

## Supercomputing Challenge Winners - 2008

A total of \$70,000 in individual scholarships — \$50,000 from Los Alamos' Computer, Computational, and Statistical Sciences (CCS) Division — were awarded on Tuesday at Los Alamos. The top amount of \$10,000 was awarded to Punit Shah of Albuquerque Academy who plans on attending U Penn or MIT.

Scholarship winners, their high school and their college choice:

Alan Benalil, Socorro High, NM Tech  
Danielle Charley, Navajo Prep, Northern Arizona University  
Phillip de La Rosa Artesia High, Eastern  
Tracey Franklin, Artesia High, Rice, Dartmouth  
Sarah Garduno, McCurdy School, NMSU  
Jayson Lynch, Sandia Prep, MIT or Cal Tech  
Jessica MacKinnon, Artesia High, NMSU  
Brandon Oselio, Albuquerque Academy, ASU, NMSU  
Vlado Ovtcharov, Albuquerque Academy, UNM  
Daniel Pedro, Santa Fe Indian School, UNM  
Punit Shah, Albuquerque Academy, U Penn or MIT  
Alex Sifuentes, Artesia High, Eastern  
Omar Soliman, Socorro High, NM Tech  
Miguela Trujillo, McCurdy School, NMSU

### **First Year Teacher Awards**

Jose Quiroz of Artesia, Maureen Psaila-Dombrowski, LeAnne Salazar-Montoya, Andrea Spence and Zeynep Unal, all of Los Alamos.

### **Los Alamos National Laboratory Environmental Award**

Team 16, Barranca Mesa Elementary, Global Warning: It's Not Cool, Team Members: George Barnum, Eric Begnaud, Mohit Dubey, Ben Liu, Mengzhe Zhao, Teacher: Andrea Spence, Project Mentor: Dr. Michael L. Begnaud

### **Best Written Report**

Team 82, Sandia Prep, Comparing Numerical Integration Methods, Team Members: Alex Clement, Amy Clement, Greg Fenchel, Jeff Fenchel, Jayson Lynch, Teacher: Neil McBeth, Project Mentor: Mark Smith

### **Best HTML Version of a Final Report Award**

Team 15, Aspen Elementary, Cryptography Studies, Team Members: Dhaivat Pandya, Colin Redman, Matthew Ticknor, Teacher: Zeynep Unal, Project Mentor: Elizabeth Cooper

### **Community Focus Award**

Team 90, Socorro High, The Unbeatable Speed Limit, Team Members: Omar Soliman, Alan Benalil, Mariah Deters, Carly Nowicki, Teacher: Bala Settu, Project Mentor: LD Landis

### **Best Use of StarLogo Award from Santa Fe Institute**

Team 59, Los Alamos Middle, River Otters and Their Effect on Riverine Ecosystems, Team Members: Thomas Henderson, Johnny Jacobs, Steven McCrory, Jack Mockler, Simon Redman, Marie-Luise

Schmidt, Teacher: Le-Ann Salazar, Project Mentor: Rueben Guadiana

### **Best Challenge Process**

Team 42, Freedom High, Cosmic Shooting Gallery, Team Members: Tanner Wood, Ryan Mayfield, Matt Royo, Teacher: Joseph Vertrees

### **Science is Fun!**

Team 83, Sandia Prep, Modeling the Hydrogen Atom, Team Members: Alessandra Anderson, Kaitlyn Hughes, Teacher: Neil McBeth, Project Mentor: Robert Anderson

### **Students' Choice**

Team 59, Los Alamos Middle, River Otters and Their Effect on Riverine Ecosystems, Team Members: Thomas Henderson, Johnny Jacobs, Steven McCrory, Jack Mockler, Simon Redman, Marie-Luise Schmidt, Teacher: Le-Ann Salazar, Project Mentor: Rueben Guadiana

### **Teachers' Choice**

Team 68, Melrose High, Oryx Populations at White Sands Missile Range, Team Members: Kyle Jacobs, Richard Rush, Randall Rush, Teacher: Alan Daugherty, Project Mentor: Rebecca Raulie

### **Best Professional Presentation**

Team 48, Jackson Middle, Home Remedies V.S Prescriptions, Team Members: Matt Jannakos, Chris Winter, Nick Shortencarier, Teacher: Mrs. Glennon, Project Mentor: Dale Henderson, Betsy Fredrick, Nick Bennett

