



ARIZONA **NANOTECHNOLOGY** CLUSTER

## 2010 Essay Contest Sponsorship

### About our Essay Contest Sponsorship

The Arizona Nanotechnology Cluster is a not-for-profit 501c3 organization formed in January 2003 to share and promote technology advances in the fast-growing field of Nanotechnology. Our membership includes an active group of interested engineers (electrical, mechanical and chemical), scientists (medical and materials) and business-people from industry and academia. The Arizona Nanotechnology cluster vigorously supports K-12 education by various outreach programming by providing grade school, high school and college with scientists in the area of nanotechnology as lecturers to educate students on intricacies and careers in Nanotechnology. Our mission to support Education, Entrepreneurship, and Collaboration, is a role model for the development of industrial organizations. Our membership is free and our monthly educational seminars held at Arizona State University and University of Arizona our free and open to the general public. Our mailing list encompasses over 500 people and organizations for timely information on the state of Nanotechnology. We contribute to the community of Arizona in many ways from our educational outreach to a nationally acclaimed Nanotechnology Symposium.

We hold an annual scholarship essay contest for middle and high school Arizona students so they can share their conceptualization of the uses and potential impact of Nanotechnology on our way of life through an original, creative essay.

### The 2010 Topic is:

**Innovative Use of Nanotechnology to Solve Mankind's Health Care Problems and Enhance Life**

### Sponsorship:

We are presently looking for sponsors to support our program. Of main interest are companies that are locally Arizona that would like to support the local community by fostering the education of our youth. The Arizona Nanotechnology Cluster's motto of "Live Local and Think Global", expounds the idea that by helping our locality which is our responsibility will directly impact our community and that we foster the idea to keep our minds open to our global neighbors and how we impact the world.

Our Essay Contest espouses this idea by helping the Arizona students to broaden their horizons and dream the next far reaching technology that will change the world for the better. We would like participation from the local companies to foster this dream of imagination that will become the future technologies of the world.

### Eligibility

High School Category, Middle School Category

### Essay Prizes: To be announced May 2010

- 1st Place - \$500 Scholarship
- 2nd Place - \$300 Scholarship
- 3rd Place - \$200 Scholarship

This is the third year of our essay program, and we typically award multiple essay prizes, and in the past two years all the essay entrants received recognition and gift certificates.

### Sponsorship Benefits:

1. Sponsors will be posted on our website with contributory levels
2. At all seminars and presentations, Sponsors poster will be exhibited.
3. Essays contest winners will be publicly congratulated with Sponsors present and acknowledge.
4. Essay contest will include information on the sponsors and their benefits to Arizona.
5. Sponsors will be invited to all Nanotechnology events and acknowledged for their generosity.

Questions to: Matt Kim, Chairman of the Board, [mk@quanttera.com](mailto:mk@quanttera.com), 602-214-3524



# 2010 Essay Contest Sponsorship

ARIZONA **NANOTECHNOLOGY** CLUSTER

## Previous Award Winners:

### 2008:

#### Middle School

1<sup>st</sup> Prize Joshua Ekstrom, "Quantum Dots for Solar", 7<sup>th</sup> grade, Ekstrom Home School

2<sup>nd</sup> Prize: Adam Redleaf, "Arizona Nanotechnology Research Hospital and Clinic (ANRHAC)", 8<sup>th</sup> grade, Desert Shadows Middle School

2<sup>nd</sup> Prize: Zane Martin "Water Cleans Up its Act with Nanotech", 7<sup>th</sup> grade, Home School

2<sup>nd</sup> Prize: Angelica Christine Anderson, "Sea of Change", 6<sup>th</sup> grade, Apache Middle School

3<sup>rd</sup> Prize: Kyle Koser, "Watching Our Sewers", 7<sup>th</sup> grade, Cocopah School

3<sup>rd</sup> Prize: Dawna Masi, "Nanotechnological Benefits", 8<sup>th</sup> grade, Villa de Paz Elementary School

#### High School

1<sup>st</sup> Prize: Matthew Irwin, "An Atomic Sized Hero: Nanotechnology and the Cure to Cancer", 11<sup>th</sup> grade, Coronado High School

#### College

1<sup>st</sup> Prize: Danny Pupillo, "Nano-Medicine: A Cure for Tomorrow", Sophomore, Scottsdale Community College

2<sup>nd</sup> Prize: Alexander Luce, "The Emerging Field of Nanomedicine and Possible Contributions to Personal Health in the 21<sup>st</sup> Century", Junior, University of Arizona

3<sup>rd</sup> Prize: Michael Junkin, "Nanoengineered cell fragments for virus sequestration", Graduate, University of Arizona

Additionally 8 honorable mentions

Total Essay contest money disbursed \$3525

### 2009

#### Middle School

1<sup>st</sup> Prize: Yesenia Lopez, "Innovative Use of Nanotechnology to solve the world's energy challenges", 7<sup>th</sup> grade, Villa de Paz Elementary

2<sup>nd</sup> Prize: Ashley Mack "Nanotechnology is the Solution", 8<sup>th</sup> grade, Cocopah Middle School

3<sup>rd</sup> Prize: Andrea Brown, "World Energy Solutions", 8<sup>th</sup> grade Villa De Paz

Honorable Mention: Kelly H. Rexroat, "Nanocrystals Help Solve an Energy Problem", 4<sup>th</sup> grade

#### High School

1<sup>st</sup> Prize: Danny Ribera, "The Little Nanotechnology That Could", 11<sup>th</sup> grade, Trevor Browne High School

2<sup>nd</sup> Prize: Adam Redleaf, "Nanotechnology's Quantum Impact on Photovoltaics", 9<sup>th</sup> Grade, Horizon High School

3<sup>rd</sup> Prize: Lacey Meadows, "Nanotechnology" 12<sup>th</sup> grade, Mesa High School

Honorable Mentions:

Yolanda Rangel, "Nanotechnology", 12<sup>th</sup> grade, Camelback High School

Emmanuel Covarrubias, "Gratias Gratzel Cells", 11<sup>th</sup> grade, Trevor Browne High School

Total Essay contest money disbursed \$3300