

Light Your Way

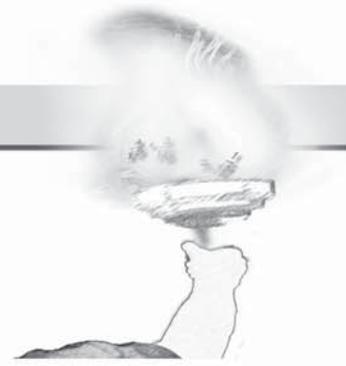
U.S. DEPARTMENT OF ENERGY

**2004 NATIONAL MIDDLE
SCHOOL SCIENCE BOWL**



**GOLDEN, COLORADO
JUNE 17 – 20, 2004**





Introduction

The Department of Energy has sponsored the National Science Bowl® for 14 years. Since its inception, more than 80,000 high school students have participated in this science education enrichment event. Because this event had been so successful, the Department of Energy Office of Science decided to pilot a Science Bowl for middle school students in 2002. There were seven regional events that first year, with 140 teams participating throughout the Nation, with the winning teams of those regionals participating in the National Middle School Science Bowl finals in Washington, DC, March 21-23, 2002. The event included a day of academic competition and a day of “hands-on” science and engineering, in which the teams designed, built, and raced model solar cars. Awards were given for both the academic and “hands-on” competitions. The responses from students and teachers were overwhelmingly positive to continue with this middle school event.

In 2003, the program was expanded to 16 teams, and in 2004 we were able to expand again to 20 teams. Those 20 teams are from 17 states. The National event, scheduled for June 17-20, 2004, in Golden, Colorado, will be hosted by the National Renewable Energy Laboratory (NREL) and the Colorado School of Mines, and co-sponsored by General Motors. NREL is the premier laboratory for renewable energy and energy efficiency research and development, and the finals will include a number of educational enrichment activities unique to NREL and GM.

There are two competitions at the National Middle School Science Bowl – an academic math and science competition and a model hydrogen fuel cell car race. The academic competition is a fast-paced question-and-answer contest where students answer questions about earth science, physical science, life science, math, and general science. The model hydrogen fuel cell car activity challenges students to design, build, and race model fuel cell cars.

Any current public, private, or home school student is welcome to form a team and participate in the regional Middle School Science Bowl. The regional champions from participating sites receive an all-expense paid trip to Golden, Colorado to participate in the national Middle School Science Bowl and/or Junior Solar Sprint event. The regional champions from participating sites receive an all-expense paid trip to Golden, Colorado to participate in the national event.



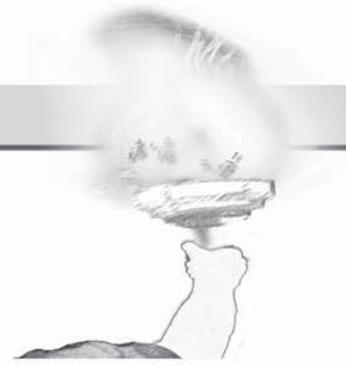


2004 Middle School Science Bowl

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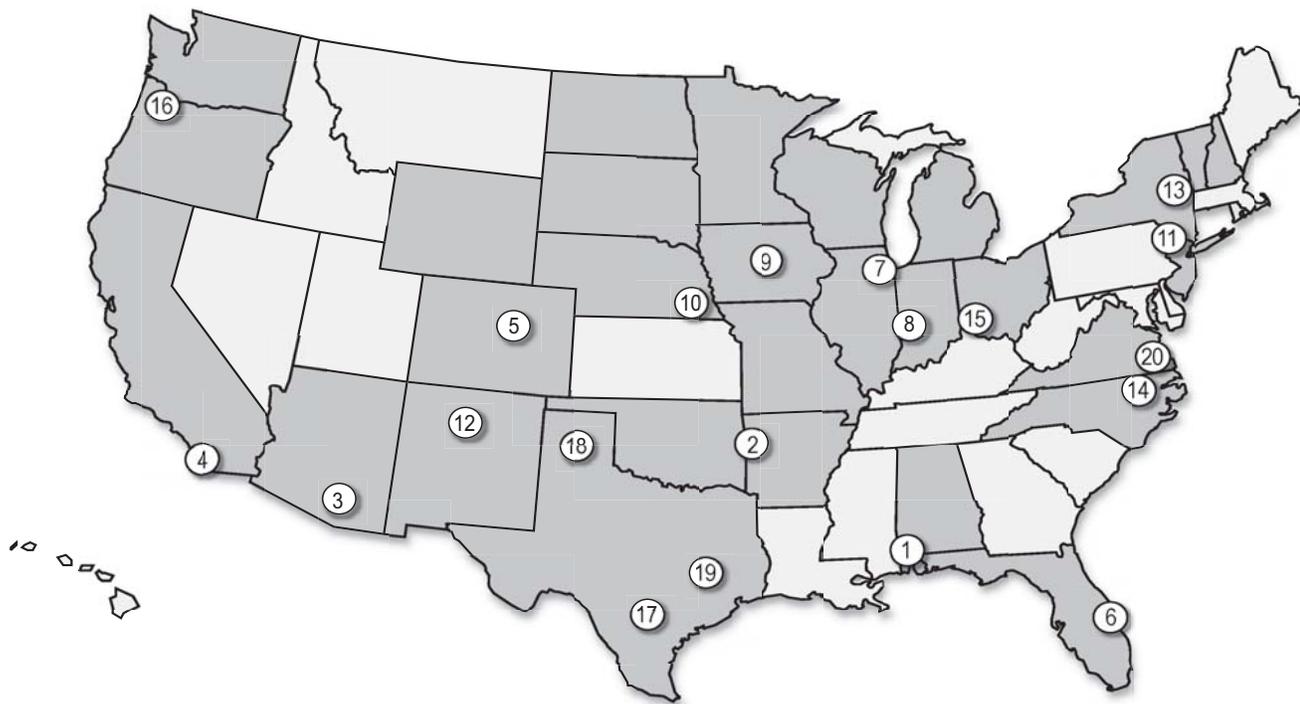


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2004 Middle School Science Bowl Facilities Hosting Regional Events



Note: The darker states show the home states of all the participating regional teams.

