

## Physics Day at Lagoon 2000

The tenth annual Utah State University Physics Day at Lagoon was held on May 19. This year marked the second year of the cooperation by organizers from Idaho National Engineering and Energy Lab (INEEL) and the USU Physics Department in running the event. There were approximately 5,700 students and 148 teachers from 111 schools in four states [Utah, Idaho, Nevada and Wyoming] who attended. Participation in most events increased and almost 50% of the students registered for an organized activity.

Event	High Schools	Middle Schools/ Junior High Schools
Physics Bowl	16 Teams, 48 Students	---
G-forces Contest	24 Students	156 Students
Demonstration Design Contest	34 Entries, 98 Students	16 Entries, 45 Students
Ride Design Contest	21 Entries, 63 Students	141 Entries, 423 Students
Logo Design Contest	50 Entries, 64 Students	120 Entries, 135 Students
Student Workbooks	9 Schools, 99 Students	12 Schools, 377 Students
Total Contest Participation	396 (~16%) Participants	1136 (~36%) Participants
Totals Registered	60 Schools 71 Teachers ~2520 Students	51 Schools 77 Teachers ~3195 Students

About forty-five faculty, staff, and students from the USU Physics Department, about a dozen INEEL staff, and about fifteen to twenty additional helpers other sponsoring agencies were on hand to assist with registration, organization and contest judging. There were an estimated \$18,000 in prizes awarded this year. Sponsors included Boeing, Hansen Planetarium, Lagoon, Montek, Thiokol, USU College of Science, and USU High School Relations and Visionary Products.

Media coverage included Ch 4, KUED Ch 5, and KJZZ Ch 13 from Salt Lake City plus Ch 8 from Idaho Falls. Six papers sent reporters to cover the event including the Salt Lake Tribune, the Idaho Falls Post Register, the Salt Lake Globe, the Ogden Standard Examiner, and the INEEL iNews..

**Summary of Prizes awarded:**

Sponsor	Items	Quantity Awarded	Unit Price	Total Dollar Value
Lagoon	Season Passes	15	\$89.95	\$1,349.25
Lagoon	Day Passes	150	\$28.95	\$4,342.50
Hansen Planetarium	Passes	200	\$4.50	\$900.00
Hansen Planetarium	Posters	200	\$3.00	\$600.00
Thiokol	Footballs	200	\$1.50	\$300.00
Boeing	Boeing Bugs	100	\$0.50	\$50.00
Montek (Moog)	Waterbottles	200	\$0.50	\$100.00
Visionary Products	Computer Camera	1	\$125.00	\$125.00
USU High School Relations	One Year Scholarship	3	\$2,403.32	\$7,209.96
USU College of Science, RMNSGC, Thiokol, Boeing, INSGC, INEEL	Purchased Prizes		\$2,418.54	\$2,552.79
<b>Total Prizes</b>				<b>\$17,529.50</b>

**Summary of Purchased Prizes**

Number	Item	Vendor	Date	Cost
1	Books	Amazon.com		\$526.60
2	Laser Pointers	NewVentive		\$359.64
3	Optics Kits	Edmund Scientific		\$396.75
4	Microscopes/Camera	Hardware Buyline		\$345.80
7	T-Shirts	Ye Ole Shirt Shop		\$924.00
	Total Expenses			\$2,552.79

**Summary of Sponsor Cash Contributions**

Number	Item	Source	Date	Income
1	Contribution for prizes	USU College of Science		\$500.00
2	Contribution for t-shirts	Boeing Corp.		\$750.00
3	Contribution for prizes	Idaho NSGC		\$500.00
4	Contribution for prizes	RMNSGC		\$500.00
5	Contribution for prizes	INEEL		\$500.00
6	Contribution for prizes			\$0.00
				\$2,750.00

## Physics Day 2000 Winners Demonstration Design

### High Schools

- 1<sup>st</sup> Place - *"Torque"* Rock Springs High School  
Luke Jenkins, Mike Thompson, and Ivan Stalick  
Advisor - Andy Hall
- 2<sup>nd</sup> Place - Rock Springs High School  
Billy Harrison and Nicole Butler  
Advisor - Andy Hall
- 3<sup>rd</sup> Place - Rock Springs High School  
Claire  
Advisor - Andy Hall

### Middle Schools

- 1<sup>st</sup> Place - Oak Canyon Junior High School  
Ryan Alder  
Advisor - Doug Pance
- 2<sup>nd</sup> Place - Oak Canyon Junior High School  
Taylor Bentley  
Advisor - Doug Pance
- 3<sup>rd</sup> Place - Oak Canyon Junior High School  
Arron Dore?  
Advisor - Doug Pance

## Physics Day 2000 Winners G-Forces

### High Schools

- 1<sup>st</sup> Place - *"Eagles"* Skyline High School  
Jake Spurlock, Zack Datson, Rick Peterson, and  
John Overfelt  
Advisor - Giovanni Chacon
- 2<sup>nd</sup> Place - *"Knights"* Hillcrest High School  
Jackie Hartzler, Matej Sulstr, and Kelly Pfost  
Advisor - Randy Waite
- 3<sup>rd</sup> Place - *"Y2 Knights"* Hillcrest High School  
Jeff Shenk, Jesse Hinkley, and Jason Tippets  
Advisor - Randy Waite
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### Middle Schools

1<sup>st</sup> Place - Churchill Junior High  
Brook Kawa, Jenna Kunn, Ladd Larsen and  
Taylor Cloagh  
Advisor - Brian LeStarge

