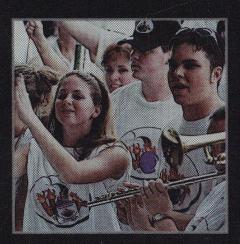
FOR

RECOGNITION

AND TECHNOLOGY

1999 ROBOT CALENDAR

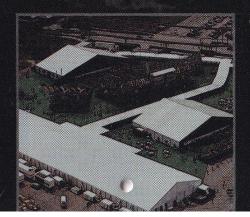


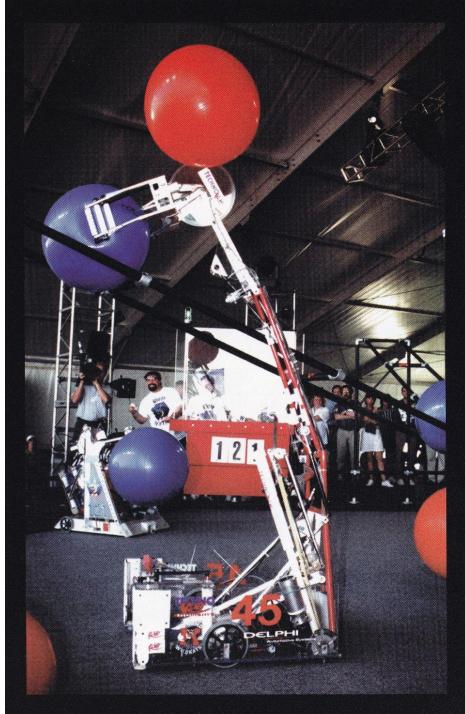


AT FIRST, WE SEE A WORLD WHERE SCIENCE AND TECHNOLOGY ARE CELEBRATED,

WHERE KIDS THINK SCIENCE IS COOL

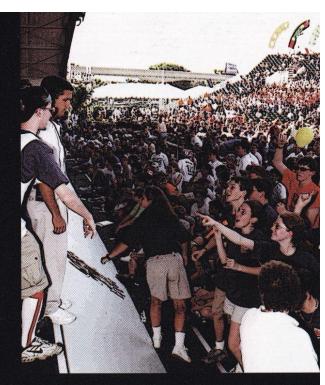
AND DREAM OF BECOMING SCIENCE AND TECHNOLOGY HEROES





he TechnoKats have competed in FIRST since its inception in 1992, when they placed 3rd of 17 teams. Since then they have mentored several teams and helped start competition traditions like trading pins and using noise makers. The TechnoKat robot mimics the motion of the human arm with shoulder, elbow and wrist joints. It uses roller mechanisms in both the gripper and drive-base to collect balls. After taking 2nd at the Great Lakes Regional, they began transferring balls from the drive-base directly to the gripper. With this added maneuver the TechnoKats became the National Champions.







Delphi Delco Electronics Kokomo High School Kokomo, Indiana The TechnoKats since 1992 www.netusa1.net/~technokats 1998 National Champions; 1994 & 1995 Chairman's Award Finalist

JANUARY @





1 G	9 9	make a second se			Automotive Systems	FIRSI
5	M	Т	w	Т	F	S
	Italian artist Leonardo da Vinci studied anatomy and mechanics, served as an architect and engineer, and even attempted to fly. This famous drawing shows a man's arm span is roughly equal to his height.			For more information about the inventions and discoveries in this calendar, read "the rest of the story" at www.huskiebrigade.com	New Year's Day	2
3	1809 - Louis Braille's birthday: developed alphabet for the blind	5	6	7 1785 - First Balloon flight across English Channel	8	9 KICK-OFF 1999 COMPETITION UNVEILED
10	11	12	13	14	15	16
BRAINSTORM						
17	Martin Luther King Day	19	20	21	22	23
CONCEPT DESIGN						
1706 - Benjamin Franklin's birthday: invented lightning rod	1912 - Robert Scott reaches South Pole 35 days after Amundsen (see 12/14)			1976 - First supersonic airline service: "Concorde"	,	1849 - Elizabeth Blackwe is first U.S. female doctor
24	25	26	27	28	29	30
DETAIL DESIGN WORK						
31	1915 - Bell & Watson make first transcontinental telephone call (see 2/14)	1911- First U.S. aircraft takeoff & landing on water			1886 - Karl Benz produces first gas engine automobile	



