



**FIRST**

| *For Inspiration & Recognition of Science & Technology*



*Every day at FIRST*, we confront the problem of students’ perception of education and careers in science, engineering, and technology.

Recently, The Wall Street Journal reported on a study in which students describe careers in engineering as “intimidating” and “uninteresting.” They see engineering as too solitary and want interactions on a “human level.” They think engineering is for the “socially awkward” and those “obsessed with work.”

Unfortunately, these perceptions are no surprise. After all, we live in a world that tells kids they should view celebrity status or athletic achievement as the most realistic path to a life of success and meaning. They’re told that options that demand their thinking, their energy, and their best, are not for them.

Yes, the perception problem is sobering. But for members of the *FIRST* community, it only strengthens our resolve. This is the problem *FIRST* was invented to solve. And this past year, we’ve seen significant evidence that *FIRST* is part of the solution.

Funded by The Ford Foundation, Brandeis University conducted an independent, retrospective study to assess *FIRST*’s impact on students’ academic and career paths. The findings are clear. In science, engineering, and technology, any perception problem is erased by the *FIRST* reality.

The study showed *FIRST* students don’t avoid education in science and engineering, they seek it. They were twice as likely to major in a science or engineering field and three times more likely to major specifically in engineering when compared with a group of students with similar backgrounds and academic experiences, including math and science.

*FIRST* students don’t want less education, they want more. They are significantly more likely than the comparison group to expect to pursue a postgraduate degree.

*FIRST* students don’t spurn engineering career opportunities, they earn them. They are ten times more likely to have had an internship or co-op job in their freshman year than the comparison group.

Finally, *FIRST* students expect to pursue a science and engineering career more than twice as often as the comparison group. More detail on the findings from the Brandeis Study is provided later in this Annual Report.

As members of the *FIRST* community, we can draw encouragement from the confirmation that *FIRST* is making a difference. Yet, the solution is far from complete. So, we thank you for your effort and support and ask for your renewed commitment to bringing the power of *FIRST* to more young people.

Dean Kamen, Founder

John Abele, Chairman



FOUNDER

*Dean Kamen, FIRST Founder  
President, DEKA Research  
& Development Corporation*



CHAIRMAN

*John Abele, FIRST Chairman  
Founder Chairman, Retired,  
Boston Scientific Corporation*





## *FIRST Championship*

THE 2005 *FIRST* CHAMPIONSHIP AT THE GEORGIA DOME IN ATLANTA WAS A CELEBRATION OF SCIENCE AND TECHNOLOGY, MARKING THE CULMINATION OF THE *FIRST* ROBOTICS COMPETITION AND THE *FIRST* LEGO LEAGUE SEASONS AND INTRODUCING THE *FIRST* VEX CHALLENGE. THE EVENT INCLUDED:

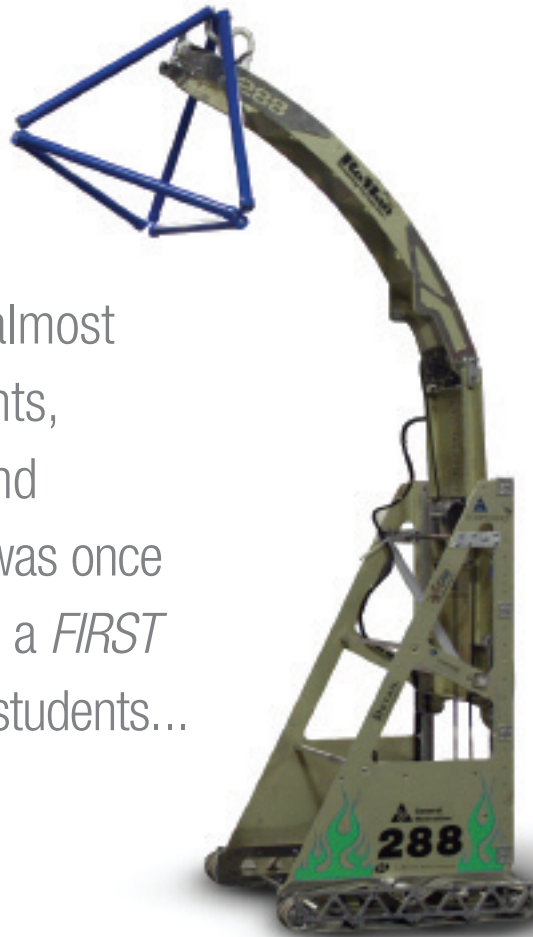
- 9,300 STUDENTS
- 465 TEAMS
- 3 DAYS OF COMPETITION
- 5,000 MENTORS
- 500 VOLUNTEERS
- 19 COUNTRIES





The FIRST Robotics Competition (FRC) combines the excitement of sport with science and technology to create a unique varsity sport for the mind. FRC helps high-school students discover the rewards and excitement of education and careers in science and technology.

...The commitment of almost 17,000 mentors, parents, teachers, engineers, and community members was once again critical to bringing a *FIRST* experience to so many students...



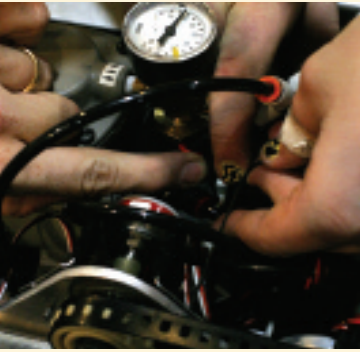
**The *FIRST* Robotics Competition** for high-school students remains the signature program for *FIRST*. In 2005, the number of participating FRC teams grew to more than 990 with approximately 25,000 students. The number of Regional competitions expanded to 30 in North America with new regional events in Las Vegas, NV, Rochester, NY, Waterloo, Ontario, and West Lafayette, IN. This season also marked the first FRC event held in Israel, where 12 teams participated in the *FIRST* experience. This season's game, "Triple Play," included several new challenges for the teams: a "three on three" team competition, a tetrahedron game piece, and a vision camera and associated electronics.

FRC continued to offer students opportunities for an exciting education and career path in science, engineering, and technology. Scholarship offerings for *FIRST* participants reached almost \$8 million and represented some of the finest engineering colleges and universities in the country.

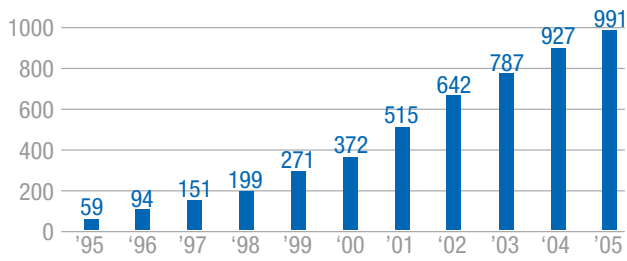
The success of FRC was a direct result of the effort and energy of *FIRST*'s volunteers. The commitment of almost 17,000 mentors, parents, teachers, engineers, and community members was once again critical to bringing a *FIRST* experience to so many students. FRC sponsorship continued to grow as well with over 1,700 corporations, foundations, and agencies funding teams and events.

The season's finale took place at the *FIRST* Championship at the Georgia Dome in Atlanta, GA where 8,500 students on 340 FRC teams from 4 countries came together to compete with gracious professionalism and celebrate science and technology.





*FIRST Robotics Competition Team Growth*



“...teams not only defined ways to make the environment easier for everyone to use, but also worked with communities to make the changes happen...”



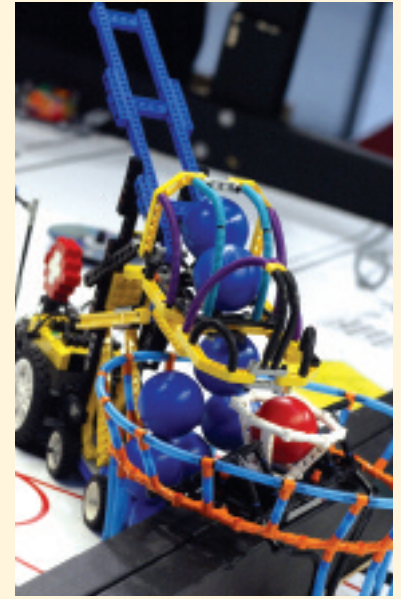
In the 2004/05 season, FIRST LEGO League continued to serve as a powerful and efficient driver of growth for FIRST. FLL grew to over 48,000 middle-school-aged students participating. Overall, 5,859 teams participated in more than 380 qualifying events and official tournaments in 23 countries around the world.

Through the 2004/05 “No Limits” Challenge, teams explored ways in which technology and creative thinking can combine to help people with physical disabilities meet the everyday challenges faced in simple tasks such as walking, reading a distant sign, or climbing stairs. In addition to the robot competition, the challenge included a research project in which students assessed whether their school or community facilities were accessible to people with physical disabilities. Many FLL teams not only defined ways to make the environment easier for everyone to use, but also worked with communities to make the changes happen.

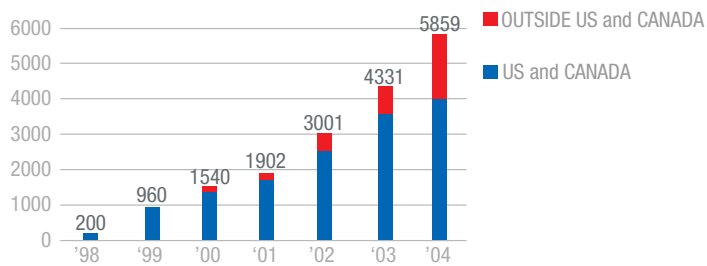
Corporate support for FLL remained strong in 2004/05 with The LEGO Group continuing in its role as our key corporate partner and The 3M Company once again supporting FLL as program sponsor. FLL also announced the addition of National Instruments and SAP, who join the FLL team as International Sponsors for the 2005/06 season.

The culmination of the season was the inaugural FLL World Festival, part of the FIRST Championship at the Georgia Dome in Atlanta, GA. Seventy four accomplished FLL teams from seventeen countries celebrated their season’s accomplishments both on the playing field and off, strengthening the international community of FIRST LEGO League.





*FIRST LEGO League Team Growth*





# Updates

## FIRST Vex™ Challenge

At the 2005 Championship, *FIRST* introduced the *FIRST* Vex Challenge (FVC), a mid-level robotics competition for high-school students. *FIRST* believes FVC can offer a classic *FIRST* challenge with a more accessible and affordable robotics kit. *FIRST* will pilot the *FIRST* Vex Challenge in 2005/06 to help decide its long-term role. RadioShack, *FIRST* Official Sponsor, funded development of FVC and the pilot season. Innovation First, a long-time *FIRST* supporter, developed the original *FIRST* Robovation kit and initiated the collaboration of *FIRST*, RadioShack, and Innovation First, which led to FVC.

## Junior FIRST LEGO League

In 2004/05, *FIRST* LEGO League piloted a Junior *FIRST* LEGO League (JLL), focusing on 6-to-9-year-olds. Approximately 150 JLL teams of up to five members applied their thinking and creativity to a small-scale version of the “No Limits” challenge. The LEGO Group is a key supporter of JLL.

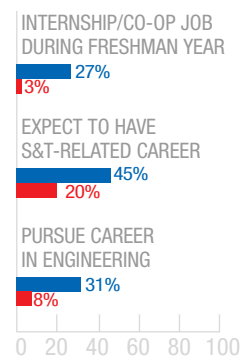
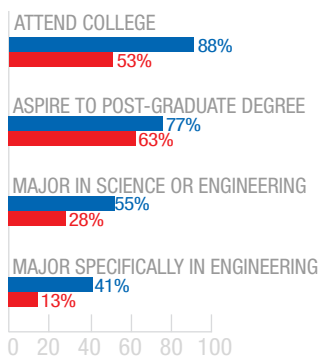
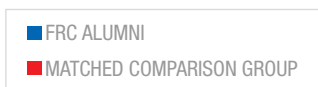
## FIRST Impact: Brandeis University Evaluation

*FIRST* continues to work with Brandeis University’s Center for Youth and Communities at the Heller School for Social Policy and Management to provide tangible evidence of our impact on students’ academic and career paths. Recently, to assess impact on program participants, Brandeis conducted an independent, retrospective survey of *FIRST* participants and compared results to a comparison group of non-*FIRST* students with similar backgrounds and academic experiences, including math and science. *FIRST* is pleased with the findings. When compared with the comparison group, *FIRST* students are:

- More than three times as likely to major specifically in engineering (41% versus 13%).
- Roughly ten times as likely to have had an apprenticeship, internship, or co-op job in freshman year (27% versus 3%).
- Significantly more likely to expect to achieve a post-graduate degree (Masters or higher: 77% versus 63%).
- More than twice as likely to expect to pursue a science or technology career (45% versus 20%).
- Nearly four times as likely to expect to pursue a career specifically in engineering (31% versus 8%).

