







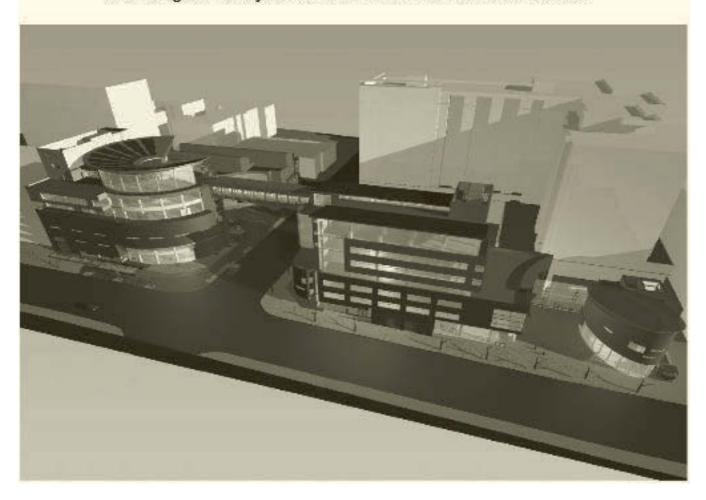


The Unither Family of Companies works hard every day to implement our motto:

Medicines for Life

We are a Silver Spring biotechnology company focused on the development and commercialization of innovative therapeutic products for patients with chronic and life-threatening cardiovascular, cancer and infectious diseases.

We are proud to be a sponsor of ScienceMONTGOMERY and are counting on today's students for tomorrow's medicines.







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	Friday, March 16, 2007
6 PM – 9 PM	Student Project Set Up: Students set-up display boards and go through Safety Inspection in Building #6 at the Montgomery County, Fairgrounds, Gaithersburg, MD
	Saturday, March 17, 2007
8 AM – 12 Noon	Judges Project Preview Period
12 Noon – 3 PM	<u>Students Grades 6-8 Interviews</u> by Judges and Special Awards Organizations
2 PM – 5 PM	<u>Students Grades 9-12 Interviews</u> by Judges and Special Awards Organizations
5:30 PM – 8 PM	Open House for the General Public, in Building #6. Montgomery County Fairgrounds, Gaithersburg, MD Students may remove their projects at 8 PM.
	Sunday, March 18, 2007
12 Noon – 1:30 PM	Students may <u>remove their projects</u> from Building #6. Montgomery County Fairgrounds, Gaithersburg, MD.
2 PM – 4 PM	Awards Ceremony at the Gaithersburg High School Auditorium, Gaithersburg, MD.
4:30 PM – 6 PM	Project Break Down: Students dismantle projects.

(Any projects not removed by 6 pm will be discarded.)





MONTGOMERY AREA SCIENCE FAIR ASSOCIATION

Welcome to *ScienceMONTGOMERY*, one of the largest science fairs in the United States, a Celebration of Science in its 51st year. A tax deductible organization, *ScienceMONTGOMERY* is dedicated to encouraging and promoting an interest in science to the youth of our Area, encouraging scientific activities, and bringing together scientists, engineers, mathematicians, educators, students, and parents. *ScienceMONTGOMERY* provides a venue for over \$45,000 in prizes for outstanding projects in middle school and high school divisions. In addition to the cash awards for students winning 1st, 2nd and 3rd places in their categories, and ISEF trips provided by *ScienceMONTGOMERY*, special awards from area businesses, scientific, professional and educational organizations, and the United States Government, include cash, scholarships, trips, bonds, banquets, certificates, medals, merchandise and books

ScienceMONTGOMERY is affiliated with the Intel International Science and Engineering Fair (ISEF). We follow the Intel ISEF rules and regulations to assure the safest scientific research methods. The top senior high school winners will be sent, fully funded, to the Intel International Science and Engineering Fair 2007, to be held in Albuquerque, NM. There they will compete against winners from the United States and over 38 foreign countries. By participating in the Intel ISEF, students become eligible for over three million dollars in scholarships, tuition grants, scientific field trips, summer internships and other awards.

A magnificent group of sponsors allows *ScienceMONTGOMERY* put on this Fair for our students. MedImmune, Inc has returned for a third year as our top level sponsor. Over 200 judges, representing area businesses and professional organizations volunteer their entire Saturday to talking with these outstanding students about their projects.

Our all-volunteer staff of professionals from the education and science communities of Montgomery County thanks all of the organizations and individuals you see in this program for bringing you this 51st Fair. *ScienceMONTGOMERY* congratulates all the students who prepared projects for the 2007 Fair. Celebrate Science and be very proud!

Pepper D. Buckley, Ph.D., Fair Director

President, Montgomery Area Science Fair Association

The NIH Office of Dietary Supplements is pleased to provide support for the 2007 Montgomery County Science Fair



Promoting Quality Science in Dietary Supplement Research, Education, and Communication

We wish the students, teachers, parents, and mentors of Montgomery County all the best in your scientific projects and adventures.



Office of Dietary Supplements National Institutes of Health Bethesda, Maryland Visit our Web site: ods.od.nih.gov





MONTGOMERY AREA SCIENCE FAIR ASSOCIATION

51st Montgomery Area Science Fair – 2007 Montgomery County Agricultural Center & Fairgrounds, Gaithersburg, MD

—— Officers and Board, Montgomery Area Science Fair Association ——

President: Dr. Pepper D. Buckley
Psychologist, Private Practice
Secretary: Deb Pober Haase
Teacher, Bethesda-Chevy Chase HS

Treasurer: Dr. Jay L. Buckley

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Persons interested in joining the *ScienceMONTGOMERY* Board should contact Dr. Pepper Buckley at SciMONT@aol.com



DEPARTMENT OF ECONOMIC DEVELOPMENT

is a proud sponsor of the

51st Annual Montgomery County Science Fair

We congratulate and applaud the many talented and dedicated students who worked so hard to get here and look forward to their ongoing contributions to health, science and technology.



Department of Economic Development www.montgomerycountymd.gov/ded

111 Rockville Pike | Suite 800 | Rockville, Maryland | 20850 | Tel: 240.777.2000 | Fax: 240.777.2001



AWARDS PROGRAM

2:00 P.M.
Sunday, March 18, 2007
Gaithersburg High School Auditorium

Opening of Awards Program

Pepper D. Buckley, Ph.D.

& Welcome to ScienceMONTGOMERY

President, Montgomery Area Science Fair Assoc.

Congratulations to Student Scientists

Toni Stiefel, Director, Internal Communications &

Community Relations, MedImmune, Inc.

