

Physics Day at Lagoon 2002

The thirteenth annual Utah State University Physics Day at Lagoon was held on May 17. This year the Inland Northwest Research Alliance (INRA) joined organizers from Idaho National Engineering and Energy Lab (INEEL) and the USU Physics Department in coordinating and running the event. There were approximately 4569 students and 200 teachers from 90 schools in four states [Utah, Idaho, Nevada and Wyoming] who attended. . A newly revamped web site [<http://physics.usu.edu/>] included on-line registration and substantially enhanced information and curriculum materials for teachers.

Event	High Schools	Middle Schools/ Junior High Schools
Physics Bowl	26 Teams, 78 Students	---
G-forces Contest	11 teams, 34 Students	79 teams, 288 Students
Demonstration Design Contest	21 Entries, 50 Students	17 Entries, 45 Students
Ride Design Contest	27 Entries, 70 Students	24 Entries, 60 Students
Logo Design Contest	79 Entries, 80 Students	110 Entries, 120 Students
Student Workbooks	9 Schools, 67 Students	13 Schools, 377 Students
Total Contest Participation	379 (~16%) Participants	890 (~36%) Participants
Totals Registered	45 Schools 87 Teachers ~1642 Students	45 Schools 113 Teachers ~2927 Students

About sixty-five faculty, staff, and students from the USU Physics Department, about a twenty INEEL staff, and about twenty-five additional helpers other sponsoring agencies were on hand to assist with registration, organization and contest judging. There were an estimated \$39,000 in prizes awarded this year. Sponsors included Boeing, Hansen Planetarium, Lagoon, Dupont Holographics, Thiokol, US Navy, USU College of Science, USU Office of Recruitment and Enrollments Services, Rocky Mountain NASA Space Grant Consortium, Idaho NASA Space Grant Consortium, and Inland Northwest Research Alliance.

Media coverage included Ch. 2 and KJZZ Ch 13 from Salt Lake City. The Ogden Standard Examiner also sent reporters to cover the event.

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PHYSICS ENTHUSIASTS HEAD FOR LAGOON MAY 17

MEDIA ALERT - Media representatives should check in with Lagoon's marketing office upon arrival for press passes. For information about Lagoon and safety issues regarding cameras on rides, contact Lagoon marketing director Dick Andrew (801) 451-8062; dandrew@lagoonpark.com; www.lagoonpark.com. Additional information about Physics Day activities is available at www.physics.usu.edu.

LOGAN - It's time again for Physics Day when budding scientists descend on Utah's Lagoon amusement park for hands-on learning experiences, academic competition and fun. **Friday, May 17**, physics students from middle and high schools throughout the Intermountain West will explore such basic physics concepts as gravity and centrifugal force while enjoying the thrills of northern Utah's überplayground.

Event chair J.R. Dennison, professor of physics at Utah State University, said area students are building accelerometers and learning physics principles in preparation for a day of measuring g-forces, calculating maximum acceleration, counting rotations and hopefully not losing their lunches. Last year's event drew more than 4,500 participants from about 70 schools in Utah, Idaho, Nevada and Wyoming.

"The purpose of Physics Day is to motivate students' interest in science and to relate abstract concepts to familiar examples in a fun way," said Dennison. "What better laboratory to entice young people than an amusement park?"

The day's activities include a Physics Bowl competition for high school teams, featuring scholarship awards to Utah State and other prizes for winning competitors. Students also compete in logo and ride design contests and the Colossus' Colossal g-Forces event.

Participation has grown steadily since the annual event was initiated by Utah State's Physics Department in 1990. The department sponsors the event, along with the Idaho National Engineering and Environmental Laboratory (INEEL), Lagoon, the Rocky Mountain and Idaho NASA Space Grant Consortiums, and Inland Northwest Research Alliance, Inc.

The day's activities begin at 9 a.m. and conclude at 5 p.m. For more information about Physics Day, contact Ali Siahpush, program manager, INEEL, 208-526-8708, sia@inel.gov or Dennison at 435-797-2936, physjrd@cc.usu.edu.