*FIRST continues to measure its impact and explore ways to extend its reach and provide more young people the opportunity to discover the excitement and rewards of science, technology, and engineering.*

## IMPACT: FIRST Robotics Competition Evaluation





*Junior FIRST LEGO League*



*FIRST Vex Challenge*





*FIRST thanks all of our supporters and makes every effort to ensure complete and accurate listings. If we've made an error, please accept our sincere apology, and please help us correct it by letting us know at 1-800-871-8326.*

IN ADDITION TO THE FORMAL SPONSORS, SUPPLIERS, AND CONTRIBUTORS ACKNOWLEDGED ON THESE PAGES, *FIRST* EXTENDS ITS SINCERE APPRECIATION TO THE TENS OF THOUSANDS OF VOLUNTEERS WHO GENEROUSLY DEVOTE THEIR TIME AND EXPERTISE, AND THE THOUSANDS OF SPONSORS OF *FIRST* ROBOTICS COMPETITION, *FIRST* LEGO® LEAGUE, AND *FIRST* VEX CHALLENGE TEAMS AND EVENTS. *FIRST* COULD NOT ACHIEVE THE POWERFUL IMPACT IT DOES WITHOUT THIS TREMENDOUS SUPPORT.

**FIRST FOUNDING SPONSORS**

John Abele, Boston Scientific Corporation  
Baxter International, Inc.  
DaimlerChrysler Corporation Fund  
DEKA R&D Corp.  
Delphi  
General Motors Corporation  
Johnson & Johnson  
Kleiner Perkins Caufield & Byers  
Motorola, Inc.  
Xerox Corporation

**FIRST OFFICIAL SPONSOR**

RadioShack Corporation

**2004-2005 FIRST CONTRIBUTORS**

Abbott Laboratories  
John E. Abele\*\*\*  
Paul Allaire\*\*\*  
American Electric Power Service  
Argosy Foundation  
Ariaf Foundation  
Aspentech, Inc.  
Bancroft - Clair Foundation  
J. T. Battenberg III\*\*\*  
Victor J. Bauer  
BD Biosciences  
Douglas L. Becker\*\*\*  
BP International, Ltd.  
Mr. & Mrs. Barry Brensinger  
Dana Brown  
David W. Brown  
Paul & Dorothy Brown, in memory of David M. Brown,  
Columbia Astronaut  
Ursula Burns\*\*\*  
Dennis Carey\*\*\*  
Francois J. Castaing\*\*\*  
Central Intelligence Agency  
Corey Chitwood  
Mr. & Mrs. Harold Cooper Corporation for National and Community Service  
Lucinda Crabtree  
D&B Foundation  
Anthony Durniak  
Peter Eio\*  
Paul Enderle  
Ford Foundation  
Scott Frock  
John F. Gaither, Jr.  
Garuda, U.S. Inc.

Elliot Glassman  
Roberta F. Gleiter  
The Greenspan Foundation  
Donn Griffith  
Dr. & Mrs. Gregory Gross  
Deborah Grubbe\*  
Mr. & Mrs. Robert A. Hammond  
Brian Hendrickx  
John M. Hennessy\*\*\*  
Heritage United Way  
Gordon J. Homer\*\*\*  
Howard Honig  
Kent Hughes\*  
H. R. Hutchinson  
Johnson & Johnson  
Trevor O. Jones\*  
Dean L. Kamen\*\*\*  
Carol S. Kauffman  
Ewing Marion Kauffman Foundation  
Edith & Godtfred Kirk Christiansens Fond\*\*  
Kjeld Kirk Kristiansen\*\*  
The Krawic Family  
Land America  
Gordon Lankton\*  
Lawrence Tech. University  
Henry Link  
Vernon R. Loucks, Jr.\*\*\*  
Governor John Lynch  
Anna Maenhout  
The MASIE Center  
Susie Mathieu\*\*\*  
Patricia Mead  
Lucas Merrow  
Thelma Pedersen Meyer  
Motorola Foundation  
Marian & Brian Murphy  
National Institute of Standards and Technology  
Cecilia Neumann\*  
New Hampshire Society for Technology in Education (NHSTE)  
Willard Nott  
Our Lady Of Mercy High School  
PSNH  
Tom Pirelli\*, Ariel Foundation  
Raymond K. Price, Jr.\*\*\*  
Michael Robbins & Heather Hauck  
Dennis A. Roberson\*\*\*  
Viola Rothenberg  
Sanyo North America Corporation  
Sara Lee Foundation  
Sargent Production Services, Inc.  
Dr. Roland Schmitt\*  
Curt M. Selquist\*\*\*

Shape Magazine  
Richard & Susan Smith Family Foundation  
Michael Sperber  
Staples  
Thomas G. Stephens\*\*\*  
Dia Stolnitz  
Kate Straus  
Brogan Thomsen  
Mr. & Mrs. Gary L. Tooker\*  
Robert Tuttle\*\*\*  
United Technologies Corporation  
University of New Hampshire  
Space Grant  
James R. Utaski\*\*\*  
Edwin Van Brunt  
Verizon  
Verizon Foundation  
Josh & Judy Weston Foundation, Inc.\*  
John Wheeler  
Mr. & Mrs. Robert N. Wilson,  
Pheasant Hill Foundation  
Janet Winther  
William Wulf\*  
The Xerox Foundation  
Ronald L. Zarrella\*\*\*

**2004-2005 FIRST PROFESSIONAL ASSOCIATIONS**

American Society of Mechanical Engineers  
Girls, Inc.  
Institute of Electrical and Electronics Engineers  
National Society of Black Engineers  
Society of Automotive Engineers  
Society of Hispanic Professional Engineers  
Society of Manufacturing Engineers  
Society of Women Engineers

**2005 FIRST CHAMPIONSHIP SPONSORS**

Autodesk, Inc.  
Central Intelligence Agency  
Dassault Falcon Jet Corporation  
Delphi  
FedEx Corporation  
Georgia Institute of Technology  
Kimberly-Clark  
Lockheed Martin  
NASA

National Beverage Corp.  
RadioShack Corporation  
Scientific-Atlanta

**2004 FIRST LEGO LEAGUE SPONSORS**

**FLL Founding Partner**  
The LEGO Group

**FLL Official Suppliers**  
3M  
LEGO System A/S

**2004 FIRST LEGO LEAGUE OFFICIAL TOURNAMENT SPONSORS & HOST ORGANIZATIONS United States**

**Alabama Official Tournament**  
*Huntsville, AL*  
AUVSI Pathfinder Chapter  
Rocket City Robotics - FRC Team 34

**Alaska Official Tournaments**  
*Anchorage, AK*  
Alaska Robotics Education Association

*Fairbanks, AK*  
Alaska Robotics Education Association

**Arizona Official Tournament**  
*Phoenix, AZ*  
Arizona *FIRST* Regional Planning Committee  
General Motors Desert Proving Ground

**Arkansas Official Tournament**  
*Mountain Home, AR*  
Baxter Health Care  
Science & Technology Group, Inc.

**C. California Official Tournament**  
*Fresno, CA*  
Clovis Unified School District  
CV Robotics  
Wells Fargo

**N. California Official Tournament**  
*San Jose, CA*  
Arrow Packaging  
Banana Republic  
Century Graphics

\*\*\* Member of the *FIRST* Board of Directors \*\* *FIRST* Honorary Director \* Member of the *FIRST* Executive Advisory Board



Espresso Garden & Café  
Gene Gaffney Insurance Services  
Kim Smythe  
GAP, Inc.  
The Horng Family  
LEGO Education  
The LEGO Group – Retail Stores:  
Valley Fair, Hillsdale & Stoneridge  
Lowe's Home Improvement,  
Union City  
Parallax  
Playing At Learning  
Robotics Learning  
The Robot Store  
Safeway  
San Jose City College  
Karen Sanford  
SERVO Magazine  
SIA Semiconductor Industry  
Association  
Yahoo!

**S. California Official Tournament**  
*Carlsbad, CA*  
LEGOLAND – California

**Colorado Official Tournament**  
*Boulder, CO*  
Colorado *FIRST*  
Lockheed Martin

**Connecticut Official Tournament**  
*New Britain, CT*  
Central Connecticut State  
University  
Connecticut Department of  
Education: Office of  
Technology  
LEGO America  
The Science Center of  
Connecticut

**Delaware Official Tournament**  
*Newark, DE*  
AstraZeneca  
Connective Power  
Dupont  
FMC  
GM Saturn  
Gore Associates  
MOE – FRC Team 365  
Rotary Club of Brandywine  
Hundred

**Florida Official Tournament**  
*Melbourne, FL*  
Florida Institute of Technology  
IEEE Student Chapter – Florida  
Institute of Technology  
Society of Women Engineers  
Space Coast – FRC Team 233

**Georgia Official Tournament**  
*Atlanta, GA*  
Georgia Institute of Technology  
Kimberly-Clark  
Netherlands American  
Community Trust

**Illinois Official Tournament**  
*Arlington Heights, IL*  
Innovations in Science and  
Technology (INSciTE)  
Motorola

**Indiana Official Tournament**  
*Fort Wayne, IN*  
Indiana University Purdue  
University - Fort Wayne,  
Department of Engineering  
ITT Aerospace and  
Communications Division

**Iowa Official Tournament**  
*Ames, IA*  
3M  
Cotton Family Foundation  
ISU Engineering  
Chuck Kiester  
Maytag  
Loren Zachary

**Kentucky Official Tournament**  
*Highland Heights, KY*  
iSPACE  
Northern Kentucky University  
Toyota Motor Manufacturing,  
North America, Inc.

**Louisiana Official Tournament**  
*Metairie, LA*  
ASME  
BLAST, Inc.  
Cough Partners LLP  
Bruce J. Heim Foundation  
Intralox  
Tulane University

**Maine Official Tournament**  
*Brewer, ME*  
Agent Institute, University of  
Maine – Orono  
Maine Robotics Org.

**Maryland Official Tournament**  
*Bel Air, MD*  
BAE Systems  
Booz Allen Hamilton  
Boys and Girls Clubs of Hartford  
County  
Comcast  
Dynamic  
Log.Sec Corporation  
National Defense Industrial  
Association  
ORSA Corporation  
SAIC  
Tacoma Park Middle School  
Tri\_S, Inc.  
University of Maryland,  
Baltimore

**E. Massachusetts Official  
Tournament**  
*Quincy, MA*  
Gillette Company  
Hyper – FRC Team

**W. Massachusetts Official  
Tournament**  
*Worcester, MA*  
Worcester Polytechnic Institute

**Michigan Official Tournament**  
*Detroit, MI*  
General Motors Milford Proving  
Ground

**Michigan Pilot Tournament**  
*Lansing, MI*  
Adventist Robotics League  
Seventh Day Adventist School  
System, North America

**Minnesota Official Tournament**  
*St. Louis Park, MN*  
Honeywell, Inc.  
Innovations in Science and  
Technology (INSciTE)

**Mississippi Official Tournament**  
*Gautier, MS*  
Mississippi Gulf Coast  
Community College  
NASA Stennis Space Center

**Missouri Official Tournament**  
*St. Louis, MO*  
St. Louis Community College at  
Florissant Valley  
St. Louis Science Center

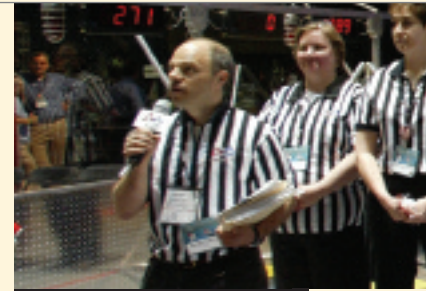
**New Hampshire Official  
Tournament**  
*Nashua, NH*  
BAE Systems

**New Jersey Official Tournament**  
*Flanders, NJ*  
Ethicon  
Mount Olive Board of Education

**New York City Official  
Tournament**  
*New York, NY*  
Con Edison  
The Netherlands American  
Community Trust  
New York City Board of Education  
New York City Council of  
Carpenters  
New York City Technical College  
Polytechnic University  
Vision Education

**North Carolina Official  
Tournament**  
*Raleigh, NC*  
Allied Technologies  
North Carolina A & T University  
College of Engineering

**North Dakota Official  
Tournament**  
*Grand Forks, ND*  
Applied Engineering, Inc. of West Fargo



### *FIRST Volunteer:*

**Benge Ambrogio**  
FRC Chief Referee

### *Outstanding Volunteer*

*Benge Ambrogio's history of volunteering is the stuff of FIRST legend. In 12 years of contributing his creativity, energy, and problem-solving skills, Benge has helped in most every area, including game design, fabricating field components, and building prototype robots. Long-time FIRST fans remember the placebo robots he built to stand in for missing machines, especially the one that won the match. Today, as FRC Chief Referee, Benge's responsibilities include developing game rules, perfecting referee training, and ensuring consistent officiating in all matches. For extensive service to the entire organization, Benge Ambrogio is FIRST's 2005 Outstanding Volunteer.*



S P O N S O R S

FIRST thanks all of its supporters and makes every effort to ensure complete and accurate listings. If we've made an error, please accept our sincere apology, and please help us correct it by letting us know at 1-800-871-8326.