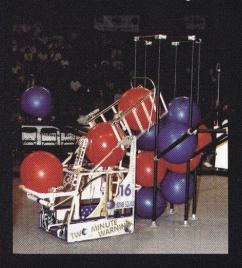


he "2-Minute Warning" robot picks up balls with a rotating PVC pipe, transports them with a V-belt, and squeezes them through the sides of the center goal and the 3 point rails. The squeezer uses six pairs of chain driven PVC rollers. A hidden suction cup sometimes deploys to protect a 3 point ball. With their robot's simple design, speed and reliability, the Baxter Bomb Squad finished 2nd in Houston and 1st at the Midwest Regional.



Former Space Shuttle Commander Andrew Allen (right) is the President of FIRST. He says FIRST is fast becoming the "Ultimate Mind Sport" of middle and high school students.





Baxter Healthcare Corporation Mountain Home High School Mountain Home, Arkansas The Baxter Bomb Squad since 1996 www. mtncom. mhfirst/

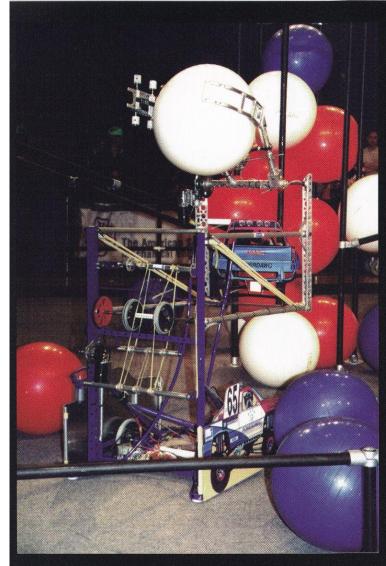
1998 Chairman's Award Finalist

Baxter ASS



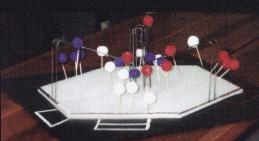


S	M	T	W	Т	F	S
	1	2	3	4	5	6
MAKE PARTS						
	1920 - Michael Sweeney uses first armored commercial car	1999 - School-to-Work Job Shadow Day		1902 - Charles Lindbergh's birthday		1971 - First golf ball hit on moon
7	8	9	10	11	12 Lincoln's Birthday	13
ASSEMBLE						
	1883 - Louis Waterman invents fountain pen			1847 - Thomas Edison's birthday: 1,093 patents (most in U.S. history)		
14 Valentine's Day	15 President's Day	16	17 Ash Wedensday	18	19	20
TESTING & PRACTICE						
1876 - Alexander Bell patents telephone			1911 - Charles Kettering's electric self-starter debuts in 1912 Cadillacs			1962 - John Glenn makes America's first manned orbital flight: Friendship 7
21	Washington's Birthday	23 SHIP ROBOT DEADLINE	24	25	26	27 FIRST REGIONALS Moffett Field, CA Chicago, IL
1858 - First electric burglar alarm installed						1951 - Edwin Land patents instant camera: Polaroid Land camera
28		1843 - Patent Commissioner Henry Ellsworth testifies to Congress that the rapid pace of innovation "taxes our credulity and seems to presage the arrival of that period which human improvement must end."	U.S. Patents 1990's: 100,000 → Patents per year 1840's: 500 Patents per year			ROBOT CROSSING





he "Powerdawg" robot uses a 4 bar lift mechanism and a tank style drivetrain. During two regional competitions, the Huskie Brigade fine tuned the gripper mechanism so that it would pick up and hold two balls at a time. The development work paid off as the team improved from 10th of 30 teams at the Midwest Regional to 3rd of 166 teams at the nationals in Florida.





