

Welcome to the 2014 Annual Awards Ceremony

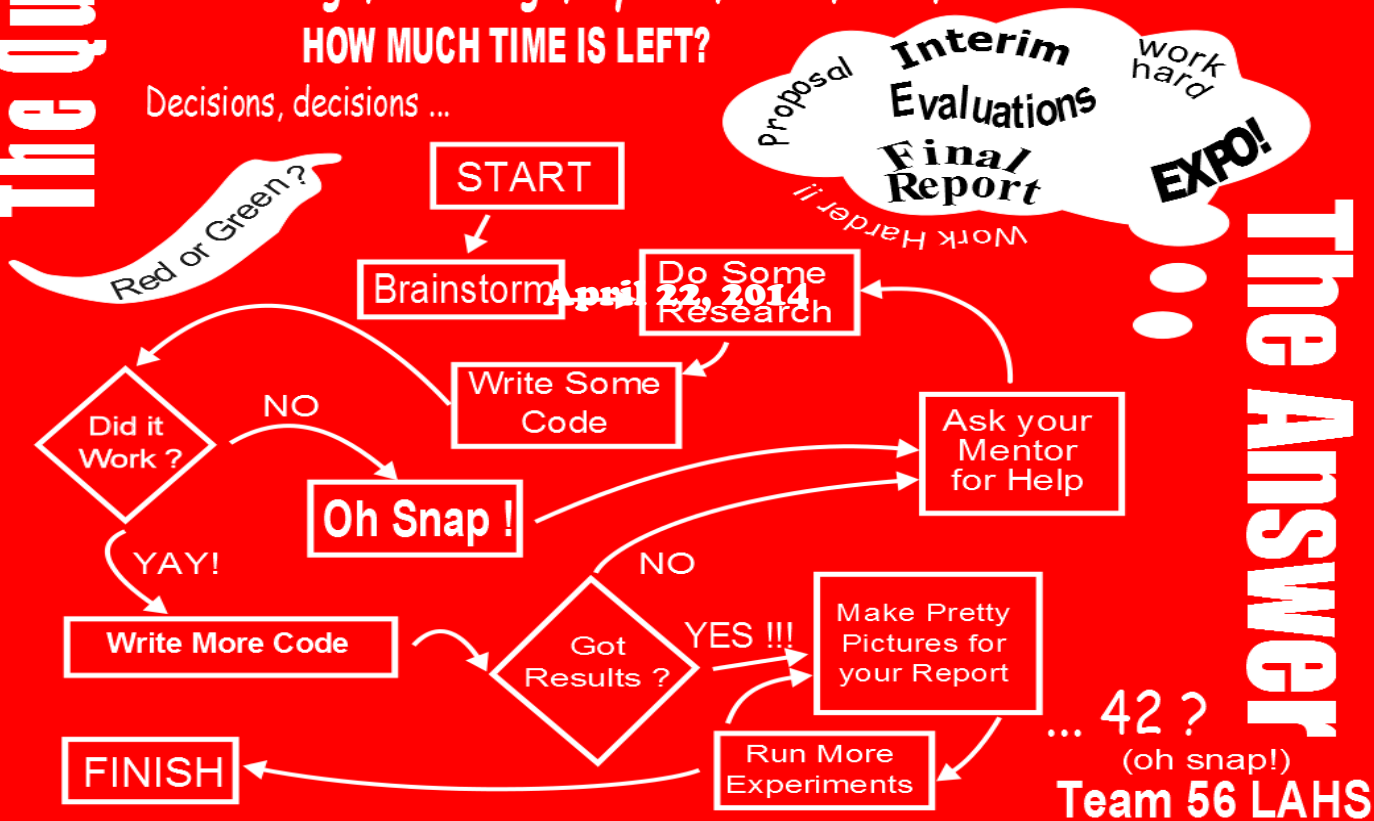
The Question

When can we start? What is the question anyway?

Star Logo, Net Logo, Python, Java, C++, or ?

HOW MUCH TIME IS LEFT?

Decisions, decisions ...



The Answer

April 22, 2014

You took the Challenge and
finished the Marathon!



Master of Ceremonies

Shaun Cooper,
IT Consultant

Supercomputing Challenge,
Past Member of the Board of Directors,
Retired NMSU Chief Information Officer



LANL
Welcomes
You!



