LIKE MARS AND VENUS."



"SCIENCE OPENED A WHOLE NEW WORLD FOR MEDICAL SCIENCE WITH THE INVENTION OF THE ELECTRON MICROSCOPE. IT VIEWS AN AREA AS MINUTE AS ONE-BILLIONTH OF AN INCH."





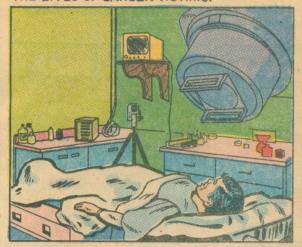
"IN ADDITION TO HIS TV INVENTIONS, VLADIMIR ZWORYKIN'S RESEARCH IN ELECTRON OPTICS HELPED TO GIVE MANKIND THE ELECTRON MICROSCOPE... AN INVALUABLE AID TO MEDICAL SCIENCE."



"IF ANY MEASUREMENT SHOULD RISE OR FALL OUTSIDE THE NORM, THE PATIENTS NUMBER FLASHES ON A PANEL. THE NURSE THEN DIALS THE PATIENT'S BED AND THE INFORMATION IS DISPLAYED FOR THE DOCTOR TO SEE."



"TODAY COMPUTER-CONTROLLED RADIOTHERAPY MAKES POSSIBLE THE TREATMENT OF MORE PATIENTS PER DAY WITH GREATER SAFETY ... AN INVALUABLE AID IN SAVING THE LIVES OF CANCER VICTIMS."

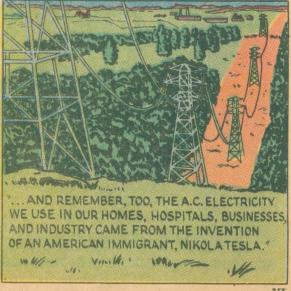






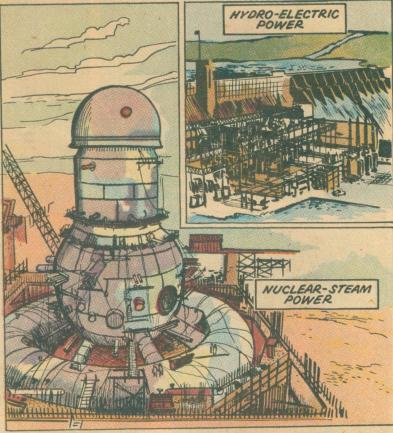
"ANOTHER MARVEL OF MODERN MEDICAL SCIENCE USES A COMPUTER AND SPIROMETER DEVICE TO DISCOVER LUNG AILMENTS IN ONLY 90 SECONDS. SOON, IT MAY BE POSSIBLE TO DO RAPID, MASS LUNG EXAMINATIONS OF PEOPLE WHO LIVE IN THICKLY POPULATED AREAS OF THE WORLD."

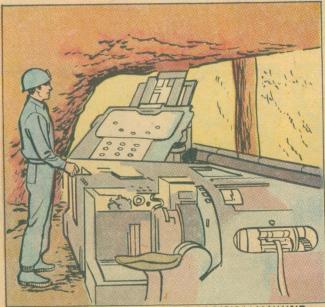




"TODAY. THE UNITED STATES PRODUCES AND CONSUMES ATHIRD OF THE WORLD'S ELECTRIC ENERGY TO GIVE ITS CITIZENS THE BEST STANDARD OF LIVING EVER ACHIEVED BY MANKIND. WE CONTINUE TO PROBE THE FORCES OF NATURE FOR SOURCES OF ENERGY... COAL, GAS, STEAM FROM GEYSERS, WATER-POWER, NUCLEAR POWER, AND POSSIBLY SOLAR POWER TO TURN TURBINES THAT PRODUCE OUR ELECTRICITY..."







"... AND DESPITE ANY "ENERGY CRISIS" MANKIND WILL FIND A WAY TO COPE WITH THE PROBLEM ...

"...JUST AS HE HAS SOLVED COUNTLESS
"CRISES" DOWN THROUGH THE CENTURIES.
HE WILL CONTINUE TO EXPLORE...
TO DISCOVER... TO REACH OUT FOR

