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## 16 Hamilton County students to go to regional science fair



Written by

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Apr 1, 2011 |

Sixteen students from Hamilton County are among 240 regional science fair winners who will compete for awards and scholarships at a regional science Fair Saturday.

The 23rd annual Hoosier Science and Engineering Fair will be Saturday at the Bloomington campus of Ivy Tech Community College of Indiana. (Public viewing of exhibits will begin at noon at Ivy Tech, 200 Daniels Way, rooms 100A and 100c. The Top Young Scientist and other awards will be presented at 4 p.m. at BioConvergence, 4320 W. Zenith Drive.)

Top high school winners from the state will present their exhibits at the Intel International Science and Engineering Fair in May in Los Angeles.

These students will compete:

**Noblesville High School:** Clara Garner, 10th grade, "Wind-E Power 2," examines

how the number of blades on a propeller affect the amount of generated energy; Jennifer Reagin, Grade 11, "Measuring the Polyphenol Contents in Camellia sinensis," examines green tea vs. black tea for health benefits.

**White River Elementary, Noblesville:**

London Griesey, Grade 4, "Warning: You Are What You Drink," analyzes how soda decays the teeth.

**Fishers Junior High School:** Adam Baker,

Grade 7, "Magnetic Linear Accelerator," tests how mass and number of magnets and ball bearings affect accelerator's performance.

**Hamilton Southeastern Junior High School:** Gary Schorr and Andrew Krull,

Grade 8, "What Wood You Use," finds the best type of wood to hit a baseball the greatest distance; Aditya Desai and Aditya Jariwala, Grade 7, "The Case of the Disappearing Acid: The Loss of Vitamin C Through Multiple Methods of Cooking."

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**Eman Elementary School in Fishers:** Nora Abdelwahab and Dana Alhaffer, Grade 9, "Germicides vs. E. Coli"; Omar Mahmood, Grade 4, "Which way is the wind blowing," analyzes electrical energy from wind energy; Mohammad Rashid, Grade 9, "Building on Sand: Effect of Bedrock on the Bearing Capacity of Sand"; Hajer Ouzzani, Grade 4, "Conductors or Not?" analyzes electrical conductivity in water; Dana Alhaffer, Grade 9, "Germicides vs. E. Coli," tests whether disinfectants work better if they are diluted and whether the bacteria will become resistant to it in later generations.

**Home school in Carmel:** Vinayak Gupta, Grade 12, "Effects of Serine Palmitoyl Transferase Inhibition," examines effect of these agents on the proliferation of cells; Kamna Gupta, Grade 7, "DNA Extraction from Octoploids and Diploids," finds the DNA content in three different ripeness of strawberries.

For more information, visit [www.sefi.org/hsef](http://www.sefi.org/hsef).

**Call Star reporter Betsy Reason at (317) 444-6049.**

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## Fifth-grader goes to state science fair

10:08 PM, Apr. 6, 2011|

Centerville-Abington Elementary School's Ben Nevels competed Saturday at the 23rd Annual Hoosier Science and Engineering Fair in Bloomington. Nevels was the only student from Wayne County to compete.

To advance, the fifth-grader finished first in the junior division -- grades 5-8 -- on Feb. 16 at the East Central Indiana Regional Science Fair at Ball State University. He competed in the Behavioral and Social Science category.

He did not place at state.

Nevels' project was a taste test of butter versus margarine. He tested all the fifth-grade students and some teachers at his school to find out which they preferred.

### New Creations earns 'loftier' accreditation

New Creations Christian School recently met the requirements established by the AdvancED Accreditation Commission and Board of Trustees.

The school also remains accredited by the International Christian Accrediting Association of Tulsa, Okla., because of a partnership between the two accrediting bodies.

"We have continually met or exceeded the requirements upheld by the ICAA accrediting standards," Bishop Tim Cummings said in a statement. "While this accreditation is sufficient for us to issue diplomas recognized by higher education institutions, we now have met a more lofty standard."

