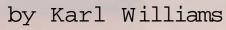
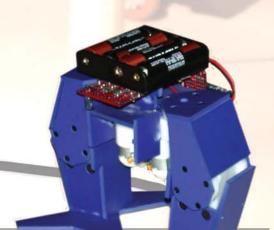
The Eastern Canadian Robot GAMES







The Eastern Canadian Robot Games (www.robotgames.ca) were held on November 15 and 16, 2003, at the Ontario Science Centre in Toronto Canada. There were 10 different categories of competition, with 150 robots created by close to 200 competitors who came to do battle from areas all over North America. There was a wide range of competitions from four different types of robot sumo, where the robots competed to push each other out of a ring, to firefighting, where robots searched through a maze to extinguish small candles. The purpose of the robot games is to for people have fun working with robotics, which is a great bridge to all areas of science and technology. It gives them a chance to get experience with electronics, programming, design and mechanical construction by building real working robots that accomplish goals.

It was an exciting event with two new categories added to the already challenging areas of competition from last year. There was a new Line Following event and a new Masters Mini-Sumo category. Also new this year was a cash prize of \$250.00 cdn for first place in the Masters Mini-Sumo and Fire Fighting (WellHead Blowout) competitions. The Sumo events were held in a large auditorium packed with many enthusiastic spectators watching the action on three sumo rings. There were also some interesting robots among the entries in the Art and Innovation category with a pneumatic walking robot chair, a tank style robot that fires tennis balls on command, and a miniature solar powered robot that lives independently in a sealed aquarium.

If you are feeling brave enough to subject your robot creations to competition at next years Eastern
Canadian Robot Games, I have given a brief description of the categories.



Robot Sumos face off for battle in the main arena.

Fire Fighter

The objective is to build a computer controlled find a "burning oil derrick"(lit candle) and then extinguish it in the shortest time subject to a few extinguishing function in an oilfield or home.

Mini Sumo

Within a 10cm square column, build a robot sumo wrestler weighing under 500 grams to compete against other Mini-Sumo Wrestlers in a 77cm



A pneumatic walking robot is demonstrated to amazed onlookers.

Remote Control Sumo

This contest pits your creation against another robot in es combine to create the ultimate battle. The challenge is to create a robot whose sole purpose is to push, throw, flip, drag, or otherwise move your opponent out of a fivefoot diameter circular ring within three minutes. This competition is the most popular of the events, both to watch and to participate in.

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and goal seeking. Its' physical dimensions must fit within a 150mm(6") cube. Your only power source is a solarcell with a maximum area of 2442 mm2 (3.79 in2). The robot competitor will have to face off against other devices in a welllit competition area, having to avoid obstacles and race to pool until the end of the 5-minute round.



Things are really heating up in the fire fighting maze.

Solaroller

(1.25 square inches), build a self-starting 150mm (6") light (or 1,000 watts Halogen lighting). Competitors will That robot that is the fastest to finish, or travel the furthest in 3 minutes wins.

Art and Innovation

Build a robot along aesthetically pleasing lines that does something deliberately by itself. The robot does category.

Walker Triathalon

speed/progress/ability challenges over various rough ty points win.

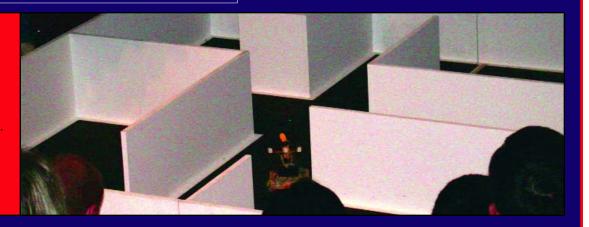
Line Following

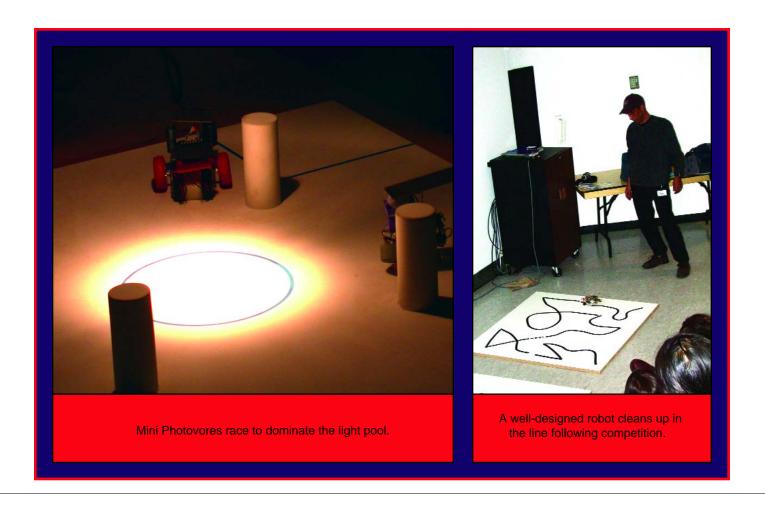
The Line Follow is a classic robot competition. The robots can use microprocessor control or simple digital showcase basic sensor design and robot control systems in the form of small autonomous robots that must ed based upon the distance covered and the speed of the overall robot.



An innovative combat robot fires tennis balls at spectators.

A fire fighting robot searches for a burning oil derrick (candle).





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