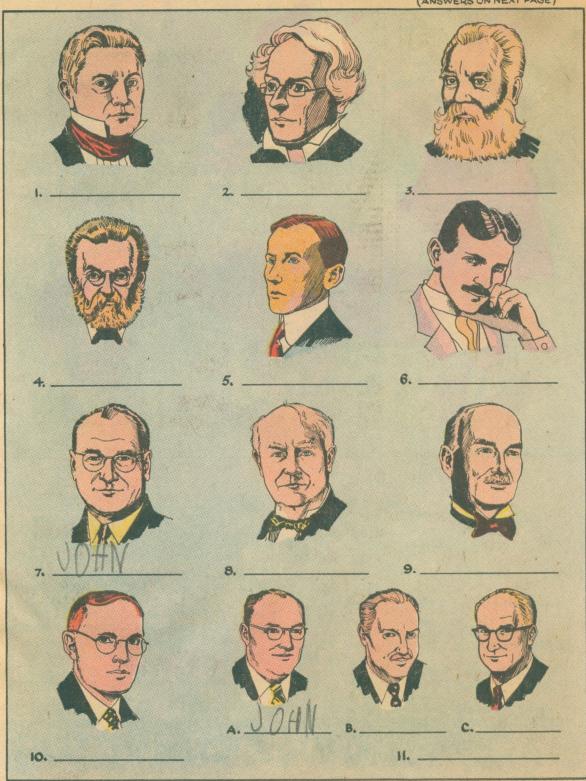


SCIENCE FAIR QUIZ

WHO ARE THESE FAMOUS INVENTORS FROM ...

HISTORY'S HALL OF HONOR

(ANSWERS ON NEXT PAGE)



ANSWERS TO SCIENCE QUIZ (ON PAGE 19)

- 1. Joseph Henery (Dec. 17, 1797- May 13, 1878)

 ENGINEER-INVENTOR AND FIRST
 SECRETARY SMITHSONIAN INSTITUTION
- 2. Samuel F.B. Morse (April 27, 1791-April 2, 1872)
 INVENTOR OF THE TELEGRAPH
- 3. Alexander Graham Bell (Mar.3, 1847-Aug. 2, 1922) INVENTOR OF THE TELEPHONE
- 4. Charles P. Steinmetz (Apr. 9, 1865 Oct. 26, 1923)

 ELECTRICAL ENGINEER AND MATHEMATICAL
 WIZARD
- 5. Guglielmo Marconi (Apr. 25, 1874 July 20, 1973)
 INVENTOR OF WIRELESS TELEGRAPHY
- 6. Nikola Tesla (July 10, 1856-Jan. 7, 1943)

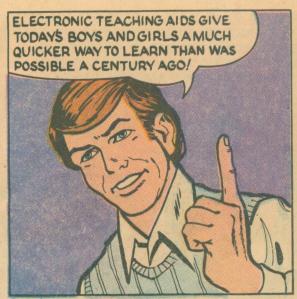
 INVENTOR OF AC MOTORS AND DISCOVERER OF THE
 AC PRINCIPLE OF ELECTRIC POWER PRODUCTION
- 7. Vladimir Zworykin (July 30, 1889)
 INVENTOR OF THE SCANNING PRINCIPLE USED IN TODAY'S TV CAMERAS AND RECEIVERS

- 8. Thomas A. Edison (Feb. II, 1847 Oct. 18, 1931)

 NVENTOR OF THE INCANDESCENT LAMP
 (ELECTRIC LIGHT BULB)
 - 9. Lee de Forest (Aug. 26, 1873-June 30, 1961)

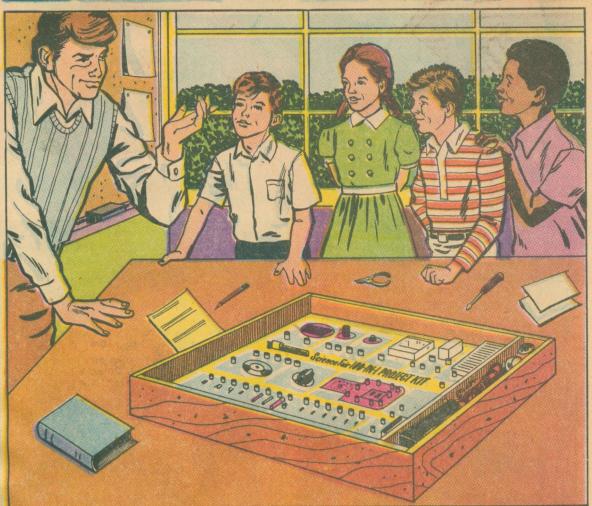
 INVENTOR OF THE AMPLIFYING RADIO TUBE,
 THE "AUDION"
 - 10. Karl Guthe Jansky (Oct. 22, 1905-Feb. 14, 1950)
 HIS DISCOVERIES PAVED THE WAY FOR
 TODAY'S RADIO ASTRONOMY
 - II. Shared Nobel Prize for their invention of the Transistor
 - A. John Bardeen (May 23, 1908-)
 - B. Walter H. Brattain (Feb. 10, 1902-
 - C. William Shockley (Feb. 13, 1910)





GEE! I HADN'T THOUGHT ABOUT THAT.
WE'LL BE ABLE TO LEARN MORE THINGS,
TOO. THAT'S THE REASON WE'LL BE
ABLE TO SOLVE REAL TOUGH PROBLEMS
IN ENERGY, ECOLOGY... AND RUNNING
OUR COUNTRY AND BUSINESSES.