Alabama

1. Alabama School of Math & Science

Arkansas

2. Southside High School

Arizona

3. The University of Arizona

California

4. NOBCChE – San Diego Chapter

Colorado

5. National Renewable Energy Laboratory

Florida

6. Florida Solar Energy Center

Illinois

7. Argonne National Laboratory/CNH

Indiana

8. Indiana State University

Iowa

9. Ames Laboratory/Iowa State University

Nebraska

10. Natural Resources Conservation Service

New Jersey

11. Princeton Plasma Physics Laboratory

New Mexico

12. Sandia National Laboratories

New York

13. Northeast Middle School Bowl

North Carolina

14. North Carolina State Solar Center/Wake Technical College

Ohio

15. NOBCChE – Midwest Chapter

Oregon

16. University of Portland/Bonneville Power Administration

Texas

17. Southwest Texas Regional
18. Pantex Plant
19. Texas A&M University

Virginia

20. Thomas Jefferson Laboratory





**Academy of the Holy
Names Lower School
Albany, New York**

**Northeast Middle School
Bowl**



Left to right: Farzeen Khosravi, Michelle DeVito, Bridget Peer, Susanna Todaro

Team Coach: **Dr. Alicia Butler Todaro** received her B.A. in Chemistry from Russell Sage College in Troy, NY and her M.S. and Ph.D. from RPI in Troy, NY. She has been teaching chemistry at Siena College in Loudonville, NY for 16 years. Her daughter attends the Academy of the Holy Names. Alicia volunteered to coach this team and is extremely glad that she did!

Team Members: **Michelle DeVito** is in eighth grade and is an avid soccer player. She plays on her schools junior varsity team and a local travel team. She enjoys reading, shopping and going to the movies with her friends. Her favorite books are *Emma* by Jane Austen and the books of Sophia Kinsella. Michelle's favorite subjects are science, English, and history. Michelle would like to attend college at Columbia, Yale, or the University of Pennsylvania. Michelle would like to become a doctor and attend medical school at Yale University as well. **Farzeen Khosravi** is an eighth grader who enjoys swimming and playing tennis. Farzeen's favorite subjects are science and math. This year, she participated in The Greater Region Science Research Fair. She would like to go to Yale University and become an eye doctor. **Bridget Peer** is an eighth grader whose favorite subjects are math and science. She enjoys playing PlayStation 2, reading murder mysteries, and playing Yu-Gi-Oh. She is an avid Orlando Bloom fan. She hopes to go to college in England or Scotland, and become a neurosurgeon or a homicide detective. **Susanna Todaro** is an eighth grader who enjoys math and science, though she would rather bypass biology. This year, she participated in MathCounts, and has also competed in smaller math competitions several times. Outside of school, she competes on a competitive swim team and participates with enthusiasm in her church youth group. She also hopes to attend college in England or Scotland, and her dream career is to work in computer generation at Weta Digital in New Zealand.

Science is organized knowledge.

Herbert Spencer (1820 – 1903)
English Philosopher





Boone Middle School Boone, Iowa

Ames Laboratory/Iowa
State University

Left to right: Dan Baker, Kyle Culp, Matt Hurley, Sid Pitt, Susan Duffee (Coach)

Team Coach: Coach **Sue Duffee** is the facilitator of the 7th – 12th grade gifted and talent program (ExCEL) at the Boone Middle/Senior High School. She is also coach of the Boone High School Academic Team and adviser to the school's chapter of the National Honor Society. She has been teaching for 19 years and received her B.A. degree from Berea College, Berea, Kentucky; her Master's degree is from Viterbo College, LaCross Wisconsin. In her spare time she enjoys reading and gardening.

Team Members: **Daniel Baker** is an eighth grader and his hobbies include wrestling and bmx bike riding. His favorite classes in school are chorus and science. In the future, he plans to become a surgeon in the Marine Corps. An interesting fact about David, is that he always wears white t-shirts. **Kyle Culp** is an eighth grader and his favorite subjects in school are art and ExCEL. In his free time, Kyle enjoys drawing. He belongs to the Boy Scouts of America, DeMolay International, and the Technology Student Association. In the future, he plans to be an artist. An interesting fact about Kyle, is that he has taken the ACT twice. **Matt Hurley** is an eighth grader and his hobbies include drawing, reading, spending time on the computer, and collecting dice. He is involved in 4-H, DeMolay, TSA, and his church's youth group. After high school, he hopes to go to college, and afterwards, either compose music or work with computers. His favorite subjects are orchestra, ExCEL, and visual arts. He is very original. **Sid Pitt** is an eighth grader. His favorite classes are computer and ExCEL. Sid's hobbies include playing video games, reading, and using computers. Upon graduating high school, he wants to go to DIT in Washington and work as a game designer. An interesting fact about Sid is that this is his first year at Boone.

Science is the systematic classification of experience.

George Henry Lewes (1817 – 1878)
English writer and critic





**Brandon Middle School
Virginia Beach, Virginia**

**Thomas Jefferson
Laboratory**



Left to right: Nick Garcia, T. J. Berry, Shaun Sutherland, Matthew Samson, Sandy Jackson (Coach)

Team Coach: **Sandy Jackson** graduated from Virginia Tech with a B.S. in Home Economics Education. She began teaching Life and Earth Science in Lynchburg, Va. and fell in love with science. Sandy has been teaching science at Brandon Middle School in Virginia Beach for 20 years. She presently teaches both Earth Science and Physical Science. She has been married to Larry Jackson for 23 years and has three children. Her oldest child, Christine, is a graduate of VA Tech and is planning to be married this fall. Her son, a senior at Tallwood High School, will graduate on June 17, and then plans to attend VA Tech in the fall to major in Animal Science. Her youngest child, Kimberly, is a freshman at First Colonial High School's Legal Studies magnet school. Sandy is very active in her church, loves to read, and likes to sew.

Team Members: Eighth grader **T.J. Berry's** academic interests are focused in the math and science fields. He is also very involved in band, playing three instruments, and participates in National Junior Honor Society and Yearbook Club. Outside of school, you will find T.J. at the skeet range, where he has won awards for his marksmanship. During the latter months of the year, T.J. frequents all the local turkey shoots. He is also very involved in his church and plays baseball for the neighborhood recreation league. **Nick Garcia** is in the eighth grade and enjoys math, science, and participating in interscholastic competitions. He is a member of the National Junior Honor Society, a Boy Scout of Star rank, and he recently joined the wrestling team. Nick's hobbies are playing electric guitar and violin, coin collecting, skateboarding, and hanging out with friends. Nick plans to become a surgeon someday. **Matthew Samson** is in the eighth grade and has a younger sister, Malerie. Matthew's favorite subject is Algebra. When he has no homework, he enjoys playing video games and watching television. Matthew also enjoys playing basketball and the bass guitar with friends. Eighth grader **Shaun Sutherland** is a member of the National Junior Honor Society and has received the Academic Achievement Award each year while at Brandon. Shaun has been a member of the Brandon wrestling team throughout his middle school years. He is first chair trumpet in the advanced band and is also a member of the pep band, jazz band and festival band. He placed third in the City of Virginia Beach reflections contest for writing a music selection. Shaun enjoys playing X-box in his spare time and looks forward to continuing his education next year at Tallwood High School.

Science is simply common sense at its best that is rigidly accurate in observation, and merciless to fallacy in logic.