### **High Performance Award from Cray Inc.**

Team 49, La Cueva/Saint Pius X, An Analysis of Direct Simulation Monte Carlo And Its Application to Simulating Supersonic Shockwaves, Team Members: Tony Huang, Erika DeBenedictis, Project Mentor: Dr. Erik DeBenedictis, Dr. Dan H. Huang, Dr. Michail Gallis

### **Internet Research Award from the Council for Higher Education Computing Services, Inc.**

Team 81, Rio Rancho Mid-High, Modeling the NASA Dawn Ion Propulsion Spacecraft, Team Members: Destiny Tamboer, Ryan Cortez, Jerett Jones, Luis Maura, Alissandra Rogers, Teacher: Debra Loftin, Project Mentor: Nick Bennett

### **Best Teamwork**

Team 59, Los Alamos Middle, River Otters and Their Effect on Riverine Ecosystems, Team Members: Thomas Henderson, Johnny Jacobs, Steven McCrory, Jack Mockler, Simon Redman, Marie-Luise Schmidt, Teacher: Le-Ann Salazar, Project Mentor: Rueben Guadiana

### **Special Mentor Award**

The Jackson Middle School teams presented Nick Bennett with a Starbucks gift card for all the help and support he has given them this year.

### **Best Technical Poster**

Team 61, Los Alamos Middle, Turn Up the Heat, Energy Efficiency through Smart Wall Design, Team Members: Rachel Robey, Jessie Bohn, Teacher: LeAnn Salazar, Project Mentor: Robert Robey  
This design will appear on the cover of the 2008-09 Final Reports Publication.

### **New Logo Winners**

Team 85, Santa Fe Indian School, Scan of the Past II, Team Members: Vanessa Keetso, Daniel Pedro, Teacher: Rhonda Ward-Martinez, Sally Phelps, Project Mentor: Stephen Guerin  
Their design will appear on all Supercomputing Challenge graphics for the next school year.

### **Creativity and Innovation Award from Sandia National Laboratories**

Team 85, Santa Fe Indian School, Scan of the Past II, Team Members: Vanessa Keetso, Daniel Pedro, Teacher: Rhonda Ward-Martinez, Sally Phelps, Project Mentor: Stephen Guerin

### **New Mexico Network for Women in Science and Engineering Award**

Team 55, Los Alamos High, Polar Warming, Team Members: Shelby Anderson, Emily TenCate, Teacher: Diane Medford, Project Mentor: Mark Anderson, James TenCate

### **Computer Forensics & Encryption Award**

Team 15, Aspen Elementary, Cryptography Studies, Team Members: Dhaivat Pandya, Colin Redman, Matthew Ticknor, Teacher: Zeynep Unal, Project Mentor: Elizabeth Cooper

### **Senator Jeff Bingman's Middle School Award**

Presented to Project GUTS

The Challenge's Middle School Arm

Irene Lee, with Nick Bennett, Celia Einhorn, Betsy Frederick, Lisa Goldman, Alexis Kaminsky  
Greg Malone, Maureen Psaila-Dombrowski, Paige Prescott, Josh Thorpe, and Talaya White

### **CHECS Random Door Prize**

Nathan Thai of Team 3 from Albuquerque Academy won a \$500 door prize for finishing the Challenge and participating in the Expo and Awards Ceremony.

### **Governor's Award**

Presented to Bob Robey, LANL, a tireless champion for the Challenge!

### **Third Place**

Team 2, Albuquerque Academy, Nanoscale Self-Assembly, Team Members: Michael Wang and Ari Shaw-Faber, Teacher: Jim Mims, Project Mentor: Yifeng Wang, Ph.D

### **Second Place**

Team 61, Los Alamos Middle, Turn Up the Heat, Energy Efficiency through Smart Wall Design, Team Members: Rachel Robey, Jessie Bohn, Teacher: LeAnn Salazar, Project Mentor: Robert Robey

### **First Place**

Team 49, La Cueva/Saint Pius X, An Analysis of Direct Simulation Monte Carlo And Its Application to Simulating Supersonic Shockwaves, Team Members: Tony Huang, Erika DeBenedictis, Project Mentor: Dr. Erik DeBenedictis, Dr. Dan H. Huang, Dr. Michail Gallis