FIRST ANNUAL REPORT

Basin Electric Power Cooperative of Bismarck  
University of North Dakota, Ralph Engelstad Arena  
The University of North Dakota School of Engineering and Mines

**Ohio Official Tournament**  
*Wright Patterson Air Force Base, OH*  
ASME  
Universal Technology Corporation  
The Wright-Kettering Chapter of the AUVSI  
Wright Patterson Air Force Base  
Wright Technology

**Oregon Official Tournament**  
*Hillsboro, OR*  
Advance Date Processing  
Boys and Girls Clubs of Portland Metropolitan Area  
The Catlin Gable School  
Girl Scouts, Columbia River Council  
Intel Corporation  
Mentor Graphics  
Oregon Museum of Science and Industry  
Oregon University System  
OSU Extension 4-H Program  
PARTS Portland Area Robotics Society  
RadiSys  
Software Association of Oregon

**E. Pennsylvania Official Tournament**  
*Drexel Hill, PA*  
Drexel University  
ETC – Environmental Tectonics Corporation  
PECO Exelon  
Upper Darby School District

**W. Pennsylvania Official Tournament**  
*Pittsburgh, PA*  
ALCOA Foundation  
AT&T  
DSF Foundations  
The Grable Foundation  
The Heinz Foundation  
National Robotics Engineering Consortium  
PPG

**Rhode Island Official Tournament**  
*East Providence, RI*  
Rhode Island Human Resource Investment Council

**S. Carolina Official Tournament**  
*Columbia, SC*  
FRC Team 343  
Palmetto FIRST Robotics  
South Carolina Department of Education  
University of South Carolina – College of Engineering and Information Technology

**Tennessee Official Tournament**  
*Cookeville, TN*  
Tennessee Tech  
UT-Battelle

**Central Texas Official Tournament**  
*Austin, TX*  
Austin Independent School District  
Kealing Middle School  
National Instruments

**N. Texas Official Tournament**  
*Dallas, TX*  
Richardson Home School Association Foundation

**S. Texas Official Tournament**  
*Houston, TX*  
Houston Independent School District  
Lockheed Martin  
NASA

**Virginia Official Tournament**  
*Blacksburg, VA*  
NASA Langley Research Center  
National Institute of Aerospace  
Virginia Cooperative Extension 4-H  
Virginia Polytechnic College of Engineering

**Washington Official Tournament**  
*Bellevue, WA*  
ASME  
Brookfield High School  
Lions – FRC Team 1099  
Seattle Robotics Association

**West Virginia Official Tournament**  
*Parkersburg, WV*  
Caperton Technology Center  
West Virginia University – Parkersburg

**Wisconsin Official Tournament**  
*Sussex, WI*  
GE Medical  
Rockwell Automation

**Austria**  
Hands on Technology

**Belgium**  
Stichting Techniekpromotie

**Brazil**  
EDACom Technologia

**Canada**  
**Alberta Official Tournament**  
*Calgary, Alberta*  
Pat Martens - tec-sploration  
Southern Alberta Institute of Technology  
Western Canadian Robotics Society

**British Columbia Official Tournament**  
*North Vancouver, British Columbia*  
BC Original Minds Association  
Telus

**Newfoundland/Labrador Official Tournament**  
*Mt. Pearl, Newfoundland*  
Skills of Canada

**Ontario Official Tournament**  
*Toronto, Ontario*  
Crescent School  
Effem Canada Inc.  
General Motors of Canada  
Imperial Oil Foundation

**China**  
Semia

**Denmark**  
FIRST Scandinavia

**France**  
Techno RoboTIC Ligue

**Germany**  
Hands on Technology

**India**  
Hightech Kids  
Honeywell Technology Solutions  
Lab Pvt Ld Bangalore

**Japan**  
CREFUS

**Luxembourg**  
Stichting Techniekpromotie

**Mexico**  
**Mexico Pilot Tournament**  
*Mexico City, Mexico*  
AIUME – Asociación de Ingenieros Universitarios Mecánico Electricistas, AC  
Explora, descubre y crea, A.C.  
ITESM – Instituto Tecnológico y de Estudios Superiores de Monterrey (Campus Santa Fé)  
Ignacio and Barbara Navarro  
Promedici SA de CV  
SOREM, SC

**Netherlands**  
Stichting Techniekpromotie

**Norway**  
FIRST Scandinavia

**Singapore**  
Chrestar

**South Africa**  
Artech  
Hip2B2 – a division of the Shuttleworth Foundation  
Trophy Robotics

**South Korea**  
ALCO / ICIRA

**Sweden**  
FIRST Scandinavia

**Switzerland**  
Hands on Technology

**Taiwan**  
K.Kingdom

**Turkey**  
Rahmi M. Koç Museum  
Korozo Company  
Smartkids  
Yedigun (a brand of PepsiCO)

**United Kingdom**  
Young Technologists

**2005 FIRST BOTANICS COMPETITION SUPPLIERS**  
**Official Suppliers**  
Autodesk, Inc.  
FedEx Corporation

**Platinum Suppliers**  
CDW Corporation  
Delphi  
ebm-pabst  
Innovation First, Inc.  
Microchip Technology Inc.  
SMC Corporation  
The Timken Company

**Gold Suppliers**  
Bosch Rexroth Corporation, Pneumatics  
DENSO Corporation  
Exide® Corporation  
FESTO  
HPE Automation  
Mabuchi Motor Co., Ltd.  
Microsoft®

**Silver Suppliers**  
Allegro Microsystems  
Bimba Manufacturing Company  
Fluid Power Education Foundation  
Globe Motors™  
Norgren  
Parker Hannafin Corporation  
Terminal Supply Company  
Thomas Industries  
TYCO Electronics

**Bronze Suppliers**  
CCL Industrial Motor, Ltd.  
Clippard Instrument Laboratory  
Fisher-Price®  
Midtronics  
Monnier Incorporated  
T&L Publications  
-Nuts and Volts Magazine  
-SERVO Magazine™  
Taigene Electric Machinery Co., Ltd.  
Texas Instruments



### **Contributors**

Anderson-Carbolon Group  
Component Technology &  
Fabrication  
Grand Rapids Controls, Inc.  
Hobbs  
Kent Elastomer Products  
Loctite  
Lord Corporation  
Skyway Recreation Products  
WIKA Instrument Corporation

### **FIRST Partners**

E-machine shop  
Hatch Technology  
MMH Ventures  
MSC Industrial Supply Company

### **2005 FIRST ROBOTICS COMPETITION REGIONAL SPONSORS**

#### **Arizona Regional**

*Phoenix, AZ*  
Amtech Systems  
AON  
Arizona Science Center  
Avnet, Inc.  
Brian DeBruin  
Eagle Picher  
Freescale  
Future Electronics  
GM Desert Proving Grounds  
Innovation First, Inc.  
Intel  
ITT Technical Institute  
Jan Corey's Machine Shop  
Microchip Employees Valley of the  
Sun United Way  
Microchip Technology Inc.  
ON Semiconductor  
Osborn Maledon  
Philips Semiconductors  
Queen Creek High School  
Steve Sanghi  
ST Microelectronics  
Wells Fargo Bank  
White Electronics Designs, Inc.

#### **BAE Systems Granite State Regional**

*Manchester, NH*  
BAE Systems

#### **Boilermaker Regional**

*West Lafayette, IN*  
Coca-Cola  
Delphi  
DuPont  
General Motors  
Indiana Space Grant Consortium  
Kimberly-Clark  
NASA  
One Source Equipment  
Preston's  
Purdue University - Office of the  
Provost/Office of Engagement,  
College of Engineering, Office  
of Admissions, ITaP

(Information Technology at  
Purdue), School of Mechanical  
Engineering, Purchasing Office  
Rolls-Royce Corporation  
Schlumberger  
Solae  
Snow Bear

#### **Buckeye Regional**

*Cleveland, OH*  
Analex  
Bastion  
Battelle Memorial Institute  
CAPRA  
CASE Western Reserve University  
Cleveland Cavaliers  
The Cleveland Foundation  
Cleveland Indians  
Cleveland State University  
Cuyahoga Community College  
Diebold  
Dominion East Charities  
East Suburban Business Partners  
Eaton  
Forest City Enterprises  
Goodrich  
George Gund Foundation  
Martha Holden Jennings  
Foundation  
Kent State University  
Key Bank  
NASA Glenn Research Center  
Nordson  
Ohio Aerospace Institute  
Ohio Space Grant Consortium  
Paragon TEC  
Parker Hannafin  
Pepsi  
QSS Group  
RPM  
Sierra Lobo  
Swagelok  
University of Akron  
Zin Technologies

#### **Chesapeake Regional**

*Annapolis, MD*  
Lockheed Martin  
Maryland Information Technology  
Center  
NASA  
Sylvan Laureate Foundation  
US Naval Academy

#### **Colorado Regional**

*Denver, CO*  
Ball Corp.  
Hewlett-Packard  
IHS (Information Handling  
Systems)  
Lockheed Martin  
NASA

#### **Detroit Regional**

*Detroit, MI*  
AVI Food Systems, Inc.  
Blue Cross-Blue Shield Michigan  
The Castaing Family Foundation

DaimlerChrysler Foundation  
Dickinson Wright PLLC  
DTE Foundation  
Fifth Third Bank  
General Motors Foundation  
Michigan Department of Labor  
and Economic Growth  
Price Waterhouse Coopers  
US Army (TARDEC)  
Wayne State University

#### **Finger Lakes Regional**

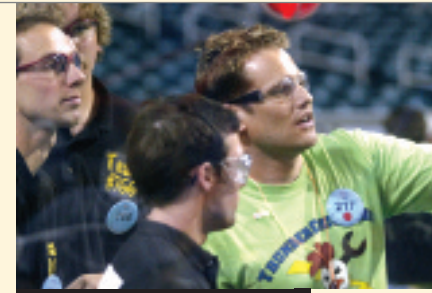
*Rochester, NY*  
Bausch & Lomb Inc.  
Excellus Blue Cross Blue Shield -  
Rochester area  
The Gleason Foundation  
Kodak  
Nexpress Solutions, Inc.  
The Pike Company  
Rochester Business Journal  
Rochester Democrat and  
Chronicle  
Rochester Institute of Technology  
The Sentry Group  
Wegman's Food Markets  
Wilmorite Properties, Inc.  
Xerox

#### **Florida Regional**

*Orlando, FL*  
Bradley Investments, LLC  
Canaveral Council of Technical  
Societies  
DeVry University  
Florida High Tech Corridor  
Council  
Florida Space Grant Consortium  
Harris Corporation  
Jones, Edmunds & Associates, Inc.  
Leftwich Consulting Engineering  
Lockheed Martin  
Motorola iDEN Mobile Devices  
NASA Kennedy Space Center  
Progress Energy  
Saab Training LLC  
Sypris Test & Measurement  
TUI Business Machines  
United Space Alliance  
University of Central Florida  
Walt Disney World Co.

