

Physics Day at Lagoon 2014

The twenty-fifth annual Utah State University Physics Day at Lagoon was held on May 16. This year Idaho National Lab (INL) and the USU Physics Department teamed to coordinate and run the event. There were approximately 8350 students and 535 teachers & chaperones from 128 schools in four states [Utah, Idaho, Nevada and Wyoming] who attended.

Event	High Schools	Middle Schools/ Junior High Schools
Physics Bowl	19 Teams, 55 Students	1 Teams, 4 Students
Smart Phone	1 Teams, 1 Students	3 Team, 4 Students
G-forces Contest	30 Teams, 55 Students	109 Teams, 174 Students
Demonstration Design Contest	40 Entries, 58 Students	12 Entries, 17 Students
Ride Design Contest	18 Entries, 32 Students	36 Entries, 67 Students
Logo Design Contest	109 Entries, 161 Students	134 Entries, 168 Students
Student Workbooks	28 Schools, 1155 Students	23 Schools, 889 Students
Sky Drop Contest	96 Entries, 162 Students,	420 Entries, 681 Students,
Total Contest Participation (Numbers in the table reflect actual registration. Because registration is not required, these are a low estimate in participation.)	1676 Participants	2004 Participants
Totals Registered	53 Schools - 118 Teachers & 97 Chaperones 3233 Students	57 Schools – 101 Teachers & 89 Chaperones 4758 Students
Elementary Schools (Mindstorms)	15 Schools – 40 Teachers & 93 Chaperones 403 Students	
Grand Total	128 Schools 253 Teachers & 282 Chaperones 8350 Students	

