



LAWRENCE TECHNOLOGICAL UNIVERSITY ROBOFEST®

Little Robots, **Big Missions** A Competition Motivating Young Minds to Master the Machine

A Competition Motivating Young Minds to Master the Machine

An international competition for students grades 5 - 12, Robofest challenges participants to design, construct, and program robots to compete in missions or exhibition. Young people have fun while learning computer programming, engineering, math, and science. Started at LTU in 2000, Robofest has grown to over 230 teams and hundreds of students at venues across the US and other countries. (Top teams from Qualifying Sites will qualify for the World Robofest Championship in April.) Student teams, composed of two to seven members each, can compete in two ways:

Games: Students accomplish missions using two fully autonomous robots they have created and programmed to work cooperatively.

Exhibition: Students demonstrate the creative tasks they have created and programmed their autonomous robots to accomplish.

Age Divisions: Junior (students in 5–9 grades) and Senior (students in 9–12 grades)

VEX Pentathlon and **RoboSumo** will also be a part of 2007, visit our website for additional details.

Robofest's Unique Features:

Look Mom, No Hands: Students must fully program their robots to perform their missions without human assistance. No joysticks or remote controls are allowed.

Your Mission, If You Decide to Accept It: Is unknown. At least partly. Students are given small challenges that are kept secret until the beginning of each competition. Parts of the playing field are rearranged, and students must program their robots to work on the fly.

Students Rule: While adult mentorship is encouraged, students make all decisions and perform all robot construction & programming during the competition.

Registration is Affordable: Team registration is \$40 per team. Teams can be formed by any organization; school, home schools, clubs or civic group. Registration for coaches is now open. Team registration starts January '07, Official Game Rules announced December '06. Register at www.robofest.net. Contact Lori Birman, LBirman@LTU.edu

It's Flexible: Any type of robot kit, materials, actuators and sensors, and software or allowed. Robot kits can include IntelliBrain™-Bot, Basic Stamp®, Handy Board, Handy Cricket, NXT, Boe-Bot™, I-ROBO™, Lego® Mindstorms™, or VEX™. Materials can include bolts, nuts, paint, etc. Any programming language such as RCX code, RoboLab™, NQC, IC, C++, Visual Basic, PBasic, Forth, Python, Java™, and Logo.

ROBOFEST 2007 QUALIFYING SITES AS OF 11/8/06:

INSTITUTION NAME	LOCATION	DATE
Practice Warm Up Competition	LTU, Southfield, MI	March 10
Delta College	University Center, MI	March 17
G.S. Lakie Middle School	Lethbridge Alberta Canada	March 17
University of Detroit Jesuit High School and Academy	Detroit, MI	March 23
St. Clair County RESA	Marysville, MI	March 24
Woodland High School	Woodland, CA	March 24
Sky Valley Education Center	Monroe, WA	March 24
Hill Country Middle School	Austin, TX	March 31
Macomb Inter. School District	Clinton Township, MI	March 31
Hillside Middle School	Northville, MI	March 31
St. Matthew Lutheran Church	Houston, TX	April 14
Washtenaw Community College	Ann Arbor, MI	April 20
Canton Charter Academy	Canton, MI	April 21
Macomb Christian Schools	Warren, MI	April 21
Ann Arbor Trail Magnet School	Detroit, MI	April 21
Carman-Ainsworth High School	Flint, MI	April 22
Location TBD	Florida	April
Cranbrook, VEX Pentathlon	Bloomfield Hills, MI	TBD
Elpmis International	Singapore	Nov 21-25 '06
Hanyang University	Ansan, Korea	Oct./Dec. '06
The Video Submission Category is open to teams who do not have a Competition Site close	Register on-line, submit a Video to Robofest by April 13, 2007.	Submit by April 13, 2007
World Robofest Championship	Southfield, MI	April 27- 28

Top Teams Move on to compete in the World Robofest Championship, April 27 & 28, 2007 at LTU
Students on Top World Championship Teams will Receive \$2,000 LTU Renewable Annual Scholarships