#### **Great Lakes Regional**

*Ypsilanti, MI*  
AVL  
Bosch  
Castaing Family Foundation  
Comau Pico  
DaimlerChrysler Corporation  
Fund  
Delphi Foundation  
Eastern Michigan University  
EDS  
Ford Motor Company Fund  
General Motors Foundation  
Metaldyne  
Michigan Department of Labor  
and Economic Growth



### **FIRST Mentor:**

Paul Copioli  
Team 217,  
Utica Community Schools,  
Sterling Heights, MI

#### **Woodie Flowers Award**

*Each year, FIRST recognizes an  
outstanding engineer or teacher who  
best demonstrates excellence in  
teaching science, math, and creative  
design. A sample of the delightful  
prose from the nomination submitted  
by his team for Paul Copioli, Mentor,  
Team 217, makes it clear why he is  
the 2005 winner:*

*A passion for young people*

*A passion for robots*

*A major source of help to anyone  
who asks*

*Five years of dedicated, year-round service*

*A major FLL organizer*

*A remote kickoff and FRC Regional  
announcer*

*A major off-season FRC organizer*

*A robotics competition social event  
organizer*

*An FRC Regional master of ceremonies*

*An Unsung Hero on Chief Delphi  
Forums - three times*

*Accused of "perpetual excitement"*

*Involved in the details of making  
machines work*

*Involved in the details of making  
teams work*

*Involved in the details of making the  
mission of FIRST work*



The New Detroit Science Center  
Search Plus International  
Visteon  
WWJ-950 Newsradio

**Greater Toronto Regional**

*Mississauga, ON, Canada*  
Argosy Foundation  
Bell Canada  
Jalynn Bennett  
Boston Scientific Canada  
CAE  
Dow Chemical Company  
GM Canada  
Guelph University  
Imperial Oil Foundation  
Intier  
The Kingbridge Centre  
McMaster University  
MD Space Missions  
NSERC  
Ontario Power Generation  
Power Corp.  
Precarn  
Province of Ontario  
Queen's University  
Ryerson University  
Scotiabank  
Society of Energy Professionals  
Toronto District School Board  
Toronto Hydro  
University of Toronto –  
Engineering and Alumni Affairs  
University of Waterloo –  
Engineering and Math

**Israel (Pilot)**

*Haifa, Israel*  
Ken Bialkin  
James Dimon  
Irwin Dorros  
GM Foundation  
Marc S. Goldman  
Alfred D. Goldstein  
Jeff & Andi Goodman  
Earle Kazis  
Ralph Larsen  
Honorable Frank Lautenberg  
Robert J. Levenson  
Robert Marbut  
Bernard Marcus  
Arthur Ross  
Edward Rust, Jr.  
Walter Shipley  
Paul Silberberg  
Sasha Smukler  
Henry & Marilyn Taub  
Technion University  
Andrew Tisch  
Jerome Waldor  
Stanley Weiss  
Josh S. Weston  
Mortimer B. Zuckerman

**Las Vegas Regional**

*Las Vegas, NV*  
Bechtel Nevada  
Bechtel SAIC

Cozymel's  
EG&G  
Jan Corey's Machine Shop  
Kerr-McGee Chemical  
Corporation  
NASA  
Southwest Gas Corporation  
Sprint  
Technology Ventures Corporation  
University of Nevada, Las Vegas

**Lone Star Regional**

*Houston, TX*  
American Society of Mechanical  
Engineers – Petroleum Division,  
Anadarko  
BP  
Burlington Resources  
DeVry University  
Duke Energy  
ExxonMobil  
Evelyn Griffin  
The Houston Endowment  
ITT Technical Institute  
NASA Johnson Space Center  
Woodforest Bank

**Midwest Regional**

*Chicago, IL*  
Comau Pico  
DeVry University  
GE Healthcare  
GM Electro-Motive  
Vernon Loucks  
Motorola  
National Business  
Furniture/George Mosher  
Dennis Roberson

**NASA/VCU Regional**

*Richmond, VA*  
American Institute of Aeronautics  
& Astronautics  
Booz Allen Hamilton  
Marie Dennett Foundation  
DeVry University  
Dominion  
DuPont Spruance, Richmond  
ECPI Technical College  
General Dynamics Network  
Systems  
Greater Richmond Partnership,  
Inc.  
Greater Richmond Technology  
Council  
Groot Family Foundation  
Infineon Technologies Richmond  
Jewett Machine  
Lockheed Martin  
Lowe's of Short Pump  
MITAC  
NASA Goddard Space Flight  
Center  
NASA Langley  
Northrop Grumman Newport  
News  
Owens&Minor  
Pepsi

Raytheon  
Richmond Joint Engineers'  
Council  
Ronald A. Williams,  
Ltd./Technology for Teaching  
Science Museum of Virginia  
Seen & Heard Communications  
SyCom Technologies  
VCU Dining Services  
Virginia Commonwealth  
University

**New Jersey Regional**

*Trenton, NJ*  
ADP  
Bristol-Myers Squibb  
Ethicon, a Johnson & Johnson  
Company  
Johnson & Johnson  
Lightpath Sales  
William H. Longfield  
John C. McMullan  
Mercedes-Benz USA  
New Jersey Institute of Technology  
Prosperity New Jersey  
Arthur F. Weinbach  
Josh and Judy Weston Foundation

**New York City Regional**

*New York, NY*  
ADP  
American Express Foundation  
Clark Foundation  
Con Edison  
Credit Suisse First Boston  
H.O. Penn Machinery  
Johnson & Johnson  
JPMorgan Chase Foundation  
Thomas E. McInerney  
MetLife  
Netherlands American  
Community Trust, Inc.  
New Jersey Institute of  
Technology  
NYC Department of  
Environmental  
Polytechnic University  
Siemens Foundation  
Sungard Data Systems, Inc.  
Young Presidents Organization

**Pacific Northwest Regional**

*Portland, OR*  
Autodesk  
CH2MHILL  
Kathy Clevenger  
Hewlett-Packard  
ImTech, Inc.  
ITT Technical Institute  
Microchip Technology Inc.  
NASA Ames  
Olympic Controls

**Palmetto Regional**

*Columbia, SC*  
BellSouth  
BellSouth Pioneer Volunteers  
BMW

Carolina First Bank  
City of Columbia  
Inter Tech Corporation  
Kemet  
Michelin  
Palmetto Partners for Science and  
Technology  
Pirelli North America  
Pitsco  
Progress Energy  
R L Bryan Company  
Robert Bosch Corp.-Charleston  
Roche Carolina  
SCANA  
SC Department of Education-  
Office of Career and Technology  
Education  
School District of Oconee-  
Hamilton Career Center  
Siemens Diesel Systems  
Wilbur Smith  
Steve Swanson  
USC College of Engineering and  
Information Technology  
Verizon Wireless  
Westinghouse of Savannah River

**Peachtree Regional**

*Duluth, GA*  
AeA (American Electronics  
Association)  
Karen Albrecht  
American Institute of Aeronautics  
and Astronautics  
BellSouth  
DeVry University  
DBM  
DVT Corporation  
EMS Technologies, Inc.  
Ford  
Gary Bisch Welding  
Georgia Institute of  
Technology  
Georgia Power  
Gwinnett County Public  
Schools/Technology Education  
Program  
Gwinnett Medical Center/  
Gwinnett Health System  
Hewlett-Packard  
iCoachMath Corporation  
Kimberly-Clark Corporation  
Lockheed Martin Aeronautics  
Miller Electric Manufacturing  
NASA  
The Netherlands American  
Community Trust, Inc.  
Scientific-Atlanta  
Siemens Logistics & Assembly  
Systems, Inc.  
Southern Polytechnic State  
University  
Synergy America, Inc.

**Philadelphia Regional**

*Philadelphia, PA*  
Cotsword Foundation Trust  
Drexel University



DuPont  
ETC  
Independence Blue Cross & Blue  
Shield  
Motorola Broadband  
Communications Sector  
PECO  
PQ Corporation  
Rohm and Haas  
Subaru of America

#### **Pittsburgh Regional**

*Pittsburgh, PA*  
Accenture  
Applied Perception, Inc.  
Howard Heinz Endowment  
Nova Chemicals Corporation  
Rapidigm, Inc.  
The Technology Collaborative

#### **Sacramento Regional**

*Davis, CA*  
Charmichael Honda  
Cypress Semiconductor  
NASA Ames  
SMUD  
Tower Records  
University of California Davis  
University of California Davis –  
College of Engineering

#### **SBPLI Long Island Regional**

*Hempstead, NY*  
Bad Boys of Bay Shore  
BAE Systems  
Battelle Foundation  
Bethpage Fed. Credit U.  
Creat. Socio-Medic  
EDO  
FESTO  
Halpern Eurich  
Hofstra  
InfoHighway ARC  
Ingerman Smith LLP  
Senator Owen H. Johnson  
JPMorgan Chase  
Steven Leventhal  
Moore Stephens  
Municipal Testing Labs  
Northrop Grumman  
OSI  
Oxford Health Plans  
ParkEastConstruction  
School-Business Partnerships of  
Long Island  
School Construction  
South Oaks Hospital  
Suffolk County N. Bank  
SUNY, Stony Brook  
Teachers Federal Credit Union

#### **Silicon Valley Regional**

*San Jose, CA*  
Cypress Semiconductor  
The House Foundation  
NASA Ames  
Starbucks  
United Defense

#### **Southern California Regional**

*Los Angeles, CA*  
Annenberg Foundation  
E Team  
Infonetic  
ITT Technical Institute  
NASA Ames  
Oppenheimer Family  
Foundation  
Raytheon  
Toyota Motor Sales USA  
Walt Disney Imagineering  
Noah Wyle Foundation

#### **St. Louis Regional**

*St. Charles, MO*  
ABNA Engineering  
Harry Baker  
Clayco Construction  
Commerce Bank  
The Doerr Family  
Emerson Motor Company  
The Fred Weber Company  
Greater St. Louis Foundation  
Hunter Engineering  
Innovation First  
James Mulligan Printing  
Edward Jones  
MasterCard International  
NASA  
New Vista Partners  
Polster, Lieder, Woodruff &  
Lucchesi, L.C.  
The Seeser Family  
St. Louis Community College at  
Florissant Valley  
St. Louis Science Center  
The Vatterott Family

#### **UTC/New England Regional**

*Hartford, CT*  
United Technologies Corporation

#### **Waterloo Regional**

*Waterloo, ON, Canada*  
ATS Automation Tooling Systems  
Maplesoft  
Research In Motion  
Toyota Motor Manufacturing  
Canada Inc.  
University of Waterloo  
University of Waterloo, Faculty of  
Engineering

#### **West Michigan Regional**

*Allendale, MI*  
Autocam Corporation  
Clipper Belt Lacer Company  
General Motors Corporation  
Grand Valley State University  
Kendall Electric Incorporated  
Michigan Department of Labor  
and Economic Growth  
Smith Industries  
Spoelhof Foundation  
Steelcase, Incorporated  
US Army (TARDEC)  
Westwater Group (J. C. Huizenga)

#### **2005 FIRST ROBOTICS COMPETITION SCHOLARSHIP AWARDS**

Paul Allaire Medal  
ASME  
Boston University  
California State University -  
Northridge  
Clarkson University  
College for Creative Studies  
Colorado State University-Pueblo  
Daniel Webster College  
DeVry University  
Drexel University  
Eastern Michigan University  
Embry-Riddle Aeronautical  
University  
Farleigh Dickinson University  
Ferris State University  
Florida Atlantic University  
Florida Institute of Technology  
Grand Valley State University  
Hampshire College  
Henry Ford Community College  
Idaho State University  
Illinois Institute of Technology  
ITT Technical Institute  
Kansas State University  
Kettering University  
Lake Superior State University  
Lawrence Technological University  
Mercedes-Benz  
Michigan State University  
Michigan Technological University  
Montclair State University  
New Jersey Institute of Technology  
Northeastern University  
Ohio State University  
Olin College of Engineering  
Oregon State University  
Pennsylvania College of  
Technology  
Polytechnic University  
Purdue University/Delphi  
Corporation  
Raytheon Company  
Rochester Institute of Technology  
Schoolcraft College  
Society of Women Engineers  
Southern California Robotics  
Temple University  
University of Arkansas - Little Rock  
University of Dayton/Delphi  
Corporation  
University of Delaware  
University of Denver  
University of Hartford  
University of Michigan/Delphi  
University of New Hampshire  
University of Rochester  
University of South Carolina  
University of Southern California  
University of Waterloo  
Virginia Commonwealth  
University/VCE  
Washington State University  
Wayne State University  
WPI Design Innovation



*FIRST Sponsor:*

**Autodesk®**

*For 14 years, Autodesk has been an outstanding supporter of FIRST. Every FRC Kit of Parts includes Autodesk 3D Design Software as well as 3D renderings of all kit parts to help speed the robot design process. As a result, students have the opportunity to work with the latest technology in designing their robots. The Autodesk Visualization Award recognizes excellence in creating animation and the Autodesk Inventor Award recognizes the team that best understands, documents, and communicates the distinct phases of the design process. In 2005, Autodesk significantly increased its support of FIRST, becoming a sponsor of the Pacific Northwest Regional and the Official Championship Sponsor of the FIRST Championship in Atlanta.*



S P O N S O R S

**2005 FIRST ROBOTICS  
COMPETITION  
TOP TEAM SPONSORS**

*(Ten or more teams in 2005)*

American Electric Power  
BAE Systems  
Delphi  
DeVry University  
Ford Motor Company  
General Electric  
General Motors  
ITT Technical Institute  
Johnson & Johnson and affiliates  
Lockheed Martin  
NASA  
Raytheon  
Siemens  
Toronto District School Board  
United Technologies Corporation  
Verizon  
Walt Disney