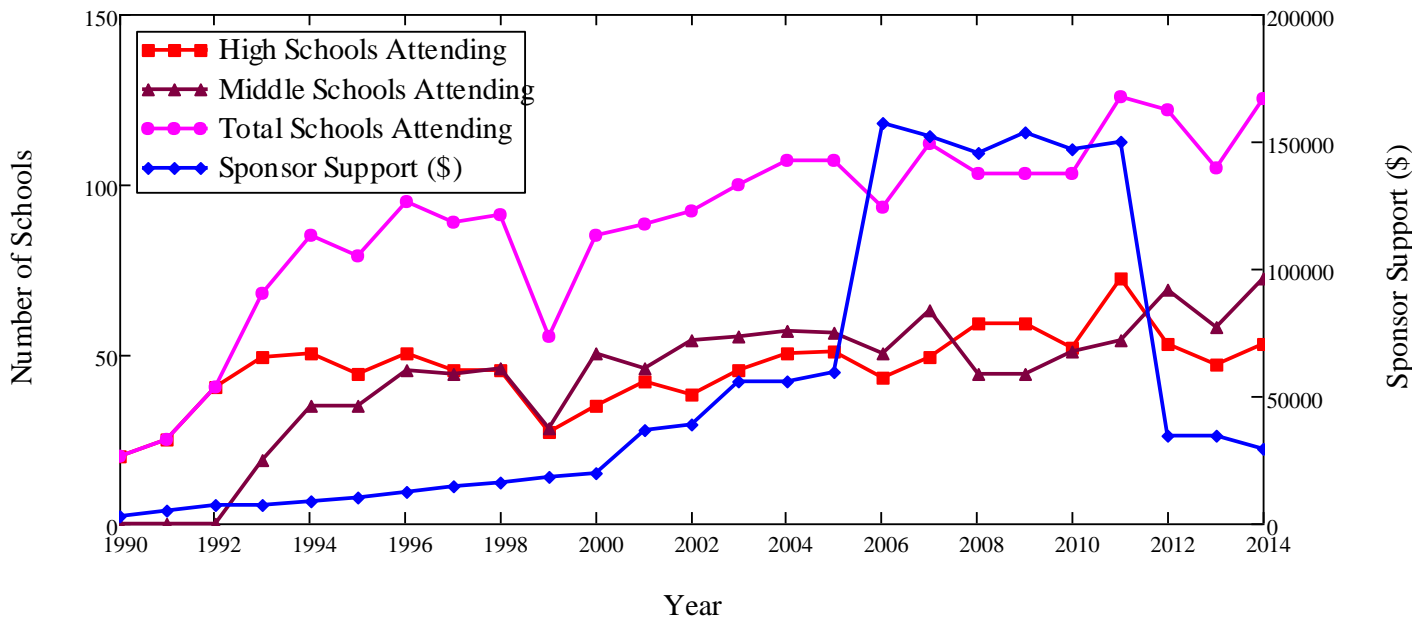
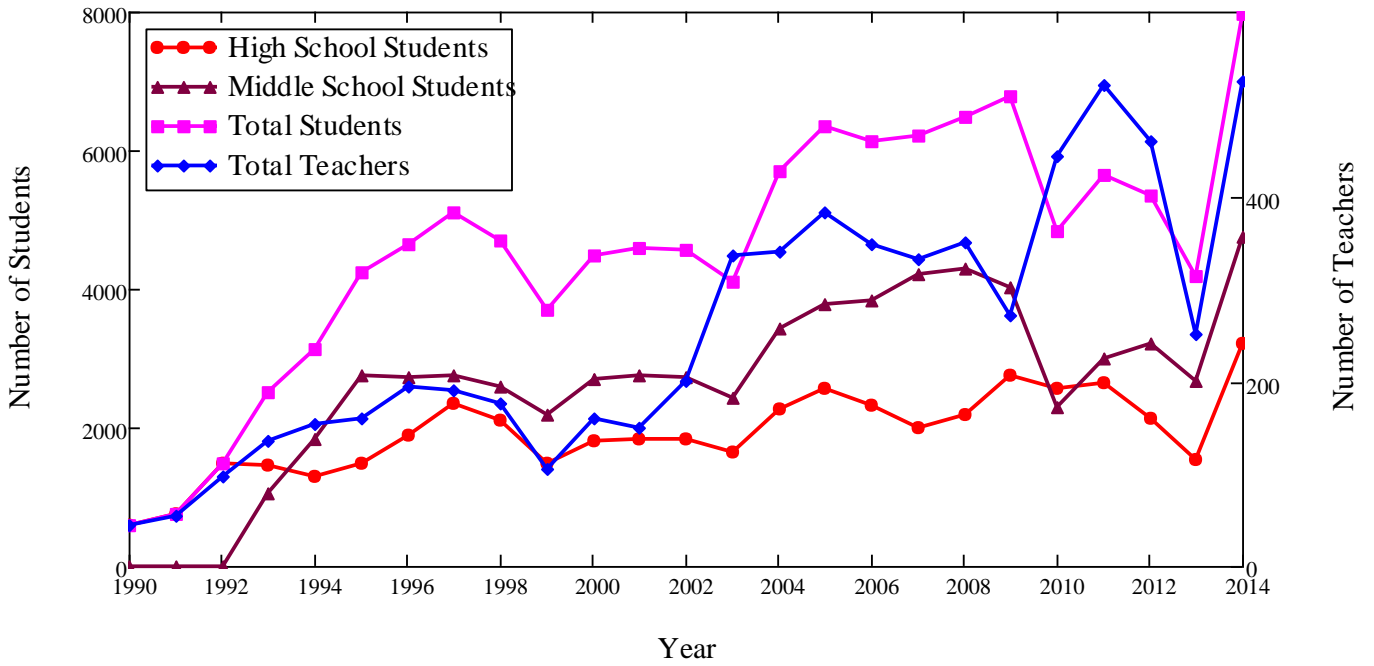
It took 269 people to run Physics day at Lagoon. 79 faculty, staff, and students from the USU Physics Department, 11 Students and Faculty from SLCC, 7 INL staff, and about 94 additional judges and helpers other sponsoring agencies were on hand to assist with registration, organization and contest judging. 39 faculty, staff, and students from USU College of Science and USOE helped run MESA's State Final Competition. 57 volunteers from Boeing and the community helped run Mindstorm's Lego Competition. There was an estimated \$11,000 *in prizes awarded this year, in addition to as much as \$18,000 in scholarships to USU.*

Sponsors of USU Physics Day at Lagoon include: Aerostructures, Apogee Instruments, ATK, Autonomous Solutions, Boeing, Exelis, Hill Air Force Base STEM Outreach Program, IM Flash Technologies, Lagoon, Micron, Ophir Spiricon, Parker-Hannifin Aerospace, Portage Environment, Utah NASA Space Grant Consortium, US Navy, Utah and Idaho Virtual Academies, USU College of Science, USU Emma Eccles Jones College of Education & Human Resources, USU Research Foundation, USU Space Dynamics Laboratory, USU Admissions, and WyTricity.

Television coverage from Fox 13 in Salt Lake City provided Live footage on their noon news and very nice spots on their evening news of the event. Video crews from Utah State University and the Utah State Office of Education filmed the event for special features. The Deseret News, Salt Lake Tribune, Ogden Standard Examiner, and the Davis Clipper also had nice stories to cover the event. USU Today, the USU College of

Science, the USU Physics Department, the USU Emma Eccles Jones College of Education and Human Services, Utah Public Education.Org, web sites had features on the event.

