**Please detach and return at your earliest convenience.**
**Registration deadline is May 4, 2012.**
*Your cooperation with our deadline is appreciated, so we will be sure to have judges available for all classifications registered.*

I am interested in entering student work in the
**IOWA INDUSTRIAL TECHNOLOGY EXPOSITION**
to be held Friday, May 11, 2012, at
Southeast Polk Senior High School
Pleasant Hill, Iowa.

Please send me_____ student application form(s) for the EXPO and an official set of rules.

Please send me_____ application form(s) for the "Ultimate Mileage Vehicle Contest"

and a set of UMV rules.

Please send me _____application form(s) for the Rotary Scholarships.

INSTRUCTOR _____

SCHOOL_____

ADDRESS _____

CITY, ZIP _____

PHONE_____

For more information, contact Phil Cronin at 515-967-6631, ext. 2101
Industrial Technology Dept.
Southeast Polk High School
7945 NE University Ave.
Pleasant Hill, IA 50327

Phone: 515-967-6631 x2101; Fax: 515-957-3489; Email: phillip.cronin@southeastpolk.org

**Register online at www.southeastpolk.org/tech-expo.**
**The scholarship application may also be downloaded here,**
**but must be returned with required letters of recommendation.**

# Attention Students!

## Apply for the Rotary Scholarships

The Rotary Club of East Polk County will award scholarships ranging from $500 to $1,000 to the outstanding individual entries in the Expo by students who have made proper applications. The winning students may attend any four-year college or university, a community college or a trade school to receive the scholarships. The student's entry must be the product of an advanced level course.

For a scholarship application:

Call Phil Cronin at
515-967-6631 x2101
**OR**
Download an online application at
www.southeastpolk.org/tech-expo

Remember to return the application with the required letters of recommendation.

# The *State Tournament* of Industrial Technology

# May 11, 2012

Sponsored and hosted by

Southeast Polk
COMMUNITY SCHOOL DISTRICT

and co-sponsored by

PRAIRIE MEADOWS

IOWA DEPARTMENT OF EDUCATION

# Project Classifications

## 1. Graphic Communication

A. Machine Drafting
B. Architectural Drafting
C. CAD-Machine Drafting
D. CAD-Architectural Drafting
E. Photography
F. Silk Screen Printing
G. Commercial Printing
H. Illustration Drawings
I. 3-D Computer Design
J. Computer Graphics
K. Other Graphics
L. Computer Animations

## 2. Energy and Power

A. Electricity
B. Electronics
C. Hydraulics, Pneumatics, and Alternate Energy

## 3. Transportation

A. Auto/Truck Repair or Restoration
B. Ultimate MPG Vehicle Contest
C. Metric 500 Dragster Races

## 4. Material Processing

A. Metalworking
B. Woodworking
C. Plastics
D. CAM-Computer-Aided Machining of Various Materials

## 5. Problem Solving, Inventions & Experiments

This classification has no boundaries. It is designed to recognize achievement in areas such as material testing, environmental research, lasers, and the like.

## 6. Robotics

Entries in this division may be robots constructed in class or examples of programming done on a commercial, programmable robot. A functioning robot may be exhibited, or a videotape of a programmed robot in action plus written documentation may be entered.

## 7. Group

This category is for entries where **more than one student** participated in the planning and production or construction. Mass production and entrepreneurship entries are typical examples.

# Entry Divisions

| | |
|---|---|
| DIVISION I | Middle School Entries, Grades 6-8 |
| DIVISION II | 9th Grade Entries |
| DIVISION III | Beginning Courses, Grades 10-12 |
| DIVISION IV | Advanced Courses, Grades 10-12 |
| DIVISION V | Vocational Classes, Grades 10-12 |

# Exposition Eligibility

All entries must be the work of the student submitting the exhibit. The instructor's effort must be limited to teaching, guidance, and supervision. The instructor must certify on the entry blank that the rules set forth herein have been complied with.

To qualify for an award, each entry must be accompanied by appropriate written documentation. Exhibits that will fit through a double door having the dimensions of 70" wide x 80" tall will be displayed in the field house. Other projects will be displayed in an assigned area out of doors.

# Exposition Schedule

| | |
|---|---|
| 7-8 a.m. | Ultimate MPG Vehicle Check-In |
| 7-9:30 a.m. | Project Check-In, SEP Gym |
| 9 a.m.-noon | Ultimate MPG Vehicle Testing |
| 9 a.m.-noon | Metric 500 Dragster Races |
| 10 a.m.-noon | Judging of Projects |
| Noon | Removal of Ultimate MPG Vehicles from test area |
| Noon-1:30 p.m. | Lunch on your own or on campus<br>Public viewing of projects |
| 1:30-3 p.m. | Awards Assembly |
| 3-4 p.m. | Project check out (No Early Check-Outs) |

# Exposition Rules

Project entries must be in place in the assigned space before 9:30 a.m. on Friday, May 11, 2012. Doors will be open to receive entries on May 11 at 7 a.m. It is advisable to plan to check in an entry as soon as possible to avoid last-minute confusion and to assure that each entry receives proper attention.

**NO ENTRIES SHALL BE REMOVED BEFORE 3 P.M.,** BUT ALL ENTRIES MUST BE REMOVED NOT LATER THAN 4 P.M. ON FRIDAY, MAY 11.

# Program Philosophy

Organizers of the Iowa Industrial Technology Exposition at Southeast Polk High School believe that successful completion of technology courses will enable students to be more technically skilled, work cooperatively, develop a positive attitude toward learning and work and apply knowledge obtained in all areas of the curriculum to the world of work.

# Awards

Awards for the outstanding entries in each division include trophies, medallions, ribbons and merchandise prizes donated by area businesses.

Special awards will be made to the instructors of students who have the outstanding entry in each division.

# Ultimate MPG Vehicle Contest

The **Ultimate MPG Vehicle Contest** is a problem-solving project designed to challenge students in industrial technology classes to design and build a vehicle which will obtain the maximum miles per gallon possible. Vehicles will be run over a specified course. The winner will be the vehicle traveling the longest distance on a given amount of fuel.