**2005 FIRST ROBOTICS  
COMPETITION  
TEAM SPONSORS**

180solutions, Inc.  
21st Century Fund  
4 Office Automation Ltd.  
4Artistry.com  
A&E Auto Filter  
A&M Industrial Supply  
AADCO Medical, Inc.  
AAI  
Aalderink Electric Co.  
Abacorp  
ABB  
ABB Robotics  
ACCD Foundation  
Access Laserpress Incorporated  
Accurate Instrument Service Co.  
Accu-Tech  
Adam's Machine Shop  
ADP  
Advanced Animation  
Advanced Network Systems  
Advanced Web Systems  
Advo Inc.  
Advocates for Science and Math  
Education, Inc.  
AEC CADCON, Inc.  
AECL (Atomic Energy of Canada  
Ltd.)  
Aerojet  
Air Force Flight Test Center  
Air Rite Comfort Systems Inc.  
Air Specialist Inc.  
Airborn Flightware - Graphics  
Airbus  
Aircom  
Airline Hydraulics Corporation  
Akron Testing Laboratory and  
Welding School Ltd.  
Alaska Robotics Education  
Association  
Albany International  
Algonquin College  
Allegro Microsystem, Inc.  
Alliance Sales Company

Alltech  
Alstom Power Inc.  
Alto Precision  
Aluminum Supply Co.  
Ameren Corporation  
American Elements  
American Institute of Aeronautics  
and Astronautics  
American Electric Power  
American Nuclear Society,  
Robotics and Remote Systems  
Division  
American SHOWA  
American Woodmark  
AMF Automation Technologies  
Amplifier Research  
Analex Corporation  
Anchor Lamina Inc.  
Ann Arbor Machine  
Anne Arundel Tech Council  
Annin & Co.  
Anorad Corporation  
Ansul Inc.  
Antelope Valley Union High  
School District  
Anteon Corporation  
AnthroTronix, Inc.  
Apex Machines  
Apex Manufacturing  
Apotex Inc.  
Applied Industrial Technologies  
Applied Materials, Inc.  
Araco America Inc.  
ARC Specialties, Inc.  
Arco Construction Co.  
AREA (Alaska Robotics Education  
Association)  
AREVA  
Ariaf Foundation  
ARINC-ATES  
Arkansas Space Grant Consortium  
ARM  
Armstrong Atlantic State  
University  
Arquitectura Cinematografica  
ArvinMeritor  
ASECO Integrated Systems Ltd.  
ASME (American Society of  
Mechanical Engineers)  
ASME PD  
ASSET of Northeast Ohio  
Astro Tool & Machine Co., Inc.  
Atlantic Industrial Technologies  
Automated Production Machining  
Automatic Data Processing, Inc.  
AVL North America, Inc.  
AVX Corporation  
AW-NC  
B & K Corporation  
BAE Systems  
BAE Systems IEWS  
Bad Boys From Bay Shore Ltd.  
Bagels Your Way Cafe  
Baggett Metal  
Baker College  
Baldwin Foundation for Education  
Ball Corporation  
Bank of Nova Scotia

Bank of York  
Banner Engineering Corp.  
Barker Lumber  
Battelle  
Battelle Memorial Institute  
Bausch & Lomb  
BAX Global  
Baxter Healthcare-Tampa Bay  
BCIT Foundation  
bd Systems  
Beatty International  
Beckman-Coulter  
Becton Dickinson  
Beechwood ACE Hardware  
Beitzel Corporation  
Bell Canada  
Bellevue High School PTSA  
Bend Research Inc.  
Bent River Machine Inc.  
Bentley Manufacturing and  
Machine Shop  
Berkshire Power  
Best Buy  
Bihler of America  
Birdwell Machine  
BJ Services  
Black & Decker  
Black and Decker Outlet of  
Hagerstown  
Bloomington Robotics  
BMW Manufacturing Corporation  
Boeing Company  
Boeing Integrated Defense Systems  
Boeing-Rocketdyne  
Borden Chemical, Inc.  
Borg Indak Inc.  
BorgWarner  
Bosch Braking Systems Corporation  
BOSE  
Boston Scientific Corporation  
Boston University  
BP (British Petroleum)  
BP Americas  
Bradshaw Jeep, Inc.  
Brand Scaffold Builders  
Brenner-Fiedler Pneumatics  
Brevard Community College  
Bristol-Myers Squibb  
British Nuclear Fuel Limited  
Bronx Science Alumni Association  
Brookhaven National Laboratory  
Brooklyn Tech. Alumni  
Association  
Susan Diane Brown, Chartered  
Accountant  
Brown and Haley  
Brown University  
Bruce Power  
Buckingham County Ruritan Club  
Burgess Pigment Company  
Butter Ball Farms  
C & M Relocation  
C. A. Lindell True Value Hardware  
CACI, Inc.  
Cadence  
CADSoft  
California Applied Competitive  
Tech. (CACT)

California State University  
Northridge  
California State University, Fresno  
Caliper Life Services  
Cal-IT2  
Calvin College  
Campbell Soup Company  
Capital View Wealth Management,  
LLC  
CapTech Ventures  
Cardinal Pacific Escrow  
Carleton University Engineering &  
Design  
Carl's Custom Metalcraft  
Carlson Plumbing  
Carolina Fluid Components, LLC  
Carpenters District Council  
Carpenters Local 608  
Carter Burgess  
Casper College  
Castaing Family Foundation  
Castle and Cooke  
Cedar Rapids Institute of Electrical  
& Electronic Engineering  
Cee Kay Supply  
Celanese Acetate  
Celerity  
Central Vermont Rotaries  
Chahta Enterprise  
Champagne Metals L.L.C.  
Chaney Enterprises  
Chaparral High School Education  
Foundation  
Chapel Hills Mall  
Charles Dunn  
Chase Manufacturing  
Chebly Foods  
ChemTreat, Inc.  
Cherry Electrical Products, Inc.  
Chesapeake Protection Services  
Chevron, Richmond Refinery  
China Motors and Components  
Chipotle  
Chrysler Proving Grounds  
Chubb  
Ciber Inc.  
CIRI  
CIS  
Cisco Systems, Inc.  
Citi Bank  
Citicorp  
Citiwide CTC  
City College of New York  
CityGroup  
City of Hammond  
Cityware.com  
Clarkson University  
Cleveland Punch & Die Company  
Cleveland State University,  
Industrial Technology Institute  
Clyde Bergemann, Inc.  
CNC Software  
Cobb Technologies  
Coca-Cola Bottling Company  
Codman, A Johnson & Johnson  
Company  
Coffey Machining Services  
Cognos International

*FIRST thanks all of its supporters and makes every effort to ensure complete and accurate listings. If we've made an error, please accept our sincere apology, and please help us correct it by letting us know at 1-800-871-8326.*

FIRST ANNUAL REPORT



Coherent DEOS  
 Colby-Sawyer College  
 Collbran Job Corps Center  
 College of Staten Island  
 College of Staten Island Discovery  
 Institute  
 Columbia University  
 Columbus State Community  
 College  
 COM DEV  
 Comau Pico  
 Communications Research Centre  
 CompuCraft  
 Computer Assistance  
 Computer Dynamics  
 Concord USA, Inc.  
 Connecticut Light and Power  
 Company  
 ConocoPhillips  
 Consolidated Edison, Inc.  
 Consolidated Caster  
 Constellation Energy Group  
 Continental Plastics Corporation  
 Contra Costa College  
 ConvaTec  
 Convergence Education  
 Foundation  
 Converse Industries  
 Cook  
 Cookshack  
 Cooley Group  
 Cooper Union  
 copiergiant.com  
 Copper Bend Pharmacy  
 Cordis Corporation  
 Cornell University  
 Corporate Finance Associates  
 Worldwide  
 Corry Coatings  
 Corry Contract, Inc.  
 Corry Manufacturing Co.  
 Corry Micronics Inc.  
 Corry Rubber Corp.  
 Cosworth Racing, Inc.  
 Cox & Company  
 CPCUG  
 Credit Suisse First Boston  
 CRH Transportation  
 Crotty Chevrolet-Oldsmobile Inc.  
 Crowder Machine & Tool  
 CTDI  
 Cubitek, Inc.  
 Custom Finishers  
 Cuyahoga Community College  
 CVrobotics  
 Cyclone Aviation  
 D & A International  
 D & D Millwork  
 D&E Machining Inc.  
 Daihen, Inc.  
 DaimlerChrysler Corporation  
 DaimlerChrysler Kokomo  
 Transmission Plant  
 Dallas Optical Systems, Inc.  
 Dana Automotive Systems Group  
 Dana Corporation  
 Daniel Webster College  
 DATA Inc

David's United Church of Christ  
 Day Tool and Manufacturing, Inc.  
 DDBA-Saf-T-Cab-LifeStyle  
 De Anza High School PTSA  
 DeBolt Machine & Fabrication  
 Decoma  
 Decoma SVE  
 Delaware Machinery and Tool  
 Company, Inc.  
 Delphi Automotive  
 Delphi Corporation  
 Delphi Thermal & Interior  
 Systems  
 Delta Tau Data Systems  
 Demuth  
 Denver University  
 DePuy  
 DePuy Spine  
 Derek Blakely Group  
 (ScotiaMcLeod)  
 Design Innovation, Inc.  
 Designs for Living  
 Detail Technologies  
 Deutsch Dagan, Ltd.  
 DeVincenzi Metal Products Inc.  
 Diamond Wheel & Fabricating  
 Inc.  
 Diggitt, Inc.  
 Diversified Educational Systems  
 Diversified Manufacturing, Inc.  
 Diversified Wire and Cable  
 Dodson & Associates Inc.  
 Domingo Vara Chevrolet  
 Dominion Millstone Power  
 Station CT  
 Dominion Virginia Power  
 Dorchester County Government  
 Dow Chemical Company  
 DP Product, Inc.  
 Dragon Heat - a 21st Century  
 Program  
 Drexel University  
 DRN Machine  
 Druai Consulting  
 Druai Education Services  
 DTE Energy  
 Duke Energy  
 Duncan  
 Dundee Precious Metal  
 DuPont  
 DuPont Liquid Packaging Systems  
 DuPont Spruance  
 Durakon Industries  
 Dusevoir Metal Products, Inc.  
 Dynalectric  
 Dyneon 3M  
 E.I. DuPont de Nemours &  
 Company, Inc., Spruance Plant  
 E. K. Purdy Ltd.  
 Earthman's Education Services  
 Inc.  
 Eason Scholarship  
 East Coast Appraisal  
 East End Insurance Services  
 Eastman Chemical Company  
 Eastman Kodak Company  
 Eaton Corporation  
 ebm-papst Industries, Inc.

Ed Bozarth Chevrolet  
 EDACom  
 EDC-Southwest CA  
 EDF  
 EG & G Kelly Distribution  
 Center  
 Elbit Systems Ltd.  
 Electrical Motor Company  
 Electrarak  
 Elisra  
 EllisDon Construction  
 EMC  
 Emerson Motor Technology  
 Center  
 EMS Technologies  
 ENIAC  
 Envirobods Ltd.  
 Epic Systems, Inc.  
 Equifirst Mortgage  
 Eric Plastics  
 ESAB Welding & Cutting  
 ESYS Corporation  
 Ethicon, LLC  
 Evans Leasing  
 Evans Precision Machining, Inc.  
 EvilRobotics.net  
 Exatron  
 Exide Technologies  
 Explus, Inc.  
 excitec  
 Extended School Day Programs  
 ExxonMobil  
 FADAL Engineering  
 Fairchild Semiconductor  
 Falstrom Company  
 FANUC Robotics  
 Fastenal  
 Faurecia  
 FCI-Burndy  
 F.E.A.R. Foundation  
 Sharon Ferrier  
 Ferris State University  
 Festo Corporation  
 FESTO Pneumatic  
 Filtrona Fibertec  
 First Piedmont Corporation  
 First Service Realty Int'l  
 First State Robotics, Inc.  
 Flashpoint Machine  
 Flexicell, Inc.  
 Floorlayers Local 1310  
 Fluor Daniel  
 FMC  
 FMC Technologies  
 Fogdall RV  
 Fold-A-Goal  
 Ford Motor Company  
 Formosa Plastics Corp.  
 Forms Plus Inc.  
 Foxboro Company  
 Fox Valley Technical College  
 FRALO Industries Inc.  
 Fred Needel Inc.  
 Garrtech Ltd.  
 Gates Rubber Company  
 Gateway Technical College  
 GE Drives & Controls, Inc.  
 GE Elfun



*FIRST Sponsor:*

**Johnson & Johnson**

*As a Founding Sponsor, Johnson & Johnson embraced a leadership role early in the development of FIRST and has never looked back. In a decade of support, the J&J family of companies has consistently been at the forefront of growing FIRST. The company's increasing commitment includes support as title sponsor of the FRC New Jersey Regional, as direct sponsor of 17 teams, as a provider of employee mentors and volunteers, and as a key contributor to the FIRST Annual Fund. J&J has also been an active and effective recruiter of additional high schools, teams, and sponsors to help bring the opportunity of a FIRST experience to more schools and students.*



S P O N S O R S

FIRST thanks all of its supporters and makes every effort to ensure complete and accurate listings. If we've made an error, please accept our sincere apology, and please help us correct it by letting us know at 1-800-871-8326.