John Seng, President

Spectrum Science Communications

Presentation of Special Awards

Mrs. Deb Pober-Haase

ScienceMONTGOMERY Board Secretary

Pepper D. Buckley, Ph.D., Fair Director Special Award Organizations Presenters

Presentation of Senior Category Awards

Pepper D. Buckley

Anita O'Neill, K-12 Science Supervisor Montgomery County Public Schools

Presentation of Junior Awards

Pepper D. Buckley

Anita O'Neill

Presentation of ISEF Awards

Pepper D. Buckley

Toni Stiefel

Anita. O'Neill

Thank you & Invitation to ScienceMONTGOMERY 2008 Dr. Pepper







International Council on Systems Engineering Chesapeake Chapter

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Organizations Offering Special Awards

American Institute of Aeronautics & Astronautics National Capital Section

American Meteorological Society

American Nuclear Society, Washington DC Section

American Psychological Association

American Society of Mechanical Engineers

American Society of Naval Engineers

American Society of Safety Engineers

- National Capital Chapter

ASM Materials Education Foundation

Association for Computing Machinery

Association for Women Geoscientists

Association of Practicing Psychologists

- Montgomery and Prince George's Counties

Capital PC Users Group

Central Intelligence Agency

Chemical Society of Washington

Discovery Channel Young Scientist Challenge

Energy & Air Quality Advisory Committee of Montgomery County

Federal Water Quality Association

Friends of Agricultural Research-Beltsville

Gem, Lapidary & Mineral Society of Montgomery County Maryland, Inc.

George Washington University, Engineering

Alumni Association

Herbert Hoover Presidential Library Association

Institute of Electrical and Electronics Engineers

Institute of Food Technologists - DC Section

Intel Excellence in Computer Science Award

International Society for Optical Engineering

MedImmune

Montgomery Bird Club

Montgomery County Citizens Association

Montgomery County Energy & Air Quality **Advisory Committee**

Mu Alpha Theta

National Capital Astronomers

National Association of Biology Teachers

National Capital Astronomers

National Oceanic and Atmospheric Administration

National Space Club

National Society of Professional Engineers

Northrop Grumman

Optical Society of America - National Capital Section

Ricoh Group

Sigma Delta Epsilon Graduate Women In Science, Omicron Chapter

Sigma Xi - FDA Chapter

Sigma Xi - NIST Chapter

Society for In Vitro Biology

Society for Mining, Metallurgy and Exploration, Inc.

Spectrum Science Communications

Towson University

United States Air Force

United States Department of the Army

United States Army Research Office

United States Department of Health & Human Services

United States Department of the Navy,

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United States Metric Association

United States Nuclear Regulatory Commission

United States Public Health Service/Commissioned Officers Association

Washington Statistical Society

Water Environment Federation Stockholm **Junior Water Prize**

West Montgomery County Citizens Association

Yale Science & Engineering Association, Inc.

ScienceMONTGOMERY wishes to thank all the teachers, supervisors and other school staff, for their unstinting contributions to the students in our 2007 Fair. We especially thank New Hampshire Estates Elementary School and the Montgomery County

> Public Schools Office of Science Curriculum and

> > Instruction for their support of this

> > 51st Anniversary Fair!

2007 Category and ISEF Awards Judges

Mr. James Acklin Healthcare Reform Collaboratory
Dr. Rajeev Agarwal National Institutes of Health

Ms. Mary Anderson Digene Corp.
Dr. Kate Baldwin Howard University

Dr. Kelsie Bernot

Dr. Lori Bibb

Dr. Rasmus Birn

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Dr. David Bonnell National Institute of Standards & Technology – Retired

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Dr. Pepper D. Buckley
Licensed Psychologist
Dr. Beverly Celotta
Licensed Psychologist

Dr. Robert Celotta National Institute of Standards & Technology

Ms. Cynthia Chang
Dr. Oscar Cheng
Mr. Jeffery Cohen

National Institutes of Health
University of Maryland

Dr. Tatiana Cohen National Cancer Institute at Frederick

Dr. John Cramer National Institutes of Health

Mr. George Daniello US Government (Navy Dept)-Retired

Dr. Mathew Daniels National Institutes of Health

Dr. Lorena de la Pena National Cancer Institute / National Institutes of Health Dr. Mrinal Dewanjee Center for Biologics Evaluation & Research, FDA

Mrs. Heidi Dudik Charles River Laboratories
Dr. Bonnie Dunn National Institutes of Health

Dr. Sarah Dunsmore

Dr. Mark Engle

Dr. Grant Erdmann

National Institutes of Health/NIGMS

Geological Society of Washington

Air Force Research Laboratory

Ms. Barbara Fahey DHHS, PHS, National Institutes of Health

Dr. Bryan Fantie American University
Mrs. Roxanne E. Fox Lab Products, Inc.

Mrs. Rajal Ganatra National Institutes of Health

Dr. Eric Garber US Government, Food & Drug Administration

Dr. Elizabeth Gard National Institutes of Health

Dr. Dennis Glanzman

Dr. Andrea Gropman

Dr. Kailash Gupta

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Mr. Edmund Habib AIAA/National Aeronautics and Space Administration-Retired

Dr. Jonathan Hardis National Institute of Standards & Technology

Dr. Mi Hillefors National Institutes of Health/NIMH

Dr. Shannon Hill National Institute of Standards & Technology

Dr. J. Terrell Hoffeld

Mr. Larry Hothem

Dr. Renee Howell

U.S. Public Health Service

U.S. Geological Survey

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Dr. Guo-Chiuan Hung National Institutes of Health

Dr. Kenneth Inn

Dr. Laura Lee Johnson

Dr. Robert Kahn

National Institutes of Health/NCCAM

US Dept. of Agriculture/APHIS-Retired

Dr. Samir Kelada National Institutes of Health

Dr. Steve Kronheim University of Maryland University College

Dr. Josh Leonard National Institutes of Health

Dr. Teresa Levitin

Dr. Luowei Li
Dr. Huei-Min Lin
National Cancer Institute
National Institute of Health

Dr. Sue Liu

Dr. Dongfang Liu National Institutes of Health



2007 Category and ISEF Awards Judges (continued)

Dr. Morris Makobongo National Institutes of Health

Mr. James Mallos Alice-on-Mars/Toy Design-Engineering

Dr. Gerald Marti Center for Biologics Evaluation and Research, FDA

Mr. Stephen Mason Johns Hopkins University

Dr. Matthew Meyer HHS/National Institutes of Health/NCI
Dr. Vivek Navale National Archives & Records Administration

Dr. Janet Nelson National Institutes of Health Dr. Weijia Ni National Institutes of Health

Dr. Louis Ostrach National Aeronautics & Space Administration

Mrs. Bernadette Owen National Institutes of Health/ Charles River Laboratories

Dr. Sriram Padmanabhan National Institutes of Health/ Midatlantic Cardiovascular Assocs.

