Physics Day at Lagoon 2012

The twenty-third annual Utah State University Physics Day at Lagoon was held on May 18. This year Idaho National Lab (INL) and the USU Physics Department teamed to coordinate and run the event. There were approximately 5579 students and 530 teachers & chaperones from schools in four states [Utah, Idaho, Nevada and Wyoming] who attended.

<table>
<thead>
<tr>
<th>Event</th>
<th>High Schools</th>
<th>Middle Schools/ Junior High Schools</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physics Bowl</td>
<td>24 Teams, 72 Students</td>
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<tr>
<td>Smart Phone</td>
<td>0 Teams, 0 Students</td>
<td>1 Team, 3 Students</td>
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<tr>
<td>G-forces Contest</td>
<td>5 Teams, 8 Students</td>
<td>51 Teams, 224 Students</td>
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<tr>
<td>Demonstration Design Contest</td>
<td>10 Entries, 20 Students*</td>
<td>14 Entries, 28 Students*</td>
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<tr>
<td>Ride Design Contest</td>
<td>10 Entries, 20 Students*</td>
<td>30 Entries, 60 Students*</td>
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<tr>
<td>Logo Design Contest</td>
<td>55 Entries, 67 Students</td>
<td>136 Entries, 155 Students</td>
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<tr>
<td>Student Workbooks</td>
<td>6 Schools, 100 Students</td>
<td>4 Schools, 50 Students</td>
</tr>
<tr>
<td>Sky Drop Contest</td>
<td>113 Entries, 172 Students,</td>
<td>177 Entries, 278 Students,</td>
</tr>
<tr>
<td>Total Contest Participation</td>
<td>459 Participants</td>
<td>728 Participants</td>
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</table>

Totals Registered
(Numbers in the table reflect actual registration. Because registration is not required, these are a low estimate in participation.)

<table>
<thead>
<tr>
<th></th>
<th>Schools - 53</th>
<th>199 Teachers &amp; Chaperones</th>
<th>2130 Students</th>
<th>Schools – 69</th>
<th>262 Teachers &amp; Chaperones</th>
<th>3209 Students</th>
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</thead>
<tbody>
<tr>
<td>Elementary Schools (Mindstorms)</td>
<td>Schools – 10</td>
<td>69 Teachers &amp; Chaperones</td>
<td>240 Students</td>
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<tr>
<td>Grand Total</td>
<td>Schools 132</td>
<td>530 Teachers &amp; Chaperones</td>
<td>5579 Students</td>
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*Estimated

It took 265 people to run Physics day at Lagoon. 121 faculty, staff, and students from the USU Physics Department, 23 Students and Faculty from SLCC, 6 INL staff, and about 32 additional judges and helpers other sponsoring agencies were on hand to assist with registration, organization and contest judging. 47 faculty, staff, and students from USU College of Science and USOE helped run MESA’s Wind Energy Challenge. 42 volunteers from Boeing and the community helped run Mindstorm’s Lego Competition. There was an estimated $31,851 in prizes awarded this year, in addition to as much as $18,000 in scholarships to USU. Sponsors included IM Flash Technologies, Lagoon, Boeing, ATK, INL, Hill AFB, Navy, Portage, Marie Putnam, BEA, USU College of Science, USU Bookstore, and USU Admissions Office.

Television coverage from KSL and Fox 13 in Salt Lake City provided very nice spots on the evening news of the event. The Davis County School and the Ogden Standard Examiner also had nice stories to cover the event.
Participation at Physics Day at Lagoon
### Summary of Sponsor Prizes Awarded

<table>
<thead>
<tr>
<th>Sponsor</th>
<th>Items</th>
<th>Quantity Awarded</th>
<th>Unit Price</th>
<th>Total Dollar Value</th>
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<td>Lagoon</td>
<td>Season Passes</td>
<td>10</td>
<td>$103.00</td>
<td>$1,030</td>
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<tr>
<td>Lagoon</td>
<td>Day Passes</td>
<td>137</td>
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<tr>
<td>Boeing</td>
<td>Planes</td>
<td>100</td>
<td>$0.25*</td>
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<tr>
<td>Boeing</td>
<td>Pens</td>
<td>100</td>
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<td>Navy</td>
<td>Stress Balls</td>
<td>20</td>
<td>$2.00*</td>
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<tr>
<td>USU High School Relations</td>
<td>Stipend</td>
<td>3</td>
<td>$2000</td>
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<tr>
<td>USU High School Relations</td>
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<td>Hill AFB</td>
<td>Bookbags</td>
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<td>$4.00*</td>
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Total Prizes: $25,309.00

* Estimated value.  # Committed.
### Summary of Purchases

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<td>Can You Imagine</td>
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<td>Westminster</td>
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<td>Prizes</td>
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<td>Supplies- Eggs</td>
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<td>Website Maintenance</td>
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<td>Kristen Burns</td>
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<td>17</td>
<td>T-Shirts</td>
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|               |               |                   |       | $11838.44|

#  Not yet spent.
## Summary of Sponsor Cash Contributions

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<td>Contribution for prizes</td>
<td>USU College of Science</td>
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<td>Contribution for t-shirts</td>
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<td>Contributions for operations</td>
<td>Lagoon</td>
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<td>Contribution for prizes</td>
<td>RMNSGC</td>
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<td>ATK Launch Systems (Thiokol)</td>
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<td>INL(BEA)</td>
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<td>Moog Aircraft</td>
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<td>Total Cash Contributions Received</td>
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<td>Total Cash Committed and/or Received</td>
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* Support committed, but not yet received.
Contest Winners