Participation at Physics Day at Lagoon



Summary of Purchases

Number	Item	Vendor	Date	Cost
1	Prizes	Can You Imagine	4/23	\$372.00
2	Prizes	Flow Toys	4/24	\$734.00
3	T-Shirts	Badger Printing	2/25	\$2495.00
4	T-Shirt Order #2	Badger Printing	5/07	\$ 312.77
5	Prizes	Westminster	4/25	\$214.69
6	Balances & scissors	Harbor Freight	5/14	\$ 70.95
7	Supplies- Eggs	Smiths	5/14	\$ 183.70
8	Supplies -	Fed Ex	5/15	\$105.05
9	Supplies	Staples	5/05	\$ 54.27
10	Supplies	Home Depot	5/14	\$98.73
11	Supplies	Engineering Lab	5/15	\$330.00
12	Shipping	Distribution		\$ 187.46
13	Shipping	PDP		\$961.02
14	Supplies - Easels	Amazon.com	3/29	\$ 186.54
15	Supplies - Plexiglas	McMaster-Carr	3/29	\$ 290.
16	Website Maintenance	Paul Brunson	#	\$ 0 (est)
17	Development	Kristen Burns	#	\$ 500
18	Development	Stephannie Peterson	#	\$750
19	Event Coordinator	Milo Maughan		\$ 1000 (est)
	T-Shirts - Post Order	Badger Printing	#	\$ 200 (est)
	Total Purchases			\$8846.18 (est)

Not yet spent.

Summary of Sponsor Cash Contributions

Number	Item	Source	Date	Income
1	Contribution for prizes	USU College of Science	7/6	\$ 750.00
2	Contribution for t-shirts	Boeing Corp.		\$ 0.00
3	Contributions for operations	Lagoon	*	\$ 5000.00
4	Contribution for prizes	UNSGC	3/11	\$ 500.00
6	Contribution for prizes	ATK Launch Systems (Thiokol)	* (half 5/20)	\$ 500.00
7	Contribution for prizes	USU College of Education	*	\$ 600.00
8	Contribution for prizes	INL(BEA)	4/11	\$ 500.00
9	Contribution for prizes	Marie Putnam	2/7	\$ 1500.00
10	Contribution for prizes	IM Flash Technologies (Micron)	4/11	\$ 0.00
11	Contribution for prizes	Apogee	4/20	\$ 200.00
12	Contribution for prizes	SDL		\$ 1500.00
13		EIRMC		\$
14		Idaho NSGC		\$
15		Mathsoft		
16		Aerospace Heritage Foundation of Utah		
17		Moog Aircraft		
18		William Fletcher	3/1	
	Total Cash Contributions Received			\$3700.00+\$1500.00
	Total Cash Committed and/or Received			\$11050.00

* Support committed, but not yet received.

Contest Winners

Physics Bowl

1st Place

Carly Taylor, Angelica Previte, Krystal Matheson
Weber High School
Advisor: Julie Wilder

2nd Place

Madelene Caldwell, Chris Dahlkamp, Zach Warrell
Juan Diego Catholic High School
Advisor: Philip Manley

3rd Place

Mahala Sakaeda, Jake Hillard, Rachel Remere
Academy for Math, Engineering and Science
Advisor: Douglas Hendricks

4th Place

Edward Nawakawski, Christopher Lundquist, Justen Gardner
Alta High School
Justin Matagi

Sky Drop

High School

1st Place

Shawn Cherry & Khalil Reed
George Washington High School

2nd Place

David Duffin & Matt Kirby
Alta High School
Advisor: Justin Matagi

3rd Place

Issac Ferguson & Ashley Schiz
Herriman High School
Advisor: Matthew Lund

Middle School

1st Place

Audrey Goyce
Good Foundations Academy
Advisor: Susan Goers

2nd Place

JD Cunningham & Bridget Bird
Bountiful Junior High School
Advisor: Becky Dunleavy & Bart
Nelson

3rd Place

Ramses Reyesbr
Centennial Middle School
Advisor: Deborah Herbert

4th Place

Barrett Jessop
Churchhill Junior High School
Advisor: Jessica Hartvigsen

Demo Design

Utah High School

1st Place

Hanna Sullivan, Adam Martin, Gabi Ferguson
Lone Peak High School
Advisor: Matt Bell