Thomas Henry Huxley (1825 – 1895)
English biologist





**Chaffin Junior High
School
Fort Smith, Arkansas
Southside High School**



Left to right, back row: Miranda Pitsch, Chad Thurman, front row: Josh Railey, Lynh Duong

Team Coach: **Sandra Aaron** received a Bachelor's degree in English, and that is what she taught for several years until she earned a Master's degree in Gifted and Talented Education. Sandra has taught Gifted and Talented at Chaffin Junior High School for the past 15 years. In addition to coaching the Science Bowl team, she also coaches the Quiz Bowl teams and the BEST Robotics team.

Team Members: **Lynh Duong** is in the eighth grade and attended Bonneville Elementary School before coming to Chaffin Junior High. She enjoys sports, shopping, and school. Lynh is in the National Junior Honor Society, C.A.T.S., Science Bowl, Quiz Bowl, and K.M.O. She is also an awesome Buddhist. **Miranda Pitsch** is in the eighth grade at Chaffin Jr. High School. At school, she is involved in athletics, choir, G.A.T.E., Quiz Bowl, BEST robotics, and K.M.O. Her favorite subjects in school include math, science, and history. Outside of school, Miranda enjoys playing volleyball, singing, being involved in her church youth group, and babysitting for her younger sister. **Josh Railey** is an eighth grader at Chaffin Jr. High School and sometimes is a little strange. He has been in K.M.O., BEST Robotics, Quiz Bowl, Science Bowl, and G.A.T.E. class. Josh likes to play the violin and piano. **Chad Thurman** is in the eighth grade at Chaffin Junior High. He enjoys drawing, playing his acoustic guitar, listening to music, practicing Tae Kwon Do, playing tennis, and going to church. Chad is a member of The National Junior Honor Society, Science Bowl, Quiz Bowl, Partners in Christ, and K.M.O. His favorite school subjects include math, art, and science, and he plans to study art or computer tech.

Science is nothing but developed perception, interpreted intent, common sense rounded out and minutely articulated.

George Santayana (1863 – 1952)
U.S. philosopher and writer—
The Life of Reason





**Cincinnati Alliance
Cincinnati, Ohio**

**NOBCCHE – Midwest
Chapter**



Left to right: Christopher Agomuo, Adekemi Ademuyewo, Olufemi Taiwo, Oli Ononye

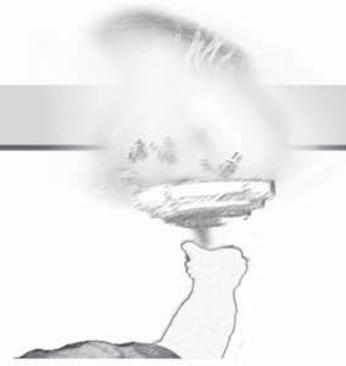
Team Coach: Coach **Kim D. Jackson** was born and raised in Detroit, MI. She attended Wayne State University and graduated in 1995 with B.S. Chemistry (Honors) and University Honors degrees. She is the first African-American female to receive both simultaneously. Kim began a career at Procter & Gamble in 1995. In 2003, she and Ike Ononye began an educational program for African-American students at the middle school level designed to develop interest and proficiency in science and mathematics. Coach **Ike Ononye** is originally from Nigeria and received a B.S. in Chemistry from the University of Ibadan, Nigeria and a Ph.D. in Chemistry from the University of Western Ontario, Canada. He has taught high school physics and chemistry, and undergraduate chemistry. During his secondary-school days, he enjoyed helping his classmates solve problems in science and math. This motivated him to pursue a career in science. Although he is currently involved in R&D work with Procter & Gamble, he loves every opportunity he has to help coach students in science and math. In Ike's spare time he enjoys tennis, piano, and gardening.

Team Members: **Adekemi Seri Ademuyewo** is a sixth grader at Robert E. Lucas Intermediate School in Cincinnati. Her favorite subjects are math, science, and social studies. Adekemi participates in the school choir and dance ensemble. Her out-of-school activities include Candy Striping and Cadet Girl Scouts. After high school, Adekemi would like to attend an out-of-state university and major in either astrology or architecture. Eighth grader **Christopher Agomuo** was born in Cincinnati, Ohio and attends Mason Middle School, where his favorite subject is science. Chris participates on a tournament-winning soccer team and is a member of the track and field team. He has won two first place medals for track. In his spare time, Chris enjoys computers and playing football. **Aloysius Ononye**, "Oli," is in the eighth grade at Sycamore Junior High. His favorite subjects are math and science. Oli is a member of the Latin Club and the soccer and track teams. After high school, he plans on going to Xavier University to study engineering and then plans to pursue a Ph.D. at M.I.T. In his spare time, Oli performs charity work at nursing homes and missionaries. Eighth grader **Olufemi Taiwo** was born in Oakland, California and learned to read by the age of two! During the first grade, he won the OCTELA Writing Contest for his age group. In the sixth grade, he wrote an essay on Zero Tolerance in school that won him a Guest Columnist spot in the Cincinnati Enquirer. Olufemi is currently pursuing the creation of a kid's organization assembling some of the most gifted minds in order to make serious contribution to American society. He plans to attend Yale University.

Science is facts; just as houses are made of stone, so is science made of facts; but a pile of stones is not a house, and a collection of facts is not necessarily science.

Jules Henri Poincaré (1854 – 1912)
French mathematician





**College Station Middle
School
College Station, Texas
Texas A&M University**



Left to right: Caroline Jones (Coach) Ali El-Halwagi, Alex Liu, Rahul Srivastava, Jeffrey Chen, Will Rooney

Team Coach: **Caroline Jones** graduated from Texas A&M University and has taught math at College Station Middle School for nine years. She coaches the MathCounts and UIL math teams as well as sponsoring Chess Club and Science Bowl. Caroline enjoys reading and quilting. She is attempting to learn violin and Chinese.

Team Members: **Jeffrey Chen** is an eighth grader who spends most of his spare time reading and listening to classical music. Jeffrey enjoys playing chess and doing mathematics, as is evidenced by the many math competitions in which he participates. **Alex Liu** is an eighth grader who is interested in science, math, and music. Alex enjoys computers and tennis. He participates in orchestra, Math Counts, and is a member of the National Junior Honor Society. **Will Rooney** is a seventh grader whose interests include Tae Kwon Do, swimming, computers, and reading. His favorite subjects are math, science, and law. Will is active in 4-H club, student council, UIL competitions, and Crime Stoppers. **Rahul Srivastava** is an eighth grader who enjoys computers and collecting basketball cards. In his free time, he likes to play basketball, tennis, or computer backgammon. Rahul also enjoys participating in various math and science competitions as well as playing for the school basketball team.

