

2008 BSSEF Awards

TOP HONORS	Place	Grade	Student	Project Title	School
GE Healthcare BEST OF SHOW	FIRST	11 th	Philip V. Streich	Maximizing Carbon Nanotubes' Thermodynamic Solubility : Further Steps To a Practical Supermaterial.	Home Schooled
	SECOND	12 th	Matthew Wage	On Lehmer-type questions for special classes of arithmetic functions	Appleton East High School
	TEAM	9 th	Robby Bamberger and Air Sprung	Optimizing Diversity in college Admissions with an analytical process	Nicolet High School
State of Wisconsin - GOVERNOR'S YOUNG SCIENTIST AWARD	FIRST	11 th	Laura Mark	A Study of the Potential of Quagaga Mussel (Dreissena Bugonsis) Filtration in the Removal of Aquatic Pollutants	Divine Savior Holy Angels High School
Marquette University - College of Engineering SCHOLARSHIP	FIRST	12 th	Matthew Wage	On Lehmer-type questions for special classes of arithmetic functions	Appleton East High School

CATEGORY WINNERS	Place	Grade	Student	Project Title	School
◆ Behavior/Social	FIRST	11 th	Patricia Wood	The Power of Information	University School
	SECOND	9 th	Robby Bamberger and Air Sprung	Optimizing Diversity in College Admissions with an analytical process	Nicolet High School
	THIRD	12 th	Penelope Kochanski	The Effect of Color on Short and Long Term Memory	Divine Savior Holy Angels High School
◆ Biology	FIRST	11 th	Dale Anthony Guarniere	Guarniere's fish	Crivitz High School
	SECOND	9 th	Stephanie Haulotte	Plant Growth Affecting Factors	Crivitz High School
	THIRD	11 th	Erin Kron	Cloning and Purification of Wolchbia LeuRS in an E. Coli Expression System	University School
◆ Molecular Biology/ Biotechnology	FIRST	9 th	Emily Gadzichowski	The Effects of a Dog on the Characteristics and Diversity of Bacteria in a Household	Nicolet High School
	SECOND	9 th	Kinsey Dunst	The Effect of the Concentration of an Antibiotic on the Growth of Bacteria	Nicolet High School
	THIRD	11 th	Ludovica DiVentura	The Effect of DNA Purification of the pGL0 Gene in E. Coli	Cochrane-Fountain City High School
◆ Bio/Chemistry	FIRST	11 th	Philip V. Streich	Maximizing Carbon Nanotubes' Thermodynamic Solubility : Further Steps To a Practical Supermaterial.	Home Schooled
	SECOND	11 th	Lee Sengyeon	Corrosion and Electrochemistry	University School
	THIRD	9 th	Michael Wheeler	Electrolysis	University School
◆ Environmental /Earth	FIRST	11 th	Laura Mark	A Study of the Potential of Quagaga Mussel (Dreissena	Divine Savior Holy Angels

Science				Bugonsis) Filtration in the Removal of Aquatic Pollutants	High School
	SECOND	9 th	Jonathan Fuqua	The Effects of Sodium, Magnesium and Zinc Chloride on the Population of Daphnia Magna	Nicolet High School
	THIRD	9 th	Andrew Hinkfuss	Which Water Works	Rufus King High School
◆ Engineering	FIRST	9 th	Alexis Wilkinson	Effective Illumination: Using Visible Light	Nicolet High School
	SECOND	9 th	Taylor Buraczewski	The Effect of a Spring-Loaded Recoil Device on the Recoil of a High-Powered Rifle	Nicolet High School
	THIRD	9 th	Noah Rowlett	A Solar Generator to Power a Laptop Computer	Nicolet high School
◆ Math/Computer	FIRST	12 th	Matthew Wage	On Lehmer-type questions for special classes of arithmetic functions	Appleton East high School
	SECOND	11 th	Malcolm Greaves	Facial Validation Software Through Quantitative Feature Analysis	University School
◆ Medicine/Health	FIRST	11 th	Kim Maciolek	The Cardica L-Port Distal Anastomtic Device: Mid-Term Evaluation with 64 slice IT Angiography	Divine Savior Holy Angels High School
	SECOND	11 th	Carolyn Branecky	Evaluating Tumor Angiogenesis in response to treatment	Divine Savior Holy Angels High School
	THIRD	9 th	Cristion Owers	Reducing Torque on the Knee using a Flexible Shoe Sole	Rufus King High School
◆ Physics/ Astronomy	FIRST	9 th	Tyler Haase	The Theory of Bowling	Rufus King High School
	SECOND	11 th	Michael Luckey	Surface tension, evaporation, intermolecular forces of four compounds	University School
	THIRD	9 th	Joe Margolies	The Effect of Bend on the Signal Loss of an Optical Fiber	Nicolet High School

