



U.S. Department of Energy
2004 National Science Bowl[®]

NOOM

into SCIENCE

April 29 – May 3, 2004





U.S. Department of Energy National Science Bowl[®]

The National Science Bowl[®] is a prestigious educational event and academic competition among teams of high school students who attend science and technology seminars, design, build and race hydrogen fuel cell model cars, and compete in a verbal forum to solve technical problems and answer questions in all branches of science and mathematics. The competition encourages students to become involved in mathematics and science activities and become serious students through extensive preparation for the Science Bowl events. Since the program began in 1991, it has brought together more than 90,000 high school science and mathematics students—as well as their teachers—from across the country. The program is designed to encourage students and their teachers to achieve educational excellence in the sciences. The U.S. Department of Energy (DOE) is proud to be the sponsor of the National Science Bowl[®].

Competing teams are quizzed on scientific topics in biology, chemistry, physics, astronomy, earth science, general science, and mathematics. Each team is composed of four students, one alternate student, and a teacher who serves as an advisor and coach.

Regional elimination tournaments are held from January through March at DOE laboratories and facilities other Federal agencies, and educational institutions throughout the country. This year, 64 high school teams from 39 states, the District of Columbia, and the U.S. Virgin Islands have competed in regional competitions and have qualified to participate in the 2004 National Science Bowl[®] in Washington, D.C.



2004 National Science Bowl®

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The Department of Energy



In August 1939, on the eve of the second World War, Albert Einstein wrote a letter to President Franklin D. Roosevelt, informing him that recent research showed that a nuclear chain reaction in a large mass of uranium could generate vast amounts of power. President Roosevelt responded cautiously, however, in 1941, he gave instructions to move as quickly as possible on research and development. In December of 1942, Roosevelt authorized the construction of full-scale production plants. The Manhattan Project was born. In August 1946, Congress created the Atomic Energy Commission “assuring the common defense and security” and “improving the public welfare, increasing the standard of living, strengthening free competition in private enterprise.” The Energy Research and

Development Administration was established in 1974 to focus the Federal Government’s energy research and development within a unified agency to promote the development of various energy technologies. Three years later, under President Carter, the Department of Energy (DOE) was formed. Today, the Department of Energy has a budget of \$18 billion, 15 National Laboratories that conduct cutting edge scientific research across the spectrum of advanced computing, environment, renewable energy, alternative fuels, biological, and physical sciences.

The DOE’s Office of Science is the single largest supporter of basic research in the physical sciences in the United States, providing more than 40 percent of total funding for this vital area of national importance. It oversees and is the principal federal funding agency of the nation’s research programs in high-energy physics, nuclear physics, and fusion energy sciences. It is a pioneer in research and has a history of exploring and developing areas of science often regarded as too “risky” for other federal agencies. One of these is the Human Genome Project, which started in the Office of Science, and when beginning to bear promising results, spread to other federal agencies. The Office of Science laboratory system is responsible for a wide variety of scientific breakthroughs from the discovery of many of the elements of the periodic table to development of medical advancements such as the PET scan and the artificial retina.

The Office of Science also has major research programs in basic energy sciences, biological and environmental sciences, and computational science. In addition, the Office of Science is the Federal Government’s largest single funder of materials and chemical sciences, and it supports unique and vital parts of U.S. research in climate change, geophysics, genomics, life sciences, and science education.



The accomplishments of the Office of Science are carried out at 10 world-class laboratories called National Laboratories, which are often called the “crown jewels” of our nation’s research institutions. The National Laboratory system, created over a half-century ago, is the most comprehensive research system of its kind in the world.

Five are multi-program facilities that span almost all the sciences: Argonne National Laboratory, Brookhaven National Laboratory, Lawrence Berkeley National Laboratory, Oak Ridge National Laboratory, and Pacific Northwest National Laboratory. The other five are single-program national laboratories that specialize in a few scientific disciplines: Ames Laboratory, Fermi National Accelerator Laboratory, Thomas Jefferson National Accelerator Facility, Princeton Plasma Physics Laboratory, and Stanford Linear Accelerator Center.

The Office of Science oversees the construction and operation of some of the Nation’s most advanced R&D user facilities, located at national laboratories and universities. These include particle and nuclear physics accelerators, synchrotron light sources, neutron scattering facilities, supercomputers and high-speed computer networks. Each year, these facilities are used by more than 18,000 researchers from universities, other government agencies and private industry.

The Office of Science also reaches out to America’s youth in grades K-12 and their teachers to help improve students’ knowledge of science and mathematics and their understanding of global science issues and environmental challenges.

To attract and encourage students to choose an education in the sciences and engineering, the Office of Science also supports the National Science Bowl®, an educational event for high school students involving all branches of science. Each year, over 12,000 students participate in the contest, and some 300 finalists typically prepare for months to attend the national event in Washington, DC.