*Science is the great antidote to the
poison of enthusiasm and superstition.*

Adam Smith (1723 – 1790)
Scottish economist—
The Wealth of Nations





**Crockett Middle School
Amarillo, Texas**

Pantex Plant



Left to right: Tyler Rittenhouse, Jonathan Harris, Lindzee Roten (Alternate), Bryan Mitchell (Captain), Kelsey Jones, Marcella Herrington (Past Coach)

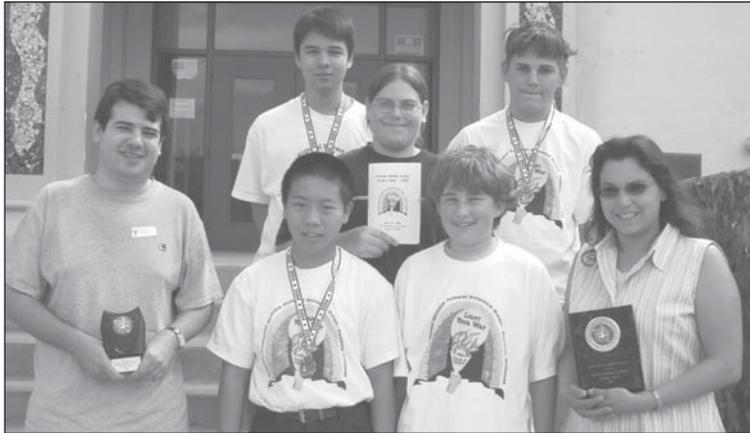
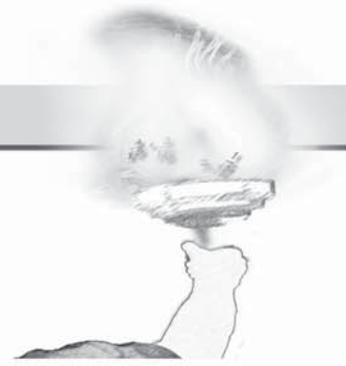
Team Coach: Coach **Amy Warden** is a science teacher at Crockett Middle School. This is her fourth year teaching seventh grade. She is also the student council sponsor. Amy received a Bachelor's degree in Wildlife Biology with a minor in Wildlife Management from West Texas A&M University. She has a wonderful husband and three-year-old son. One interesting fact that most people don't know is that she has a collection of poetry that she has been writing since high school! She feels fortunate to be here with a terrific group of students and a wonderful support group of parents and friends.

Team Members: **Jonathan Harris** is an eighth grader who has been on the "A" Team in football and basketball, and currently runs track. He also participates in Math Counts and plays the trombone in the band. Outside of school, he likes to hang out with friends and play video and computer games. His favorite subjects are science and math. An interesting fact about Jonathan is that he loves sports and spends a lot of time with athletics, but he still makes good grades. Jonathan wants everyone to know, "Jocks are not dumb!" **Kelsey Jones** is an eighth grader whose interests and favorites are always changing. Currently, Spanish, science, and math are the only three subjects she would take—if she had a choice. One of her long-standing goals is to learn how to speak, read, and write Russian, after, of course, Spanish. She plans to go to medical school and become a pediatrician, since she loves kids. Kelsey's favorite quote is, "Shoot for the moon, and if you miss, you'll still land among the stars." **Bryan Mitchell** is an eighth grader obsessed with video games. What makes them tick, the art of playing them, and how tedious coding them is. In his spare time, he (what else) cruises the Internet for more RPG's to download, play, and scrutinize. Bryan plays clarinet in the band. His favorite subjects are math and band. Bryan wants to become a computer programmer (but a stand-up comic is also fine, but he has to build himself up though). **Tyler Rittenhouse** is an eighth grader who plays football and runs track. He likes to build stuff, work on cars, and play with friends. His favorite subjects are algebra and science. Tyler is a very good skier, kneeboarder, and bike rider, and loves the outdoors.

Science is what you know. Philosophy is what you don't know.

Bertrand Russell (1872 – 1970)
English philosopher and mathematician





Doolen Middle School Tucson, Arizona

The University of Arizona

Left to right, front row: David Garza (Coach), Matthew Hom, Nick Ellett, Elizabeth Guevara (Coach), back row: Steven Fan, Aaron Quick (Captain), Erich Winters

Team Coach: **David Garza** is a University of Arizona senior majoring in physics, astronomy and math. In addition to his hobbies of astronomy, RC gliders and politics, David volunteers at Doolen Middle School once a week through Project Astro, which he finds very rewarding. **Elizabeth Guevara** currently teaches eighth grade science GATE Students at Doolen. She has seven years of teaching experience, most of which was done in Texas at the elementary school level. She received her B.S. in Biology from the University of Texas at San Antonio and a M.A. in Multidisciplinary Science from the University of the Incarnate Word. She has three sons who keep her very busy with their sports and extracurricular activities.

Team Members: **Nick Ellett** is an eighth grader whose favorite subject is social studies. An avid mountain biker, he also enjoys fishing, building bikes, snowboarding and paintball. He is on the school soccer team. He plans to attend Colorado State University. **Steven Fan** is in Doolen's eighth grade GATE (Gifted & Talented) program. Some of his favorite activities are soccer, Kempo Karate, paintball, web design, experimenting with electrolysis, and reading. He is considering becoming an architect, engineer, or chemist. **Matthew Hom**, also an eighth grader, says his favorite subject is math. He enjoys reading, playing the piano, and spending quality time with his family and friends. Currently his plans for college and career are still in the developmental stage, but he knows he will be a life-long learner. **Aaron Quick**, an eighth grader, enjoys playing soccer and the role-playing adventure game, Dungeons and Dragons. He plans to teach math at either the elementary school or college level. Another eighth grader, **Erich Winters**, doesn't really have a favorite subject, although he does exceedingly well in social studies. His hobbies include flying model rockets and playing paintball. He plans to attend Salpointe High School next year. He's either going into the military, or attending college to major in music or politics.

*It requires a very unusual mind to
undertake the analysis of the obvious.*

Alfred North Whitehead (1861 – 1947)
English philosopher and mathematician





**Honey Creek Middle
School
Terre Haute, Indiana
Indiana State University**



Left to right, front row: E. G. Wright, Pardha Ponugoti, Second row: Peter Duong, Brian Harvey, Back row: Bob Fischer (Coach), Carol Tolin (Coach)

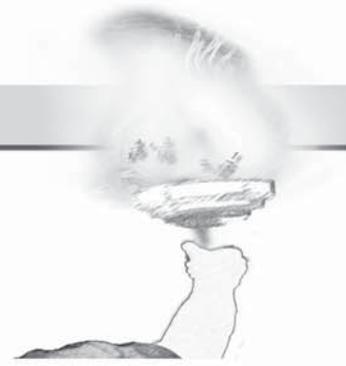
Team Coach: **Carol Tolin** was born in Terre Haute and received her Master's degree from Indiana State University. She has taught science for 33 years with the last 10 years being involved in gifted and talented. She enjoys gardening, golf, and tennis.

