

# 2008 Intel NWSE Category Award Winner Report

## MS Animal Science and Microbiology

**1**

*MS-AM-0011*

*Name*

Bryan Semonsen

*OrgName*

Arbor School

*Title*

Measuring carbon dioxide released through the fermentation of various liquids

Logan Ballarche

Arbor School

**2**

*MS-AM-0001*

*Name*

Luke Galloway

*OrgName*

Bend Science Station

*Title*

Traveling Toads

**HM**

*MS-AM-0031*

*Name*

Cara Scalpone

*OrgName*

da Vinci Arts Middle School

*Title*

Does Hair Dye Affect the Tensile Strength of Hair?

**HM**

*MS-AM-0034*

*Name*

Isabelle Anderson

*OrgName*

Winterhaven Middle School

*Title*

Is the Meat You Eat Clean?

**HM**

*MS-AM-0058*

*Name*

Sage Smiley

*OrgName*

East Sylvan Middle School

*Title*

What Will Happen to a Loaf of Bread if the Amount of Yeast is Changed?

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# 2008 Intel NWSE Category Award Winner Report

## MS Behavioral and Social Science

<b>1</b>	<i>MS-BE-0007</i>		
<i>Name</i>		<i>OrgName</i>	<i>Title</i>
Nicholas Hanson-Holtry		Summa Academy South	Train the Human Brain?
<b>2</b>	<i>MS-BE-0043</i>		
<i>Name</i>		<i>OrgName</i>	<i>Title</i>
Ben Massey		Bend Science Station	Bowling Master
<b>3</b>	<i>MS-BE-0032</i>		
<i>Name</i>		<i>OrgName</i>	<i>Title</i>
Alex Ellison		Leslie Middle School	Is Your Cell Phone Driving You Into Trouble?
Riley Wulf		Leslie Middle School	
Avery Ketchum		Leslie Middle School	
<b>HM</b>	<i>MS-BE-0021</i>		
<i>Name</i>		<i>OrgName</i>	<i>Title</i>
Brendan Maloney-Dunn		Bridlemile Elementary School	The best shot for basketball
<b>HM</b>	<i>MS-BE-0038</i>		
<i>Name</i>		<i>OrgName</i>	<i>Title</i>
Emily England		Rachel L. Carson Environmental Middle School	Blink!
<b>HM</b>	<i>MS-BE-0046</i>		
<i>Name</i>		<i>OrgName</i>	<i>Title</i>
Louisa Conwill		Yamhill Carlton School District	Colors or Numb3rs?

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# 2008 Intel NWSE Category Award Winner Report

## MS Chemistry and Earth

<b>1</b>	<i>MS-CE-0044</i>		
<i>Name</i>		<i>OrgName</i>	<i>Title</i>
Brian Graham		Summa Academy South	The Effects of Gallium on Aluminum Oxidation
<b>2</b>	<i>MS-CE-0002</i>		
<i>Name</i>		<i>OrgName</i>	<i>Title</i>
Phillip Kriegel		Summa Academy South	The Electrical Resistivity of Metals and Their Alloys
<b>3</b>	<i>MS-CE-0018</i>		
<i>Name</i>		<i>OrgName</i>	<i>Title</i>
Mariah Bruns		Winterhaven Middle School	The Angle of Repose: The Affect of Water
<b>HM</b>	<i>MS-CE-0019</i>		
<i>Name</i>		<i>OrgName</i>	<i>Title</i>
Grant Peters		Winterhaven Middle School	Calculating Calories
<b>HM</b>	<i>MS-CE-0021</i>		
<i>Name</i>		<i>OrgName</i>	<i>Title</i>
Emily Forman		Bend Science Station	Snap Shot!
Addie Brooks		Bend Science Station	
Amanda Fefferman		Bend Science Station	
Brooklynn Conner		Bend Science Station	
<b>HM</b>	<i>MS-CE-0028</i>		
<i>Name</i>		<i>OrgName</i>	<i>Title</i>
Shawn Lee		Summa Academy North	The Fight Against Corrosion
<b>HM</b>	<i>MS-CE-0034</i>		
<i>Name</i>		<i>OrgName</i>	<i>Title</i>
Alex Bertschi-Wrigley		da Vinci Arts Middle School	The Copper Project
Theo Knights		da Vinci Arts Middle School	

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# *2008 Intel NWSE Category Award Winner Report*

