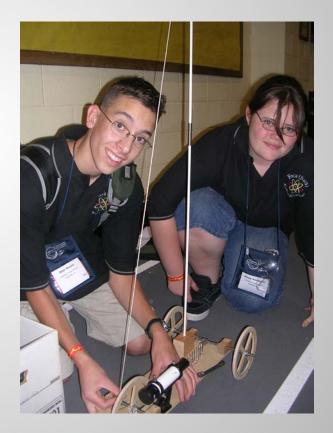
THE ABCS OF SCIENCE OLYMPIAD

Amy Arkwright, Utah State Coordinator





EXTRACURRICULAR HANDS-ON STEM—— SCIENCE OLYMPIAD

Sponsored by the College of Engineering

Written in NSF MRSEC grant

- \$20k in participant support & supplies
- Paid student support
- Salary support for a coordinator

Affects over 70 schools in Utah from corner to corner; 15 kids/team: grades 7-12

U of U has previously sponsored >\$70k total scholarship funds for medalists

Events represent disciplines of 15 academic departments and five colleges

Vision: to be top-ten in the Nation



U OF U HOSTING SCIENCE OLYMPIAD

- 250 support volunteers
 47 total events
- \checkmark 70 Utah schools
- \checkmark Jr. High & H.S. divisions
- ✓ Over 1000 students on-the-day



Anatomy Awesome Aquifers Bottle Rocket **Disease Detectives** Dynamic Planet **Electric Vehicle Food Science** Forensics Invasive Species Meteorology **Mission Possible** Oceanography Road Scholar Robot Arm Science Crime Busters Simple Machines Solar System Tower Building Write it - Do it

EVENT TYPES

Science Concepts and Knowledge Science Processes and Inquiry Skills Science Application and Technology



SCIENCE OLYMPIAD IS:

✓ Multidisciplinary

✓ Inclusive

✓ Teamwork-oriented

✓ Communication-oriented

✓ Self assembly

✓ Self selection



THESE ARE THE KIDS WE WANT!

\$500-2,000 scholarships in discipline-specific events BOTH junior high and high school divisions >\$70k total scholarships offered; 30% girls







TYPES OF STUDENT INTERACTIONS

- Sponsor coach clinics
- Teacher training
- Provide event coaches
- Formal recruiting tables
- **Scholarships**
- Awards ceremony
- Post-awards ceremony
- Invite to on-campus events
- Department mailing lists





"THE MESSAGE" AS-SENT

"We understand your commitment!"

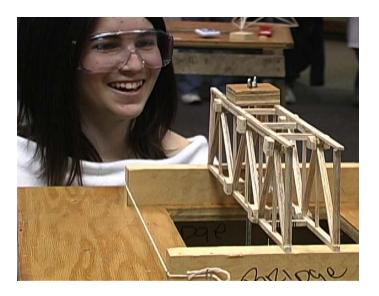
"We recognize your effort!"

"You can succeed in this field!"

✓ Target underrepresented groups!







THE MESSAGES RECEIVED...

"Major Universities are paying attention with *real* scholarships!"

"Our district needs to take this more *seriously*"

more schools, more kids, more teachers, more parents need to get involved

Enhanced level of competition!

✓UT teams are nationally competitive

✓ Everybody wins!



http://www.soinc.org/events/

NATIONAL SCIENCE EDUCATION STANDARDS

National Research Council

CONCEPTS INQUIRY PHYSICAL LIFE EARTH TECH PER/SOC HIST/NAT

Anatomy			-				
Astronomy			-	-			
Awesome Aquifer			-			•	
Balloon Launch Glider							
Boomilever							
Chem Lab	•				▲		•
Circuit Lab							
Designer Genes						•	
Disease Detectives			-				
Don't Bug Me			-			•	
Dynamic Planet			-	-		•	
Ecology							
Experimental Design		•					
Fermi Questions							
Five Star Science			-	-			
Food Science	•				A		•
Forensics		•				•	
Health Science	-		-				
Heredity							
Meteorology			-	-			
Metric Mastery		▲					
Mission Possible							
Oceanography		•	-	-		•	
Physics Lab							
Remote Sensing			-	-		•	
Road Scholar	▲						
Robot Ramble		•					
Rocks and Minerals				-			
Science Crime Busters	-		-			•	
Science Word			-	-			
Scrambler							
Simple Machines							
Solar System				-			
Sounds of Music							
Storm the Castle							
Tower Building	-						
Wheeled Vehicle		•			•		
Wright Stuff		•					
Write It/Do It						•	
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Coverage Key: ■=In-depth, ●=Moderate, ▲=Introductory