



## 2017 Badger State Science and Engineering Fair Category and Award List

Awards will be divided between team members

Category Awards			
Category*	1 <sup>st</sup> Place	2 <sup>nd</sup> Place	3 <sup>rd</sup> Place
Behavioral /Social Science	Certificate/medallion	Certificate/medallion	Certificate/medallion
Biology	Certificate/medallion	Certificate/medallion	Certificate/medallion
Chemistry/Biochemistry	Certificate/medallion	Certificate/medallion	Certificate/medallion
Engineering	Certificate/medallion	Certificate/medallion	Certificate/medallion
Environmental Science	Certificate/medallion	Certificate/medallion	Certificate/medallion
Math/Computer Science	Certificate/medallion	Certificate/medallion	Certificate/medallion
Medicine/Health	Certificate/medallion	Certificate/medallion	Certificate/medallion
Physics	Certificate/medallion	Certificate/medallion	Certificate/medallion
*(categories may be changed at the discretion of the Fair Director)			

Best of Fair Awards				
Criteria	Eligibility	1 <sup>st</sup> Place	2 <sup>nd</sup> Place	3 <sup>rd</sup> Place
Best category project and presentation, thoroughness of study and knowledge of project process and application	Category place winner	Travel and lodging-paid trip to ISEF for 1 <sup>st</sup> place winner	Travel and lodging-paid trip to ISEF for 2 <sup>nd</sup> place winner	

Grand Awards				
Award	Eligibility	1 <sup>st</sup> Place	2 <sup>nd</sup> Place	3 <sup>rd</sup> Place
Marian University Scholarship (4 years)	Category Award Winner	\$30,000	\$24,000	\$24,000

Specialty Awards					
Award	Criteria	Eligibility	1 <sup>st</sup> Place	2 <sup>nd</sup> Place	3 <sup>rd</sup> Place
Alpha Chi Sigma	Top Chemistry Project		Cash Award and Certificate		
American Meteorological Society	Achievement for creative scientific endeavor in atmospheric and related oceanic & hydrologic Sciences	Atmospheric and related oceanic & hydrologic Sciences	Certificate	Certificate	Certificate
American Psychological Association (APA)	Outstanding research in psychology under the category of behavioral and social sciences.	Behavioral/Social Science psychology project	Certificate		
American Society for Clinical Laboratory Science	Awarded to the project that best displays proper laboratory procedures. Emphasis is placed on experimental thoroughness, attention to scientific process detail and safety.		Certificate, Cash Award		



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ASM International Materials Foundation	Materials – related concepts, demonstration of structure, processing, properties, performance relationships. Clarity of methods, aesthetics and presentation.	Project in Materials	Medallion and Certificate		
Association of Women Geoscientists (AWG)	High standard of innovativeness and scientific excellence in the geosciences. Special considerations given to projects that increase the public awareness of the geosciences, illustrate the inter-disciplinary nature of the geosciences, or promote the sensitivity to the earth as a global system.	Project in geosciences  High school female student only	Certificate		
ASU Walton Sustainability Solutions Initiative	Celebrating students who are social entrepreneurs, inventors, innovative designers, and creative thinkers and projects that bring a fresh perspective to sustainability problems.		Certificate. Student will also be nominated for the Grand Prize – a trip to the 2017 Sustainability Solutions Festival in AZ.	Certificate. Student will also be nominated for the Grand Prize – a trip to the 2017 Sustainability Solutions Festival in AZ.	
Future Engineer Award presented by Milwaukee School of Engineering	The student who best highlights the design process in their project	Students in the 9 <sup>th</sup> , 10 <sup>th</sup> or 11 <sup>th</sup> grade	Full scholarship to attend one of MSOE's residential summer programs in the student's chosen area.	Full scholarship to attend one of MSOE's residential summer programs in the student's chosen area.	
GENIUS Olympiad	High School Science Fair project on global environmental issues, quality science on topics of human ecology, resources and energy or ecology and biodiversity.	Project focusing on Environmental issues	Opportunity to compete at GENIUS Olympiad National competition		
Intel Excellence in Computer Science Award	To encourage increased participation on Computer Science, an important source of innovation for the 21 <sup>st</sup> century.	Computer Science project	Certificate and \$200 cash award		
I-SWEEEP	For an exceptional Energy, Engineering, or Environment Project. More information at ISWEEEP.org.	Energy, Engineering, and Environment) Project			



