INNOVATORS EDUCATIONAL FOUNDATION

About Us

The Innovators Educational Foundation (IEF) is a non-profit 501c3 organization that was formed to carry on the American Solar Challenge mission. IEF currently hosts two events: Formula Sun Grand Prix, a solar car track event, and the American Solar Challenge, the solar car road event.

A core group of dedicated volunteers, mostly former competitors, provide the engine for IEF. They know first-hand the value of a hands-on, multidisciplinary, innovative project to the education experience. In addition to experiential learning, these solar car events promote energy efficiency and raise public awareness of the capabilities of solar power.

Sponsor Us

We appreciate your interest in the sport of solar car raycing! Help continue to make these events possible through making product donations, contributing financially, or hosting a stage/checkpoint location. We would be happy to discuss opportunities with you or your company.

Contact Us

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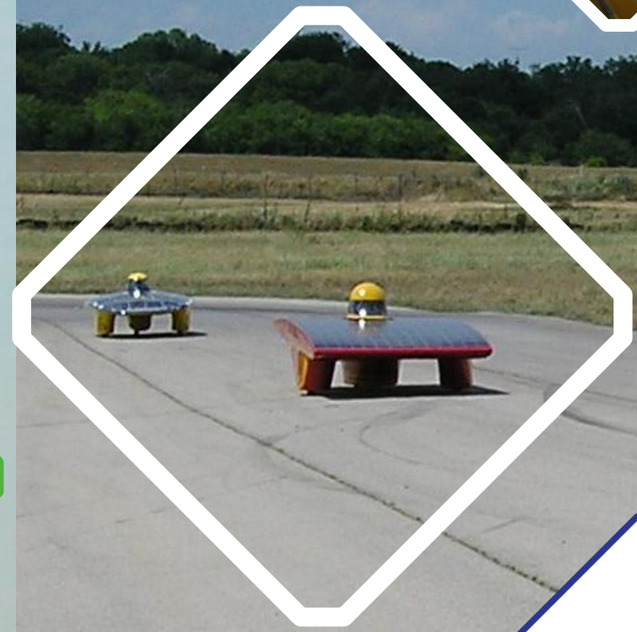


RAYCING MAY 5-7
@ THE BRICKYARD

INNOVATORS EDUCATIONAL FOUNDATION

2011

SCRUTINEERING | May 3-4

Each solar car completes a series of inspections including mechanical and electrical systems, body and sizing, and dynamic testing. These inspections check for any safety concerns and compliance with the regulations. Passing scrutineering is required to rayce.

RAYCING | May 5-7

Cars spend three days making laps around the road course track, making pit stops as needed to change tires, switch drivers, and perform other maintenance. All teams begin with a full battery back on the first day, which can only be charged with the solar array.

AWARDS| May 7

Following the end of the rayce, teams will enjoy a dinner and awards ceremony.

Sponsored by CATERPILLAR®

EMERGING TECH DAY | May 7

Celebrating the 100th anniversary of the Indianapolis 500, Emerging Tech Day continues the legacy of the Indianapolis Motor Speedway being a proving ground for new technology and innovation. The Formula Sun Grand Prix is proud to take part in this day, showcasing how far a car can go powered only by the sun.

QUICK LOOK AT THE TEAMS & CARS

Solar car teams typically spend two years designing, building, and testing their solar powered car. Key considerations include aerodynamics, energy efficiency, and reliability. As with any racing sport, it is a team effort: driver skill, pit crew speed, and strategic decision making all play a key role in completing the most laps on the track. In addition to producing the car, teams act as small businesses, attracting sponsors, participating in public outreach, and managing their project plan. It is truly a "brainsport" powered by the sun!

University of Michigan | Quantum #2

Weight: 320 lbs
Solar Cells: N/A
Batteries: Li-Ion 4.8 kWh
Chassis: Carbon Fiber
Motor: CSIRO

University of Kentucky | Gato del Sol IV #3

Weight: 590 lbs
Solar Cells: GaAs 1500 W
Batteries: Li-Polymer
Chassis: Al Space Frame
Motor: Brushless DC

Illinois State University | Mercury III #5

Weight: 624 lbs
Solar Cells: China Sunergy 1440 W
Batteries: NiMH 4.32 kWh
Chassis: Chromoly Steel
Motor: Powertec Chain

Iowa State University | Anthelion #9

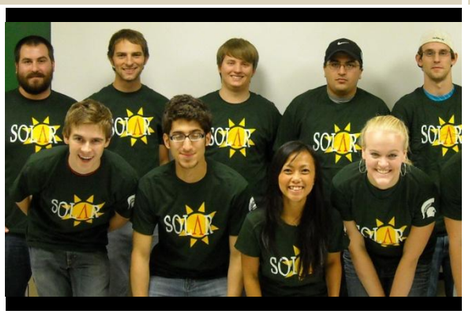
Weight: 479 lbs
Solar Cells: SunPower A-300 1400 W
Batteries: Li-Ion 4.5 kWh
Chassis: Al Space Frame
Motor: NGM-SCMISO

Northwestern University | Nusolar sc5 #11

Weight: 625 lbs
Solar Cells: SunPower A-300 1200 W
Batteries: Li-Ion 4 kWh
Chassis: Al Space Frame
Motor: NGM SCM150

Michigan State University | Brasidius.5 #13

Weight: 650 lbs
Solar Cells: BP-Iberia
Batteries: PB Acid
Chassis: Chromoly Steel
Motor: NGM SCM150



Western Michigan Univ. | Sunseeker 10 #20

Weight: 235 kg
Solar Cells: SunPower 1250 W
Batteries: Li-Polymer 4.5 kWh
Chassis: Monocoque
Motor: CSIRO

University of Minnesota | Centaurus II #35

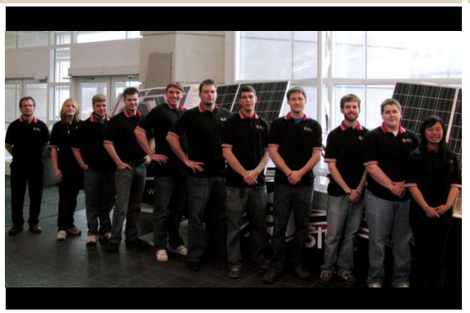
Weight: 389 lbs
Solar Cells: China Sunergy 1100 W
Batteries: Li-Polymer 4.8 kWh
Chassis: Nomex/Fiberglass
Motor: NGM SC-M150

Missouri S&T | Solar Miner VII #42

Weight: 380 lbs
Solar Cells: Emcore ATG GaAs 1600 W
Batteries: Li-Polymer 4.617 kWh
Chassis: Chromoly Steel
Motor: NuGen SCM

SIUE | Cougar Cruiser 2 #57

Weight: 800 lbs
Solar Cells: KC130TM-Kyocera 780 W
Batteries: PB Acid 35 Ah
Chassis: Al Space Frame
Motor: NGM 150



University of New Mexico| Lobo del Sol #505

Weight: 700 lbs
Solar Cells: SCHOTT Solar 805 W
Batteries: PB Acid 33 Ah
Chassis: Aluminum
Motor: Vectrix