Dr. Vainav Patel National Institutes of Health Dr. Peter Perrin National Institutes of Health

Dr. Robert Peters Contractor/NASA

Dr. Doug Powell National Institutes of Health

Dr. Leslie Sage Nature

Dr. Jim Saunders Towson University

Mr. Dalton Saunders Charles River Laboratories / NCAB/AALAS

Mrs. Catherine Schwartz

Ms. Jill Snyder

National Institutes of Health

American Institutes for Research

Mr. Gary Spindler KPMG

Dr. Amber Steele US Patents & Technology Office

Mr. Rattan Tawney Bechtel Corporation

Dr. Teresa Washington National Institutes of Health/NICHD

Dr. Jocelyn Weiss National Cancer Institute, National Institutes of Health

Dr. Patricia Westerman Bowie State University

Ms. Meredith Williams Engineering Consulting Services, LLC

Dr. David Winfield Institute of Navigation Washington DC Section

Dr. Katherine Wood
Dr. Jianhua Xu
National Institutes of Health
Dr. Maocheng Yang
National Institutes of Health
Dr. Ming Yu
National Institutes of Health
Dr. Heesuk Zang
National Institutes of Health



ScienceMONTGOMERY 2006 Graduates

Cate	egory	High School	College		
Beh	Behavioral and Social Science				
2	Ryan Ly	Montgomery Blair	Johns Hopkins University		
3	Emma Newhall	Sherwood	Radford University		
Bio	chemistry				
1	Yueyang Li	Montgomery Blair	MIT		
Bota	•				
1	Erin Hendricken	Sherwood	Arcadia		
2	Cindy Cheng	Bullis	Harvard		
3	Audrey Wong	Sherwood	Montgomery College Scholars		
Computer Science					
1	John Silberholz	Montgomery Blair	University of Maryland		
2	Daniel Green	Montgomery Blair	Rochester		
3	Jeremy Ong	Winston Churchill	Cornell		
Eart	th and Space Science				
2	Lauren Bodin	Montgomery Blair	Penn State		
Eng	ineering				
2	Faith Kung	Winston Churchill	Duke University		
3	Stuart Carroll	Sherwood	Purdue		
Med	licine and Health				
1	Lu Chen	Montgomery Blair	Cal Tech		
3	Elizabeth Plum	Seneca Valley	Montgomery College Scholars		
Zoo	logy				
2	Yang Shan	Montgomery Blair	Carnegie Mellon		
3	Ini Li	Thomas S. Wooten	Columbia		





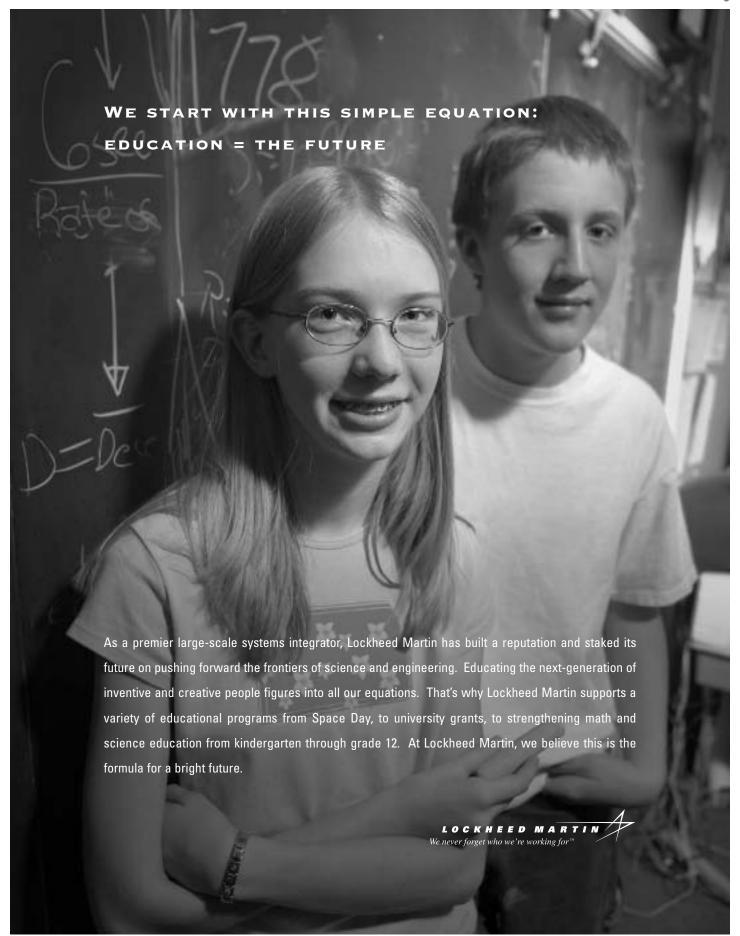
ScienceMONTGOMERY 2005 Graduates

	Science violated view 2003 Graduates				
Cate	gory	High School	College		
Reha	Behavioral and Social Sciences				
1	Michele Abbott	Sherwood	University of Maryland		
2	Katelyn Kinker	Sherwood	George Washington Univ		
2	Sarika Tamaskar	Sherwood	University of Maryland		
3	Rachel Pozzatti	Sherwood	University of Maryland		
Bioc	hemistry				
1	Kristina Yang	Montgomery Blair	Stanford		
3	Daniel Aisen	Montgomery Blair	Stanford		
Bota	ny				
1	Andrew Melmed	Bethesda-Chevy Chase	Cornell		
Cher	nistry				
1	Adrienne Smith	Montgomery Blair	Northwestern		
2	Rebecca Fink	Sherwood	Boston University		
3	Lauren Smith	Montgomery Blair	Northwestern		
Com	puter Science				
1	Gregory Eden	Montgomery Blair	Carnegie Mellon		
2	Alexander Mont	Montgomery Blair	University of Maryland		
3	Erica Hogan	Sherwood	Miami University of Ohio		
Engi	neering				
3	Jonathan Long	Thomas S. Wootton	Carnegie Mellon		
Math	nematics				
1	Scott Kominers	Walt Whitman	Harvard		
D1					
Phys	Jason Chen	Winston Churchill	Yale		
3	Saul Kinter	Montgomery Blair	Princeton		
3	oaul Miller	Wontgomery Dian	Timecton		
Spac	e Science	M Di	D :		
2	Renee Park	Montgomery Blair	Princeton Yale		
2	Abigail Fraeman	Montgomery Blair	Taic		
Zool					
3	Katie Zdilla	Sherwood	St. Mary's College		
Tean	n Projects				
1	Ben Frable	Bethesda-Chevy Chase	Washington University		
1	Alexandre Mariuzza	Bethesda-Chevy Chase	Georgia Tech		
3	Tessa Carducci	Thomas S. Wootton	Duke		
3	John Hooff	Thomas S. Wootton	Michigan		
1	Brian Go	Bethesda-Chevy Chase	Cal Tech		
1	Joshua Klontz	Bethesda-Chevy Chase	Harvey Mudd		
2	David Martin	Walt Whitman	Cornell		
2	Joshua Martin	Walt Whitman	Harvard		