MS Chemistry and Earth

<b>HM</b>	<i>MS-CE-0042</i>		
<i>Name</i>		<i>OrgName</i>	<i>Title</i>
Saumya Khurana		Highland Park Middle School	How a Homemade Barometer Works
<b>HM</b>	<i>MS-CE-0051</i>		
<i>Name</i>		<i>OrgName</i>	<i>Title</i>
Skach Ben		West Sylvan Middle School	Does the air pressure of a soccer ball affect the distance it can be kicked?
<b>HM</b>	<i>MS-CE-0057</i>		
<i>Name</i>		<i>OrgName</i>	<i>Title</i>
Breanne Davis		Valley Catholic Middle School	Rain Drops Keep Falling on my Roof

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# 2008 Intel NWSE Category Award Winner Report

## MS Consumer Products Testing

1

*MS-CP-0025*

*Name*

Jackson Poulos  
James Lindsay

*OrgName*

Summa Academy South  
Summa Academy South

*Title*

Frequency Free-For-All

2

*MS-CP-0020*

*Name*

Philip Aulie

*OrgName*

Bend Science Station

*Title*

Spider Gloves

3

*MS-CP-0030*

*Name*

Carmel Davis

*OrgName*

Valley Catholic Middle School

*Title*

C It To Believe It- Vitamin C

**HM**

*MS-CP-0002*

*Name*

Casey Daley

*OrgName*

Evergreen Middle School

*Title*

Zap! The efficiency of CFLs vs. incandescent light

**HM**

*MS-CP-0039*

*Name*

Josi Petersen

*OrgName*

Raleigh Hills K-8

*Title*

The Incredible Shrinking Fabric

**HM**

*MS-CP-0041*

*Name*

Jon Stadler

*OrgName*

West Sylvan Middle School

*Title*

Do Kid Cereals Contain More Iron Per Serving Than Adult Cereals?

Dominic Neri

West Sylvan Middle School

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# 2008 Intel NWSE Category Award Winner Report

## MS Energy and Transportation

<b>1</b>	<i>MS-ET-0018</i>		
	<i>Name</i>	<i>OrgName</i>	<i>Title</i>
	Kimaya Gupte	Rachel L. Carson Environmental Middle School	Ethanol: An answer to Global Warming?
<b>2</b>	<i>MS-ET-0017</i>		
	<i>Name</i>	<i>OrgName</i>	<i>Title</i>
	Tejal Pandharparkur	Rachel L. Carson Environmental Middle School	Warning: Car is Drunk
<b>3</b>	<i>MS-ET-0001</i>		
	<i>Name</i>	<i>OrgName</i>	<i>Title</i>
	Quincy Hayden	Bend Science Station	Passactive Solar 2.0
<b>HM</b>	<i>MS-ET-0009</i>		
	<i>Name</i>	<i>OrgName</i>	<i>Title</i>
	Steven Whitten	Cedar Park Middle School	Wings and Lift
	Ryan Pfeifer	Cedar Park Middle School	
<b>HM</b>	<i>MS-ET-0012</i>		
	<i>Name</i>	<i>OrgName</i>	<i>Title</i>
	Kevin Wang	Summa Academy North	Global Saving
<b>HM</b>	<i>MS-ET-0025</i>		
	<i>Name</i>	<i>OrgName</i>	<i>Title</i>
	Ben Stager	Valley Catholic Middle School	Aileron Size and Airplane Roll

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# 2008 Intel NWSE Category Award Winner Report

## MS Engineering

1

*MS-EG-0017*

*Name*

Sid Dhawan

*OrgName*

Summa Academy North

*Title*

Using Sociable Robots to Help Cure Autism

2

*MS-EG-0026*

*Name*

Nishant Karandikar

*OrgName*

Summa Academy South

*Title*

A Solution to the Third World's Potable Water Problem:  
A Silver-Based Filtration Prototype

3

*MS-EG-0021*

*Name*

Alan Cheng

*OrgName*

Scholls Heights Elementary

*Title*

Automatic Plant Watering Device, A Project Using  
Microcontroller

**HM**

*MS-EG-0019*

*Name*

Julia Tatiyatirong

*OrgName*

Rosemont Ridge Middle School

*Title*

How much do Cable-Stayed bridges move due to wind?