General Motors Powertrain Pontiac Northern High School Pontiac, Michigan The Huskie Brigade since 1997 www.huskiebrigade.com Third Piece, 1997 and 1998 National Championships

POWERTRAIN LESS TO BE BEST





M	T	W	Т	F	S
1	2	3	4	5	6 FIRST REGIONALS Kennedy Space Ctr., F Houston, TX
	1949 - First non-stop round-the-world flight		1887 - Anne Sullivan teaches Helen Keller her first word: "doll"		1908 - 3 Cadillacs rebuilt from one pile of parts
8	9	10	11	12	13 FIRST REGIONAL Philadelphia, PA
	1862 - First armored warship battle: Monitor vs Merrimac	0.0			
15	16 1926 - Dr. Robert	17	18	19	20 FIRST REGIONAL Manchester, NH New Brunswick, N
	Goddard: first liquid-fuel rocket (184 ft in 2.5 sec)	1940 - First air-conditioned taxi ride (see 11/4)			
22	23	24	25	26	27 FIRST REGIONAL Ypsilanti, MI
		1914 - Garrett Morgan patents gas mask		1974 - Bob Bolton patents backpressure Exhaust Gas Recirculation (EGR) valve	
29	30	31			~260 B.C Archimedes discovers density in his bathtub and catches a
1995 - Bill Bolander receives first Lemelson- MIT Prize for powertrain control algorithms		1889 - Eiffel Tower completed on time & under budget (see 5/2)		1989 - "Super Soaker" squirtgun shown at International Toy Fair	dishonest goldsmith. "Eureka!" (I found it!) See www.huskiebrigade.com for details.
	1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 1949 - First non-stop round-the-world flight 8 9 1862 - First armored warship battle: Monitor vs Merrimac 1 1 6 1926 - Dr. Robert Goddard: first liquid-fuel rocket (184 ft in 2.5 sec) 22 23 29 30	1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1 2 3 4 1887 - Anne Sullivan teaches Helen Keller her first word: "doll" 8 9 10 11 1862 - First armored warship battle: Monitor vs Merrimac 17 15 16 17 17 18 1940 - First air-conditioned taxi ride (see 11/4) 22 23 24 25 1995 - Bill Bolander receives first Lemelson-MIT Prize for powertrain 1889 - Eiffel Tower completed on time &	M T W T F 1 2 3 4 5 1887 - Anne Sullivan teaches Helen Keller her first word: "doll" B 9 10 11 12 12 1882 - First armored warship battle: Monitor vs Merrimac 15 16 17 R. Patrick's Day 18 19 1926 - Dr. Robert Goddard: first liquid-flue rocket (184 ft in 2.5 sec) 1940 - First air-conditioned taxi ride (see 11/4) 22 23 24 25 26 1995 - Bill Bolander receives first Lemeison-MIT Prize for powertrain 1989 - "Super Soaker" squirtgun shown at 1998 - "Super Soaker" squirtgun shown at 1989 - "Super Soaker" squirtgun shown at 1





OT BOT's mast assembly carries the four-bar boom assembly, gripper, and motors. Potentiometers provide feedback to the controller for fast, smooth positioning. Control system features include a software filter, coordinated motion algorithm, position presets, and velocity limiting. In 1998 the HOT Team won the Leadership in Control award at two regionals and at the nationals.





General Motors Milford Proving Ground · Milford, Lakeland and Harbor High Schools · Milford, Michigan
The HOT Team (Heroes of Tomorrow) · since 1997 · 204.39,204.79/files/Lakeland%20HS/ilshome/Hot%20Website/mpg.first.htm
Fourth Place, 1998 National Championships; 1998 Chairman's Award Finalist