John
Sarraf



LANL Associate Director for Theory,
Simulation, and Computation
(ADTSC)

I Took the Challenge! First Year Schools



John Paul Gonzales,
Consult, Santa Fe Institute &
Project GUTS

First Year Schools

Team 162, Taos Charter School

Team 161, White Sands Elementary

Welcome back!

Team 59 Las Cruces High School

Team 61 Sierra Middle School

Presentation of the 2013 - 2014 Finalists



David Kratzer, Consult

The Finalists

- Team 1** ATC/Santa Fe High
- Team 5** Albuquerque Academy
- Team 58** La Cueva High School
- Team 60** Las Cruces YWiC
- Team 63** Los Alamos High School
- Team 66** Los Alamos High School
- Team 101** NM School for the Arts
- Team 143** School of Dreams Acad

Most Professional Presentation



Presented by
Kurt Steinhaus

Most Professional Presentation

Winner:

Team 58 La Cueva High School

*Modeling Tree Growth and Resource
Use with Applications*

Team Members: Albert Zuo,
Eli Echt-Wilson

Sponsor: Jason DeWitte

Best Agent-based Model using NetLogo

Presented by Nick Bennett, for
Uri Wilenski



Best Agent-based Model using NetLogo

Winners:

Team 101, NM School for the Arts,

Getting Down on Dengue

Team Members: Kendra Carmona, Mohit Dubey, Erin Ice-Johnson, Lauren Sarkissian, Lila Faust

Sponsor: Ms. Acacia McCombs

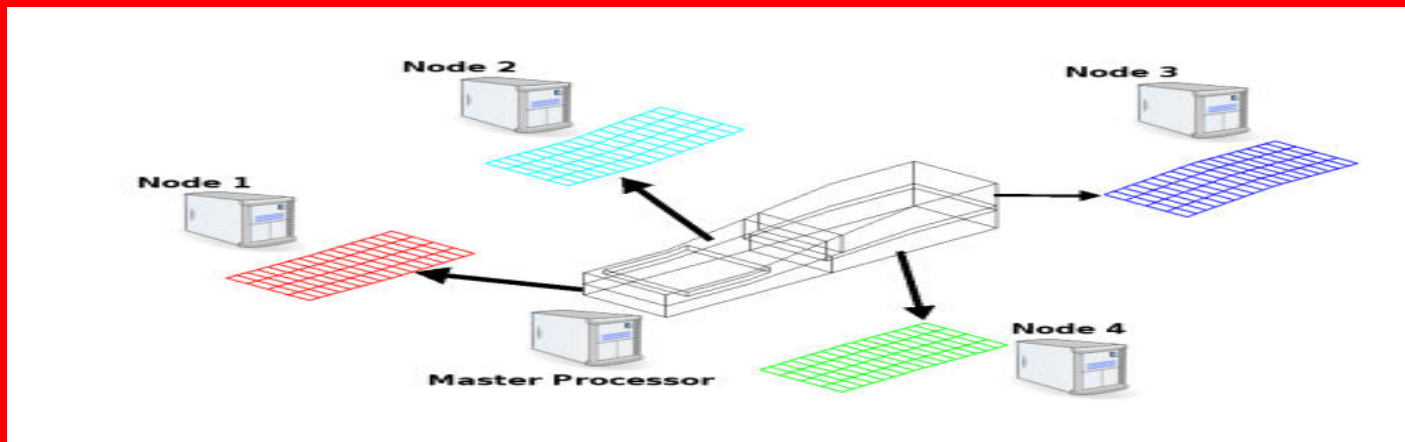
Mentor: Stephen Guerin

Parallel Processing Award

Presented by:

Teri Roberts, LANL

Sponsored by Lorie Liebrock, NMT



Parallel Processing Award

Winner:

Team 66 Los Alamos High School

3D Hydrodynamic Simulation of
Classical Nova Explosions

Team Member: Cole Kendrick

Sponsor: Brian Kendrick

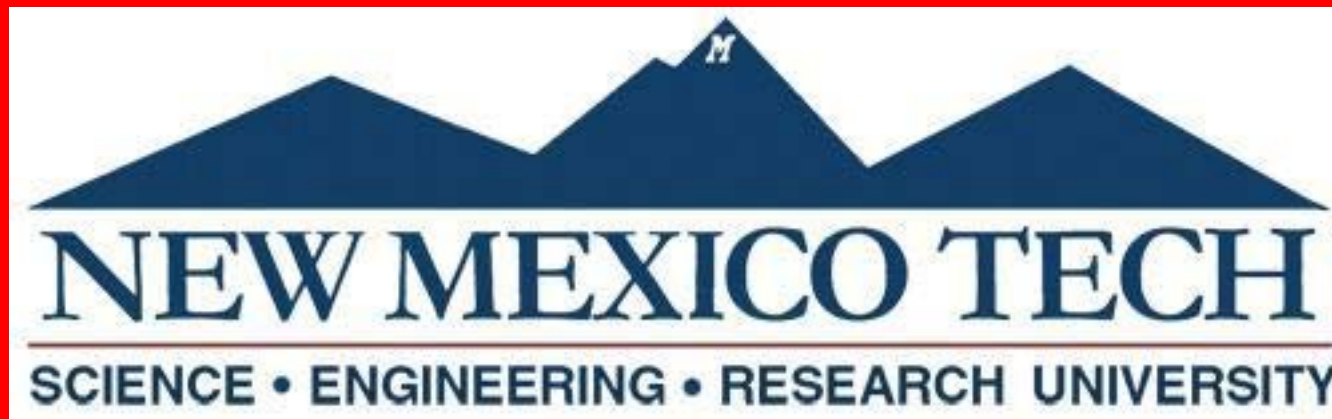
Mentor: Brian Kendrick

Best Visualization Award

Presented by:

Teri Roberts, LANL

Sponsored by Lorie Liebrock



Best Visualization Award

Winners:

Team 58 La Cueva High School

*Modeling Tree Growth and Resource
Use with Applications*

Team Members: Albert Zuo,
Eli EchtWilson

Sponsor: Jason DeWitte

Los Alamos National Laboratory Environmental Modeling Award



David Janecky, LANL

Los Alamos National Laboratory Environmental Modeling Award

Winners:

Team 151 Taos Middle School,

*Photosynthesis: The Reversal of
Pollution*

Team Members: Delaney E. Galligan,
Lena S. Schulze

Sponsor: Tracy L. Galligan

Best Computational Science Topic Award

Presented by Betsy Frederick

Best Computational Science Topic Award

Winners:

Team 101 NM School for the Arts

Getting Down on Dengue

Team Members: Kendra Carmona, Mohit
Dubey, Erin Ice-Johnson, Lauren
Sarkissian, Lila Faust

Sponsor: Ms. Acacia McCombs

Mentor: Stephen Guerin



Research Award:

***NM Water/Climate
Change***

Presented by:
Mary Jo Daniel and Natalie
Willoughby

Research Award

NM Water/Climate Change

Winner:

Team 51 Edgewood Middle School

Heavy Water

Team Member: Pete Talamante

Sponsor: Janice Portillo

Best Human-Computer Interaction Model

Presented by Stephen Guerin,
Simtable



Best Human-Computer Interaction Model

Winners:

Team 1 Academy for Technology and
the Classics/Santa Fe High

*ASL Detection for Practical
Implementation*

Team Members: Noah Caulfield,
Dmitri Malygin-Voorhees

Sponsor: Brady Gotcher

Best Written Report



Presented by:
Sue King, LANL

Best Written Report

Winners:

Team 58 La Cueva High School

*Modeling Tree Growth and Resource
Use with Applications*

Team Members: Albert Zuo

Eli Echt-Wilson

Sponsor: Jason DeWitte

Recognition of Judges

Michael Trahan,

Sandia National Laboratories

Principal Member of Technical Staff,
Integration and Test, Group # 5515

Eleanor Walther,

Sandia National Laboratories, Retired

Community Impact Award



Presented by
Ron Davis, ABBA

Community Impact Award

Winners:

Team 97 Miyamura High School

The Spread of Gang Activity in a Typical High School

Team Members: TyNolan Martinez, Aaron Wilson, Jeremy Cadman, Andres Escamilla, Sean Campos-Jaramillo