Participating Schools-2007

School	Abbreviation	Teachers & Sponsors
Argyle Middle School	AGM	Dahl, Franklin, Grant, McNair, Santos, Thompson
A.Mario Loiederman Middle School	MLM	Rosenheim, Burns, Molley, Morley
Benjamin Banneker Middle School	BAM	Halter, Whitmore
Bethesda-Chevy Chase High School	BCH	Haase, McDonald, Jones, Arya, El-Khatib, Hall, Valenstein
Cabin John Middle School	CJM	Fazio, Hinkle, McKenna, Pivinski
Charles E. Smith Jewish Day School	JDS	Agzigian, Schneider
Col Zadok Magruder High School	MGH	Lee
Earle B. Wood Middle School	EWM	Kieffer, Alilio, Chisholm, Hagarty, Hammonds, Jones, Plotkin, Ransome, Wright, Hagarty, Rider, Selig
Eastern Middle School	ESM	Sullivan
Gaithersburg High School	GBH	O'Connor
Herbert Hoover Middle School	HHM	Clement, Sun
Holton-Arms School	HOA	Miranowski
Holy Cross	HCS	Peterson
Home Schooled	HS	Keen, Lawless
John H. Poole Middle School	JPM	Bliss, Callaghan, Stein
Kingsview Middle School	KIM	Lee
Martin Luther King, Jr. Middle School	MKM	Phillips
Montgomery Blair High School	BLH	Torrence, Donaldson, Tao, Shaw,
Muslim Community School	MCS	Abdalla, Garmroudi
Neelsville Middle School	NEM	Wolfinger
Newport Mill Middle School	NMM	Gable, Mucklow
North Bethesda Middle School	NBM	Macedonia, Reed, Deprey, Aaron, McHale, Pacunas, Aaron, Livaniou
Northwood High School	NWH	Baer
Parkland Middle School	PLM	Teichman
Quince Orchard High School	QOH	Majkrzak, Heinz
Richard Montgomery High School	RMH	Bolou, O'Donoghue
Robert Frost Middle School	RFM	Harriot
Roberto Clemente Middle School	RCM	Brady, Smith, Zhang
Seneca Valley High School	SVH	Kimchi-Sarfati
Sherwood High School	SWH	Douglas, Kenton, Krupsaw
Sligo Adventists School	SAM	Daly
St. Albans School	SAS	Carroll
St. Andrew Apostle School	SAA	Hochhausler, Celotto, Lester, Moran, Stacey
St. Catherine Laboure School	SCL	Nava
Takoma Park Middle School	TPM	Phelan, Goehring, Epling, Cahill, Lee
Thomas S. Wootton High School	WHO	Adler, Herzon
Thomas W. Pyle Middle School	PYM	Goodstein
Walt Whitman High School	WWH	Wildstrom, Garton, DeMember, Smith
Watkins Mill High School	WMH	Safford, Bragg
	FQM	Hopkins, Grandin
William H. Farquhar Middle School	1 0111	1 IOPKIIIS, GIAIIGIII





Exhibits in the Junior Division, Grades 6-8

Project	Title of Project	Exhibitor's Name	School
Behavior	al and Social Sciences		
J101	Boys vs. Girls: Who Needs More Personal Space?	Emily Durr	JPM
J102	Reaction Time	Seema Habash	AGM
J103	Does Heart Rate affect Concentration While Playing a Concentration Card Game?	Ashton Trevino	ННМ
J104	Does the Quantity of Food Hidden in a Maze Affect the Rate at Which a Hamster Finds Food?	Megan Rider	EWM
J105	Global Warming: What Do You Know?	Jay Feldman	RFM
		Akira Horiguchi	RFM
		Young (Daniel) Park	RFM
J106	How Much Sleep Did You Get Last Night?	Morgan Dunlow	SAA
		Tristan Roche	SAA
J107	Musical Math: The Affect of Music on Problem-Solving Abilities	Sahaana Arumugam	TPM
J108	Physical Activity in Teens: Are Home-schoolers Falling Behind?	Lyla Lawless	HS
J109	The Effects of Stereotype Threat on Girls' Performance in Accelerated Math	Caroline Diehl	TPM
J110	The Height of Success	Caroline DeSantis	SAA
		Caitlin DeSantis	SAA
		Maty Dunn	SAA
J111	What Characteristics Help Crickets Survive?	Jepthalyne Semas	SAM

Environmental management

Hydrology

Energy management

Information technology

Engineering



Chemistry

Occupational health

Laboratory analysis

Microbiology

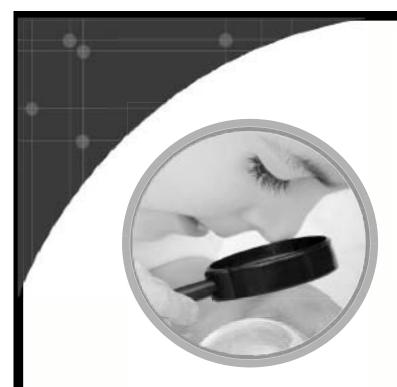
Where the sciences come together to provide safe water

The scientists of WSSC congratulate the 51st Annual Montgomery County Science Fair participants, and we look forward to your contributions in the exciting future that awaits!

WSSC is among the country's 10 largest water and wastewater utilities, serving more than 1.6 million customers in Prince George's and Montgomery counties.

We operate seven water and wastewater plants, and maintain over 10,500 miles of water and wastewater pipeline.







MCT Federal Credit Union is a proud sponsor of the 2007 Montgomery Area Science Fair.





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Project	Title of Project	Exhibitor's Name	School	
Biochemistry				
J201	Effect of Acid Rain on Plants	Alyssa Dodd	SAA	
J202	Fruitful DNA	Madison Cecco	JPM	
J203	Glow crazy	Nicholas Chisholm	EWM	
J204	Improved Storage of Cut Vegetables by Enzyme Inactivation	Praveen Bachoti	KIM	
J205	Rot or Not!	Aidan Dolan	JPM	
J206	Speedy DNA Isolation	Prisca Alilio	EWM	
J207	The Role of Saliva: Break Down of Carbohydrates in Food	Eunah Lee	FQM	
J208	Cheddar is Better	Arthur Moy	AGM	
J209	Secrets of Saliva	Fatemah Gholamimehrabadi	MCS	
Botany				
J301	A Green Thumb for Green Day	Jordan Batson	EWM	
J302	Carbon Dioxide and Plant Growth	Kevin Hill-Byrne	EWM	
J303	Full or Limited Light Spectrum: Which is Better for the Plants?	Spencer Sampson	AGM	
J304	Got MilkIn Your Grass?	Maria Nasios	AGM	
		Julie Kwong	AGM	
J305	How Much is Too Much? The Impact of Nitrogen on Lemna Minor- Duckweed	Hunter Rooney	HOA	
J306	Much Ado About Mulch	Amy Defnet	JPM	
J307	The Effect of Concentrated Carbonated Water on Plants' Growth/Height	Nicole Brimmer	TPM	
J308	The Effect of Light on Plants	Jesse Kizito	BAM	
J309	The Effect of pH Differences on the Growth of Sub-Aquatic Vegetation	John Wambach	EWM	
J310	The Effects of Caffeine on Plant Growth and Leaf Development	Wade Potter	EWM	
J311	What's Under The Mask?	Curtis Betz	JPM	
Chemistr	<u>y</u>			
J401	Acid Migration and Paper Discoloration	Olivia Youket	EWM	
J402	All That Glitters Isn't Gold: Variations in Glitter Make-Up Durability	Deborah Ehrenreich Patrique Beard	SAA SAA	







