



LAWRENCE TECHNOLOGICAL UNIVERSITY ROBOFEST®

2008

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

Robofest challenges teams of students to design, build, and program autonomous robots to compete in the following competition categories, focusing on learning STEM (Science, Engineering, Technology, and Math) in two age divisions (Junior: 5–9 grade, Senior: 9–12 grade).

Games

Students undertake robotic missions using two autonomous robots they have created and programmed to work cooperatively.

Exhibition

Students demonstrate the creative tasks they have designed and programmed their autonomous robots to accomplish.

Pentathlon

VEX™ team robots participate in five field events.

RoboSumo

One robot must push another robot out of the Sumo ring.

RoboFashion Show

Two robots show off their costumes as they walk and dance to music.

Mini Urban Challenge

Senior contestants implement a control algorithm with machine vision to allow a laptop-based robot to maneuver a course that simulates a city environment.

Bridge Battle (Associate Event)

VEX™ robots compete to earn the most points as they battle on a 12-by-12-foot field that features a bridge.

All registered participants receive medals and framed certificates. Winners at each site, including the World Robofest 2008 Championship, receive trophies.

Members of the top Senior Division teams at the World Robofest Championship in the Games, Exhibition, RoboSumo, and Mini Urban Challenge categories receive \$2,000 Lawrence Tech annual renewable scholarships, as well as prizes donated by Robofest 2008 sponsors.

Detailed information on registration, competitions offered at each site, and competition rules can be found at robofest.net. Admission to all Robofest competition sites is free. For more information, contact 248.204.3566 or robofest@ltu.edu.

QUALIFYING SITE	DATE	QUALIFYING SITE	DATE	QUALIFYING SITE	DATE
Asia-Pacific Robofest 2008 Ansan Campus, Hanyang University South Korea Organized and hosted by KASG and College of Engineering Hanyang University	January 25 9 a.m. – 5 p.m.	Burt Elementary School 20710 Pilgrim, Detroit, MI 48223	April 5 10:30 a.m. – 12:30 p.m.	Ralph Waldo Emerson 18240 Huntington, Detroit, MI 48219	April 12 10 a.m. – 2 p.m.
Detroit Edison Public School Academy 1903 Wilkins, Detroit, MI 48207	February 26 12:30 – 2:30 p.m.	Canton Charter Academy 49100 Ford Road, Canton, MI 48187	April 5 9 a.m. – 1 p.m.	R.I. Baker Middle School 2112 13 Street Coaldale, Alberta T1M 1L7 Canada	April 12 1 – 5 p.m.
Amway Grand Ambassador Ballroom 187 Monroe, NW, Grand Rapids, MI 49503 Hosted by MACUL	March 5 Noon – 5 p.m.	Hillside Middle School 775 North Center, Northville, MI 48167	April 5 9 a.m. – 1 p.m.	Sky Valley Education Center 17072 Tye Street SE, Suite 118 Monroe, WA 98272	April 12 9 a.m. – 1 p.m.
Neinas Elementary 6021 McMillan, Detroit, MI 48209	March 13 3 – 6 p.m.	Southfield Christian School 28650 Lahser, Southfield, MI 48034	April 5 9 a.m. – 1 p.m.	St. Dennis Catholic School 1415 N. Stephenson Highway Royal Oak, MI 48067	April 12 9 a.m. – 1 p.m.
Digital Arts and Sciences Academy 15900 Woodward, Highland Park, MI 48203	March 15 10 a.m. – Noon	St. Matthew Lutheran Church 21434 East Hardy, Houston, TX 77073 Hosted by Gary and Susan Frederick	April 5 8 a.m. – 1 p.m.	Video Submission Send to: Robofest Lawrence Technological University 21000 West Ten Mile Road Southfield, MI 48075, USA	April 12 Entry postmark
Kettering High School 6101 Van Dyke, Detroit, MI 48213	March 17 3 – 6 p.m.	Woodland High School 21 N. West Street, Woodland, CA 95695	April 5 1 – 5 p.m.	Washtenaw Community College Morris Lawrence Building 4800 East Huron River Drive Ann Arbor, MI 48106	April 18 5 – 9 p.m.
Woodland School 499 Range Road, Marysville, MI 48040 Hosted by St. Clair RESA	March 22 9 a.m. – 1 p.m.	Aurora High School 155 Wellington Street West Aurora, Ontario L0G 1V0 Canada	April 8 9 a.m. – 2 p.m.	Ann Arbor Trail Magnet Middle School 7635 Chatham, Detroit, MI 48239	April 19 1 – 5 p.m.
Detroit Community High School 12675 Burt Road, Detroit, MI 48223	March 29 12:30 – 2:30 p.m.	Detroit Merit Academy 1091 Alter Road, Detroit, MI 48215	April 9 4 – 7 p.m.	Mini Urban Challenge Lawrence Technological University Don Ridler Field House 21000 West Ten Mile Road Southfield, MI 48075	April 25 5 – 8 p.m., Set up and practice
Leas Cliff Hall Folkestone Kent CT20 2DZ United Kingdom Hosted by Brockhill Park College	April 2 10 a.m. – 7 p.m.	Ernest J. Dossin Elementary 16650 Glendale, Detroit, MI 48227	April 10 4 – 6:30 p.m.	April 26 9 a.m. – 5 p.m., Finals	April 26 9 a.m. – 5 p.m., Finals
YMCA Service Learning Academy 21605 West Seven Mile, Detroit, MI 48219	April 2 4:30 – 6:30 p.m.	Murphy Elementary-Middle School 23901 Fenkell, Detroit, MI 48223	April 10 11 a.m. – 1 p.m.	April 25 5 – 8 p.m., Set up and practice	April 25 5 – 8 p.m., Set up and practice
Mae C. Jemison Academy 16400 Tireman, Detroit, MI 48228	April 3 9:30 – 11:30 a.m.	Carman-Ainsworth Middle School 1409 W. Maple Ave., Flint, MI 48507	April 12 9 a.m. – 1 p.m.	April 26 9 a.m. – 5 p.m., Finals	May 24 10 a.m. – 3 p.m.
William D. Ford Career-Technical Center 36455 Marquette, Westland, MI 48185	April 3 5 – 9 p.m.	Communities in Schools of Detroit, Inc. 5830 Field, Detroit, MI 48213	April 12 9 a.m. – 1 p.m.		
University of Detroit Jesuit High School and Academy 8400 S. Cambridge, Detroit, MI 48220	April 4 5 – 9 p.m.	Cypress Springs High School 7909 Fry Road, Cypress, TX 77433	April 12 9 a.m. – 1 p.m.		
		Hill Country Middle School 1300 Walsh Tarlton Road, Austin, TX 78746 Hosted by Austin Robotic Network	April 12 1 – 5 p.m.		
		Kensington Woods High School Located on the campus of Cleary University 3700 Cleary Drive, Howell, MI 48843	April 12 1 – 4 p.m.		
		Macomb Intermediate School District 44001 Garfield Road Clinton Township, MI 48038	April 12 9 a.m. – 1 p.m.		

Top teams from each U.S. and international competition qualify to compete at the
World Robofest 2008 Championship
 April 26, 2008, 8:30 a.m. – 5 p.m.
 Lawrence Technological University | Southfield, Michigan, U.S.A.