Physics Bowl

1st Place
Trevor Hullinger, Jordan Miller, Michael Nelson
Lone Peak High School
Advisor: Tom Erekson

2nd Place
Isaac Robertson, Jenica Jesson, Christian Lambert
Riverton High School
Advisor: Lisa Craig

3rd Place
Malcom Easton, James Fullmer, Jared Green
Cyprus High School
Advisor: Iucker

4th Place
Cody Cortells, Steffan Sowards, Kyle Johnsen
Olympus High School
Advisor: Todd Summerhayes

Sky Drop

High School

1st Place
Eduardo Ortiz
Logan High School
Advisor: Chelsea Parrish

2nd Place
Anna Galura & Michael Butler
Herriman High School
Advisor: Tony Romanello

3rd Place
Alyssa Clark & Matt Easton
Brighton High School
Advisor: Melissa Usher

Middle School

1st Place
Simon Acosta
Mount Jordan Middle School
Advisor: Carla Coleman

2nd Place
Breanna Taylor & SaBree Hansen
Legacy Jr. High
Advisor: Bruce Illum

3rd Place
Grace Campbell
Good Foundations Academy
Advisor: Susan Goers
Demo Design

1st Place
Heide Barrie & Lance Good
Eagle Rock JHS
Advisor: Kristin Hadley

Marcus Marlette
Eagle Rock JHS
Advisor: Kristin Hadley

2nd Place
Christopher Hawkins & Matt Fuller
Kaysville JHS
Advisor: Mark Tolman

Courtney Beckett
Eagle Rock JHS
Advisor: Kristin Hadley

3rd Place
Silas Wright & Ricky West
Taylorsville JHS
Advisor: Miles

Tara Free
Eagle Rock JHS
Advisor: Kristin Hadley

Ride Design

High School

1st Place
Ashley Kennedy & Megan Weiss
City Academy
Advisor: Usha Narra

Johny Schmidt & Deheb Burgoyne
Bountiful Jr. High
Advisor: Becky Dunleavy

2nd Place
Shannon Wells & Diego Garcia
City Academy
Advisor: Usha Narra

Brock Allen
Bountiful Jr. High
Advisor: Becky Dunleavy

3rd Place
Naomi Clements & Ana Laura Licon
Intech High School
Advisor: Stephanie Kawamura

Sam Smith & Kevin Plaizier
Bountiful Jr. High
Advisor: Becky Dunleavy

Middle School

1st Place
Ashley Kennedy & Megan Weiss
City Academy
Advisor: Usha Narra

Johny Schmidt & Deheb Burgoyne
Bountiful Jr. High
Advisor: Becky Dunleavy

2nd Place
Shannon Wells & Diego Garcia
City Academy
Advisor: Usha Narra

Brock Allen
Bountiful Jr. High
Advisor: Becky Dunleavy

3rd Place
Naomi Clements & Ana Laura Licon
Intech High School
Advisor: Stephanie Kawamura

Sam Smith & Kevin Plaizier
Bountiful Jr. High
Advisor: Becky Dunleavy
G-Forces

High School
1st Place
Camilla Triana
InTech High School
Advisor: Stephanie Kawamura

2nd Place
Jackie Hamblen, Collin Martin, Dave Carver, Abby Hutchinson
Burley High School
Advisor: Carrie Carson

3rd Place
MaKay Gerrat, Aren Anderson, Connor Beck, Kadan Ward
Burley High School
Advisor: Carrie Carson

Middle School
1st Place
Ducan Allred, Jacob Meshev, Dillon Wheelock
Churchill Jr High
Advisor: Brian Lestarge

2nd Place
Cade Peterson, Tyler Dearss, Chris Hunt, Jacob Murphy
Churchill Jr High
Advisor: Brian Lestarge

3rd Place
Adam Tingey, Carson Wilde, Spencer Call, Parker Jensen
Churchill Jr High
Advisor: Brian Lestarge

Logo Design

High School
1st Place
Michelle Tran
Ames High School
Advisor: Monica Carlson

2nd Place
Spencer Lehr
Box Elder High School
Advisor: Emma Smith

3rd Place
Valarie Vargas
Horizonte High School
Advisor: Susan McFarland

Middle School
1st Place
McKenna Barrett
Legacy Jr. High
Advisor: Bruce Illom

2nd Place
Isabelle Crosby
Kaysville Jr. High
Advisor: Alex Tolman

3rd Place
Kristi Kaptien & Anna Pretzer
Taylorsville Jr High
Advisor: Joseph Timchak

Smart Phone

Matt Easton, Alyssa Clark, & Liza Jarman
Brighton High School
Advisor: Sarah Carlson
<table>
<thead>
<tr>
<th></th>
<th>1&lt;sup&gt;st&lt;/sup&gt; Place</th>
<th>2&lt;sup&gt;nd&lt;/sup&gt; Place</th>
<th>3&lt;sup&gt;rd&lt;/sup&gt; Place</th>
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<tbody>
<tr>
<td><strong>High School</strong></td>
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<tr>
<td>Physics U</td>
<td><img src="image1" alt="Physics U" /></td>
<td><img src="image2" alt="Physics 2012 Utah State INL" /></td>
<td><img src="image3" alt="Physics Logo" /></td>
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