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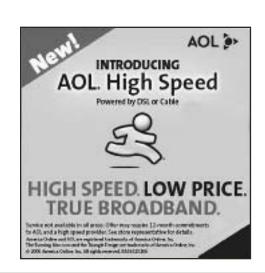
301 987-7269 JayLBuckley@aol.com



Congratulations to the students, teachers, parents and supporters who help ScienceMONTGOMERY renew the spirit of scientific discovery. They bring the promise of an exciting future to mankind.

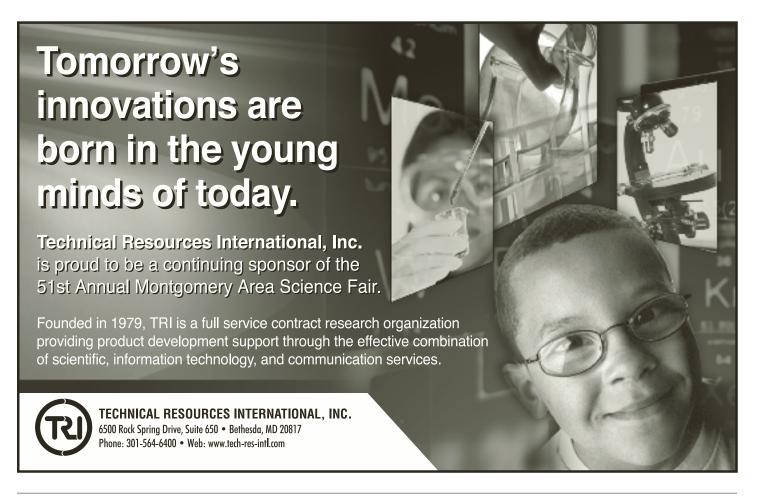
Project	Title of Project	Exhibitor's Name	School
J415	Studying the Conductivity Profile of Water with Additives: Learning the First Step of Getting Hydrogen Fuel	Aritra Biswas	NBM
J416	The Effect of Acid on Chalk	Emily Janes	EWM
J417	The Effects of Acid on Copper	Melissa Farzin	SCL
		Nicole Nashwinter	SCL
J418	The Effects of Different Substances on the Boiling Point of Water	Kurtis Swartz	EWM
J419	The Elucidation of the Mechanism of the Ripening of Climacteric Fruits	Maria Dagalakis	ННМ
J420	The Mentos-Pepsi Explosion	Deirdre McGovern	EWM
J421	What Happens to a Muffin if You Don't Add Baking Powder and Baking Soda?	Karen Jacob	BAM
J422	Which Type of Fiber Expands the Longest?	Kemi Akinnola	BAM
J423	How Much Water Can Certain Materials Absorb?	Ohene Ofuse	SAM
Earth and	Space Science		
J601	Electro-magnatized Crystals	Thomas McHale	NBM
J602	Saltwater Buoyancy	Alexis Frager	EWM
J603	Save the Sand - Reducing Beach Erosion	Joseph Allaire	HCS
J604	Solar Storm: Understanding and Prediction	David Zhang	RCM
J605	The Earth DOES Quake as the Sun Spots! Or Does It?	Manoli Anagnostiadis	CJM
J606	The Erupting Volcano	Daniel Calderon	EWM
Engineeri	ng		
J701	Aerodynamics of Shapes	James Farace	SAA
		Nicholas Von Utter	SAA
J702	Battle of the Binders	Emma Vogel	CJM
		Rachel Margolis	CJM
J703	Bendy Buildings	Bethany Gomez	EWM
J704	Bounty Paper Towel Strength	Assoumou Diby	MLM







Project	Title of Project	Exhibitor's Name	School
J705	Building a 'Shut Up' Alarm Clock Using a Sound Activated Switch.	Russell McQueeney	ННМ
J706	Carbon Fiber Reinforcement	Nicholas Talaat	EWM
J707	Is the Accuracy of a Global Positioning System (GPS) Receiver Affected by the Number of Satellites Used?	Hannah Dario	AGM
J708	Multivariable Analysis of Factors Affecting the Strength of Electromagnets	Stuart Grosvenor	NBM
J709	Search Patterns with Lego Robotics	Sanjay Chainani	RCM
		Neil Chainani	RCM
J710	Spaghetti and Gumdrops	Timothy Roche	SAA
J711	SPEEDZ	Rasheeq Ishraq	AGM
J712	The Effect of Sodium Chloride (NaCl) Concentration on the Electrical Conductivity of Soft Drinks	Lina Valivullah	TPM
J713	The Effect of the Size of the Plates in a Capacitor on the Capacitor's Performance.	Peter Luu	RCM
J714	Type of Inulation Material vs. Cool Down Time	Amy Flores	EWM
J715	Watermills and Hydroelectric Plants	Albert Cheng	RCM
J716	When Mobile Homes Fight Back: Making Mobile Homes more Hurricane Resistant	Melodi Anahtar	TPM
J717	Wind Turbine Designs	Daniel Hyde	RCM



Human Genome Sciences is proud to sponsor

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Montgomery Area

Science Fair





Project	Title of Project	Exhibitor's Name	School
Environn	nental Sciences		
J801	An Apple A Day Can Take Daphnia Away- Evaluation of Pesticide Residue On Daphnia's Survival	Maija Mikkelsen Margaret Gratian	EWM EWM
J802	Does the Dose Make the Poison?	Miranda Lingenfelter	NBM
J803	Effect of the Surrounding Environment on the Number of Airborne Particles	Nivetita Ravi	NEM
J804	Look! See Spot Go!	Brendan Dolan	JPM
J805	The Effect of Depth on the Number of Organisms Found in a Stream	Elizabeth Axley	EWM
J806	The Effect of Rainfall on the Acidity of the Water in Kensington Creek.	Andrew Ceruzzi	NMM
J807	The Effects of Different Acidity Levels on the Corrosion of Iron	Pavleen Thukral	RCM
J808	Water Quality of Rock Creek	James Shepherdson	TPM
J809	When it Rains, it Pollutes	Doyung Lee	TPM
Mathema	atics		
J901	For Bigger Cookies, Butter Is Better!	Lauren Marple	EWM
J902	Self-Organized Criticality in Kinetic Surface Roughening: Stochastic, Nonlinear Growth far from Equilibrium	Andrew Das Sarma	TPM
J903	The Math of Monopoly: A Computer Simulation of the Probabilities Involved in Monopoly	Brina Seidel	TPM