'THAT'S RIGHT, BOB! JUST IMAGINE HOW HAPPY STUDENTS WOULD HAVE BEEN ABOUT 25 OR 30 YEARS AGO... TO BE ABLE TO WORK OUT AS MANY AS 100 EXPERIMENTS WITH ONLY ONE SMALL, LOW COST, ELECTRONIC LAB KIT LIKE THE STUDENTS AND HOBBYISTS CAN TODAY. THAT KIND OF EQUIPMENT WOULD HAVE COST A SMALL FORTUNE WAY BACK THEN."

If You Didn't Get This From My Site, Then It Was Stolen From... "YOUNG SCIENCE ENTHUSIASTS OF TODAY CAN BUILD SOLID STATE ELECTRONIC PROJECTS THE "BREADBOARD" WAY LIKE INVENTORS. THE SPACEAGE WAY TO LEARN ELECTRONICS AS YOU BUILD. LEARN HOW TRANSISTORS ARE USED TODAY INSTEAD OF RADIO TUBES IN SMALL AM RADIOS; OR SHOW HOW A BROADCAST STATION'S TRANSMITTER WORKS BY BUILDING AN AM MIKE STATION THAT SENDS YOUR VOICE TO A TRANSISTOR RADIO IN THE NEXT ROOM, MAKES LEARNING FUN."



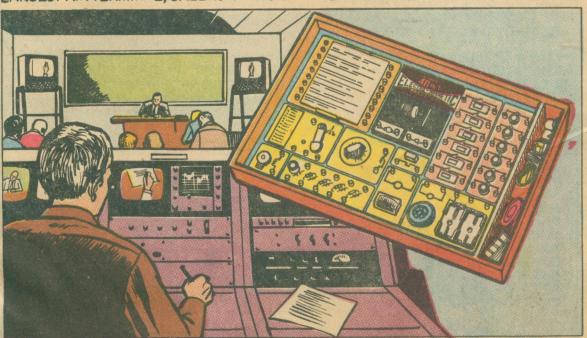
EDWIN H. ARMSTRONG DISCOVERED THE ELECTRONIC PRINCIPLE OF "REGENERATION" TO GET BETTER RECEPTION OF RADIO SIGNALS. SMALL, SHARP-LOOKING SOLID-STATE RADIO KITS MAKE USE OF THIS PRINCIPLE USING TINY TRANSISTORS INSTEAD OF RADIO TUBES."







AFTER READING THE SCIENCE FAIR® STORY OF ELECTRONICS IT IS EASY TO SEE THE IMPORTANCE OF ONE OF MAN'S GREATEST INVENTIONS, THE TINY TRANSISTOR --- FIRST SHOWN TO THE PUBLIC IN NEW YORK CITY IN 1948, ONLY 26 YEARS AGO. IT BROUGHT US "POCKET RADIOS", MINIATURE COMPUTERS OPERATING IN SPACE CRAFT THAT LANDED AMERICAN ASTRONAUTS ON THE MOON, COMPACT COMPUTER INSTALLATIONS THAT HELP TO SPEED THE WORK OF GOVERNMENT, BUSINESS, AND INDUSTRY--EVEN COMPUTER-CONTROLLED "PEOPLE-MOVERS" LIKE AIR TRANS AT THE WORLD'S LARGEST AIR TERMINAL, DALLAS-FT. WORTH INTERNATIONAL AIRPORT...



... AND PERHAPS MOST IMPORTANT OF ALL... THE TRANSISTOR HAS BROUGHT NEW IDEAS AND EQUIPMENT TO AID IN LEARNING--- QUICKER, BETTER, AND MORE INTERESTING WAYS TO LEARN ABOUT SCIENCE. A WONDERFUL OPPORTUNITY FOR BOYS AND GIRLS... KIT BUILDERS OF TODAY... TOMORROW'S INVENTORS AND ENGINEERS WHO WILL CONTINUE THE TASK BEGUN BY MAN IN THE DIM PAST: MAKING THE WORLD A BETTER, HAPPIER PLACE TO LIVE.

TEACHERS, CLUBS, SCHOOLS...

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THIS NEW EDITION, THE BOOKLET YOU ARE READING NOW, HAS BEEN COMPLETELY REVISED AND UPDATED TO INCLUDE MANY NEW DEVELOPMENTS IN ELECTRONICS HISTORY... YOURS FREE! DROP BY ANY RADIO SHACK STORE IN THE U.S. AND ASK FOR THE NUMBER OF FREE COPIES YOU NEED FOR YOUR CLASS, SCIENCE CLUB, OR CIVIC CLUB. AN EDUCATIONAL OPPORTUNITY OF A LIFETIME! OFFER GOOD FOR A LIMITED TIME, SO HURRY!

MOST OF THE IDEAS IN THE STORY CAN BE ILLUSTRATED BY KITS AVAILABLE AT A RADIO SHACK STORE NEAR YOU. SEE YOUR PHONE BOOK, BRING IN THIS COUPON AND SAVE ONE DOLLAR ON THE PRICE OF ANY ARCHER OR SCIENCE FAIR KIT.

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