Guest Emcee

David Zahren

Mr. Zahren is currently a television instructional specialist with the Prince George's County, Maryland Public Schools' Office of Television Resources. Over the past eighteen years, Mr. Zahren has written, produced, and hosted four award-winning science programs that have aired on cable television: "Give Science A Hand," a hands-on approach to science aimed at elementary school students; "Science Bowl," an interscholastic science game show; "Under the Microscope," a series of staff development programs for elementary teachers that also airs nationwide on PBS stations, and a new series, "Anatomy of a Lesson." Mr. Zahren is a cum laude graduate with a B.S. degree from the University of Pittsburgh and has an M.A. degree in school administration and human relations from George Washington University. In 1985, after a teaching career that had spanned fourteen years, including three years as a Peace Corps volunteer in Nairobi, Kenya, Mr. Zahren was selected as Maryland's Teacher in Space candidate. He was one of 100 teachers chosen from the 40,000 applicants nationwide to vie for a flight aboard the space shuttle Challenger. Mr. Zahren has received a number of awards, including the CINE Golden Eagle, for his work as a science teacher, a television host and producer, and a space educator. He continues to produce and host public television programs with the Office of Television Resources in Prince George's County and recently began serving as moderator for "It's Academic," a high school quiz program that airs on WJZ-TV, the CBS affiliate in Baltimore. In addition, he has just celebrated his fourteenth anniversary as a weather forecaster at WJLA-ABC 7/News Channel 8, the ABC affiliate in Washington, DC.



Science Bowl Alumni Officials

Vincent Auyeung attended Nationals with the Arcadia High School team in 1998. He is currently a junior biology major at the California Institute of Technology, and is working on engineering T cells to carry RNAi-mediated resistance to HIV-1 infection.

Jeff Daulton is a freshman (junior standing) studying electrical engineering (and maybe some other stuff) at The Ohio State University. He participated in National Science Bowl® in 2002 and 2003 as a member of the Centerville High School team. In addition to the numerous activities listed in his bio last year, he now enjoys growing large numbers of plants in his dorm room and fly-fishing before and after classes. He spent the past two summers doing modeling and simulation work for the Air Force Research Laboratory Propulsion Directorate and will likely continue that this summer unless he can find something a bit more applicable to his major(s).

Douglas Fuller is a graduate student in computer science at Iowa State University, from which he received his B.S. in 2002. Douglas conducts research in high-performance computing at the Scalable Computing Laboratory, part of the US Department of Energy's Ames Laboratory. He attended Ankeny High School in Ankeny, Iowa from 1997-1999 and competed in the Science Bowl each year. Since competing at the National Science Bowl® in 1999, Douglas has continually volunteered at the Ames Laboratory Regional Science Bowl and looks forward to his second opportunity to volunteer at the national competition.

Joshua Gutman was at the National Science Bowl® in 2002 with Santa Monica High School. He is currently a sophomore computer science major at the California Institute of Technology. Joshua also plays chess and is on the varsity tennis team. He has no free time, which is why he chose to spend a weekend volunteering at the National Science Bowl.

Kelly Han is currently a junior studying Brain and Cognitive Sciences at the Massachusetts Institute of Technology. When she's not loaded with the numerous neuroscience and cognitive papers to read, she enjoys ballroom dancing, rollerblading, talking to strangers, talking about religion, and planning practical jokes on her unsuspecting friends. She is a member of the Asian Christian Fellowship and is the President of the MIT Gospel Choir. She has been doing molecular and cellular biology research at Pfizer for the past 2.5 years on GPCRs. Feel free to strike up a conversation. Good luck with the competition.

Felix Huang grew up in Texas, competing at National Science Bowl for A&M Consolidated High School his junior and senior years. He is now a sophomore at Princeton University majoring in chemical engineering. At Princeton, he likes to play bridge and ping-pong and is interested in pursuing minors in Chinese, bioengineering, neuroscience, and materials science. This summer, he will be doing biophysics research at Harvard University.

Dean Jens competed for Ankeny (IA) High School in the first three Science Bowls in 1991-1993; his team placed second in the region in

1991, but made it to the national tournament in 1992 and 1993, placing second in 1993. He then earned a bachelor's degree in math and physics from the University of Chicago and a master's in physics from Princeton University before leaving the academic world. He has since been a developer of computer programs that send and receive financial market data over networks.

Akash Kansagra came to the National Science Bowl® in 2000 and 2001 with Troy High School, earning a fantastic trip to Australia for their second-place finish in 2001. Since that time, Akash has been studying physics and national security policy at MIT. His scientific research has been focused on the astrophysics of strongly gravitating systems. In fact, his senior thesis (which is, sadly, due just a few days after the NSB) investigates in detail the orbits of spinning particles around rotating black holes. Next year, Akash plans to pursue graduate study in Southern California, where he will escape the winters that so tormented him at MIT.