SPECIALTY AWARDS	Place	Grade	Student	Project Title	
◆ WISEF Founder's Award	FIRST		Alexis Wilkinson	Effective Illumination: Using Visible Light	Nicolet High School
	SECOND		Kyle Tolleton	The Effect of Bedrock Depth and Land Use on the Nitrate level in Groundwater	Cochrane-Fountain City High School
◆ American Meteorological Society	FIRST		Steven Han and Ben Harvey	Are Sunflowers Allopathetic to Weeds?	Nicolet High School
	SECOND	9th	Jonathan Fuqua	The Effects of Sodium, Magnesium and Zinc Chloride on the Population of Daphnia Magna	Nicolet High School
◆ American Psychological Association (APA)	FIRST	11th	Patricia Wood	The Power of Information	University School
◆ U.S. Department of Health & Human Services U.S. Public Health Service	FIRST		Samuel Ecker	Heart Rate and Recovery	University School
◆ CH2M Hill Award for Best Environmental Engineering Project	FIRST		Lee Sengyeon	Corrosion and Electrochemistry	University School
	SECOND		Emily Schapira	The Viability of Green Cleaning: A Quantitative Assessment of Phytoremediation of Copper Effluent Using Lemna Minor	Nicolet High School
◆ Intel Excellence in Computer Science Award 2008	FIRST	11th	Malcolm Greaves	Facial Validation Software Through Quantitative Feature Analysis	University School
	SECOND		Joseph Kostreva	The Computer Performance Confusion	Lakeview High School
◆ Yale Science & Engineering Association, Inc.	FIRST		Dan Stuligross and Paul Westhoff	It's Not Rocket Science	Lakeview High School
	SECOND		Alexander Skebba	Analysis of Spinacea Oleracea Pigments	University School
◆ National Association of Corrosion Engineers – Wisconsin Chapter	FIRST		Lee Sengyeon	Corrosion and Electrochemistry	University School
	SECOND		Jacob Jensen	Effect of Shot Peening and Carbon Ion Implantation on Corrosion of Ar-Alloy in Seawater	Madison High School
◆ Society of Women Engineers	FIRST	9th	Alexis Wilkinson	Effective Illumination: Using Visible Light	Nicolet High School
	SECOND		Hannah LaDuke	Measuring Static electricity	Cochrane-Fountain City High School
◆ National Society of Professional Engineers NSPE	FIRST		Conner Farnum	Utilizing Air Pressure on a Controlled Pump to Pump and Transfer Automatic Fluids	Nicolet High School
◆ The Herbert Hoover Presidential Library Association	FIRST		Dan Stuligross and Paul Westhoff	It's Not Rocket Science	Lakeview High School
◆ Rockwell Automation	FIRST		Benjamin Rahming	Study of an Electromagnetic Coil	University School

◆ United States Army	FIRST		Conner Farnum	Utilizing Air Pressure on a Controlled Pump to Pump and Transfer Automatic Fluids	Nicolet High School
◆ United States Army	FIRST		Kyle Tolleston	The Effect of Bedrock Depth and Land Use on the Nitrate level in Groundwater	Cochrane-Fountain City High School
◆ United States Army	FIRST		Carolyn Branecky	Evaluating Tumor Angiogenesis in response to treatment	Divine Savior Holy Angels High School
◆ United States Army	FIRST		Jenni Angeli	What Are the Effects of Surface Soil Moisture on the Amount of Fungus Gnats?	Nicolet High School
◆ U.S. Department of Commerce NOAA	FIRST	11th	Laura Mark	A Study of the Potential of Quagga Mussel (Dreissena Bugensis) Filtration in the Removal of Aquatic Pollutants	Divine Savior Holy Angels High School
◆ RICOH Sustainable Development Award	FIRST	9th	Alexis Wilkinson	Effective Illumination: Using Visible Light	Nicolet High School
◆ ASM International Materials Foundation (Milwaukee Chapter)	FIRST		Jacob Jensen	Effect of Shot Peening and Carbon Ion Implantation on Corrosion of Ar-Alloy in Seawater	Madison High School
◆ United States Air Force	FIRST		Dan Stuligross and Paul Westhoff	It's Not Rocket Science	Lakeview High School
◆ MU Alpha Theta	FIRST	12th	Matthew Wage	On Lehmer-type questions for special classes of arithmetic functions	Appleton East High School
	SECOND	9th	Robby Bamberger and Air Sprung	Optimizing Diversity in college Admissions with an analytical process	Nicolet High School
◆ The International Society for Optical Engineering (SPIE)	FIRST	11th	Malcolm Greaves	Facial Validation Software Through Quantitative Feature Analysis	University School
◆ Society for In Vitro Biology	FIRST		Gretchen Mills	The Effects of Trimethiazole on the Density of Green Algae Cells	Nicolet High School
◆ U.S. Department of the Navy /Marine Corps	FIRST		Dan Stuligross and Paul Westhoff	It's Not Rocket Science	Lakeview High School
	SECOND	11 th	Michael Luckey	Surface tension, evaporation, intermolecular forces of four compounds	University School
	THIRD		Taylor Buraczewski	The Effect of a Spring-Loaded Recoil Device on a Recoil of a High-Powered Rifle	Nicolet High School
	FOURTH	9th	Alexis Wilkinson	Effective Illumination: Using Visible Light	Nicolet High School
◆ Association of Women Geoscientists (AWG)	FIRST		Emily Schapira	The Viability of Green Cleaning: A Quantitative Assessment of Phytoremediation of Copper Effluent Using Lemna Minor	Nicolet High School
◆ American Society for Quality (ASQ)	FIRST	11th	Patricia Wood	The Power of Information	University School
	SECOND		Emily Schapira	The Viability of Green Cleaning: A Quantitative Assessment of Phytoremediation of Copper Effluent Using Lemna Minor	Nicolet High School
◆ U.S. Metric Association	FIRST		Ishaan Guptasarma	Carbon Nanotubes: A New Application in Color Sensing	University School