UTAH STATE UNIVERSITY

PHYSICS DAY at LAGOON

CONTEST WINNERS (2002)

PHYSICS BOWL

First Place:

Skyline High School
Stephen Cossel, Coach
Idaho Falls, ID 83402

Patrick Herrin
Idaho Falls, ID

Kevin Cossel
Idaho Falls, ID 83402

Curtis Hamman
Idaho Falls, ID 83402

Second Place:

Skyline High School
Stephen Cossel, Coach
Idaho Falls, ID 83402

Steven Brown
Idaho Falls, ID 83402

Patrick Harding
Idaho Falls, ID 83404

Third Place:

Twin Falls High School
Tom Schmidt, Advisor
Twin Falls, ID 83301

Melissa Snow
Twin Falls, ID 83301

Casey Sojka
Twin Falls, ID 83301

Erin Detweiler
Twin Falls, ID 83301

Fourth Place:

Sandy, UT 84094

Julia Ma
Sandy, UT 84094

Brian Casaday
Sandy, UT 84092

Jamie Steck
Sandy, UT 84092

PHYSICS DEMONSTRATION DESIGN CONTEST
HIGH SCHOOL DIVISION

First Place:

Cyprus High School
Valenie Richardson, Advisor
Magna, UT 84044

“Measuring Sunlight”

Leslie McBride
Magna, UT 84044

Edson Morales
Magna, UT 84044

Carlos Villalobes (no address)

Melaries Sandberg
Magna, UT 843044

Nayeli Gomez (no address)

Second Place:

Century High School
Mrs. Hobdey, Advisor
Pocatello, ID 83204

Jeff Nestor
Pocatello, ID 83204

Josh Nestor (same as above)

Reid Archibold
Pocatello, ID 83201

Third Place:

Box Elder High School
Ron Cefalo, Advisor
Brigham City, UT 84302

Jeff Anderson (same as above)
Colby Childress (same as above)
Ian D’Asto (same as above)
Chen Li (same as above)

PHYSICS DEMONSTRATION DESIGN CONTEST
MIDDLE/JUNIOR HIGH SCHOOL DIVISION

First Place:

San Rafael Junior High
Barry Bishop, Advisor
Ferron, UT 84523

“Hear the Light”

Tana Merrell
H.C. 10 Box 3
Castle Dale, UT 84513

Second Place:

San Rafael Junior High
Barry Bishop, Advisor

“Faraday’s Discovery”

Jake Jones
Ferron, UT 84523

Morgan Hardy
Castle Dale, UT 84513

Third Place:

Bear River Middle School
Jamie Hawkins, Advisor
Tremonton, UT 84337

“Pinewood Derby Secrets”

Danielle Hawkins (same as above)

RIDE DESIGN CONTEST
HIGH SCHOOL DIVISION

First Place:

Box Elder High School
Ron Cefalo, Advisor
Brigham City, UT 84302

“Adrenaline High”

Nicki Bens (same as above)

Second Place:

Riverton High School
John Hinton, Advisor
Riverton, UT 84065

“May-lev roller coaster”

Ashton Snelgrove (no information)

Third Place:

Cyprus High School
Anne Bens, Advisor
Sandy, UT 84093

“Tunnel of Love”

Katrina Johnson
Magna, UT 84044

Cindy Spangler
West Valley City, UT 843128

Kim Gallegos (no address)
Leslie McBride and
Lindsay McBride
Magna, UT 843044

RIDE DESIGN CONTEST
MIDDLE/JUNIOR HIGH SCHOOL DIVISION

First Place:

North Layton Junior High School
Mrs. Nielson, Advisor
Kaysville, UT 84037

“UFO”

Katie Newman
Layton, UT 84040

North Layton Junior High School
Mr. Tucker, Advisor
Layton, UT 84040

“Dizzy Disc”

Cynthia Witt
Layton, UT 84041

Second Place:

North Layton Junior High School
Mrs. Wheeler, Advisor
Layton, UT 84040

“Revert”

Trevor Brimley
Layton, UT 84040

Mike Snoy
Layton, UT 84040

Third Place:

LOGO DESIGN CONTEST
HIGH SCHOOL DIVISION

First Place:

Box Elder High School
Mr. Cefalo, Advisor
Brigham City, UT 84302

Crystal Loya (same as above)

Second Place:

Box Elder High School
Mr. Cefalo, Advisor

(same as above)

Jamie Day (same as above)

Third Place:

Box Elder High School
Mr. Cefalo, Advisor
(same as above)

Crystal Loya (same as above)

LOGO DESIGN CONTEST
MIDDLE/JUNIOR HIGH SCHOOL DIVISION

First Place:

Kaysville Junior High School
Mark Tolman, Advisor

John Milligan
Kaysville, UT 84037

Second Place:

Kaysville Junior High School
Mark Tolman, Advisor

(same as above)

Travis Holt (same as above)

Third Place:

Kaysville Junior High School
Mark Tolman, Advisor
(same as above)

Carli Crimin (same as above)

CURRICULUM DEVELOPMENT CONTEST

Two Entries Tied for First Place:

Ron Cefalo
Box Elder High School
Brigham City, UT 84302

Barry Bishop
San Rafael Junior High School
Ferron, UT 84523

COLOSSUS' COLOSSAL G-FORCES CONTEST
HIGH SCHOOL DIVISION

First Place:

Malad High School
Lucinda Bingham, Advisor
Malad, ID 83252

Allison Rolig
Caitlin Sluder
Colby Austin

(no addresses)

Amber Christiansen
Allison Jones
Amanda Pantine

(no addresses)

Third Place:

Malad High School
Lucinda Bingham, Advisor
(same as above)

Second Place:

Twin Falls High School
Tom Schmidt, Advisor
Twin Falls, ID 83301

Jeannie Plowman
Kelli Thomas
Pat Jones
Nathan Kent

(no addresses)

Dylan Sinclair

COLOSSUS' COLOSSAL G-FORCES CONTEST
MIDDLE/JUNIOR HIGH SCHOOL DIVISION

First Place:

Churchill Junior High School
Brian Lestarge, Advisor
Salt Lake City, UT 84124

Bruce Miranda

(no addresses)

Andy Davis
Michael Osterloh
Steven Meads
Dylan Miller

Third Place:

Churchill Junior High School
Brian Lestarge, Advisor
(same as above)

Second Place:

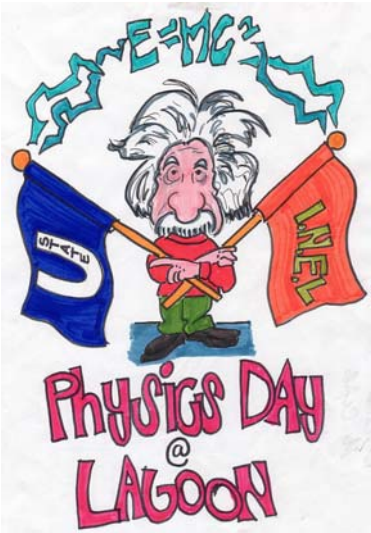
Churchill Junior High School
Brian Lestarge, Advisor
(same as above)

Nina Bennet
Jessica Ku
Stephanie Sakellariou
Bridgette Keys

(no addresses)