Team Members: **Peter Duong** is in the eighth grade. He plays tennis and chess, and is first chair in orchestra, playing the viola. **Brian Harvey** is an eighth grader who was born in Terre Haute, IN. He is good at drawing, math and science. He is also second chair violinist. **Pardha Ponugoti** is in the seventh grade. He participated in the MATHCounts competition. He enjoys playing tennis, and basketball. He wants to go to Stanford for college and hopes to be a valedictorian. **E.G. Wright** is an eighth grader who plays tennis, basketball, and chess. E.G. was on the MATHCounts team and is looking forward to doing well at Golden, Colorado.

*[Science is] the labor and handicraft of
the mind.*

Francis Bacon (1561 – 1626)
English essayist, philosopher, statesman





**Jack Jordan Middle
School
San Antonio, Texas**

Southwest Texas Regional

Left to right: Chris Riley, Justin Garcia, Barbara Hart (Coach), Robbie Blount, George Valdemar

Team Coach: **Barbara Hart** teaches seventh grade math at Jack Jordan Middle School. Mrs. Hart has been teaching for 19 years. She received her undergraduate degree from the University of Binghamton. She earned a Master's from Southwest Texas State. Mrs. Hart has been working the Solar Car program for eight years.

Team Members: **Robert Blount II** is an eighth grader at Jack Jordan Middle School. Robert plays soccer for a Division One Team. He also played basketball for Jordan. He hopes to play soccer in high school. Robby is a member of the National Junior Honor Society. Math and science are his favorite subjects, and he has been involved in Solar Car since the second grade. He will attend Communication Arts High School next year and plans to go to MIT after finishing high school. **Justin Garcia** is an eighth grader at Jack Jordan Middle School. He plays football, basketball and runs track for Jordan. He is in the National Junior Honor Society. Justin hopes to go to The University of Texas at Austin. Justin will attend Warren High School next years and hopes to play football. **Chris Riley** is an eighth grader at Jack Jordan Middle School. He plays basketball for Jordan. This is Chris's second year in Solar Car. Chris will attend Warren High School next year. He hopes to attend the University of Texas at Austin. **George Valdemar** is an eighth grader at Jack Jordan Middle School. George played football for Jordan and this is George's second year in Solar Car. He will attend Warren High School next year. George hopes to attend the University of Texas at Austin.

[Science is] the literature of truth.

Josh Billings (Henry Wheeler Shaw)
(1818 – 1885) U.S. humorist





**Jenkins Middle School
Colorado Springs,
Colorado**

**National Renewable Energy
Laboratory**



Left to right Linda Ciolek (Coach), Daniel Gradisar, Jacob Woehrman, Nick Baker, Nic Mahoy

Team Coach: **Diana Biggs** is a sixth grade science and language arts teacher at Jenkins Middle School, having been with D-11 for fifteen years. She is faculty advisor of the Science Club, the Science Bowl, Science Olympiad, and the Battle of the Books. Her former teaching experience includes a one-room school in Tendoy, Idaho. Her undergraduate degree is from the College of William and Mary, and her Masters' Degree in teaching integrated natural sciences is from Colorado College. She was awarded an E2020 grant to work as a teacher/scientist and attended the Keystone Science School's Key Issues summer program. She is also a licensed wildlife rehabilitator with the Colorado Division of Wildlife, and volunteers as an injured and sick wildlife transporter.

Team Members: **Nick Baker** is an eighth grader, and will be a freshman at Doherty High School in the fall. He enjoys swimming and soccer and is a self-taught pianist. Nick also plays the viola and the clarinet. He competed in the Science Olympiad for two years, and likes the challenge of building things. Math and science are his favorite subjects. His future plans are to attend the Colorado School of Mines, Harvard, or MIT. **Daniel Gradisar** is a seventh grader whose favorite subjects are math, science, and social studies. He is a black belt in karate and enjoys swimming, baseball, and football. This summer he will travel to Mexico on a mission to build a home for a family. He competed in the Science Olympiad this year, and received recognition from the Rocky Mountain Talent Search. Daniel says he would like to do his Master's work at the Colorado School of Mines. **Nic Mahoy** is in the eighth grade and will be a freshman at Coronado High School this fall. He took first place in the Math Meet for three years while in middle school. He won an award in the solo jazz competition playing trombone and has been accepted in the Jazz Band One at Coronado H.S. Nic has competed in triple jump, hurdles, and the mile events. He also took third place in the Geography Bee and won the Current Events competition this year. In his free time, he enjoys video games. **Jacob Woehrman** is an eighth grader, and will be a freshman this fall at Doherty High School, where he has been accepted into the AVID program. Math and science are his favorite subjects. Football and track are his favorite sports; with triple jump, long jump, and the two-meter race being his preferred track events. Jacob has been an active participant in Science Club. This summer he will be volunteering at the Pueblo Raptor Center. He enjoys fly-fishing and camping.

[Science is] practical philosophy.

René Descartes (1596 – 1650)
French philosopher, mathematician.





**Joyce Kilmer Middle
School
Trenton, New Jersey**

**Princeton Plasma Physics
Laboratory**



Left to right: Valerie Butler (Principal), Quashon Nolan, Bruce Williams (Coach), Jessica Bradley, Kiera Mudd, Antoinette Mack (Captain), Carla Millner (Coach),

Team Coach: **Bruce Williams** teaches eighth grade math and sixth grade science. He has been teaching for 3.5 years, and has a B.S. in Engineering from Florida A&M University and a M.B.A. from the University of Maryland. He enjoys all outside sports and has a special interest in aviation. He spent six years in the military, where he jumped out of a perfectly good airplane 30 times. **Carla C. Millner** teaches seventh and eighth grade science at Joyce Kilmer Elementary School in Trenton, N.J. and is advisor to Student Council. Carla's hobby is reading. She enjoys watching CSI and the many Discovery channels on TV, spends a lot of time working in the garden, and enjoys outdoor activities. This is her 12th year teaching. Carla received a Bachelors in Education from The College of New Jersey and is currently working on a Masters degree in Curriculum and Instruction at Central Michigan University, while taking science courses independently at Camden County College. She has always loved science and spends many hours working on things related to science.

Team Members: **Jessica Bradley** is a seventh grader at Joyce Kilmer. Her interests are soccer, basketball, reading, and video games. She is on the soccer team. Now she is in Project S.M.I.L.E. at Mercer County Community College. Her favorite subjects are math and science. She wants to go to UCLA or HPU and become a marine biologist. **Antoinette Mack** is a seventh grader at Joyce Kilmer Middle School. Her interests are soccer and track. The school clubs she participates in are cheerleading and track and field. Her favorite subject in school is math. She wants to go to Princeton University and become a scientist. She also likes to travel. **Kiara Mudd** is a seventh grader at Joyce Kilmer Middle School. Some of her hobbies are track and soccer. The school club she participates in is track and field. Her favorite subject is science. She would like to attend college but is not sure which one she would like to go to. **Quashon Nolan** is a seventh grade student at Joyce Kilmer Middle School. His interests are basketball, baseball, football, and swimming. The school club he participates in is baseball. His favorite subjects in school are math and science. The colleges he would like to attend are either Duke University or Georgetown University and he would like to be a heart surgeon someday.