Sponsors: Ms. Dolino,

Mentor: Nick Bennett

Crowd Favorite



Presented by NM Tech Council
Tim Thomas, UNM Physics



Crowd Favorite

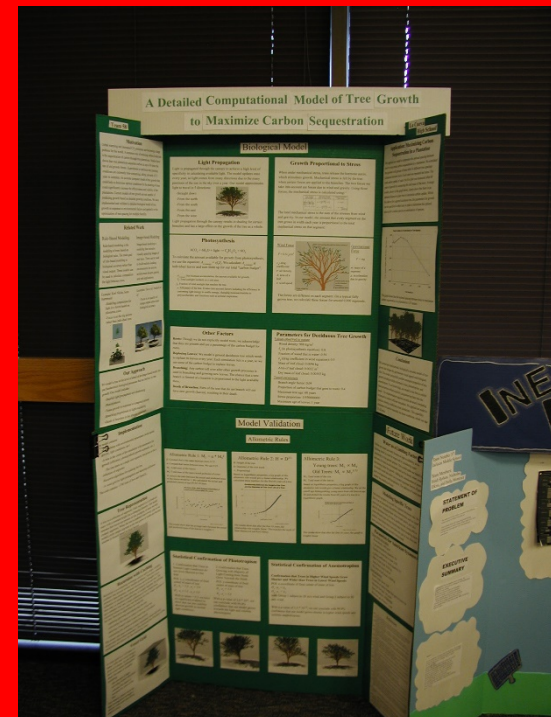
Winners:

Team 58 La Cueva High School

*Modeling Tree Growth and Resource
Use with Applications*

Team Members: Albert Zuo,
Eli Echt-Wilson

Sponsor: Jason DeWitte



Newcomer Award



Presented by
Peggy and Bob Robey

Newcomer Award

Winners:

Team 60 Las Cruces YWiC

Maximize lipid output and biomass production of algae in open pond batch systems for biofuel synthesis

Team Members: Ian Rankin, Ahmed Muhyi, Sophia Sanchez- Maes

Sponsor: Rebecca Galves

Mentor: Noor Muhyi

Magellan Award



Presented by
Peggy and Bob Robey

Magellan Award Winners

Winners:

Team 97 Miyamura High School

The Spread of Gang Activity in a Typical High School

Team Members: TyNolan Martinez, Aaron Wilson, Jeremy Cadman, Andres Escamilla, Sean Campos-Jaramillo

Sponsors: Ms. Dolino

Mentor: Nick Bennett

Best Web Presentation of Final Report



Tom Udall
U.S. Senator, New Mexico

Presented by Michele Jacquez-Ortiz,
Senator Udall's staff

Best Web Presentation of Final Report

Winners:

Team 74 Los Alamos Middle School

BLE: The Future of Bluetooth Low Energy

Team Members: Alex Ionkov, Ethan Aulwes

Sponsor: Pauline Stephens

Mentors: Latchesar Ionkov, Rob Aulwes

Senator Martin Heinrich's Middle School Award



Presenter:
Katie Richardson,
Field Representative for U.S. Senator
Martin Heinrich

Senator Martin Heinrich's Middle School Award

Winners:

Team 90 Melrose Middle School

It's a Bird, It's a Plane, It's Super Silage!!!

Team Members: Maggie Martin, Maryelle Dickerman, Hannah Wofford, Rebecca Rush

Sponsor: Alan Daugherty

Mentor: Keith "Taz" McAlister

Cray High Performance Award



Presented by
Mike Davis,
Cray Inc.

Cray High Performance Award



Winner:

Team 66 Los Alamos High School

*3D Hydrodynamic Simulation of
Classical Nova Explosions*

Team Member: Coleman Kendrick

Sponsor: Brian Kendrick

CHECS Research Award



Presented by Shaun Cooper,
IT Consultant
Retired NMSU Chief Operating Officer

CHECS Research Award



Winners:

Team 101 NM School for the Arts

Getting Down on Dengue

Team Members: Kendra Carmona,
Mohit Dubey, Erin Ice-Johnson,
Lauren Sarkissian, Lila Faust

Sponsor: Ms. Acacia McCombs

Mentor: Stephen Guerin

CHECS Teamwork Award



Presented by Shaun Cooper,
IT Consultant
Retired NMSU Chief Operating
Officer

CHECS Teamwork Award



Winners:

Team 6 Annunciation Catholic School
*Bone Stimulators and Their Use in Horses
and People*

Team Members: Evan Donnelly, Moira
Donnelly, Andreana Nourie, Megan Thomas

Sponsor: Mary Sagartz

Mentor: Tim Thomas

Teacher Appreciation Award

Presented by:

Melody Hagaman
2014 NCWIT Educator
Centennial High School
2013 Winner



“We know that when we get to a rough spot, we can count on her.

