

2011 Hoosier Science and Engineering Fair Grand Awards Results



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.

For full story see <http://www.doe.in.gov/news/2011/04-April/2011TYS.html>

Intel International Science and Engineering Fair trip awards.

The following individuals have been invited to represent the state of Indiana as part of the delegation to the international event to be held in Los Angeles, California in early May. We wish them all the best as they compete among the top student-scientists in the world. For more information about the Intel ISEF, visit www.societyforscience.org/isef

Brandon Benninger	Boone Grove High School	Hebron
Gabriel Stephens	East Noble High School	Kendallville
Lexie Buchs	DeKalb High School	Waterloo
Kathryn Merklng	East Noble High School	Avilla
Francis Chen	Penn High School	Granger
Eric Fein	Adams High School	South Bend

Thomas Foulkes	Terre Haute North Vigo High School	Terre Haute
Harrison Gaebler	Bloomington High School North	Bloomington
Chris Green	DeKalb High School	Corunna
Jacob Henry	Delta High School	Muncie
Tony Huang	Francis Joseph Reitz High School	Evansville
Nathan Kondamuri	Munster High School	Dyer
Karl Koch	Marian High School	South Bend
Timothy Trippel	Marian High School	Mishawaka
Kalina Misiolek	Adams High School	Granger
Stephanie Pitman	Home Schooled	Frankfort
Feodor Orlov	West Lafayette Jr/Sr High School	West Lafayette
Anirudh Prabhu	West Lafayette Jr/Sr High School	West Lafayette
Rebecca Chen	Park Tudor	Carmel
Ryan Chung	Terre Haute South Vigo High School	Terre Haute
Sachin Jain	Homestead High School	Fort Wayne

Grade Level Placement Awards

4th Grade

3 rd place	Madalyn Day from Waterloo, IN DeKalb Elementary Project Title: <u><i>Eco Friendly Pantry Paste</i></u>
2 nd place	Erin Greising from Elkhart, IN ETHOS Academy Project Title: <u><i>Chemo Brain: Handicap or Excuse?</i></u>
1 st place	Annie Ostojic from Munster, IN Frank H Hammond Elem School Project Title: <u><i>How to slow down decomposition of food</i></u>

5th Grade

3 rd place	Lucrezia Phifer from Granger, IN Saint Pius X School Project Title: <u><i>Who are better eyewitnesses to unexpected events, children or adults?</i></u>
2 nd place	Jessica Robinson from Liberty, IN Liberty Elementary School Project Title: <u><i>Will Beetle Dee and Beetle Dum Be Eyeless Tribolium?</i></u>
1 st place	Eric Spaargaren from Granger, IN Prairie Vista Project Title: <u><i>Does the Temperature of a Magnet Affect its Strength?</i></u>

6th Grade

- 3rd place **Michael Whitis** from Floyds Knobs, IN Our Lady Of Perpetual School *Project Title: Table Top Trebuchet*
- 2nd place **Rachel Chan** from Greenwood, IN Center Grove Middle Schl Central *Project Title: Addition of Vinegar to Water Enhances Plant Cutting Root Development*
- 1st place **Arjun Ramani** from West Lafayette, IN Happy Hollow Elementary *Project Title: Jailed Air: The Effect of Entrapped Air on a Material's Insulating Capacity*

7th Grade

- 3rd place **Jeffrey Strycker** from Walkerton, IN Harold C. Urey Middle School *Project Title: Green Energy: Wind Generated Power*
- 2nd place **Adam Baker** from Fishers, IN Fishers Junior High School *Project Title: Magnetic Linear Accelerator*
- 1st place **Carley Berg** from Russiaville, IN Redeemer Lutheran School *Project Title: Fiber Optics: Is Plastic or Glass Better?*

8th Grade

- 3rd place **Maria Tiwari** from Bloomington, IN Lighthouse Christian Academy *Project Title: Bio-Based Plastics*
- 2nd place **Anthea Weng** from Terre Haute Honey Creek Middle School *Project Title: Does ethnicity impact personal approachability?*
- 1st place **Kelsey Towers-Jones** from Lafayette, IN West Lafayette Jr/Sr High School *Project Title: Cyclical Patterns in Birth and Death Data 1785-2010*

9th Grade

- 3rd place **Kaylyn Risse** from St. John, IN Lake Central High School *Project Title: Can Autoinducers Inhibit Bacterial Growth in the Growth Phase?*
- 2nd place **Feodor Orlov** from West Lafayette, IN West Lafayette Jr/Sr High School *Project Title: The Effect of Knocking Out the Phenylalanine Ammonialyase (PAL) Gene in Petunia hybrida Flowers*
- 1st place **Ryan Chung** from Terre Haute, IN Terre Haute South Vigo High School *Project Title: Note to Self: A Transcriptional Study of Audio Files Using Fourier Transformation and New Applications*

10th Grade

- 3rd place **Brandon Wysong** from Kokomo, IN Northwestern Sr High School *Project Title: Kin Recognition in Plants*
- 2nd place **Nathan Kondamuri** from Dyer, IN Munster High School *Project Title: A Novel Biofuel Cell Based On Direct Electron Transfer-Type Bioelectrocatalysis Incorporating the Efficient System of Photophosphorylation*
- 1st place **Kalina Misiolek** from Granger, IN Adams High School *Project Title: The Effects of Different Mediators and Electrode Configurations on the Efficiency and Longevity of a Membrane-less, Enzymatic Biofuel Cell Operating Under Physiological Conditions*

11th Grade

- 3rd place **Tracy Scott** from South Bend, IN Marian High School *Project Title: The Effects of Recycled Aggregates in Replacement of Natural Aggregates in Concrete*
- 2nd place **Kathryn Merklng** from Avilla, IN East Noble High School *Project Title: Effect of Bisphenol A on Caenorhabditis elegans's Reproductive Capacity*

1st place **Anirudh Prabhu** from West Lafayette, IN West Lafayette Jr/Sr High School *Project Title: Lower Bounds for Odd Perfect Numbers*

12th Grade

3rd place **Francis Chen** from Granger, IN Penn High School *Project Title: Developing an Adaptive Disaster Evacuation Simulation*

2nd place **Chris Green** from Corunna, IN DeKalb High School *Project Title: Synthesis of Cellulosic Ethanol*

1st place **Sachin Jain** from Fort Wayne, IN Homestead Senior High School *Project Title: Generation and Characterization of Recombinant Human Estrogen Receptor-alpha*

For a full report of all award winners go to www.sefi.org/hsef/awards