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Quality Life Through Research

Project	Title of Project	Exhibitor's Name	School
Medicine	e and Health		
J1001	Brain Plasticity Changes in Non-Dominant Hand Dexterity Through Manual Exercise and Practice	Alison Cohen	HOA
J1002	Do Different Types of Orange Juice Contain the Same Amount of Vitamin C?	Valerie Sulureh	BAM
J1003	Spice Up Your Life	Robert Vinson	NBM
J1004	Does Anxiety From Taking An Academic Test Cause Blood Pressure and Heart Rate To Rise In 4th and 6th Graders?	Vivian Yu	HOA
J1005	Dull to White	Natiaha Hinnerichs	HOA
J1006	Effect of School Grade on Current Knowledge on Pandemic Influenza Among Middle & High School Students	Daniela Mujica	EWM
J1007	How Does Music Affect Heartrate?	Annie Zisk	NBM
J1008	Myopia: Who's Fault?	William Cai	TPM
J1009	Skin Creams: Which Ingredients Matter	Grant Fox	CJM
J1010	Study of the Correlation Between Cancer Growth and Telomerase Activity Using Chemotherapy Drugs	Shilpa Kannan	TPM
J1011	The Effect of Light and Heat on the Amount of Ascorbic Acid in Orange Juice	Ajay Kannan	TPM
J1012	The Effects of Rapid Eye Movement on Aging Eyes	Victoria Sheil	EWM
J1013	Who Has More Germs in Their Nasal Passages?	Ilanna Starr	JDS
Microbio	ology		
J1101	Got Germs?	Maddison Graham	JPM
J1102	History's Mystery: Testing Spices for Antibacterial Properties	Eric Keen	HS







Project	Title of Project	Exhibitor's Name	School
J1103	How Does Rape Seed Effect the Population of Nematodes?	Emma Luigard	TPM
J1104	How Does the Amount of Yeast in Bread Affect its Height and Mass?	Anarita Sousa	EWM
J1105	Inhibitory Effects of Different Kinds of Herbal Extracts on Bacteria	Jungel Ryu	NBM
J1106	Keep It Clean: The Dirt on Soap	Jonathan Frankle	TPM
J1107	Pond Organisms (Radiation+Frostiness)=?	Alex George Jullian Beh	AGM AGM
J1108	What Have You Been Touching?	Kai Tshikosi	EWM
J1109	How Dirty Are You?	Michelle Odgers	NBM
J1110	Study of Montgomery County Soil Microorganisms	Alexander Zhu	RCM
Physics			
J1201	A Magnetic Attraction	Eunjae Lee	CJM
		Maggie Pelta-Pauls	CJM
J1202	Analyzing the Impact of Solar Interference on Quantum Key Distribution in a Free Space Optics Environment	Pranav Gokhale	RCM
J1203	Can You Assymetrically Vent a Parachute to Produce Lift?	Christopher Silvia	PYM
J1204	Does Temperature Affect the Elasticity of Rubber?	Ryan Dunlow	SAA
		Christopher Cerullo	SAA
		John Paul Everhart	SAA
J1205	Electricity - What Acquaeous Solution Conducts the Most Current?	Nathan Poznerzon	JDS
J1206	How Do Counterweights of a Trebuchet Affect the Clay Ball's Travel Distance	Gabby Li	EWM
J1207	How Does the Kind of Surface a Ball Rolls on Affect its Speed?	Alex Becker	MLM
J1208	How will a Fuse React when it is Overloaded with Different Volts of Electricity	Nathaniel Fikru	SCL
J1209	Inertia vs. Friction	John Lee Lillibridge	NBM

Congratulations, ScienceMONTGOMERY participants -- on your work today, and on your dreams that will shape tomorrow.









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Science Fair. NIST was founded in 1901 as the federal government's first physical science laboratory and its researchers work today to advance measurement science, standards, and technology for the nation's innovation and competitiveness needs. NIST also works to encourage future scientists and engineers who will continue the tradition of scientific discovery.

The Montgomery Area Science Fair provides an opportunity each year for local high school and middle school students, teachers, parents, volunteers, and judges to come together with the business and government communities in this pursuit. We congratulate all participants and look forward to seeing, and learning from, the projects of this year's talented young scientists.

National Institute of Standards and Technology Technology Administration U.S. Department of Commerce



Project	Title of Project	Exhibitor's Name	School
J1210	Is One Rubber Band More Elastic Than Three Rubber Bands?	Kathy Zhang	BAM
J1211	It's Waaavyy!	Shaughn Phillips	SCL
J1212	Light Beyond the Wall	Ruben Carlo	EWM
J1213	Light Refraction and Wavelenghts-The Ultimate Optical Illusion	Andy Levine	TPM
J1214	Slip 'n' Slide with Friction	Lauren Kawahara	SCL
		Daniela Vitarelli	SCL
J1215	Soccer Ball Circumference vs. Kicking Distance	Kelly McTighe	EWM
J1216	Speed of Water Running Downhill	Rachel Fredman	JDS
J1217	Stoked Up About Stokes Law	Jeremy Ardanuy	AGM
J1218	Surface Tension	Christopher White	SCL
J1219	That's the Way the Ball BouncesBut Where?	Pierre Mensah	NBM
J1220	The Floating Ping-Pong Ball	Prashan Dharmasena	EWM
J1221	Truss Bridge Designs	Elena Choong	SCL
J1222	Vibrations of Four Mechanical Oscillators	Vivek Sen	NBM



Pepper Buckley, Ph.D. Licensed Psychologist Potomac, MD (301) 987-7278 Adults, children, families

Congratulations to all students exhibiting their work at this celebration of science, and to the volunteers, judges, parents, science teachers, mentors and sponsors whose gifts of time, knowledge, guidance, support and excitement shaped this