Ms. H does not give us the answer, but guides us as we work at it. She donates not only her time but her money as well. Ms. H always has time for students; she even opens up her room anytime we need help. Personally, we do not know how she does it. We admire her dedication and wish to follow her example.”

One of Ms. Hagaman’s students

Teacher Appreciation Award

Presented by:

Natasha Cordova
Moriarty High School

Teacher Appreciation Award

Winner:

Jennifer Cordova
Edgewood Elementary
School, Moriarty High
School Sponsor

Teacher Appreciation Award

Presented by:

Elena Martinez
Los Lunas High School

Teacher Appreciation Award

Winner:

Anne Loveless
Los Lunas High School

Supercomputing Challenge Technical Poster Award

Presented by Jerry Eichel



Technical Poster Award

Winner:

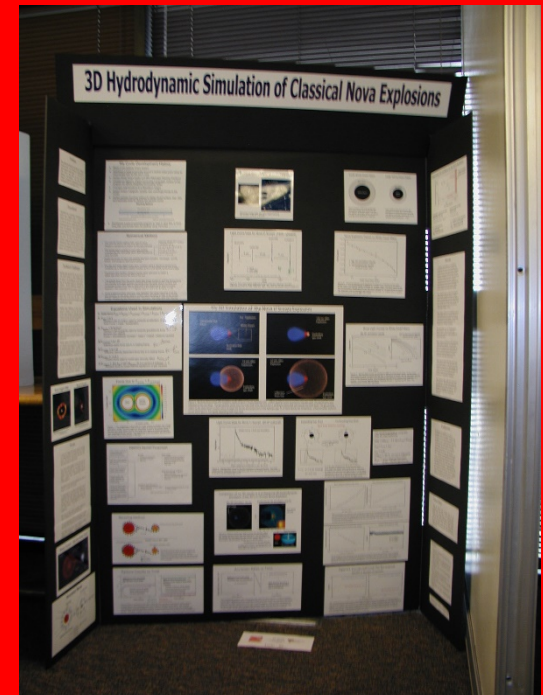
Team 66 Los Alamos High School

*3D Hydrodynamic Simulation of Classical
Nova Explosions*

Team Member: Cole Kendrick

Sponsor: Brian Kendrick

Mentor: Brian Kendrick



Graphical Poster Award

Supercomputing Challenge Logo
for 2014-2015

Presented by Shaun Cooper,
IT Consultant
Retired NMSU Chief Operating
Officer

Graphical Poster Award

Winners:

Team 1 Academy for Technology and the Classics/Santa Fe High

ASL Detection for Practical Implementation

Team Members: Noah Caulfield

Dmitri Malygin-Voorhees

Sponsor: Brady Gotcher



Sandia National Laboratories Creativity and Innovation Award



Presented by Matthew Curry
Sandia National Labs

Sandia National Laboratories Creativity and Innovation Award

Winners:

Team 144 School of Dreams Academy

Pathogen RPS

Team Members: Denton Shaver, James Edington

Sponsor: Creighton Edington

Mentor: Talysa Ogas



Sandia
National
Laboratories

New Mexico Network for Women in Science and Engineering



Presented by Eleanor Walther,
Sandia National Labs (Retired)



New Mexico Network for Women in Science and Engineering

Winners:

Team 90 Melrose Middle School

It's a Bird, It's a Plane, It's Super Silage!!!

Team Members: Maggie Martin, Maryelle Dickerman, Hannah Wofford, Rebecca Rush

Sponsor: Alan Daugherty

Mentor: Keith "Taz" McAlister

Programming Innovation Award



Presented by Drew Einhorn,
Friend of the Challenge

Sponsored by
Fourth Watch Business
Continuity Services LC

Programming Innovation Award

And the Pythonistas are..