**HM**

*MS-EG-0028*

*Name*

Grace Altree

*OrgName*

Whitford Middle School

*Title*

Seeing Under the Sea: Underwater Webcam

**HM**

*MS-EG-0037*

*Name*

Lukas Stracovsky

*OrgName*

Arbor School

*Title*

Thermodynamics involved with a candle powered boat

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# 2008 Intel NWSE Category Award Winner Report

## MS Environmental Science

<b>1</b>	<i>MS-EV-0010</i>		
<i>Name</i>		<i>OrgName</i>	<i>Title</i>
Aishwarya Vardhana		Valley Catholic Middle School	A Novel Method for the Prevention of Ecological Imbalance Due to Oil Contamination in Wetlands
<b>2</b>	<i>MS-EV-0045</i>		
<i>Name</i>		<i>OrgName</i>	<i>Title</i>
Yamini Naidu		Valley Catholic Middle School	Carbon Dioxide Capture System
<b>3</b>	<i>MS-EV-0030</i>		
<i>Name</i>		<i>OrgName</i>	<i>Title</i>
Naomi Shah		Summa Academy North	Indoor Air Quality: Sustainable vs. Non-Sustainable Home
<b>HM</b>	<i>MS-EV-0007</i>		
<i>Name</i>		<i>OrgName</i>	<i>Title</i>
Patrick Nikong		Summa Academy South	Exploration into Benzene Reduction
<b>HM</b>	<i>MS-EV-0009</i>		
<i>Name</i>		<i>OrgName</i>	<i>Title</i>
Christina Schmidt		Arbor School	Are you thinking about the air quality around your home? A study of airborne particles.
Lilah Buchanan		Arbor School	
<b>HM</b>	<i>MS-EV-0048</i>		
<i>Name</i>		<i>OrgName</i>	<i>Title</i>
Eric Ho		Valley Catholic Middle School	Rainwater Energy

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# 2008 Intel NWSE Category Award Winner Report

## MS Mathematics and Computer Science

<b>1</b>	<i>MS-MC-0012</i>		
<i>Name</i>		<i>OrgName</i>	<i>Title</i>
Lawrence Sun		Highland Park Middle School	Patterns in Pythagorean Triplets
<b>2</b>	<i>MS-MC-0013</i>		
<i>Name</i>		<i>OrgName</i>	<i>Title</i>
Justin Cheng		Summa Academy South	Neuro-Shield, Artificial Intelligence in Game Programming
<b>3</b>	<i>MS-MC-0007</i>		
<i>Name</i>		<i>OrgName</i>	<i>Title</i>
Thomas Hady		Summa Academy North	Reducing PC Carbon Footprint
<b>HM</b>	<i>MS-MC-0003</i>		
<i>Name</i>		<i>OrgName</i>	<i>Title</i>
Nicky Hall		Arbor School	Fibonacci's Secret: A formula for the Fibonacci
Derek Gulick-Stutz		Arbor School	
<b>HM</b>	<i>MS-MC-0011</i>		
<i>Name</i>		<i>OrgName</i>	<i>Title</i>
Wilven Smoody		KiWi School	A Taxonomy of Quadrilaterals
<b>HM</b>	<i>MS-MC-0016</i>		
<i>Name</i>		<i>OrgName</i>	<i>Title</i>
Anusha Pai		Elmonica Elementary School	The Geometry Of Nature

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# 2008 Intel NWSE Category Award Winner Report

## MS Medicine and Health Sciences

**1** *MS-ME-0006*

<i>Name</i>	<i>OrgName</i>	<i>Title</i>
Meghana Kalavar	Girl Scouts - Columbia River Council	Chemotherapy - Made Effective

**2** *MS-ME-0002*

<i>Name</i>	<i>OrgName</i>	<i>Title</i>
Tanya Talkar	Summa Academy South	Glowing Genetics
NingNing Wen	Summa Academy South	
Tiffany Nguyen	Summa Academy South	

**3** *MS-ME-0008*

<i>Name</i>	<i>OrgName</i>	<i>Title</i>
Pratyusa Mukherjee	Summa Academy North	Curing Egg Allergies Using Digestive Enzymes

**HM** *MS-ME-0007*

<i>Name</i>	<i>OrgName</i>	<i>Title</i>
Vivian Yu	Winterhaven Middle School	Different Ages of People, Different Tensile Strength in Hair

**HM** *MS-ME-0011*

<i>Name</i>	<i>OrgName</i>	<i>Title</i>
Vineet Pandharpurkar	Rachel L. Carson Environmental Middle School	Honey,I killed the bacteria

**HM** *MS-ME-0012*

<i>Name</i>	<i>OrgName</i>	<i>Title</i>
Christine Martell	Visitation School	Bacteria Criteria

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# 2008 Intel NWSE Category Award Winner Report