ScienceMONTGOMERY, 2007



Exhibits in the Senior Division, Grades 9-12

Project	Title of Project	Exhibitor's Name	School
Behavior	al and Social Sciences		
S101	A Small Dose of Peer Pressure	Victoria Stout	SWH
		Indunil Rajapakse	SWH
S102	Age v. Choice of references	Robyn Allen	SWH
S103	As I Look Into My Crystal Ball	Saman Farshori	SWH
S104	Colour VS. Weather	Laura Portillo	SWH
		Kira Bursaw	SWH
S105	Detecting Deceit	Erick Alves de Sa	SWH
		Ryan Chiang	SWH
		Patrick Young	SWH
S106	Disgust: Inate or Learned?	Donna Gatesman	SWH
		Michaela Hyams	SWH
S107	Do Opposites Really Attract?	Jamie Kuchinski	SWH
		Lindsey Lund	SWH
		Kimberly Gazenski	SWH
S108	Do The Stars Have Eyes?	Alissa Katz	SWH
S109	DRIVING WHILE DISTRACTED: The Effect of Cell Phone Use on Male and Female Drivers	Abigail Klein	ВСН
S110	Five More Minutes, Please!	Kristen Clemente	SWH
		Michael Packer	SWH
S111	Gender Fender	Joshua Alley	SWH
S112	Go To Sleep!	Holly Badin	SWH
		Minh-Huy Huynh	SWH
S113	Have You Got Game?	Alyssa Cronin	SWH
		Steven Walsh	SWH
		Julie Richardson	SWH
S114	I Don't Want to Copy That Again!	Kayleigh Mencia	SWH
S115	Is It In You?	Lauren Hadley	SWH
		Erin Stout	SWH
S116	Juvenile Curiosity: Male vs. Female	Eunice So	SWH
		Semi Jang	SWH
S117	Memory and Reaction	Adam Mayhew	SWH
		Amanda Bulitt	SWH
S118	Red vs. Red	Gurleen Kaur	SWH
		Neeta Balram	SWH
		Dhara Shah	SWH
S119	Remember to Remember	Akash Dhila	SWH
		Justin Rosenthal	SWH



Project	Title of Project	Exhibitor's Name	School
S120	Subliminal Imaging	Caiti Lewis	SWH
		Jeffrey Moy	SWH
S121	The Effects of Sleep Deprivation on Language	Samuel Wagner	BCH
S122	The Force Be With You	Adam Wilkinson	SWH
		Chris Barnard	SWH
S123	The Mystery of Subliminal Messages	Christine Barry	SWH
		Kayoung Kim	SWH
S124	Twins	Susan Henson	SWH
		Sarah Henson	SWH
		Lauren Schreib	SWH
S125	Watchers, Talkers, and Doers	Danielle Rich	SWH
S126	Yes! A Test?	Samra Arshed	SWH
		Jordan Feld	SWH
		Jessica Matta	SWH
Biochem	istry		
S201	A Five Residue Amino Acid Sequence Predicts Na+/H+ Exchanger Membrane Localization	David Chen	WWH
S202	A Mutation on Chromosome 11 Causes Congenital Heart Disease and Limb and Heart Defects.	Tania Chatterjee	MGH



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Project	Title of Project	Exhibitor's Name	School
S203	CO2 Concentration in Water and its Effect on the Growth Rate of the Algal Cyanobacteria Lyngbya	Quratul-Ann Malik Darrin Barry David Gaynor	WMH WMH WMH
S204	Effect of Ultra Violet Light on Regeneration Ability of Dugesia tigrina Phenotypically and Genotypically	Abhinav Ettyreddy	WHO
S205	Effectiveness of Lactaid (Lactase Enzyme) In Relation To Temperature	Lexi Williams Jessica Malloy Richa Kalsi	BCH BCH BCH
S206	Effects of Gata1 Mutations on Danio rerio Hematopoiesis	Anthony Burnetti	BLH
S207	Exploring the Characteristics of Known SNPs in the ADAMTS13 Gene	William Plum	SVH
S208	The Identification of Chromatin Domains Interacting with the Hox Gene Clusters by a Novel Genome-wide Approach	Victoria Yao	BLH
Botany			
S301	Beverages Affect on Plant Growth	Andrew Axthelm	BCH
S302	Cuttin' Those Roots:A Study of Growth Hormones	Lorrin Barton	SWH
S303	Do Plants Need Sweatbands?	Carrie Irvin	SWH
		Jenna Wade	SWH
		Corinne Cusick	SWH
S304	Plant Height vs. Spacing	Andrew Haddad	SWH
		Michael Kim	SWH
		Jason Glass	SWH
S305	Plant Nutrients and pH	Gabriela Acierno	SWH
S306	The Effects of Natural Herbicides on Weeds and Insects	Aleah Bowie	BCH
S307	The Validity of Hormesis: the Effects of Zinc Chloride on Zea mays var. rugosa	Christine Sun Steven Zhang	WHO WHO

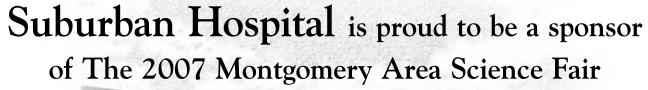






Project	Title of Project	Exhibitor's Name	School
Chemistr	y		
S401	Redesigning the High Powered Aluminum Air Fuel Cell	Sridar Ravi	WMH
S402	The Chemistry of Hair Care	Danielle Romano	SWH
S403	Trap Of Death	Ryan Bonhag	SWH
		Rachel Smith	SWH
		Matthew Svilar	SWH
S404	Yeast Reproduction in Sugar Substitutes	Rajat Shivacharan	WMH
Compute	r Science		
S501	Application of Evolutionary Principles to Non-Biological Problems	Joe Levy	BCH
		Nick Latourette	BCH
S502	Approximating Graph Isomorphism	Joshua Yanovski	BLH
S503	Stoichiometry & Reaction Predictor Created Using Visual Basic	Thomas Erickson	BCH
	Language	Nikolas Theiss	BCH
		Alex Friedman	ВСН
Earth and	Space Science		
S601	Cluster Analysis of Magnetosphere Behavior Under Various Solar Wind and Interplanetary Magnetic Field Conditions	Hailiu Yang	BLH
S602	Determining a Value for Gravity with an Accuracy of Ten Parts-per- billion for the Electronic Kilogram Experiment	Beatrice Parker	ВСН
S603	Orbital Decay of ST5 Spacecrafts	Ted Glickman	BCH
S604	Which is More Effective for a City Layout: a Grid or a Circular One?	Leila Alapour	ВСН
Engineeri	ng		
S701	A Computer Model of Flapping Wing Dynamics	Louis Wu	BLH
S702	An Environmentally Friendly Hydroelectric Dam	Andrea Vaught	BCH
		Om'anand Tiwari	BCH
S703	Can You Hear Me Now?	Laura Giannola	SWH
S704	Development and Testing of a Novel Ultrafast Magnetic Resonance Imaging (MRI) Method	Nicolas Bax	SAS
S706	Effect of DifferentTYpes of Gas-Filled Bulbs and their Brightness on the Speed of a Solar-Powered Vehicle	Nicky Arya	ВСН
S707	Effect of Winglets on the Lift and Drag Characteristics of a Model Airplane	A. Yashodhara Rao	WWH
S708	Near Field Flow Structures of Jets in Cross Flow	Yi An Sun	BLH
S709	Optimization of Airfoil Design	Max Valenstein	ВСН
S710	The Correlation Between a Fan's Angle and its RPM and Electricity Generation	Hamin Jeon	QOH
S711	The Effect of Speaker Box Material on Subwoofer Sound Quality	Simon Mait	ВСН