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International Society for Optics and Photonics (SPIE)	Scientific research and engineering applications of Optical, Photonic Imaging and Optoelectronic technologies.	Must apply optics or photonics related technology or techniques. Abstracts are judged.			
Ralph L. Jaeschke Excellence in Engineering award	For an engineering project exhibiting excellence in engineering principles	Engineering project			
MacGyver Award from STI Engineering & American Science and Surplus	For the most creative use of an item or material in an application for which it was never intended by the manufacturer		Certificate, \$100 gift card to American Science and Surplus	Certificate, \$100 gift card to American Science and Surplus	
MU Alpha Theta	The most challenging, original, thorough and creative investigation of a problem involving modern mathematics. (The project does not have to be entered into the math category.)	Mathematics project	Certificate		
NASA Earth System Science Award	Best project with an Earth Systems perspective.(Earth Systems considers interactions between the atmosphere, hydrosphere, geosphere, pedosphere, biosphere, magnetosphere etc. as well as the impact of human societies on these components.				
National Oceanic and Atmospheric Administration (NOAA)	"Taking the pulse of the planet." General award whose research emphasizes NOAA's mission to understand and predict changes in the earth's environment and conserve and manage coastal and marine resources.	Environmental changes project	Certificate, medallion and letter		
Office of Naval Research (U.S. Department of the Navy/Marine Corps)	Project evaluated on scientific approach, original notebook, thoroughness, ingenuity & creativity, clarity, skill and student advancement in science. What the student learned about the subject and the process, their display exhibit, intelligent discussion and originality.	Project process focused	Certificate, award letter, gift card and medal	Certificate, award letter, gift card and medal	
Philip Streich Memorial Award	An award focusing on positive environmental impact projects, especially those that mitigate climate change		Cash Award and book		



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RICOH Sustainable Development Award	Have principles and technical innovations that offer the greatest potential for increasing our ability to grow environmentally friendly and socially responsible businesses. Protect the environment, prevent pollution and use all resources in a sustainable manner	Environmentally focused project	Certificate		
Society for In Vitro Biology (SIVB)	Plant or Animal In-Vitro Biology or Tissue Culture	Plant or animal In vitro biology project High school junior (11 <sup>th</sup> grade)	Certificate		
Stan Jaskolski Engineering Scholarship	The project that best evidences engineering principles	Engineering project by a 11 <sup>th</sup> or 12th grade student who plans to attend Marquette College of Engineering in the Fall of 2018 or 2019	Scholarship of \$3,000		
Stockholm Junior Water Prize	Improvement of the quality of life through water quality; water resources management; water protection or water and waste water treatment. Relevance: on originality, methodology and approach, subject matter knowledge and ingenuity. Open to theoretical and applied science-based projects.	Water Science Project Student must submit research paper ASAP after State Fair	Certificate, Nominated for the state SJWP competition	Certificate, Nominated for the state SJWP competition	Certificate, Nominated for the state SJWP competition
United States Air Force	To encourage studies in Math, Science and Engineering. Look for projects that could have some Air Force applicability.	Math or science project with Air force applicability	Certificate and technology supply award	Certificate and technology supply award	Certificate and technology supply award
U.S. Metric Association	Project must involve a significant amount of quantitative data or measurements which best use the SI Metric System for those measurements.	Project containing Quantitative data measurements	Certificate		



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Wisconsin Young Scientist Award	To the student whose project most promotes scientific progress in Wisconsin with a Wisconsin viewpoint, current Wisconsin topic, or Wisconsin natural resource	Wisconsin viewpoint, Wisconsin Natural Resource, or current Wisconsin topic (environmental, economic, or scientific)			
Yale Science & Engineering Association, Inc.	The most exhibit in Computer Science Engineering, Physics or Chemistry.	Computer Science, Engineering, Physics or Chemistry project High School Junior (11 <sup>th</sup> grade)	Certificate and medallion		
MSOE Future Engineer Summer Camp Scholarship	The MSOE Future Engineer Award will be awarded to the student who best highlights the design process in their project	Students currently in 9 <sup>th</sup> , 10 <sup>th</sup> , or 11 <sup>th</sup> grades			
Philip Streich Memorial Award	An award focusing on positive environmental impact projects, especially those that mitigate climate change				
Stan Jaskolski Engineering Scholarship	To the Junior or Senior Student with the project that best evidences engineering principles	Engineering project by a 11 <sup>th</sup> or 12th grade student who plans to attend Marquette College of Engineering in the Fall of 2017 or 2018			