	SECOND	11 th	Michael Luckey	Surface tension, evaporation, intermolecular forces of four compounds	University School
◆ Astronautics Corporation of America - Excellence in Engineering Award	FIRST		Anna Patel	Relationship between Frequency and Amplitude	University School
◆ Water Environmental Federation U.S. Stockholm Junior Water Prize	FIRST		Ariel Winter	Can Elodea be used as a bio-filter to reduce Carbon dioxide Emissions?	Nicolet High School
◆ American Nuclear Society	FIRST		Benjamin Rahming	Study of an Electromagnetic Coil	University School
◆ Blomquist Charitable Trust – Popular Science Magazine Subscription	FIRST	10	Matt Axelson	Caterial Resistance	Lakeview High School
	FIRST	9	Brendan Barker	The Effect of Different Weighting on the Lissajous Curve of a Harmonograph	Nicolet High School
	FIRST	9	Rose Bowe	Keeping Warm	Rufus King High School
	FIRST		Nathan Brandt	Soil Health: Organic vs Conventional	Cochrane-Fountain City High School
	FIRST	11	Toni Cattani	Liquid Eye-Drop Contact Lenses	Kettle Moraine High School
	FIRST	9	Evan Conley	The Effect of Temperature on the Parental Behavior of Amphipods	Nicolet High School
	FIRST	0	Samuel Ecker	Heart Rate and Recovery	University School
	FIRST	9	Monica Ellwood-Lowe	The Affect of Music on Teenager's Concentration	Rufus King High School
	FIRST	9	Conner Farnum	Utilizing Air Pressure on a Controlled Pump to Pump and Transfer Automatic Fluids	Nicolet High School
	FIRST	9	Ben Harvey	Are Sunflowers Allopathetic to Weeds?	Nicolet High School
	FIRST	0	Joseph Kostreva	The Computer Performance Confusion	Lakeview High School
	FIRST	9	Hannah, LaDuke	Measuring Static electricity	Cochrane-Fountain City High School
	FIRST	10	Anne Lukach	Will Sallcylic Acid Increase, Decrease or have no effect on clot lyses when paired with +PA	Divine Savior Holy Angels High School
	FIRST		Tanner Lyga	Accuracy of Eyewitness Testimony	Cochrane-Fountain City High School
	FIRST	9	Gretchen Mills	The Effects of Trimethiazole on the Density of Green Algae Cells	Nicolet High School
	FIRST	9	Julia Moglowsky	The Affect of Temperature on the Reaction Rate Between Catalyst and Hydrogen Peroxide.	Nicolet High School
FIRST	11	Zachary Nelson	Correlation between water and soil?	Crivitz High School	
FIRST	11	Anna Patel	Relationship between Frequency and Amplitude	University School	
FIRST				Divine Savior Holy Angels	

					High School
	FIRST	12	Sara Schaffer	Efficient Recipe for Producing Methane Gas	Crivitz High School
	FIRST	11	Emily Schapira	The Viability of Green Cleaning: A Quantitative Assessment of Phytoremediation of Copper Effluent Using Lemna Minor	Nicolet High School
	FIRST	12	Elijah Scriven	Lightning as an energy source	Crivitz High School
	FIRST	11	Dan Stuligross, Paul Westhoff	It's Not Rocket Science	Lakeview High School
	FIRST	9	Ariel Winter	Can Elodea be used as a bio-filter to reduce Carbon dioxide Emissions?	Nicolet High School
	FIRST	0	Jonathan Zimmer	How Fast Will Different Types of Bread Grow Mold	Lakeview High School

Exhibitors came from Kettle Moraine High School, Madison High School in Madison, Rufus King High School in Milwaukee, Lakeview High School in Kenosha, Cochrane-Fountain City High School, Onalaska High School, Crivitz High School, Divine Savior Holy Angels, University School in Milwaukee, Nicolet high School in Glendale, Appleton East High School in Appleton, Whitewater High School in Whitewater, and several are home-schooled.