The AdvancED Accreditation Process is a comprehensive program of evaluation and external review, which is supported by research-based standards, and dedicated to helping schools, districts and education providers to continuously improve. It serves more than 27,000 public and private schools and districts across the United States and in 69 countries that educate more than 15 million students.

For more information, visit [www.advanced.org](http://www.advanced.org).

### Northeastern, Seton students to participate in Indy 500 program

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Northeastern Elementary and St. Elizabeth Ann Seton Elementary will be participating in one of the Indianapolis 500 Education Program's 10 study trips at the Indianapolis Motor Speedway.

Northeastern's trip will be on April 14, and Seton Catholic's will be on April 19.

At each study trip, students will go through different stations that will teach them about driver safety, timing and scoring, careers in IndyCar, Indianapolis Motor Speedway history and more.

Nearly 24,000 students from 79 of Indiana's 92 counties will participate in the 2011 program.



Education Notebook  
Brian Zimmerman

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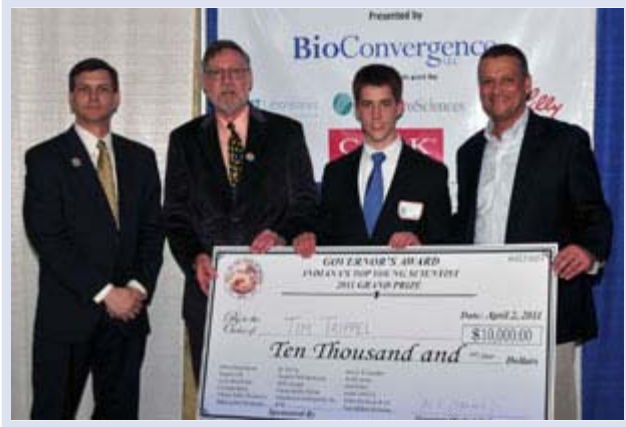
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Glen Cook, SEFI's executive director, and Dr. Robert Yost, Executive Director of Celebrate Science Indiana, stand with 2011 Top Young Scientist Tim Trippel of Mishawaka and Dr. Tony Bennett.

updated: 4/4/2011 10:31:11 AM

## High Schooler Named Top Young Scientist

*InsideIndianaBusiness.com Report*

A student from Marian High School in Mishawaka has been named Indiana's 2011 Top Young Scientist. Tim Trippel won the honor during the 23rd Annual Hoosier Science and Engineering Fair over the weekend in Bloomington.



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April 4, 2011



**News Release**

While Indiana's Butler Bulldogs prepared to compete in the Final Four of the NCAA basketball tournament, Superintendent of Public Instruction Dr. Tony Bennett on Saturday demonstrated his commitment to elevate Indiana's academic superstars to the level of our esteemed athletes. Bennett presented Indiana's 2011 Top Young Scientist with a \$10,000 cash award, believed to be the largest award of its kind nationwide.

Tim Trippel of Marian High School in Mishawaka, Indiana was named this year's Top Young Scientist at the 23rd Annual Hoosier Science and Engineering Fair held in Bloomington. Tim received a trophy and check for being judged the highest placing senior among the state's top science and engineering competitors. The cash award was sponsored by Allos Adventures, Angie's List, Scott Bleczinski, Dittoe Public Relations, Peter and Amy Emerson, Dr. Ed Fry, Gazelle Tech Ventures, GHX Europe, Indian Math Online, Interactive Intelligence, Inc., IPSP, Jesubi and Leadjen, Scott Jones, David Kerr, Math-360, LLC, Stifel, Nicolaus & Company as well as Two Million Minutes.

"Tim and students who competed today are the real heroes among their peers. They will be the future leaders and thinkers of our nation," Bennett said. "Just like his parents, teachers and community, I'm incredibly proud of Tim's work, and I know today's achievement is just one of many milestones in what is sure to be an outstanding college and professional career."