Team 1 Academy for Technology and the Classics/Santa Fe High

ASL Detection for Practical Implementation

Team Members: Noah Caulfield

Dmitri Malygin-Voorhees

Sponsor: Brady Gotcher

Science Rocks



Presented by Tom Laub, Sandia

Science Rocks

Winner:

Team 141 School of Dreams Academy

Analyzing the Driving Distance of a Golfer

Team Member: Jose Montoya

Sponsor: Creighton Edington

Science Rocks

Winners:

Team 142 School of Dreams Academy

*The Effects of Hypergravity on Aliivibrio
fischeri*

Team Members: Maria Troyer, Victoria
Troyer, Kaleb Brown

Sponsor: Creighton Edington

Judges' Special Awards

Presented by
Eleanor Walther
Mike Trahan

Special Judges Award Social Science

Winner:

Team 123 Red Mountain Middle School

Depression In Nursing Homes

Team Member: Sammy Homsy

Sponsor: Mrs. Miller

Judges' Special Award
Ursa Major

Winners:

Team 56 Jackson Middle School

Too Many Or Not Enough

Team Members: Katrina Keller

Hannah Montoya

Sponsor: Karen Glennon

Mentors: Patty Meyer, Nick Bennett

Judges' Special Award
Best Use of the Cloud

Winners:

Team 63 Los Alamos High School

Linguistic Analysis of Twitter

Team Members: Sudeep Dasari
Colin Redman

Sponsor: Lee Goodwin

Mentors: Dr. Reid Priedhorsky, Venkat
Dasari

Sponsor Recognition

Let's give a big round of
applause for our sponsors!

The people in these
businesses and companies
helped us *Take the Challenge!*

Los Alamos National Laboratory
Los Alamos National Security, LLC

Sandia National Laboratories

Educational Partners:

CCL Netlogo, CHECS, Eastern New Mexico University, MIT Starlogo, New Mexico Computing Applications Center, New Mexico EPSCoR, New Mexico Highlands University, New Mexico Institute of Mining and Technology, New Mexico Public Education Department, New Mexico State University,
NMSU-Dona Ana Community College, Northern New Mexico College, San Juan College, Santa Fe Community College, Santa Fe Complex, Santa Fe Institute, University of New Mexico, UNM-CARC

Commercial Partners:

Abba Technologies/Hewlett Packard, Google CS4All/RISE, Lockheed Martin, The Math Works, Gulfstream Group and bigbyte.cc, VanDyke Software, Albuquerque Journal, CAaNES, Cray Inc, Fourth Watch Software, Innovate Educate NM, LANL Foundation, Lobo Internet Services, New Mexico Business Weekly, New Mexico Technology Council, PY Multimedia Services, Qforma, Redfish Group, Technology Integration Group

Outstanding Service Award



Presented by
Mohit Dubey

Outstanding Service Award

Winner:
Stephen Guerin



Mentor Extraordinaire

Scholarship Winners



Presented by Janeen Anderson,
Acaji, Inc.

UNM Scholarships



Jed Crandall, Assistant Professor of
Computer Science, UNM

The Computer,
Computational, and Statistical
Sciences Division of Los
Alamos National Laboratory

*Thank you for your generous contributions
to Challenge scholarship funds.*

NCWIT Aspiration Winners from New Mexico

Analyssa Martinez, Centennial HS, Team # 15

Maria and Victoria Troyer, SODA, Team #142

Chloe Grubb, SODA, Team #143

Taylor and Paige Torres, SODA, Team # 146

Danielle Garcia, SODA, Team # 145

**NCWIT National
Aspiration Winner**

**Rachel Washington,
Sat Sci & Math Acad, Team 140**

**Taylor Torres, SODA,
Team 146**

**And now, the moment we have
all been waiting for**

**John Sarrao,
LANL Associate Director
for Theory, Simulation, and
Computation (ADTSC)**

and

Congressman Ben Ray Lujan



■

Third Place

Winners:

Team 60 Las Cruces YWiC

Maximize lipid output and biomass production of algae in open pond batch systems for biofuel synthesis

Team Members: Ian Rankin, Ahmed Muhyi, Sophia Sanchez- Maes

Sponsor: Rebecca Galves

Mentor: Noor Muhyi

Second Place

Winner:

Team 66 Los Alamos High School

*3D Hydrodynamic Simulation of
Classical Nova Explosions*

Team Member: Cole Kendrick

Sponsor: Brian Kendrick

Mentor: Brian Kendrick

First Place

Winners:

Team 58 La Cueva High School,
*Modeling Tree Growth and Resource
Use with Applications*

Team Members: Albert Zuo
Eli Echt-Wilson

Sponsor: Jason DeWitte

First Place Winner's Project Overview

**Burritos will be served in the
kitchen.**

**Your choice of
Bacon/**Green***
Ham/
Sausage/
Veggie/**Green****

***no chile options available**

David Kratzer, Consult

Life is short.

Shorter for some than others.

Make a positive mark on the
world!