FIRST ANNUAL REPORT

GE Fanuc  
 GE Foundation College Bound Program  
 GE Healthcare  
 GE Industrial Systems  
 GE PolymerShapes  
 GE Power Systems  
 GE Transportation  
 General Bearing Service Inc.  
 General Dynamics Canada  
 General Dynamics Network Systems  
 General Electric (GE)  
 General Electric Canada, Inc.  
 General Electric Transportation  
 General Electric Transportation Systems  
 General Motors - Allison Transmission  
 General Motors - Grand Rapids Metal Center  
 General Motors Assembly Plant - Arlington  
 General Motors CCRW  
 General Motors Corporation  
 General Motors Desert Proving Ground  
 General Motors Finance Staff  
 General Motors Flint Truck Assembly  
 General Motors Foundation  
 General Motors General Assembly Engineering  
 General Motors Manufacturing  
 General Motors of Canada Engineering  
 General Motors of Canada Ltd.  
 General Motors Powertrain Ypsilanti  
 General Motors Romulus Powertrain  
 General Motors Sales and Service  
 General Motors Tech Center CRW  
 General Motors Wentzville Assembly Center  
 Gensler  
 Gentex Corporation  
 Geocon  
 Georgia Tech  
 Gerald Oppenheimer Family Foundation  
 Gill Industries  
 Gillette Co.  
 Givaudan  
 GlaxoSmithKline  
 Gleason Works  
 Glenleven Chrysler  
 GMNA Engineering Structural Development Laboratories  
 Go Bots  
 GoFastRobots  
 Golden Nugget  
 Goodrich Corporation  
 Yvette and Larry Gralla  
 Grand Rapids Scale  
 Grand Valley State University  
 Grandview Heights High School Alumni Association

Greenville County Schools  
 Greenville Technical College  
 Gruas Salas  
 Grundfos Pumps  
 GS Machine Shop  
 GSMA  
 Gue Sol Services  
 Gulfstream Aerospace  
 Gumbo  
 Guthrie Financial Services  
 Gwinnett County Board of Education  
 Gwinnett County Public Schools  
 H & R Machining  
 Haas Automation, Inc.  
 Halliburton  
 Hamilton Sundstrand  
 Harbec Plastic  
 Harlem YMCA  
 Harley-Davidson of York  
 Harleysville National Bank  
 Harper Hardware  
 Harris Corporation  
 Harris Corporation RF Communications  
 Hartford Steam Boiler  
 Hart's Hardware  
 Hawaii Directorate of Public Works  
 Hawaii Electric Light Company Inc.  
 Hawaiian Electric Company  
 Haworth  
 Hayes-Lemmerz  
 Heat Transfer Systems, Inc.  
 Bruce J. Heim Foundation  
 Heinz Endowments  
 Hella Electronics Corporation  
 Hella Lighting Corporation  
 Hendrix College  
 Henkel Surface Technologies  
 Hennessy Family Foundation  
 Margarita and John Hennessy Family Foundation  
 Henrico Education Foundation  
 Henry Ford Museum  
 Hepburn Engineering  
 Hercules, Inc.  
 Herman Miller Foundation  
 Hewlett-Packard  
 Higgs Technical Consulting  
 Hillcrest Motors  
 Hinckley Research Corporation  
 Hoffman Design Works  
 Hofstra University, Technology Education Dept.  
 Holiday Resorts  
 Holland & Knight, LLP  
 Home Depot  
 Honda of America Manufacturing  
 Honda R&D  
 Honeywell Space and Defense  
 Honeywell, Inc.  
 Hooker Furniture Corporation  
 Hope College  
 Horizon Sheet Metal Ltd.  
 Hoselton Corporation  
 HostRocket.com

Houston Robotics  
 HR Textron  
 HS Die and Engineering  
 Hughes Aero Structures  
 Hughes Network System  
 Humber River Regional Hospital  
 Huntington County 4H Robotics  
 Huntsman  
 Hydraquip  
 Hydro-Cut  
 Hypnoticblaze.com  
 IBEW Local 98  
 IBM  
 Idaho State University  
 IDEO  
 IDEXX Laboratories  
 IEEE  
 IGA  
 IGUS  
 iiCS  
 IISNet Networks  
 Imerys  
 Immunicon  
 Impact On Education  
 Imperial College  
 IMS Metals. INC.  
 INA Automotive  
 INA USA Corporation  
 Indalex  
 Independence Community Bank  
 Indiana Space Grant Consortium  
 Industrial Light and Magic  
 Infineon of Richmond  
 Infineon Technologies - Richmond  
 Infineum USA  
 InfoAdvantage, LLC  
 ING  
 The Ink Spot  
 Innovation Plus, Inc.  
 Innovative Machines  
 Instituto Tecnológico De Nuevo Laredo, MX  
 Instrument Society of America  
 Integrity Associates  
 Intel Corporation  
 Intelitek, Inc.  
 International Paper Corp.  
 Intersil  
 Intier Automotive  
 Intralox, Inc.  
 Intralox LLC  
 Iomega  
 Iowa Fluid &Power  
 Iscar  
 Israel Aircraft Industries  
 Issaquah Schools Foundation  
 ITT Industries Space Systems Division  
 ITT Technical Institute  
 ITW Anchor  
 ITW Drawform  
 ITW Highland  
 Ivy Tech State College  
 Ivy Tech State College, Bloomington  
 Ivy Tech State College, Region 5  
 J D Properties  
 J P Fabrications &Repair LLC

J&F Machine  
 J.M. Huber  
 Jack Bays, Inc.  
 Jackson Medical Mall Foundation  
 Jackson State University - School of Engineering  
 Jacobs Engineering  
 Jagtiani & Guttag  
 JAGZ, Inc.  
 Jake's Handyman Service  
 JE Jacobs  
 JEA  
 JH Kelly  
 Jim Hanna Sportswear  
 Jim Minkey Remax Today  
 John Deere  
 John Deere Waterloo Operations  
 John Emery Geotechnical Engineering Ltd. Lindsay-Emery Scholarship  
 John Henry Foster Co.  
 Johnson & Johnson  
 Johnson & Johnson Brazil  
 Johnson & Johnson Consumer and Personal Products Worldwide  
 Johnson & Johnson PRD  
 Johnson Controls  
 Jomico Metal Fabricators  
 JPI Worldwide  
 JR Automation Technologies  
 JSP International  
 Judicial Document Solutions  
 K and M Electronics  
 Kansas Space Grant Consortium  
 Kaz Inc.  
 Kelly Aviation Center  
 Ken-Tronics  
 Kettering University  
 KeySpan Energy  
 KG Projections, Inc.  
 Kikkoman Foods Inc.  
 Kimberly-Clark  
 Kinna Family  
 Kitchell Contractors  
 Kleiner Perkins Caufield & Byers  
 Klingbeil Capital Management  
 KML Technology Inc.  
 Knoch Manufacturing Ltd.  
 Koller-Craft Plastic Products  
 Konica-Minolta  
 KSU Industries  
 K-T Corporation  
 Kuka Development Labs  
 L-3 Communications  
 LA County Regional Occupational Program  
 LaBelle Commercial Industrial Electrical Contractors  
 Laboratory Robotics Interest Group (LRIG)  
 Labsphere, Inc.  
 Laker Energy Products Ltd.  
 Lamar Bruni Vergara Trust  
 Lampin Corp.  
 Laron Incorporated  
 Larsen & Shaw Ltd.  
 Laughlin Racing



Lawrence Technological University  
 La-Z-Boy  
 LBJ-LASA Robotics Assoc.  
 Lear Corporation  
 Lear Romec-Crane Aerospace  
 Legg Mason Funds  
 The LEGO Group  
 Lewis Marine  
 Lewis Pumps  
 Liebert  
 LINEARContours Inc.  
 Linn-Mar Foundation  
 Livingston Tool & Mfg  
 Loblaw Companies Ltd.  
 Local 3, I.B.E.W.  
 Lockheed Martin Aeronautics Company  
 Lockheed Martin Corporation  
 Lockheed Martin Integrated Systems  
 Lockheed Martin Missiles and Fire Control  
 Lockheed Martin Space Systems Company  
 Logan County Coal Vendors  
 Long Beach City College  
 Longwood University  
 Los Angeles Trade Technical College  
 Loucon Metal Ltd.  
 LSI Logic  
 Lutron Electronics Co. Inc.  
 m80.net  
 Mack Trucks, Inc.  
 MackTool & Engineering  
 Macro Industries  
 MAG  
 Magna-Donnelly  
 Magnecomp Corporation  
 Manhattan College  
 Mansfield Electric  
 Manufacturers Round Table  
 Marcus & Millichap - Los Angeles  
 Marine Dynamics  
 Marinette Marine Corp.  
 Marotta Scientific Controls, Inc.  
 Marshall Brain's How Stuff Works  
 Mascoma Savings Bank  
 Mass Bay Engineering  
 Matrix Machining  
 Matt Sweeney Special Effects  
 MBNA Foundation  
 McGraw-Hill Companies  
 MCI  
 Thomas E. & Paula Gabriele McInerney  
 McInerney Foundation  
 McMullen Foundation  
 McNeil Consumer & Specialty Pharmaceuticals  
 McNeil Consumer Health  
 MCSD Foundation  
 MD Robotics  
 MEA Consulting Engineers  
 Mead-Johnson Nutritionals  
 Mechanics Bank  
 Mechatronic  
 Mechtron

Mecklenburg Electric Cooperative  
 Medex Medical  
 Medtronic-MiniMed  
 MEI  
 Melfred Borzall, Inc.  
 Mentor Graphics Corporation  
 Mercedes-Benz USA  
 Merck  
 Mercury Management  
 Meritor Suspension  
 Merrick & Company  
 Metal Essence, Inc.  
 Metal Flow Corp.  
 Metal Research Inc.  
 Metaldyne  
 Metaldyne Sintered Components  
 Metalmite Corporation  
 Metapurple  
 Ron Meyer  
 Miami University  
 Michelin  
 Michigan State University  
 Microchip Technology, Inc.  
 Microsoft Canada Co.  
 Microsoft Corporation  
 Microsoft Research  
 Midway Machine Technologies  
 Mikon  
 Miller Bearings and Motion Systems  
 Miller Environmental Group  
 Milwaukee School of Engineering  
 Mingo County Schools  
 Miniature Precision Components, Inc.  
 Mitretek  
 Mitsubishi Electric Research Lab  
 Modern Industries  
 Monarch Instruments  
 Monarch Plastics  
 Montague Industrial Inc  
 Montana State University  
 Montgomery County Community College  
 Walter P. Moore  
 Mopar  
 Morehouse Engineering, Inc.  
 Motorola, Inc.  
 MPC Products Corporation  
 MP-PTO  
 MSC Software  
 Mullen Motors  
 Murphy's Lock & Key  
 Mustang Robotics - HRT  
 NACHI Robotics  
 NASA  
 NASA Ames Research Center  
 NASA Dryden Flight Research Center  
 NASA Glenn Research Center  
 NASA Goddard Space Flight Center  
 NASA Headquarters  
 NASA Jet Propulsion Laboratory  
 NASA Johnson Space Center  
 NASA Kennedy Space Center  
 NASA Langley Research Center

NASA Marshall Space Flight Center  
 NASA Space Grant-District of Columbia  
 NASA Space Grant-Idaho  
 NASA Space Grant-Louisiana  
 NASA Space Grant-Montana  
 NASA Stennis Space Center  
 NASA White Sands Test Facility  
 National Academy of Sciences  
 National Institute of Aerospace  
 National Institute of Standards and Technology  
 National Institutes of Health, CIT  
 National Instruments  
 National Life  
 National Science Industries  
 National Society of Black Engineers (NSBE)  
 National Starch and Chemical Company  
 NaturalPhone.com  
 Nav air  
 NAVSEA Det Pacific  
 NAVSEA Undersea Warfare Center  
 Neff Power  
 Neff Press  
 Nerac, Inc.  
 New Detroit Science Center  
 New Jersey Institute of Technology  
 New London Precision Instruments, Inc.  
 New Mexico State University  
 New World Associates Inc  
 New York City Transit  
 New York Container Terminal  
 New York Yankees  
 Newark Public Schools  
 NewMarket  
 Newstress International  
 Nick's Volvo Shop  
 Nissan of Fife  
 NITPR, Longwood University  
 Noble Systems Corporation  
 Nook Industries, Inc.  
 Nordson Corporation  
 Norgren Automotive  
 Nortel Networks  
 North Carolina A&T State University  
 North Coast Components  
 North East PA Tech Prep Consortium  
 North Royalton Educational Foundation  
 North Shore Neon  
 Northeastern University  
 Northern Arizona University  
 Northern Tier Tech Prep Consortium  
 Northrop Grumman Corporation  
 Northrop Grumman Space Technology  
 Northwest Industries  
 Northwest Technical College  
 Norvell Signs, Inc.  
 Norwich Glass



*FRC Chairman's Award:*

*Team 67, "The HOT Team" of Huron Valley Schools from Milford, MI won the prestigious FIRST Robotics Competition Championship Chairman's Award for 2005, which recognizes the team that best represents a model for other teams and best embodies the purpose and goals of FIRST.*



*FLL Director's Award:*

*Team 9, "Boys & Girls Clubs of America," won the 2005 FIRST LEGO League World Festival Directors Award. The Director's Award, FLL's highest honor, recognizes the team that best inspires and motivates others about the excitement and wonders of science and technology while demonstrating gracious professionalism.*



S P O N S O R S

FIRST thanks all of its supporters and makes every effort to ensure complete and accurate listings. If we've made an error, please accept our sincere apology, and please help us correct it by letting us know at 1-800-871-8326.