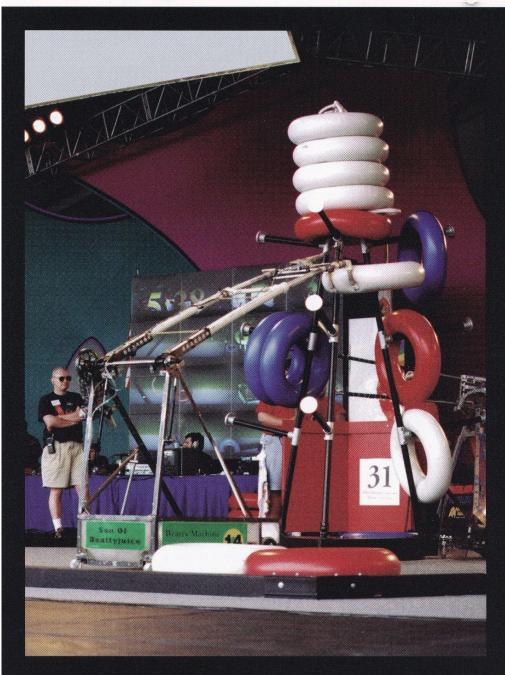






1						
0)	M	T	W	T	F	S
	Galileo Galelei (1564-1642) proves Aristotle wrong at Leaning Tower of Pisa with 10 and 1 lb balls. See www.huskiebrigade.com for details.			1913 - Henry Ford's assembly line revolutionizes the auto industry	Good Friday	1860 - Mail to CA reduced from 30 to 10 days by Pony Express (see 10/24)
4 Easter	FIRST Founder Dean Kamen's Birthday	1909 - Peary, Henson & 4 Eskimos are first to reach North Pole	7	8	9	10
11	1961 - Yuri Gagarin: First human in space	13	14 1894 - Thomas Edison's kinetoscope (motion pictures) shown to public 1981 - Space Shuttle "Columbia" lands after 2 days and 37 orbits	1452 - Leonardo da Vinci's birthday: artist, scientist, engineer 1998 - Robert S. Langer receives Lemelson prize for developing artificial skin	16	17
18	19	1940 - Demonstration of first electron microscope	1855 - First train crosses Mississippi on the river's first bridge	22	23	24FIRST NATIONAL CHAMPIONSHIPS Orlando, FL
1901 - New York requires auto license plates	26	27	1992 - Series of repairs started on Leaning Tower of Pisa	SATELLITE BROADCAST OF FIRST NATIONALS AT GM DEALERS For details see www.huskiebrigade.com	1798 - U.S. Navy created during conflict with France	

-





omposed of students from four high schools, Team Hammond captured first place at the 1997 Midwest Regional and went on to become National Champions in Florida. Their 1997 robot excelled at scoring multiple innertubes on the top of the rotatable center goal, which doubled the points scored on the sides. With support from a small machine tool company and several other sponsors, their "B³" robot was also a formidable competitor in the 1998 Competition.



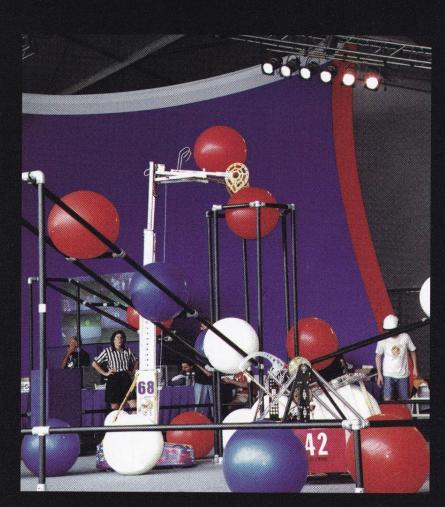
Beatty Machine & Manufacturing School City of Hammond Hammond, Indiana Team Hammond since 1996 michael_kobe@ccmail.k12.hammond.in.us 1997 National Champions; Tenth Place, 1996 National Championships