## MS Physics: Electromagnetic

<b>1</b>	<i>MS-PE-0030</i>		
<i>Name</i>		<i>OrgName</i>	<i>Title</i>
Adria Dortignacq		West Sylvan Middle School	Spectral Analysis of Skyglow Using Digital
<b>2</b>	<i>MS-PE-0034</i>		
<i>Name</i>		<i>OrgName</i>	<i>Title</i>
William Yuan		Meadow Park Middle School	High Efficiency 3-Dimensional Nanotube Solar Cells for Visible and UV Light
Vashnav Pandey		Meadow Park Middle School	
<b>3</b>	<i>MS-PE-0038</i>		
<i>Name</i>		<i>OrgName</i>	<i>Title</i>
Jenna Tatiyatrairong		Rosemont Ridge Middle School	How Wood Density Affects the Sound Level of
<b>HM</b>	<i>MS-PE-0003</i>		
<i>Name</i>		<i>OrgName</i>	<i>Title</i>
Jonathan Davidson		ACCESS	The Effect of a Goggle's Lens Tint on the Intensity of Light
<b>HM</b>	<i>MS-PE-0004</i>		
<i>Name</i>		<i>OrgName</i>	<i>Title</i>
Conrad Cartmell		Winterhaven Middle School	Refraction: An Inquiry On The Behavior Of Light
<b>HM</b>	<i>MS-PE-0024</i>		
<i>Name</i>		<i>OrgName</i>	<i>Title</i>
Zuhair Parvez		Valley Catholic Middle School	Gauge of Wire used in Motor vs. RPM

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## MS Physics: Mechanical

<b>1</b>	<i>MS-PM-0019</i>		
<i>Name</i>		<i>OrgName</i>	<i>Title</i>
Sovijja Pou		Summa Academy South	Archimedes Principle and Its Applications
<b>2</b>	<i>MS-PM-0004</i>		
<i>Name</i>		<i>OrgName</i>	<i>Title</i>
Raisa Ebner		Winterhaven Middle School	Blowing Hot Air
<b>3</b>	<i>MS-PM-0015</i>		
<i>Name</i>		<i>OrgName</i>	<i>Title</i>
Josh Suran		Bend Science Station	Sticky Gloves
<b>HM</b>	<i>MS-PM-0010</i>		
<i>Name</i>		<i>OrgName</i>	<i>Title</i>
Eric Holmes		Summa Academy North	The Physics of Table Tennis
<b>HM</b>	<i>MS-PM-0018</i>		
<i>Name</i>		<i>OrgName</i>	<i>Title</i>
Alex Emry		Leslie Middle School	Marshmallow Shooter
<b>HM</b>	<i>MS-PM-0029</i>		
<i>Name</i>		<i>OrgName</i>	<i>Title</i>
Rebecca Lewinsohn		West Sylvan Middle School	The Doppler Effect: When Sound Moves
<b>HM</b>	<i>MS-PM-0030</i>		
<i>Name</i>		<i>OrgName</i>	<i>Title</i>
Torrey Randolph		East Sylvan Middle School	How Does the Percentage of Corn Syrup in a Solution Affect the Viscosity?

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# 2008 Intel NWSE Category Award Winner Report

## MS Plant Sciences

<b>1</b>	<i>MS-PL-0027</i>		
<i>Name</i>		<i>OrgName</i>	<i>Title</i>
Riley Hazard		West Sylvan Middle School	Does Microwave Radiation Affect Radish Deed Germination?
<b>2</b>	<i>MS-PL-0023</i>		
<i>Name</i>		<i>OrgName</i>	<i>Title</i>
Katie Ford		Valley Catholic Middle School	Green..Greener...Greenest The Fertilizer That Works Best For Growing Flowers
<b>3</b>	<i>MS-PL-0009</i>		
<i>Name</i>		<i>OrgName</i>	<i>Title</i>
Zelda Boyd		Winterhaven Middle School	pH and Organism Growth
<b>HM</b>	<i>MS-PL-0010</i>		
<i>Name</i>		<i>OrgName</i>	<i>Title</i>
Ariane Blank		Bend Science Station	Sprouting Seeds and Pummeling Plants
Taylor Deems		Bend Science Station	
Ansley Dunning		Bend Science Station	
Sierra Horton		Bend Science Station	
<b>HM</b>	<i>MS-PL-0018</i>		
<i>Name</i>		<i>OrgName</i>	<i>Title</i>
Richik Neogi		Summa Academy South	Energy Conversion using TiO2 Nanoparticles with Melanin Based Organic Dyes Under the Influence of UV Light

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