*[Science is] a series of judgments,
revised without ceasing*

Pierre Emile Duclaux (1840 – 1904)
French biochemist, bacteriologist





**Los Alamos Middle
School**
Los Alamos, New Mexico

**Sandia National
Laboratories**



Left to right: Adam Trujillo, Alex Martin, Ben Dozier, Jeannie Heacock (Coach), Karen Ho

Team Coach: Coach **Jeannie Heacock** presently coordinates the Gifted and Talented Education (GATE) program at Los Alamos Middle School. She team teaches seventh and eighth grade GATE science and seventh grade GATE language arts, and teaches technology classes. She works with students on Science Bowl, Science Fair, NASA projects, Young Naturalist projects, and National History Day projects. She has been teaching for 26 years and has spoken at local, state, regional, national, and international conferences. She lives in the mountains and enjoys hiking, bird and wild animal watching, crewel embroidery, technology, reading, and meditation.

Team Members: **Ben Dozier** is an eighth grader whose interests include science, math, geography, soccer, tennis, and computer programming. He participates in soccer and tennis clubs as well as Science Bowl. He plans to pursue a career in physics, math, or a computer related field, and hopefully earn a doctorate in one of these areas. He enjoys reading and doing various things on his computer. **Karen Ho** is an eighth grader who enjoys playing video games and reading. She likes to ride her bicycle, and play Dance Dance Revolution, a video game where you hit the arrows as they appear on the screen with your feet on a special controller. Math is her favorite subject and she loves animals, especially dogs. She hopes to have a career as a vet or some other job involving animals. **Alex Martin** is in the seventh grade and likes robotics, Monty Python (spam), and foreign languages (especially Russian and Polish). He is in Boy Scouts, Science Bowl (obviously), plays the saxophone in the Los Alamos Middle School band and takes piano lessons. His favorite subjects are band, French, social studies (especially ancient civilizations), and science. He likes to write, read, play on computer, and pitching in baseball. **Adam Trujillo** is a seventh grader and his favorite subject is social science. He competes in the Great Auk Spelling Bee and Science Bowl. In the Spelling Bee he won for his school and the county. Adam enjoys humor, games of any sort, The Simpsons, geography, and electronics. He practices Reform Judaism, and is an avid reader with strong political views.

[Science is] the desire to know causes.

William Hazlitt (1778 – 1830)
English essayist





Left to right: Rich Powers (Coach), Ellana Haakenstad, Erin Reynolds (alternate), Ryan Pickerill, Alex Churchill, Nikki Beecher

Lux Middle School Lincoln, Nebraska

Nebraska – Natural Resources Conservation Service

Team Coach: **Rich Powers** earned his B.S. in Middle Level Education and his M.A. in Curriculum and Instruction at the University of Nebraska-Lincoln. He has been teaching for 15 years as a middle school science and technology teacher and enjoys finding new ways to integrate technology into the classroom. He has coached a National Science Olympiad Team and after-school sports. Rich, his wife, and four children live in a small community where they enjoy church, sports, and family activities.

Team Members: **Nikki Beecher**, an eighth grader, enjoys Science Bowl and Destination Imagination. She plays softball, tennis, volleyball, and soccer. She is a soccer referee and volunteers at the local zoo. Nikki also likes to play video games, read, do art, and take care of her pets. Her favorite subjects are math and science. After high school she would like to go to college and study engineering or veterinary medicine. **Alex Churchill** is an eighth grader. Alex not only participates in Science Bowl, but also is a national competitor in MathCounts, and a member of the school's band, jazz band, and orchestra. Outside of school, Alex enjoys tennis, golf, and his local church youth group. Math and science are definitely his favorite subjects. He likes math because it makes sense and he is good at it, and he likes science because it is interesting. After high school, Alex would like to go to college and major in math. **Ellana Haakenstad**, an eighth grader, is involved in cheerleading, volleyball, and Science Bowl. Her favorite subject is social studies because she is fascinated by how the smallest choices made by people can lead to huge world conflicts. After high school, she would like to study medicine in college. **Ryan Pickerill**, an eighth grader, is involved in Science Bowl and is excited about fuel cell technology. He has many hobbies but really enjoys collecting coins. His favorite subjects in school are science and math. He wants to go to college after high school but is unsure about which college he wants to attend.

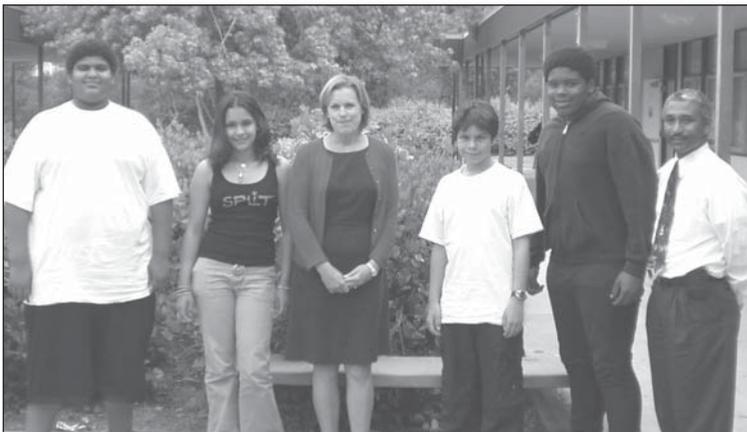
*[Science is] an imaginative adventure
of the mind seeking truth in a world of
mystery*

Sir Cyril Herman Hinshelwood
(1897 – 1967) English chemist.
Noble Prize 1956





**Muirlands Middle
School
La Jolla, California**
**NOBCCChE – San Diego
Chapter**



Left to right: Michael Valentine, Nikki Serna, Christine Hargrove (Principal), Nic Sonderegger, Ja'Rodd Watson, Walter Fairley (Coach)

Team Coach: **Walter Fairley, Jr.**, earned his B.A. in history from San Diego State University and a Master's in Education Administration from National University. He is currently the Vice Principal at La Jolla High School, a California Distinguished School. During his eight year tenure as coach of the La Jolla High School NOBCCChE Science Bowl team, the team has placed in the top five nationally, the last five years in a row.

Team Members: **Nikki Serna** is an eighth grader at Muirlands Middle School. She is very active in school activities. She enjoys math and science and is very eager to try new things. This is her first year competing with NOBCCChE. **Nic Sonderegger** is a seventh grader at Muirlands Middle School. He is very active in school activities and competed in the Egg Drop Competition in the San Diego Science Olympiad. He loves art, surfing and the beach. He participates in the San Diego Children's Chorus and is a Boy Scout with Troop 500 in Lt. Loma, CA. He hopes to be a veterinarian. This is his second year with NOBCCChE and second visit to the DOE Science Bowl. **Michael Valentine** is an eighth grader at Muirlands Middle School. This is his second year competing in NOBCCChE Science Bowl competitions and his second visit to the DOE Science Bowl. **Ja'Rodd Watson** is an eighth grader at Muirlands Middle School. This is his second year competing in NOBCCChE Science Bowl competitions. He enjoys playing football, men's volleyball, and basketball. This summer he plans to play in several national basketball tournaments with his traveling team.