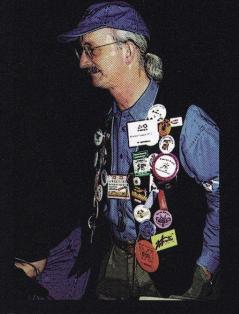
5	M	T	w	Т	F	S
		1977 - Jerome Lemelson's original camcorder patent application rejected by patent examiner because it was "ridiculous to think that video recorders could be miniaturized to the size required for portability."				1873 - First U.S. postal card issued
2	3	4	5	6	7	8
1886 - Design contest to build iron tower for 1889 Great Exposition begins in France (see 3/31)	1897 - J.W. Smith patents lawn sprinkler	1999 - National Teacher Appreciation Day	1961 - Alan Shepard and "Freedom 7" complete first U.S. sub-orbital flight		1878 - J.R. Winters receives fire escape patent	
9 Mother's Day	10	11	12	13	14	15
	1869 - Golden Spike: 1st transcontinental railroad	1947 - B.F. Goodrich makes first tubeless tires		1999 - National Science Olympiad, thru 5/15 www.nso99.uchicago.edu	1908 - Charles Furnas is first airplane passenger by flying with Wilbur Wright	
16	17	18	19	20	21	22
1934 - John Dillinger thanks Henry Ford for his				1899 - First speeding arrest: ("breakneck speed" of 12 mph)		
speedy V8 car; see www. huskiebrigade.com for a copy of his letter				1927 - Charles Lindbergh flies solo, non-stop from NY to Paris	1932 - Amelia Earhart: first woman to fly solo across Atlantic	
23 1906 - Wright brothers receive patent on airplane	24 1844 - Samuel Morse: first telegraph message,	25	26	27	28	29
1896 - First auto accident;	Washington to Baltimore					
car collides with bike	1883 - Brooklyn Bridge opens Memorial Day 31			1919 - U.S. Navy seaplane makes first transatlantic flight (see 5/20, 6/15)		1953 - Sir Edmund Hillary & Tenzing Norgay reach summit of Mt. Everest







he "T³" robot features pincher gripper arms powered by a high helix screw and compound linkage, an elevator lift mechanism modeled after a typical fork truck, and 2-wheel drive at the front of the chassis. The rookie Truck Town Terror team finished 4th & 9th in two regional competitions and place 21st of 166 teams at the nationals in Orlando. At a post-season invitational, they took 1st place out of 15 experienced Michigan teams.



MIT professor Woodie Flowers is the emcee at competitions. The FIRST Robotics Competition concept was patterned after his 2.70 "Introduction to Design" engineering course at MIT.







S	M	Т	W	τ	F	S
		1	2	3	1783 - First hot air balloon demonstration	1977 - First personal computer for sale:Apple II
6	7	1924 - George Mallory attempts to climb Mt. Everest "because it is there"	9	10	1 1 1895 - Charles Duryea patents his "Road Vehicle"	1979 - Bryan Allen flies human-powered aircraft across English Channel
13	1907 - Leo Baekland patents first modern plastic: "Bakelite"	155 1752 - Benjamin Franklin proves lightning is electricity 1919 - Alcock & Brown: 1st non-stop transatlantic flight (see 5/20, 5/27)	1775 - Congress begins Army Corps of Engineers 1903 - Henry Ford charters Ford Motor Company	17	18	1623 - Blaise Pascal born: created first adding machine
20 Father's Day	1905 - Dwight Huss wins first transcontinental auto race (44 days)	22	23	24	1903 - Marie Curie reveals discovery of radium	1936 - First successful helicopter flight
27	28	29	1953 - Corvette offers first production fiberglass body 1905 - Albert Einstein: essay on "The electrodynamics of moving bodies"			1543 - Nicolaus Copernicus publishes "On the Revolutions", first proof that the earth moves





ildStang is a partnership between Motorola and two rival high schools. The team is structured as a mini-corporation so students have the opportunity to work with Motorola engineers and professionals in all aspects of business. Their tie-dyed machine collects 3 balls at a time and extrudes them into the side of the center goal and onto the rails from underneath. WildStang scored a record high of 512 points at the Great Lakes Regional and placed 10th at Nationals.



Motorola, Inc. Wheeling and Rolling Meadows High Schools Schaumburg, Illinois Wildstang since 1996 whs.dist214.k12.il.us/www/activities/first/main.html
Ninth Place, 1997 National Championships; Tenth Place, 1998 National Championships