Project	Title of Project	Exhibitor's Name	School
Environm	nental Sciences		
S801	Effects of 17alpha-ethinylestradiol on Male Competitive Courtship Behaviors and Secondary Sexual Characteristics in Fathead Minnows (Pimephales promelas)	Jordyn Wolfand	BLH
S802	Effects of Drastic Climate Change on Water Plants	James Fantom	BCH
		James Roach	BCH
S803	Fruit Vs. Vegetable Compost	Rebecca Kim	SWH
		Lauren Wert	SWH
S804	Improvement of a Single-Chamber Microbial Fuel Cell Utilizing a Novel Concept for a Hydrophobic Coating at the Cathode and the Incorporation of Graphite Granules at the Anode Electrode	Sikandar Porter-Gill	GBH
S805	Parasitic Crawling Vines And Their Impact On Native Flora, Iteration Two	David Tao	BLH
S806	Parental Awareness of Potential Sources of Bisphenol-A	Melissa Truong	BLH
S807	Theoretical Extensions of Global Nutrient Loading Misrepresentation Phenomena	Katherine Perino Anna Ralchenko	QOH QOH
S808	Water Quality of an Urban Tributary	Frances Jaffe	BCH







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Project	Title of Project	Exhibitor's Name	School
Mathem	atics		
S901	Finite Groups with p2-1 Elements of Order p	Brian Lawrence	BLH
S902	Mathematical Modeling of Driving Patterns to Achieve the Best Fuel Efficiency	Eric Chen	СНН
S903	Statistical Landscape of a Divided Congress	Jeremy Lent	SWH
S904	The Non-Attacking Games for Rooks, Bishops, and Knights	Paul Kominers	WWH
Medicin	e and Health		
S1001	A Change Of Heart	Ankita Patel	SWH
		Kristen Santos	SWH
S1002	A New Tool for Studying Conformational Changes of ADAMTS13 with Implications for TTP Patients	Tanvi Gupta	RMH
S1003	An Analysis of Data on Children With Type 1 Diabetes in Ecuador	Paul Ervin	BCH
S1004	Can You It?	Stephanie Prakash	SWH
S1005	Holy Spit	Erin Magee	SWH
		Sheelagh Bates	SWH
		Kristin Nelson	SWH
S1006	In Vivo Analysis of the Effects of Adenovirus Protein E1A on Thyroid Hormone Receptor Function	Andrew Ding	BLH
S1007	Manipulating Boron Neutron Capture Therapy	Melody Alsheikhly	CHH
		Shanika Fernando	CHH
S1008	Protein Levels in Athletes' Urine	Ashley Myers	SWH
S1009	The Effect of Drugs That Reduce the Intercellular Reactive Oxygen Species Levels in Cancer Cells	Rashmi Singh	СНН
S1011	Trimethylxantine	Sarah Seggel	SWH
S1012	VEGF and Alpha-SMA Levels in Herniated and Statically Loaded in Vivo Murine Intervertebral Discs	Chuncong Du	BLH
S1013	Why Not Rethink Those Blasting Headphones?	Zahra Farshneshani	SWH
		Sara Kanwal	SWH
Microbio	ology		
S1101	Dilution Solubility Tests Of Various Antibiotics On Synthetically Engineered Resistant Bacteria	Shima Gholamimeh- rabadi	MCS
S1102	Effect of Centrifugation on The Viability of Filamentous Green Algae	Abraham Chaibi	ВСН
S1103	The Effect of Green Tea Polyphenols on Levels of Nucleotide Excision Repair Gene Expression in and Survival Rate of Dictyostelium discoideum	Lillian Tsai	СНН
S1104	Wrestling with Microorganisms	Jack Latourette	ВСН



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Project	Title of Project	Exhibitor's Name	School
Physics			
S1201	A Simulation of the Optical Properties of a SiO2/Si System	Caleb Fan	BLH
S1202	Aerodynamics	Jason Galginaitis	SWH
	•	Tony Siegel	SWH
S1203	Battle of the Battery Brands	Suzy Djampouop	SWH
S1204	Can You Hit This?	Erin Ryan	SWH
		Ned Zimmerman	SWH
		Kenneth Malloy	SWH
S1205	Catch This One!	Whitney Kendall	SWH
		Aubrey Mirkin	SWH
S1206	Curie Effect	Greg Daines	BCH
S1207	Driving on Sunshine	Vivian Kumbi	SWH
S1208	Dynamics of Particle Avalanches in Relation to Water content	William Sinclair	BCH
S1209	Iridescence in Butterflies	Amanda Grossman	SWH
S1210	'Lectric Liquids	John McGinty	SWH
S1211	Magnetic Effects on Light	Earl Smith	WWH
S1212	Microstructure Property Simulations for Low Thermal Expansion Ceramic Composites	Andrew Durnford	BLH
S1213	Modeling the Dynamics of Excitons in Semiconductor Quantum Dot Arrays	Cyril Lan	BLH
S1214	Modeling the Electro-Elastic Behavior of Actuating Artificial Muscles	George Michopoulos	BCH
S1215	Nose Job	Adam Miller	SWH
		Matt Miller	SWH
		Jacob Krupsaw	SWH
S1216	N-tangling the Newtonian N-body Nebulosity	Jacob Hurwitz	BLH
S1217	Physical Basis of Correlation in Bubble Collapse	Konrad Slepoy	WWH
S1218	The Effect of the Electromagnetic Spectrum of Radiation on a Mass	Eric Dewhirst	SWH
S1219	The Effect of Weather and Material on a Catapults Projectile Distance	Jeremy Melmed Paul Hogan	BCH BCH
Zoology			
S1301	Sexual Hang-Up	Ashley Wire	SWH
		Lynea Witczak	SWH
S1302	Trout: A Study of the small streams of Maryland	William Hazzard	ВСН
S1303	Ur-ine Luck: Sniff These Proteins	Erin Heap	SWH
		Teresa Joseph	SWH



National Capital Optimist Club

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Club is a voluntary organization
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The Montgomery Area Science Fair Association is the organizational vehicle for the annual county science fair, *ScienceMONTGOMERY*, for public, parochial and private schools students in Montgomery County, MD.

The goals of the Association are to:

- Encourage students to explore science through experimentation and to present their results.
- Produce a top quality, annual science fair.
- Raise funds to conduct the fair through personal and corporate contributions.
- Provide for the top high school winners to attend the Intel International Science and Engineering Fair.

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