*[Science is] the knowledge of
consequences, and dependence of one
fact upon another.*

Thomas Hobbes (1588 – 1679)
English philosopher, author





**Neil Armstrong Middle
School
Forest Grove, Oregon**

**University of Portland/
Bonneville Power
Administration**

Left to right: Quinn Bailey, Steven Rawson, Veronica Tofflemire (Coach), "Charlie" Ganje, Taylor Walton, Seated: Steven Boone

Team Coach: **Veronica Tofflemire** has coached her school's Science Bowl team for the last eight years. She enjoys working with students that thrive on the intellectual competition as well as have a lot of fun doing it. She attended California State University-CHICO, majoring in biology and has taught a variety of science courses over the last 26 years. In the summer, Veronica enjoys traveling and camping with her husband and family.

Team Members: **Quinn Bailey** is in seventh grade and is currently taking geometry and honors language arts. Quinn enjoys team sports. In the fall, he plays soccer and participates in track during the spring. In the summer, Quinn enjoys traveling. He and his family have traveled to many countries worldwide. Quinn hopes to attend either Grinnell or M.I.T. **Steven Boone** is an eighth grader and enjoys taking advanced math classes and honors language arts. Steven competes in track in the spring and loves to ski in the winter. During the summer, he loves to travel to foreign countries, and sleep in. Steven hopes his team will perform well at the national competition, but feels that either way the experience has been very educational and fun! **Charlene "Charlie" Ganje** is an eighth grader whose favorite subjects include math, science and French. She takes honors math and language arts. Away from school, Charlie plays elite level soccer and takes private violin lessons. In the summer, Charlie is a volunteer lifeguard and swim instructor. As team captain, Charlie would like her team to perform well at the national competition. **Steven Rawson** lives with his parents and younger brother. His favorite subjects are math and English. His extracurricular activities include playing competitive soccer with Tualatin Hills United Soccer Club, swimming on the Hillsboro Swim Team, and playing his violin. He enjoys traveling and spent the first semester of eighth grade attending school in Huddinge, Sweden. He hopes to attend either Harvard or Yale University.

[Science is] piecemeal revelation

Oliver Wendell Holmes I (1809 – 1894)
U. S. poet, essayist, physician





**R. D. & Euzelle P.
Smith Middle School
Chapel Hill, North
Carolina**

**North Carolina State Solar
Center/Wake Technical
College**



Left to right: Naziha Shafi, Kaia Parkinson, Melinda Fitzgerald (Coach), Kate Schneider, Trenel Xing

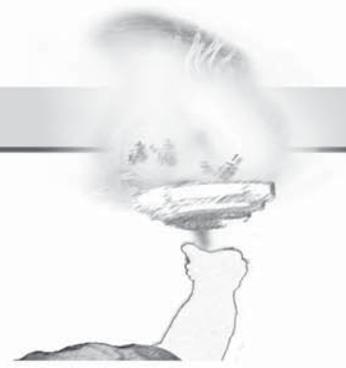
Team Coach: **Melinda Fitzgerald** is a science and language arts teacher at Smith Middle School in Chapel Hill, North Carolina. She graduated from the University of North Carolina in Chapel Hill, is nationally Board Certified, and has been teaching science in grades 6 – 8 for the past eight years. During the last three years, she has progressed with her current students from grade 6 – 8. In addition to coaching the North Carolina Students Fueling the Future Competition this year, she has coached Science Olympiad and led a Stream Watch group. Her hobbies are woodworking, painting, and traveling.

Team Members: **Kaia Parkinson's** favorite subjects are art and science. She is in the eighth grade. Kaia has been on a swim team for five years, and enjoys spending time with friends. Kaia plans to go to college and be an interior designer. **Kate Schneider** will be a ninth grader at East Chapel Hill High School next year. She's been horseback riding for six years and also plays volleyball. Kate's favorite subjects in school are science, art, and Spanish. After high school, she plans to live in a Spanish-speaking country for six months and then go to college. Kate plans to major in some aspect of science. **Naziha Shafi** will be a ninth grader at East Chapel Hill High next year. Naziha likes reading and shopping, and plays the violin. Naziha's favorite subjects are art, orchestra, and science. She thinks she could end up having a career in science, especially after this once-in-a-lifetime experience. **Trenel Xing** is in eighth grade. Trenel's hobbies are fishing, hunting, canoeing, and hiking. He is interested in different species of fish and turtles, and participates in many activities and clubs like chess and basketball. Trenel's favorite subjects in school are social studies and math. He plans to attend college, study biology, and become a fisheries biologist. He would also like to become a professional bass fisherman.

*[Science is] a great game. It is
inspiring and refreshing. The playing
field is the universe itself.*

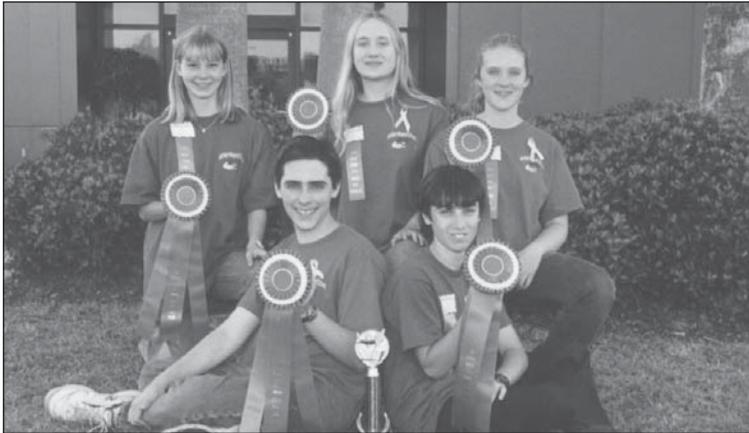
Isidor Isaac Rabi (1891 – 1988)
U. S. physicist. *Nobel prize 1944*





**Ronald McNair Magnet
Middle School
Cocoa, Florida**

**Florida Solar Energy
Center**



Left to right, Back row: Shaara Argo (alternate), Kyla Davis Horn, Megan Rein, Front row: Antony Stabile, Stephen Sisley

Team Coach: **Ginger Davis** coordinates science programs for Brevard Public Schools and was named the 2003 Florida Science Educator of the Year. She has a Master's degree in Science Education from Florida Institute of Technology. Ginger enjoys working with students of all ages, and takes pleasure in supporting students in activities such as Odyssey of the Mind, Future Problem Solving, and Science Olympiad. **Guytri Still** teaches middle school science and an award-winning science research program. She serves as the Science Dept. Chair and Director for the Brevard Intracoastal Regional Science & Engineering Fair. Guytri has a Master's degree in Biology from Rollins College. She has been a Florida Middle School Science Teacher of the Year, a Florida Finalist for the Presidential Mathematics and Science Award, Coast Alliance Exemplary Science Teacher, and a Faenza Outstanding Science Educator.