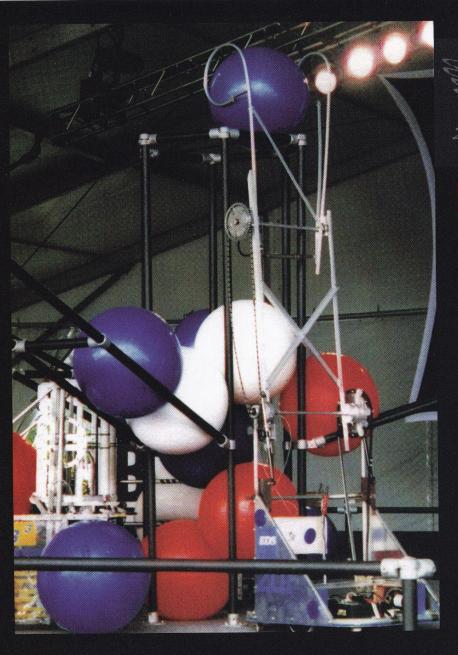




MOTOROLA LOS

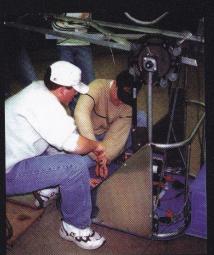


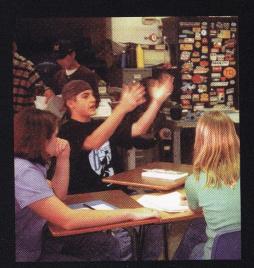
19	G G					
5	M	T	W	T	F	S
	1955 - Motorola introduces the all-transistor car radio, the alternator and the electronic ignition system.			1881 - First international telephone conversation	1900 - Five people fly with Count Von Zeppelin on first flight of his airship	3
4 Independence Day	5 1892 - Andrew J. Beard	6	7	8	9 1893 - Dr. Daniel H.	10
	invents rotary steam engine				Williams performs first successful heart surgery	
11	12	1568 - Dean of St. Paul's Cathedral perfects way to bottle beer 1836 - U.S. Patent Office starts numbering patents	14	15	16	17 1877 - Thomas Edison invents the phonograph, his favorite invention
1923 - Jerome Lemelson's birth; ~500 patents; VCR, camcorder, fax, Walkman	19	1969 - Neil Armstrong: "One small step for man, one giant leap for mankind"	21	1933 - Wiley Post is first to fly solo around the world ("Winnie Mae" - 8 days)	23	1897 - Amelia Earhart's birthday
1909 - First crossing of English Channel by airplane	26	27	28	29	30	1790 - Samuel Hopkins gets first U.S. Patent: method of making potash 1922 - Ralph Samuelson: first in world to waterski





ochester's rookie robot was built without a sponsor by a dedicated group of 9 students and 4 teachers in the school's auto shop. Their simple yet functional robot uses direct drive for the wheels: no gears, chains or belts. The Great Lakes Regional announcers dubbed them the "Cinderella team" for placing 7th of 31 teams. With help from other teams and their new sponsor EDS, they went to the nationals where they placed 27th of 166 and received the Worcester Polytechnic Institute Design Innovation Scholarship.





Electronic Data Systems · Rochester High School · Rochester, Michigan The Falcons · since 1998 · www.rochester.k12.mi.us/schools/rochester/index.htm





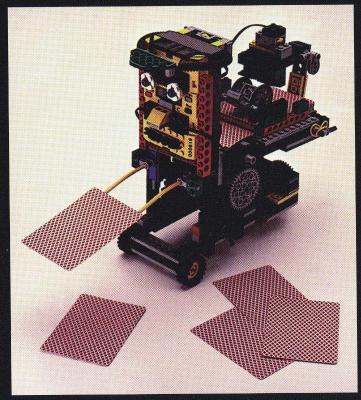
MOTOROLA LOS

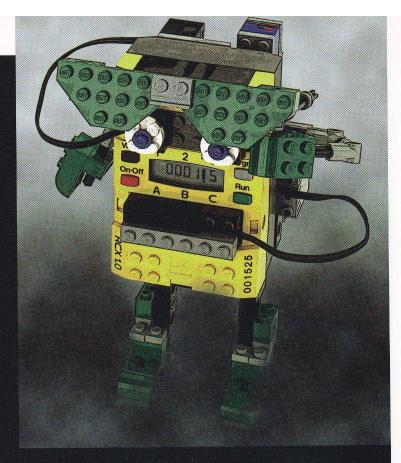


19	G G					
5	M	T	W	T	F	S
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n 1998, FIRST piloted a smaller scale competition for 4th-9th grade students. The students build robots using the LEGO MINDSTORMS kit and program them to perform specific tasks during a timed tournament. The entire process takes 4-6 weeks and immerses students in a world of science, technology and FUN! For more information or to sign up for the Fall 1999 LEGO League, visit FIRST's web site at www.usfirst.org or call them at 800-871-8326, extension 405.