2nd Place

Daniel Davis & Dirk Hull
Lone Peak High School
Advisor: Matt Bell

3rd Place

Adam Hill
InTech Collegiate High School

Idaho High School

1st Place

Annie Maugham, Rachel Vance
Compass Academy
Advisor: Shannon Taylor

2nd Place

Mery McMullen
Idaho Falls High School
Advisor: Karen Laitinen

3rd Place

Andrew Johnson
Compass Academy
Advisor: Shannon Taylor

Ride Design

High School

1st Place

Maurk Hogan, Ashlyn Robinson, Damen Wiltshire
InTech Collegiate High School

2nd Place

Olivia Flores, Colton Hills, Cannen Jacome
Intech Collegiate High School

3rd Place

Noa Bauman
City Academy
Advisor: Marc S Millard

Middle School

1st Place

Nikky Fraser, Emma Southerland
Bountiful Jr. High
Advisor: Becky Dunleary

2nd Place

Jacob Frausto
Oquirrh Hills Junior High School
Advisor: Carly Stirland

3rd Place

Joseph Morrell
Bountiful Jr. High
Advisor: Becky Dunleavy

G-Forces

High School

1st Place

Marcus, Mason, Skileigh, Hadleigh
Burley High School
Advisor: Mrs. Carson

2nd Place

Riley, Maycee, Lauren, Julia
Burley High School
Advisor: Mrs. Carson

3rd Place

Brey, Justin, Berk
Burley High School
Advisor: Mrs. Carson

Middle School

1st Place

Zoe, Bella, Payeie
Churchhill Jr. High School
Advisor: Jessica Hartvigsen

2nd Place

Emily, Paige, Sarah, Rilley
Churchhill Jr. High School
Advisor: Jessica Hartvigsen

3rd Place

Amanda Franco
Churchhill Jr. High School
Advisor: Jessica Hartvigsen

Logo Design

High School

1st Place

Taylor Kim
AMES
Advisor: Doug Hendricks

2nd Place

Sasha Choi
Alta Peak High School
Advisor: Mr. Leininger

3rd Place

Brenne Wilcox
Lone Peak High School
Advisor: Mrs. Riet

Middle School

1st Place

Sadie Jensen
South Cache Jr. High
Advisor: Mr. MacMurdo

2nd Place

Brendan Giles
South Hills Middle High
Advisor: Talley

3rd Place

Princess Paloa
Bountiful Jr. High School
Advisor: Dunleavy

Smart Phone

High School

1st Place

Hayden Cannon
Lone Peak High School

Middle School

1st Place

Treydn Fitzwater
Legacy Jr. High School
Advisor: Mr. Illum

2nd Place

Kirby Lish and Spencer Silva
Legacy Jr. High School
Advisor: Mr. Illum

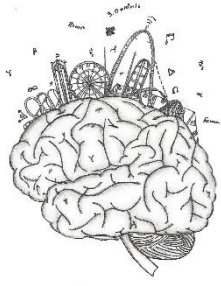
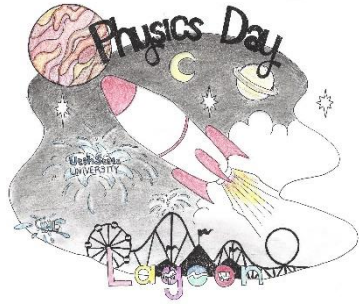
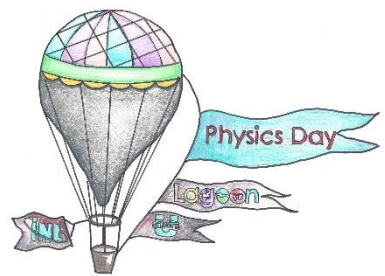
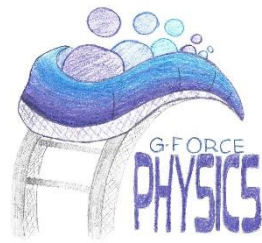
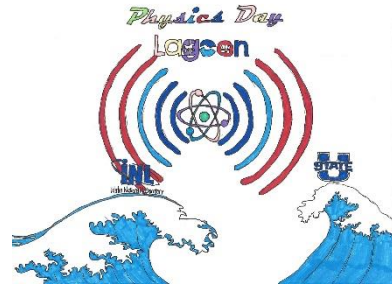
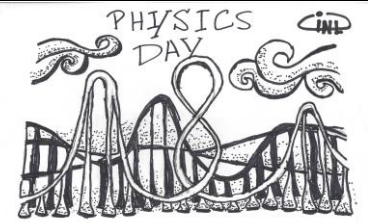
Curriculum

1st Place

Emma Chandler

SLC Center for Science Ed

Logo Design

High School		
1st Place	2nd Place	3rd Place
 <p>THIS IS YOUR BRAIN ON PHYSICS DAY AT LAGOON</p>	 <p>Physics Day UNIVERSITY Lagoon</p>	 <p>Physics Day Lagoon INL</p>
Middle School		
1st Place	2nd Place	3rd Place
 <p>G-FORCE PHYSICS Lagoon VSU INL</p>	 <p>Physics Day Lagoon INL STATE</p>	 <p>PHYSICS DAY USU LAGOON</p>