Churchill Junior High  
David Johnson, Steven Koplín, Ryan Gardner and  
Jake Ryland  
Advisor - Brian Lestarge

3<sup>rd</sup> Place - Churchill Junior High  
Tyler Copier and Evan Jones  
Advisor - Brian Lestarge

## **Physics Day 2000 Winners Logo Design**

### High Schools

1<sup>st</sup> Place - David Cafferey  
Skyline High School  
Advisor - Schmidt

2<sup>nd</sup> Place - Robert Tonks  
Skyline High School  
Advisor - Schmidt

3<sup>rd</sup> Place - Daniel Kennedy  
Box Elder High School  
Advisor - Ron Cefalo

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### Middle Schools

1<sup>st</sup> Place - Sarah Scott  
Kaysville Junior High  
Advisor - Mark Tolman

2<sup>nd</sup> Place - Aubrey Madsen  
Kaysville Junior High  
Advisor - Mark Tolman

3<sup>rd</sup> Place - Amanda Hemsley  
Kaysville Junior High  
Advisor - Mark Tolman

3<sup>rd</sup> Place - Collin Jensen  
San Rafael Junior High  
Advisor - Bishop

## Physics Day 2000 Winners Ride Design

### High School

1<sup>st</sup> Place "*Newton's Revenge*" Twin Falls High School  
Kim Zigich, Cisco Davila, and Kiersty Lund  
Advisor - Mr. Schmidt

2<sup>nd</sup> Place "*CINTA*" Cyprus High School  
Emily Phillips, Brandon Jones, Kafrina Johnson, Liz Hopkins, Ryan Ford, Jeff Mercer, Alvaro Larrasio, Kim Gallegos, and  
Cindy Holloway  
Advisor - Mrs. Beaus

3<sup>rd</sup> Place "*Big K*" Winter Sports School - Park City, UT  
Helen, Julia, Ted, Jake, Kenny, and Hilary  
Advisor - Dave Seiger

3<sup>rd</sup> Place Jacob Keller (no information available on student)

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### Middle Schools

1<sup>st</sup> Place North Layton Junior High School  
Thomas Walton and Robert ?  
Advisor - Mr. Wood

2<sup>nd</sup> Place "*Arabian Nights*" Kaysville Junior High School  
No names available

3<sup>rd</sup> Place North Layton Junior High School  
Morgan Tippits and Carissa Franich  
Advisor - Mr. Ward

## Physics Day 2000 Winners Physics Bowl

1<sup>st</sup> Place - "*Team Tiger*" Viewmont High School  
Matt Turner, Kyle Turner, and Michael Cooper  
Advisor - Steve Jackson

2<sup>nd</sup> Place - "*C<sup>2</sup> Run*" Twin Falls High School  
Dane Frisbie, Garrett Reynolds, and Phil Tucker  
Advisor - Mr. Schmidt

3<sup>rd</sup> Place - "*The Cronkers*" Viewmont High School  
Nick Ferguson, Jeff McMullen, Josiah Smith  
Advisor - Steve Jackson

3<sup>rd</sup> Place - "*Jonathan*" Viewmont High School  
Andrew Ning, Caleb Hiller, and Tyson Kelly  
Advisor - Steve Jackson

# PHYSICS DAY AT LAGOON 2000 PRIZES

## FIRST PLACE

### Teachers

Computer Interfaced Lab Equipment, either:  
Intel Microscope  
Logitech Video Camera  
DataQ Data Acquisition Interface  
Lagoon Day Pass  
Hansen Planetarium Pass  
2000 Physics Day T-Shirt

### Students

Laser Pointer  
Metrologic "More Than 101 Ways to Use a Laser"  
Lagoon Day Pass  
Hansen Planetarium Pass  
2000 Physics Day T-Shirt

*In Addition Each Member of the Winning Physics Bowl Team  
will Receive a One Year Scholarship To Utah State University*

## SECOND PLACE

### Teachers

Laser Pointer  
Laser Pointer Optics Kit  
Optical Society of America Optics Kit  
Spectra Card  
Metrologic "More Than 101 Ways to Use a Laser" Hansen  
Planetarium Pass  
2000 Physics Day T-Shirt

### Students

Physics Book of Your Choice  
Lagoon Day Pass  
Hansen Planetarium Pass  
2000 Physics Day T-Shirt

## THIRD PLACE

### Teachers

Physics Book of Your Choice

Lagoon Day Pass  
Hansen Planetarium Pass  
2000 Physics Day T-Shirt

### Students

Spectra Card  
Lagoon Day Pass  
Hansen Planetarium Pass  
2000 Physics Day T-Shirt

***PHYSICS DAY  
AT LAGOON  
2000***

***PRIZES FOR  
STUDENT  
WORKBOOKS***

***STUDENTS  
SUBMITTING  
STUDENT  
WORKBOOKS WILL  
RECEIVED AN  
OPPORTUNITY TO  
PARTICIPATE IN A  
RANDOM DRAWING***

***HUNDREDS OF  
PRIZES  
INCLUDE***

***10 SEASON  
PASSES TO  
LAGOON***

***25 DAY PASSES TO  
LAGOON***

***100 HANSEN  
PLANETARIUM  
PASSES***

***100 SPACE  
POSTERS***

***100 THIOKOL  
FOOTBALLS***

***100 MOOG WATER  
BOTTLES***