SEPTEMBER

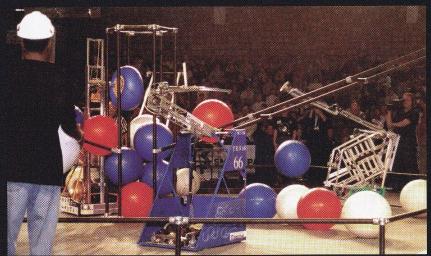


	J 3					
S	M	T	W	T	F	S
			1	2	3	4
	1940 - Oldsmobile introduces "HydraMatic" automatic transmission,					
	with clutchless self-shifting and a fluid coupling		1979 - Pioneer 11 makes first fly-by of Saturn	1910 - Blanche Scott is first woman pilot to fly solo		1951 - First transcontin- ental television broadcast
5	6 Labor Day	7	8	9	10	11
1922 - Jimmy Doolittle: first to cross U.S. in less than 24 hrs						1928 - First bus trip across U.S. (5 days, 14 hrs)
12	13	14	15	16	17	18
						1880 - Gabriel Fahrenheit invents thermometer
	1899 - pedestrian Henry Bliss is first auto fatality			1908 - William C. Durant (Buick-owner) forms GM		1956 - Garrett Morgan patents decurling comb
19	20 Yom Kippur	21	22	23	24	25
		W-				
		1893 - Frank and Charles Duryea drive 1st successful U.S. gas engine auto		8	1960 - U.S.S. Enterprise launched: first nuclear powered aircraft carrier	
26	27	28	29	30		1896 to 1943 - chemurgist George Washington
						Carver develops >500 products derived from peanuts, sweet potatoes &
		1924 - U.S. Army completes first round- the-world flight				pecans; by 1940 peanuts are South's 2nd cash crop, after cotton





he FAMS team 66 is a unique collection of high school seniors from 3 local Ypsilanti schools and employees from General Motors Powertrain. Everyone learned about teamwork on a new level, while trying to coordinate the different talents and schedules. This rookie team found FIRST a great experience while getting their "kicks on Route 66."



General Motors Powertrain Ypsilanti, Lincoln and Willow Run High Schools Ypsilanti, Michigan FAMS motto: Together Everyone Achieves More since 1998 meyer@scnc.yps.k12.mi.us





5	M	Т	w	T	F	S
		1926 - Route 66, a paved highway from Chicago to Los Angeles, is opened			1908 - Ford offers \$850 Model T: 20 hp, 45 mph maximum	2
3	4	5	6	7 1999 - Science Olympiad Coaches Clinic, michael_ kobe@ccmail.k12.hammond.in.us	8	9
National Metric Day 1 O 1899 - J.W. Butts patents luggage carrier	Columbus Day	12	13 1831 - Slave Jo Anderson helps invent the grain harvester reaper	14 1947 - Chuck Yeager breaks sound barrier flying rocket powered Bell X-1 1968 - First live telecast from manned U.S. spacecraft	1783 - First tethered hot air balloon flight manned by Francois Pilatre de Rozier	16
17 1937 - Cadillac replaces its V12 with a V16	18	19	20	21	22	23
24 1861 - First transcontinen- tal telegraph line; Pony Express out of business (see 4/3)	25	1825 - Erie Canal opens, linking Buffalo and NY City	27	1914-Jonas Salk's birthday: discovered polio vaccine 1914 - George Eastman presents color photographic process	29	1888 - Patent of first ballpoint pen



he Jenks Engineering and Science Team recruited financial support from the Jenks Public Schools Foundation, Public Service Co. of Oklahoma, Sabre International, Ferguson Pontiac-GMC, CITGO and others. They demonstrated their rookie robot at schools and museums, on TV, at business meetings, on driveways, in grocery stores — every possible way to spread the word that science and engineering are "jest plain fun!"