Kiyan Ghahdian
Austin Pazzoki

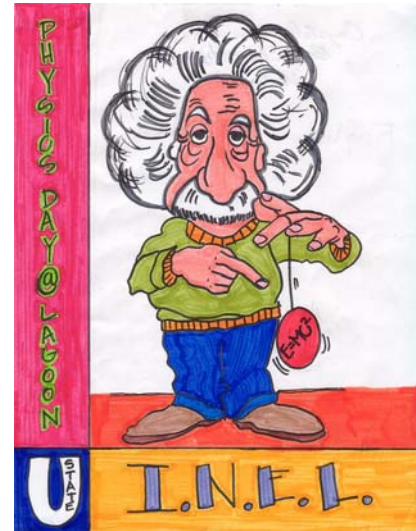
High School Winners



First Place
Crystal Loya
Box Elder High School
Ron Cefalo, Advisor

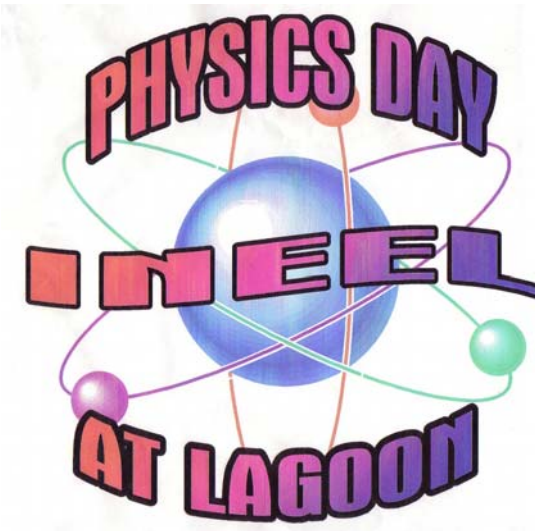


Second Place
Jamie Day
Box Elder High School
Ron Cefalo, Advisor



Third Place
Crystal Loya
Box Elder High School
Ron Cefalo, Advisor

Middle School Winners



First Place
John Milligan
Kaysville Junior High School
Mark Tolman, Advisor



Second Place
Travis Holt
Kaysville Junior High School
Mark Tolman, Advisor



Third Place
Carli Crimin
Kaysville Junior High School
Mark Tolman, Advisor

PHYSICS DAY AT LAGOON 2002

MIDDLE SCHOOL PRIZES

FIRST PLACE

Teachers

“Toys in Space”
Happy/Sad Balls
Super Slinky
Celts
Magnetic Marbles
Lagoon Day Pass
Hansen Planetarium Pass
2002 Physics Day T-Shirt

Students

Newtonian Collision Demonstration
Lagoon Day Pass
Hansen Planetarium Pass
2002 Physics Day T-Shirt

SECOND PLACE

Teachers

Set of 6 Grating Spectrometers
1 Spectra Card
Lagoon Day Pass
Hansen Planetarium Pass
2002 Physics Day T-Shirt

Students

Laser Pointer
Spectra card
Metrologic “*More Than 101 Ways to Use a Laser*”
Lagoon Day Pass
Hansen Planetarium Pass
2002 Physics Day T-Shirt

THIRD PLACE

Teachers

Galileo Thermometer
Lagoon Day Pass
Hansen Planetarium Pass
2002 Physics Day T-Shirt

Students

Cartesian Diver Game
Lagoon Day Pass
Hansen Planetarium Pass
2002 Physics Day T-Shirt

PHYSICS DAY AT LAGOON 2002

HIGH SCHOOL PRIZES

FIRST PLACE

Teachers

3 Laser Pointers
3 Laser Pointer Optics Kit
Metrologic “*More Than 101 Ways to Use a Laser*”
Lagoon Day Pass
Hansen Planetarium Pass
2002 Physics Day T-Shirt

Students

Laser Pointer
Laser Pointer Optics Kit
Metrologic “*More Than 101 Ways to Use a Laser*”
Lagoon Day Pass
Hansen Planetarium Pass
2002 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

3D Magnetic Field Demonstration
Assorted Magnets
Lagoon Day Pass
Hansen Planetarium Pass
2002 Physics Day T-Shirt

Students

Magnetic Field Cards
Assorted Magnets
Metrologic “*More Than 101 Ways to Use a Laser*”
Lagoon Day Pass
Hansen Planetarium Pass
2002 Physics Day T-Shirt

THIRD PLACE

Teachers

Galileo Thermometer
Lagoon Day Pass
Hansen Planetarium Pass
2002 Physics Day T-Shirt

Students

Liquid Crystal Heat Card
Lagoon Day Pass
Hansen Planetarium Pass
2002 Physics Day T-Shirt

PHYSICS DAY AT LAGOON 2002

PRIZES FOR STUDENT WORKBOOKS

***STUDENTS SUBMITTING STUDENT
WORKBOOKS WILL RECEIVE 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***