Team Members: **Kyla Davis Horn**, an eighth grader, loves science. She was recently awarded Junior Biological Best in Fair for the 2004 Florida State Science & Engineering Fair. Her study of folic acid and longevity was also named Best of Show at the 2004 Space Congress Science Fair and the 2004 Brevard Intracoastal Regional Science & Engineering Fair. Kyla's most memorable experience was her involvement with an experiment aboard the final flight of the Space Shuttle Columbia. Kyla enjoys reading, piano, tennis, and surfing. **Megan Rein** is an eighth grader who enjoys playing the violin and piano. She was a gold medal winner at the 2004 Florida Science Olympiad Competition, a member of the Future Problem Solving team, and the Brevard Symphony Youth Orchestra. She has two cats and a puppy and hopes to pursue a career in science. **Stephen Sisley** is in the eighth grade. He plays baseball, loves to build, and has been a member of the Science Olympiad team and Junior Solar Sprint team. He plans to become an aeronautical engineer or a baseball player. **Antony Stabile** is an eighth grader. He plays the piano and trumpet and enjoys karate. Antony was a gold medal winner at the 2004 Florida Science Olympiad, a member of the winning Future Problem Solving team, and was a 2003 Grand Award winner for the Duke University Talent Identification Program.

*In essence, science is a perpetual search
for an intelligent and integrated
comprehension of the world we live in.*

Cornelius Bernardus Van Neil (1897 –)
U. S. microbiologist





**Roosevelt Middle
School
River Forest, Illinois**

**Argonne National
Laboratory/CNH**



Left to right, Back row: Sam Frank, Sandra Painter (Coach), Jeffrey Narkis, Front row: Calder Coalson, Clay Ramel

Team Coach: **Sandra Painter** has been a middle school teacher for the past 12 years and is certified in the areas of gifted education, mathematics, reading and social sciences. She attended Indiana University, University of Illinois and Dominican University. Besides coaching the Science Bowl team, she also coaches the Math Olympiad, First Lego League Robotics and Scholastic Bowl teams. In her limited spare time, she loves to read, travel, listen to live music, attend theatre and model geometric shapes by means of origami.

Team Members: **Calder Coalson** is a sixth grader. He enjoys playing the piano and his favorite subjects are math, physics and science. He is three years ahead in math. His favorite song that he can play on the piano is Fleur-De-Lis. His favorite type of music is classical, and he particularly enjoys Beethoven's Ninth. At the moment, he is trying to teach himself calculus, so he can grasp the meaning of quantum mechanics. **Sam Frank** is in the eighth grade. He is on all the school sports teams, plays on a traveling soccer team, and likes to play basketball, volleyball, lacrosse and tennis. He is in all the advanced placement courses that the school offers and has already taken the SATs. His hobbies are sports, computer games, and Warhammer. He was also on the Scholastic Bowl team. He likes music by U2, Bruce Springsteen, Eurythmics, Jimmy Eat World, Fountains of Wayne, New Found Glory, Rolling Stones, Jefferson Airplane, Good Charlotte, and Linkin Park. **Jeffrey Narkis** is in seventh grade. His favorite subject is math and is taking Advanced Algebra 2. In January, he took the SATs and got a score of 750. He has participated in the Roosevelt Math Olympiad for the last three years. He enjoys playing tennis and soccer, and is on the school's track team. He plays the piano and trumpet, enjoys working in MicroWorlds and many Internet computer games. **Clay Ramel** is an eighth grader who enjoys playing the guitar and the bass. He plays baseball and ping pong, and runs track. In the local high school's science contest, he placed fifth out of 276 people. His poetry was personally selected in a Midwest talent search conducted by Professor DeLisle of the University of Ohio. His favorite subjects are science and art. He enjoys cooking, grilling, and making ice cream. He volunteers at soup kitchens throughout Chicago on a weekly basis, and has done many hours of service since 5th grade. Someday he hopes to become a chef in downtown Chicago or refine fission power to the point where it can be used as a mainstream energy source.

Science can only ascertain what is, but not what should be, and outside of its domain value judgments of all kinds remain necessary.

Albert Einstein (1879 – 1955)
U. S. Physicist, born in Germany





St. Ignatius School Mobile, Alabama

Alabama School for Math and Science



Left to right: Dr. Wattubewa (Coordinator), Patrick Baldwin, Matthew Madonia, Susan O’Gorman (Coach), Joe O’Gorman, Steven Dawson, Dr. Ellis (President – ASMS)

Team Coach: **Susan O’Gorman** has coached Scholars’ Bowl teams for nine years and Science Bowl for two years as a parent volunteer. Originally from Texas, she graduated from Rice University with a degree in Art History. When not volunteering at school, she enjoys sewing, movies and Jeopardy.

Team Members: **Patrick Baldwin** is an eighth grader at St. Ignatius. He has been active in Science Bowl, Scholars’ Bowl, MathCounts, Spelling Bee, Geography Bee, Robotics, Altar Servers, and Lifeteen. Math and English are his favorite subjects. In his free time, Patrick enjoys reading, Bible study, music, and swimming. He hopes to earn a scholarship to a good school for college. **Steven Dawson** is in eighth grade at St. Ignatius and like the rest of the team, plans to attend McGill-Toolen H.S. next year. Besides being active in Science Bowl, Scholars’ Bowl, Robotics, and Lifeteen, Steven is an accomplished pianist. His favorite subjects in school are literature and history. Golf, tennis, baseball, video games, and piano take up most of Steven’s free time. **Matthew Madonia** is in eighth grade at St. Ignatius, where he excels in science and math. For the last decade, Matthew has been studying the violin and playing in many groups. Matthew aspires to be a virtuoso violinist or an architect after attending Notre Dame. Besides being an avid fan of Notre Dame, he is active in Scholars’ Bowl, Science Bowl, Robotics, Altar Servers, and basketball. He also enjoys videogames as well as other sports. Matthew has been kissed by Pope John Paul II, during a trip to Rome. **Joe O’Gorman** is an eighth grade student, and an active participant in Scholars’ Bowl, Science Bowl, Lifeteen, MathCounts, Robotics, and the Altar Servers. He enjoys reading, Tae Kwon Do, computer games and movies. His favorite TV shows are 24 and Jeopardy. Math and science are Joe’s favorite subjects. Joe looks forward to high school and college and hopes to be a member of the U.S. Diplomatic Corps one day.

[Science is] not belief, but the will to find out.

Isidor Isaac Rabi (1891 – 1988)
U. S. physicist. Nobel prize 1944