Indiana Governor Mitch Daniels established the award in 2009 as a part of his continued commitment to improve Indiana education and to highlight the importance of science, technology, engineering and mathematics (STEM). Nearly 22,000 students in grades 1-12 participated in a local science fair this academic year. More than 3,700 of those students participated in regional science fairs, and the top 100 students in grades 9-12 earned a chance to compete at the Hoosier Science and Engineering Fair hosted by the Science Education Foundation of Indiana (SEFI). All projects are judged by a panel of Indiana scientists on the basis of creative ability, scientific thought, engineering goals, skill and clarity.

Tim's project was titled Development of a Low-Cost Electroporator for High School and Developing World Applications. Tim has also been selected as to participate in the Intel International Science and Engineering Fair in Los Angeles, California in May. Tim's teacher is Ken Andrzejewski. Tim plans to attend Purdue University.

In addition to work with SEFI, Dr. Bennett and the Indiana Department of Education (IDOE) have made STEM education a priority by partnering with organizations (the I-STEM Resource Network, Lilly, and BioCrossroads) for the Indiana Science Initiative, which promotes and supports inquiry-based science instruction in classrooms across Indiana.

About SEFI: The Science Education Foundation of Indiana is a not-for-profit organization whose purpose is to encourage and assist young people to become scientists and engineers and to practice their professions in

Indiana. Since 1965, SEFI has provided the support, funding, and manpower to make possible the HSEF and to send more than 1,000 students to the International Science fair. On October 8, 2011, SEFI will partner with IDOE and the I-STEM Resource Network for the first Celebrate Science Indiana (CSI)—a day to highlight the importance and joy of science in the lives of all Hoosiers. For more information on SEFI or CSI, visit

[www.sefi.org](http://www.sefi.org).

Source: Indiana Department of Education



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## Weeks of work on project pay off

### Marian senior named state's Top Young Scientist.

By **KATHERINE SANDERSON**

*South Bend Tribune Staff Writer*

April 5, 2011

Tim Trippel, a senior at Marian High School, was named this year's Top Young Scientist at the 23rd Annual Hoosier Science and Engineering Fair on Saturday in Bloomington.

He received a check for \$10,000. He plans on attending Purdue University to study electrical engineering.

His project was titled "Development of a Low-Cost Electroporator for High School and Developing World Applications."

"There are three main technologies in molecular biology," he explained by phone Monday. "I focused on transformation."

Equipment used in the process to genetically modify organisms generally costs between \$5,000 and \$10,000, he said, and he worked on equipment that would make the technology available "in cost-sensitive environments and to a wider range of people."

That involved buying parts from Radio Shack and using AA batteries to provide the volts necessary to penetrate the cells to allow the changes in the DNA structure.

"He worked constantly," said his mother, Christine, who recalled how he was always in the basement working on the project and how she had to try not to trip over it and keep the cat away.

She said he had gone to the state competition hoping to be named one of the students to participate in the Intel International Science and Engineering Fair in Los Angeles in May,

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an honor he also achieved.

"This is another notch higher than amazing," she said.

His project was something he worked on all year for the advanced research class at Marian, he said. His teacher at Marian is Ken Andrzejewski and he worked with Matthew Champion at the University of Notre Dame.

His father, Terry, who was at the science fair, said Tim's project was recognized for incorporating economics, engineering and science.

"For \$25 you get the same results," he said.

Superintendent of Public Instruction Tony Bennett announced the award. He said, "Just like his parents, teachers and community, I'm incredibly proud of Tim's work, and I know today's achievement is just one of many milestones in what is sure to be an outstanding college and professional career, " according to a news release.

Gov. Mitch Daniels established the award in 2009 to improve Indiana education and to highlight the importance of science, technology, engineering and mathematics (STEM), according to a news release.

Nearly 22,000 students in grades one through 12 participated in a local science fair this academic year. More than 3,700 of those students participated in regional science fairs, and the top 100 students in grades nine through 12 earned a chance to compete at the Hoosier Science and Engineering Fair.

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