NOVEMBER 1



S	M	Т	W	T	F	S
	1 1957 - Mackinac Bridge links Michigan's Upper and Lower Peninsulas	2	3	1902 - Packard patents H-pattern gearshift	5	6
7	8	9	1891 - Granville Woods patents electric railway	11 Veteran's Day	12	1946 - 1st artificial snow made from natural cloud
14	15	16 1901 - A.C. Bostwick drives first "mile-a-minute" car	17	1820 - U.S. Navy Captain Nathanial Palmer discovers Antarctica MIT Professor Woodie Flower's Birthday	19	1980 - Paul MacReady's "Solar Challenger" makes its first test flight
21	1935 - 1st commercial airplane crossing of Pacific	1897 - Andrew J. Beard patents the "Jenny" automatic railroad coupler	24	25 Thanksgiving Day	26	27
1895 - Frank Duryea wins 1st auto race (52 miles/ 7.5 mph)	29	30		1901 - Steering wheel replaces tiller on Packard and Orient automobiles		







he rookie Gila Monsters team competed in the Great Lakes, Southwest and National Competitions, placing 6th in the Southwest Regional. Their robot "Gil" has a direct drive propulsion system and a conveyer mechanism which collects up to 4 balls. The gear driven lift mechanism and the PVC gripper provide quick and frequent scoring. The Gila Monsters learned that by combining learning, fun, and competition, people grow and relationships are strengthened.







D 三G 三八 B 三吊





S	M	T	w	T	F	S
			1	2	3	4 Hanukkah
	1930 - Motorola introduces the first commercial car radio			1982 - Barney Clark receives first permanent artificial heart	1967 - Dr. Christian Bemard performs world's 1st heart transplant in South Africa	
5	6	7	8	9	10	11
1492 - Christopher Columbus discovers Hispaniola					1.4	1894 - Paris: first motor show
12	13	14	15	16	17	18
		1911 - Roald Amundsen leads first group to South Pole (see 1/18)		1979 - Stan Barrett breaks sound barrier in rocket powered land vehicle	1903 - Orville Wright: first powered heavier than air flight, Kitty Hawk, NC	
19	20 1892 - A.T. Brown and	21	22	23	24	Christmas 1642 - Isaac Newton's birthday: invented calculus, motion laws 1821 - Clara Barton's
	G.F. Stillman patent pneumatic tire			patents compression ignition engine		birthday: invented first aid on Civil War battlefield
26	1822 - Louis Pasteur's birthday: invented way to purify milk	28	1908 - Otto Zachow & William Besserdich patent four-wheel auto brakes	30	31	

his poem captures the spirit of engineering and the "can-do" spirit that made America great. Whether America continues to be great will depend on whether our generation strives for excellence and passes the "can-do" spirit on to the next generation.



It Can Be Done

The man who misses all the fun Is he who says, "It can't be done."
In solemn pride he stands aloof
And greets each venture with reproof.
Had he the power he'd efface
The history of the human race;
We'd have no radio or motor cars,
No streets lit by electric stars;
No telegraph nor telephone,
We'd linger in the age of stone.
The world would sleep if things were run
By men who say, "It can't be done."



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About this calendar . . .

his calendar was produced by the Huskie Brigade FIRST team, a partnership of GM Powertrain and Pontiac Northern High School. We hope it will inspire people of all ages to set their sights higher, to strive to achieve, and to celebrate science & technology. We hope it will help you keep the FIRST spirit alive all year long.

To request additional copies, or for more information about the inventions and discoveries in this calendar, visit our web site at www.huskiebrigade.com. We only had space to print the headlines; check out our web site for the "rest of the story". We welcome your feedback and ideas for next year's calendar!

Special thanks to:

- Dian Newbern & Jim Treadway, Graphic Designers with GM Communications Support Group
- the other FIRST teams who partnered with us on this project.

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