FIRST ANNUAL REPORT

Norwich University, David Crawford School of Engineering  
 NTMA  
 Nucor Steel  
 Numatics Engineering  
 NW Tri-County Intermediate Unit 5  
 Nypro Inc.  
 O P G Lambton Generating Station  
 Oceaneering International, Inc.  
 Oceaneering Space Systems  
 O'Connor MacLeod Hanna LLP  
 ODEC (Old Dominion Electric Cooperative)  
 Odee Company  
 ODL, Inc.  
 Ofoto, Inc.  
 Ohio State University  
 Oklahoma State University, College of Engineering  
 Old Santee Canal Park  
 On-Board Software  
 Ontario Power Generation  
 Ontario Power Generation, Pickering Nuclear  
 Oregon Space Grant Consortium  
 Orlando Science Center  
 OSUFIRST Robotics  
 Ottawa University - Engineering Faculty  
 Outback Manufacturing  
 OXKO Corporation  
 OZ Automation  
 Padaro Computer Specialist  
 Palo Alto College  
 Pal's Electric Shop  
 Pampalon Electric  
 Papa John's  
 Pape Dawson Engineers  
 Parents and Friends' Association  
 Parker Pneutronics  
 Patrick Henry Community College  
 Patriots Technology Training Center  
 Patuxent Partnership  
 PBandJ.org  
 PEC Solutions  
 PECO – Exelon  
 Pearson Companies  
 Pelco  
 Pella Entry Systems  
 Pepsi  
 Mr. and Mrs. Stephen Petty  
 Pfizer, Inc.  
 Phelps-Dodge  
 Phi Delta Kappa  
 Phillips International, Inc.- Cool Jewels  
 Photocircuits Corporation  
 Photonics, Inc.  
 PIAB USA, Inc.  
 Pillar Foundation  
 Pinnacle Engineering Co., Inc.  
 Pioneer Electronics  
 Pitney Bowes

Pittsburgh Institute of Aeronautics  
 Pittsburgh Public Schools  
 Plainfield, NJ PAL  
 Plascore Inc.  
 Plastic-Craft Products  
 Plasti-Coat, Inc.  
 Platt Tech Parent Faculty Organization  
 Plexus Technology Group  
 Plumbers Union Local 1  
 Polytechnic University  
 Port Authority of NY & NJ  
 Port of Egypt Marine  
 Port Plastics  
 Potomac DS  
 Powell Electrical Manufacturing  
 Power Workers Union  
 Prarie View  
 Pratt & Whitney  
 Precision Stone, Inc.  
 Precision Tool & Die  
 Preuss Foundation Inc.  
 Price Engineering  
 Procter & Gamble  
 Professional Engineers Ontario - North Toronto Chapter  
 Proportion Air Corporation  
 PSE&G  
 PSGA, division of Ortho-McNeil  
 Purdue University  
 Quest Technologies  
 Quinsigamond Community College  
 Qwest  
 R. Bratti Associates  
 R. L. Schmitt Co. Inc.  
 Ralph R. Willis Career & Technical Center  
 Ram-Art Signs  
 Ramdy Corporation  
 Randall Tool  
 Ranken Technical College  
 Raytheon Company  
 Raytheon Integrated Defense Systems  
 Real Time Tools Inc.  
 Remax of Grand Valley  
 Remy International, Inc.  
 Rensselaer Polytechnic Institute  
 Request Foods  
 Research In Motion  
 Resource Industries  
 Retlif Labs  
 Reuters  
 RF Micro Devices  
 RHT Enterprise  
 Richmond County Savings Foundation  
 Rimrock Corp  
 River City Robots  
 RJN Tool & Automation  
 RML Tool & Die Inc.  
 Robert Bosch Corporation  
 Roberts Tool Company  
 RoboDesign International Incorporated  
 Robotic Production Technologies

Rochester Institute of Technology  
 Rockwell Automation  
 Rockwell Collins  
 Rohm and Haas  
 Rolls-Royce Corporation  
 RoMan Manufacturing  
 Ronco Machine  
 ROP Contra Costa Co, CA  
 Rossbacher Insurance Service  
 Rotary Club of Aiken, SC  
 RPCarbone  
 RSR Corporation  
 Rugby Eagles Aerie #3834  
 Rugby Manufacturing  
 Rugby Welding & Machine  
 Ryan Companies US, Incorporated  
 Ryerson Tull Metals  
 SAIC  
 Salem Community College  
 Samuel Specialty Metals  
 San Bernardino Valley College  
 San Diego County Fair  
 San Francisco City College  
 San Jose State University  
 Sandersville Railroad  
 Sandersville Technical College  
 Santee Cooper  
 Savannah Technical College  
 SAVvy Engineering LLC  
 Schlumberger  
 School District of Philadelphia  
 ScotiaBank  
 SD State University, Engineering Department  
 Seagate Technology  
 Sealed Air Cryovac  
 Search Plus International  
 SeaTow Services International  
 Seattle Robotics Society  
 Sector Electronics  
 Seemann Composites  
 SENAI-RS  
 Seneca College  
 Shaffer's Welding Shop  
 SHAN Precision  
 Sheetmetal Workers Union Local 28  
 Shell  
 Shell Chemical  
 Shell International Exploration  
 W. A. Sherman  
 Shining Technology  
 Shiu Pong Group of Companies  
 Showbest Fixture Corp.  
 ShowBest, Inc.  
 SIAC  
 Siemens  
 Siemens Airfield Systems  
 Siemens Building Technologies  
 Siemens Dematics  
 Siemens Energy & Automation  
 Siemens Logistics & Assembly  
 Siemens Network Convergence LLC  
 Siemens VDO  
 Siemens VDO Automotive  
 Siemens VDO Automotive Electronics

Siemens Westinghouse  
 Siemon Co.  
 Sifto Canada Inc.  
 Sikorsky Aircraft  
 Six Flags Mexico  
 SME (Society of Manufacturing Engineers)  
 Smithtown Rotary Club  
 Society for Biomolecular Screening  
 Society of Hispanic Professional Engineers  
 Society of Mexican American Engineers & Scientists  
 Softec  
 Solid Edge  
 Sonny's Enterprises Inc.-The Car Wash Factory  
 Sony Corporation  
 South Carolina State Department of Education  
 Southern Alberta Institute of Technology  
 Southern California Gas Co.  
 Southern University  
 Southern West Virginia Community & Technical College  
 Southold IGA  
 Southold Kiwanis  
 Southwire  
 Space and Naval Warfare Systems Center, San Diego  
 Spartan Light Metal  
 SPAWAR  
 Specialty Minerals  
 Specialty's Our Name  
 SPECO Tile & Marble, Inc.  
 Spen-Tech Machine Engineering Corp.  
 SportsPrint  
 Springs Industries  
 Spur J Estates  
 SRI International  
 SRS Moxie  
 SRT  
 St. Mary's County Public Schools  
 Stafford County Industrial Development Authority  
 Staggerwing Museum  
 Standard Aero  
 Sta-Rite Inc.  
 State Council of Higher Education of Virginia  
 State Electric  
 Steamfitters Workers Union Local 638  
 Stevens-Henager College  
 Stoland Heat & Air  
 Stony Brook University  
 Storage Tek  
 Stress Engineering Services, Inc.  
 Stuyvesant High School Alumni Association  
 Stuyvesant High School Parents Association  
 SUMMA Technology, Inc.  
 Sun Hydraulics Corporation



Suncor  
 Sunrise Motor Coach, Inc.  
 Sutherland Family Limited Partnership  
 Symbol Technology  
 Synopsis  
 Tacklind Design Consulting  
 Tadiran Communications  
 TAEK FORCE  
 Takata Seatbelts  
 Tank Integrity Services, Inc.  
 Tankcraft Corporation  
 TAP Plastics of El Cerrito  
 Tas CNC  
 Taylor Products  
 TBDI  
 Technetronic Solutions, Inc.  
 Technical Assistance  
 Technion  
 Technology Advocates of San Antonio  
 Tecnociencias  
 Tejon Ranch  
 Tel Aviv Municipality  
 Telesat Canada  
 Telford Technologies  
 Tenaska  
 Teranet  
 TerraTech LLC  
 Test and Experimentation Services Company (TESCO)  
 Texas A&M Int. Univ. Dept of Math & Phy Sci  
 Texas Instruments  
 Textron Fastening Systems - Goodrich Operations  
 The Citadel  
 Thiele Kaolin Company  
 Timken Foundation  
 Title V  
 Tokico USA  
 Tommy Gate Company  
 Tonnard Mfg. Corp.  
 Torch Technologies  
 Toronto District School Board  
 Total Controls, Inc.  
 R. M. Towill  
 Town & Country Group  
 Toyota Technical Center  
 TPS Golf  
 TransformU  
 Trans-Matic  
 Tric Tool  
 Trident Technical College  
 Trinity Products  
 Trio Hardware  
 Tri-State Tours  
 Truebro, Inc.  
 TRW Automotive Electronics  
 Tsang Family  
 Tubular Techniques  
 Tuell Tool  
 Tulane University Engineering  
 Turbo Training  
 Turley  
 Turner Broadcasting  
 Turner Construction  
 Tweed Financial Services

TXI Texas Industries  
 Tyco Electronics  
 Tymetal  
 UAW ITT Technical Institute  
 UAW Local 686  
 ULC Robotics  
 Ultrasound Fluid Technologies  
 UNI College of Natural Sciences & Iowa Space Grant Consortium  
 UniLever  
 United American Video  
 United Auto Workers  
 United Defense Harry Crowe  
 United Defense LP  
 United Illuminating Company  
 United Space Alliance  
 United Water  
 Universidad del Valle de Mexico, Oficinas Generales  
 University of Arkansas, Little Rock  
 University of Bridgeport  
 University of California, San Diego  
 University of Denver  
 University of Detroit Mercy  
 University of Massachusetts, Lowell  
 University of Nevada, Las Vegas  
 University of Nevada, Reno  
 University of New Hampshire  
 University of New Orleans Engineering  
 University of North Dakota Engineering  
 University of Pennsylvania  
 University of Pittsburgh School of Engineering  
 University of Rhode Island  
 University of Southern California, Mesa  
 University of Texas, San Antonio, College of Engineering  
 University of Tulsa  
 University of Vermont, College of Engineering & Mathematics  
 University of Virginia Engineering  
 University of Washington  
 University of Waterloo  
 University of Wisconsin-Platteville  
 Unlimited Industries Inc.  
 Urschel Labs  
 US Army  
 US Army Engineer Research and Development Center (ERDC)  
 US Army Operational Test Command (OTC)  
 US Army Research Laboratory  
 US Army TARDEC  
 US Coast Guard  
 US Naval Academy  
 USF Holland Motor Freight  
 USKH (Unwin Scheben Korynta Huettl, Inc.)  
 UTC (United Technologies Corporation)  
 UTC Carrier

UTC Fuel Cells, LLC  
 UTC Hamilton Sundstrand  
 UTC Otis Elevator  
 UTC Otis Service Center  
 UTC Pratt & Whitney  
 UTC Sikorsky  
 UTC-UTRC  
 Valero Energy Corporation  
 Valley Apparel  
 Valtec Hydraulics Inc.  
 Vanguard ID Systems  
 Sperry Van Ness  
 Velocity Micro  
 Verizon Communications  
 Verizon Corporation  
 Verizon Distance Learning Center  
 Verizon Foundation  
 Verizon Wireless  
 Vermont Technical College  
 Virginia Business Education Partnership  
 Virginia Ground Water  
 Virginia Piedmont Technology Council  
 Virginia Tech  
 Visteon Automotive Systems  
 Visteon Corporation  
 Visteon - Glass Division  
 Volckening  
 Volvo Motor Graders  
 Wabash Valley College IECC  
 Waialua Federal Credit Union  
 Wallace Foundation  
 Walt Disney  
 Walt Disney Imagineering  
 Walt Disney World  
 Walt Disney World Design and Engineering  
 Washington One Stop Homecenter  
 Washington University in St. Louis  
 Washington Women's Foundation  
 Washtenaw Community College  
 WaterJet Cutting of Indiana  
 Watertown Rotary  
 Waukesha County Technical College  
 Wayne County Community College Eastern Campus  
 Weatherly Rotary Club  
 Weatherly, Inc.  
 Weber Electric  
 Weber's Technical Support  
 Wells Fargo Bank  
 Wells-Fargo  
 Westcast Industries  
 West Coast Netting Inc.  
 West Contra Costa Public Ed Fund  
 West End Machine & Welding, Inc.  
 West Virginia Department of Education  
 West Virginia University  
 Western Michigan University

Westhampton Glass and Metal  
 Westinghouse Savannah River Company Partnership  
 White Rodgers  
 Whitestone Capital, LLC  
 Wilbur Smith & Associates  
 Willert Home Products  
 William F. Goodling Advanced Skills Center-HIT  
 Windemere Group  
 Wittmann Inc.  
 Woodard & Curran  
 Woodbridge Technologies  
 Worcester Polytechnic Institute  
 WorkForce Investment Act  
 Xavier Computer Science  
 Xavier University of Louisiana  
 Xerox Corporation  
 Yale University  
 Yazaki North America, Inc.  
 Youth Technology Academy  
 Zanella Maquinas  
 Zeeland Lumber Company  
 Zephyr Engineering, Inc.  
 Zimco Inc.



## FINANCIALS

The following, abbreviated financial statements have been prepared on the accrual basis of accounting. Ernst and Young LLP (E &Y) audits our organization's financial statements annually; copies of *FIRST*'s audited financial statements and accompanying notes are available via the *FIRST* website at [www.usfirst.org](http://www.usfirst.org) under "About *FIRST*."

For the fiscal year ended June 30, 2005, there were no audit findings and *FIRST* received an unqualified opinion from its auditors. Additionally, the Office of Management and Budget's (OMB) Circular A-133 audit of the organization's Federal grant programs had no findings or questioned costs. *FIRST* continues to be qualified as a "low-risk" auditee.

### STATEMENTS OF FINANCIAL POSITION

	June 30	
	2005	2004
<i>Assets</i>		
Cash and equivalents	\$4,894,462	\$3,380,640
Investments	0	591,610
Accounts receivable (net of allowance for doubtful accounts of \$27,000 in 2005 and \$18,314 in 2004)	367,213	134,749
Federal grants receivable	655,095	1,699,100
Property, plant and equipment (PP&E):	6,562,731	6,010,967
Less accumulated depreciation	2,175,666	1,857,093
Net PP&E	4,387,065	4,153,874
Prepaid expenses and other assets	158,107	140,672
<b>Total assets</b>	<b>\$10,461,942</b>	<b>\$10,100,645</b>
<i>Liabilities and net assets</i>		
Accounts payable and accrued expenses	\$589,665	\$297,381
Deferred revenue and other credits	37,400	50,225
Refundable advances	2,560,800	2,701,000
<b>Total liabilities</b>	<b>3,187,865</b>	<b>3,048,606</b>
<i>Net assets:</i>		
Unrestricted	5,902,221	5,044,766
Temporarily restricted	1,371,856	2,007,273
	7,274,077	7,052,039
<b>Total liabilities and net assets</b>	<b>\$10,461,942</b>	<b>\$10,100,645</b>

### STATEMENTS OF ACTIVITIES

	Year ended June 30	
	2005	2004
<i>Revenues and other support:</i>		
Program registration fees	\$9,837,085	\$7,676,348
Contributions	5,282,335	5,226,492
Rental income	558,764	552,699
Event package revenue – Championship	0	133,293
Other income	415,889	304,725
Net assets released from restrictions	1,602,310	525,692
Special sponsorship	500,000	0
<b>Total revenues and other support</b>	<b>18,196,383</b>	<b>14,419,249</b>
<i>Operating expenses:</i>		
<i>FIRST</i> Robotics Competition	13,176,451	10,837,289
<i>FIRST</i> LEGO League	1,124,943	708,199
<i>FIRST</i> Vex Challenge	323,257	0
<i>FIRST</i> Place	47,264	68,308
Event package expenses – Championship	0	133,293
Management and general	2,411,966	1,989,827
Operation of building	316,375	320,755
Depreciation	318,570	261,239
<b>Total operating expenses</b>	<b>17,718,826</b>	<b>14,318,910</b>
Operating income	477,557	100,339
<i>Non-operating gains:</i>		
Refundable advances - amortization	140,200	140,200
Excess of revenues over expenses	617,757	240,539
Net assets released from restriction for purchase of property, plant and equipment	239,698	0
Increase in unrestricted net assets	857,455	240,539

## **BOARD OF DIRECTORS**

**John E. Abele, *FIRST* Chairman**  
Founder Chairman, Retired  
Boston Scientific Corporation

**James R. Utaski, *FIRST* Vice Chairman**  
Partner  
Whitestone Capital, LLC

**Robert M. Tuttle, *FIRST* Treasurer**  
Vice Chairman  
Segway LLC

**Paul A. Allaire, *FIRST* Chairman Emeritus**  
Former Chairman & CEO  
Xerox Corporation

**Dean L. Kamen, *FIRST* Founder**  
President  
DEKA Research & Development Corporation

**Douglas L. Becker**  
Chairman & CEO  
Laureate Education, Inc.

**Ursula M. Burns**  
Senior Vice President, President,  
Business Group Operations  
Xerox Corporation

**Dennis Carey**  
Executive Vice President,  
President & CEO, Integrated  
Electronic Systems  
Motorola, Inc.

**François J. Castaing**  
President  
Castaing & Associates

**John M. Hennessy**  
Chairman & CEO, Retired  
Credit Suisse First Boston

**Gordon J. Homer**  
President  
Gordon J. Homer Advisory  
Services

**Vernon R. Loucks, Jr.**  
Chairman  
The Aethena Group, LLC

**Susie Mathieu**  
Partner  
Spirit Hockey, LLC

**Raymond Price**  
Writer  
President, Retired  
The Economic Club of New  
York

**Dennis A. Roberson**  
Vice Provost, New Initiatives  
Illinois Institute of Technology

**Curt M. Selquist**  
Company Group Chairman  
Johnson & Johnson Health Care  
Systems, Inc.

**Thomas G. Stephens**  
Group Vice President  
GM Powertrain

**Ronald L. Zarrella**  
Chairman & CEO  
Bausch & Lomb Incorporated

*FIRST* gratefully acknowledges  
the contributions of those Board  
members whose service has con-  
cluded: J.T. Battenberg III and  
Paul Shay.

## **HONORARY DIRECTORS**

**Carol Bartz**  
Chairman & CEO  
Autodesk, Inc.

**L. John Doerr III**  
Partner  
Kleiner Perkins Caufield &  
Byers

**Kjeld Kirk Kristiansen**  
Owner & Deputy Chairman  
The LEGO Group

**John E. Pepper**  
Chairman of the Executive  
Committee of the Board  
The Procter & Gamble  
Company

**Gary L. Tooker**  
Chairman of the Board, Retired  
Motorola, Inc.

## **EXECUTIVE ADVISORY BOARD**

**Dean L. Kamen, Chairman**  
President  
DEKA Research &  
Development Corporation

**Dr. Woodie Flowers, Vice Chairman**  
Pappalardo Professor of  
Mechanical Engineering  
Massachusetts Institute of  
Technology

**Ray Almgren**  
Vice President of Product  
Marketing and Academic  
Relations  
National Instruments

**Nick Caporella**  
Chairman & CEO  
National Beverage Corp.

**Dr. John F. Cassidy, Jr.**  
Senior Vice President Science &  
Technology  
United Technologies  
Corporation

**Robert E. Couhig, Jr.**  
Principal  
Couhig Partners, LLP

**Peter Eio**  
President, Retired  
LEGO Systems, Inc.

**Deborah L. Grubbe, P. E.**  
Vice President – Group Safety  
BP Plc

**Greg Hale**  
Chief Safety Officer, VP, Safety,  
Accessibility & Advanced  
Technology  
Walt Disney Parks & Resorts

**Fred Hubacker**  
Executive Consultant  
Apollo Management, L.P.

**Kent H. Hughes**  
Director of Science, Technology,  
America and the Global Economy  
Woodrow Wilson International  
Center

**Dr. Shirley Ann Jackson**  
President  
Rensselaer Polytechnic Institute

**Trevor O. Jones**  
Chairman, CEO & Founder  
BIOMECH, Inc.

**Gordon Lankton**  
Chairman  
Nypro Inc.

**David Lavery**  
Program Executive for Solar  
System Exploration  
NASA

**Dr. William P. Murphy, Jr.**  
Founder  
Cordis Corporation

**Cecilia Neumann**  
Attorney

**Dr. Edward A. Parrish**  
President, Retired  
Worcester Polytechnic Institute

**Tom Pirelli**  
Executive Director  
The Arial Foundation

**Steve Sanghi**  
CEO  
Microchip Technology, Inc.

**Dr. Roland Schmitt**  
President Emeritus  
Rensselaer Polytechnic Institute

**Jeanne Shaheen**  
Former Governor of New  
Hampshire

**Cheryl L. Shavers, Ph.D.**  
Chairman & CEO  
Global Smarts, Inc.

**Josh S. Weston**  
Honorary Chairman  
Automatic Data Processing, Inc.

**Capt. Vincent Wilczynski, Ph.D.**  
U.S. Coast Guard Academy

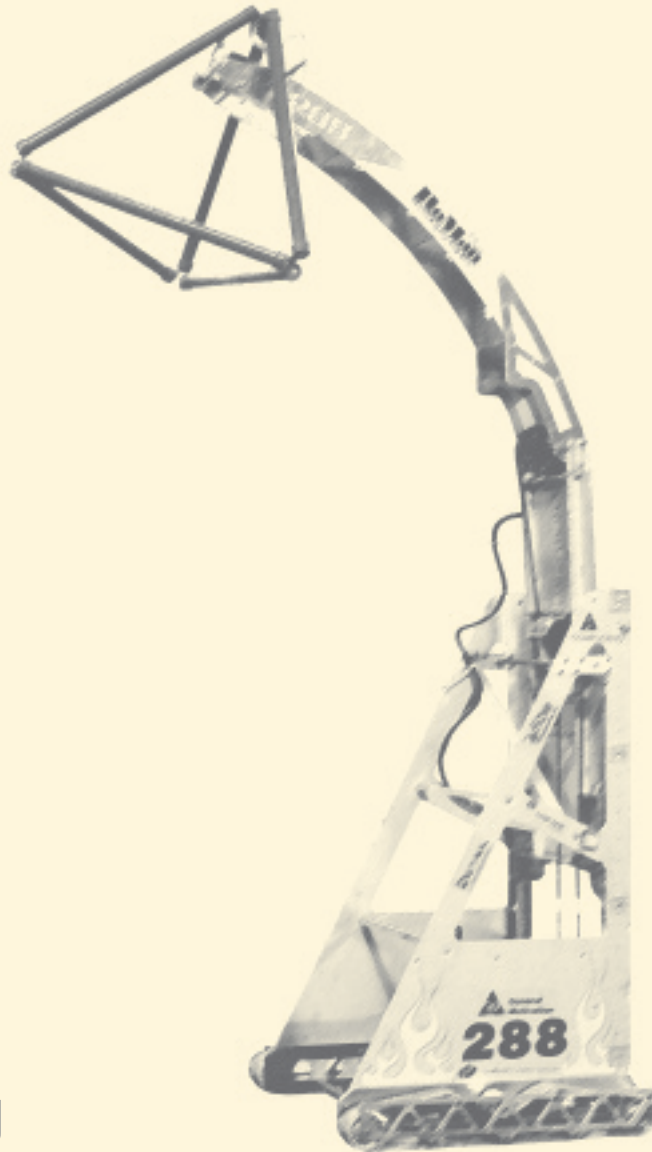
**William A. Wulf**  
President  
National Academy of  
Engineering

*Current as of September, 2005*





200 BEDFORD ST., MANCHESTER, NH 03101 T:603-666-3906



u s f i r s t . o r g