Troy Martin Jonathan Kuersten competed in the 2000, 2001, 2002, and 2003 Science Bowls, taking the trip to the national level in 2001, 2002, and 2003. He went to Enterprise High School in Redding, California at the time, and is currently majoring in aerospace engineering at California Polytechnic State University, San Luis Obispo. He is currently part of CalPoly Space Systems, the school rocket club, and enjoys gaming on the weekends.



Science Bowl Alumni Officials (continued)

Bryce Lakamp attended the 2001 National Science Bowl® as a member of the Poudre High School team. He is currently in his third year at the Colorado School of Mines in Golden, Colorado. He is seeking a B.S. in engineering, mechanical specialty, with a minor in materials science. Last year he was editor in chief of the *Oredigger*, the school newspaper. When he is not working on his studies he is continuing to work for the paper, redesigning websites for the finance and operations department and representing school publications for the student government.

Joshua Levenson represented Taylor Allderdice High School of Pittsburgh, Pennsylvania last year at the National Science Bowl®. Now a freshman at Amherst College, he plans on double majoring in chemistry and Spanish. This summer he will be conducting biomedical research through an internship with the Pittsburgh Tissue Engineering Initiative.

Jennifer Li attended the National Science Bowl® with the Morgantown High School team. She is currently in her junior year at the California Institute of Technology, majoring in biology. Jennifer hopes to obtain her Ph.D. in Biology and perform research in neuroscience or genetics.

Adam Matthews competed at the National Science Bowl® with his team from Punahou High School, Honolulu Hawaii, in 1995 and 1997. He graduated from Harvard College with an A.B. in biochemical sciences, magna cum laude (2001). Adam is currently a third-year graduate

student in the Harvard University Immunology Program. In addition to several publications, since graduating high school Adam has done research with several NSF programs, received a Barry Goldwater Fellowship and won a HHMI Predoctoral Fellowship in biological sciences in 2001. In high school he received the Bausch & Lomb Science Award, Tandy Technology Scholar and Best in Category Award in Biochemistry at the Intel Science and Engineering Fair.

Casey Medina graduated from South High School in Pueblo, Colorado in 1998. That same year he represented South High at the National Science Bowl® competition. Casey earned a bachelor's degree in mechanical engineering at the University of Denver in Denver, Colorado in 2002. He has earned an emphasis in robotics and mechanisms and has competed for two years at the USFIRST Robotics competition with his team from Denver University. Casey also completed a minor in trumpet performance.

Matthew S. Meisel is a freshman at Harvard University who plans to concentrate in either chemistry or biochemistry. He represented Taylor Allderdice High School from Pittsburgh, Pennsylvania in 2002 and 2003 at the NSB.

Kazim Narsinh attended the 2002 National Science Bowl® representing Santa Monica High School and is now a sophomore at UCLA studying biochemistry and researching transcription termination. He plays tennis and has a midterm on Monday.

Tejas Patel is currently a junior at the California Institute of Technology studying physics. He participated in the National Science Bowl® competing for Troy High School in 2000 and 2001, where they placed second in 2001. Tejas also competed for the Troy High School National Science Olympiad team and was a 2001 Intel Science Talent Search Semifinalist. He enjoys using computers and studying.

Christa Harvey Schoenfeld was born and raised in Montana. She attended Custer County District High School, in Miles City, Montana, and competed in the 1994 National Science Bowl. After graduating in 1994, Christa attended Montana State University-Billings and graduated in August 1998 with a Bachelor of Science in Biology Secondary Education. She taught eighth grade integrated science and ninth grade biology at South Jordan Middle School, in South Jordan, Utah, for five years. In December 1999, she married Mark Schoenfeld. Christa and her husband recently moved to Helena, Montana, where she works for the Montana Department of Revenue as the training coordinator. She is expecting her first child in July. Christa enjoys walking, reading, and spending time with her family.

Derek Shannon attended the NSB from Minot High in ND in 1997 and 1998, got a B.S. in geobiology from Caltech in 2002, and is now looking for life on Mars as a graduate student at USC.



Science Bowl Alumni Officials (continued)

Leonid Shmuylovich was a part of the Newton North High School National Science Bowl® team in 1998, 1999, and 2000. After a 10th place finish in 2000, he went to Cornell University, where he obtained a B.S. in chemical engineering and received the Donald Otthmer Award for Academic Excellence and the Merrill Presidential Scholar Award. In his undergraduate years he worked on research problems ranging from modeling of the blood brain barrier to understanding the patterns left by coffee drops as they dry (guess which project got published). He is currently in his first year of an eight year M.D./Ph.D. program at Washington University in St. Louis. This summer he will work on mathematical modeling of heart function.

Adam Wang is a junior at the University of Texas studying electrical engineering. He went to A&M Consolidated High School in College Station, Texas and competed at National Science Bowl® twice. His love for science still remains with him; this summer he will be participating in a REU on Modeling of Complex Ecosystems, which, though it may have little to do with his major, he is sure he will thoroughly enjoy.

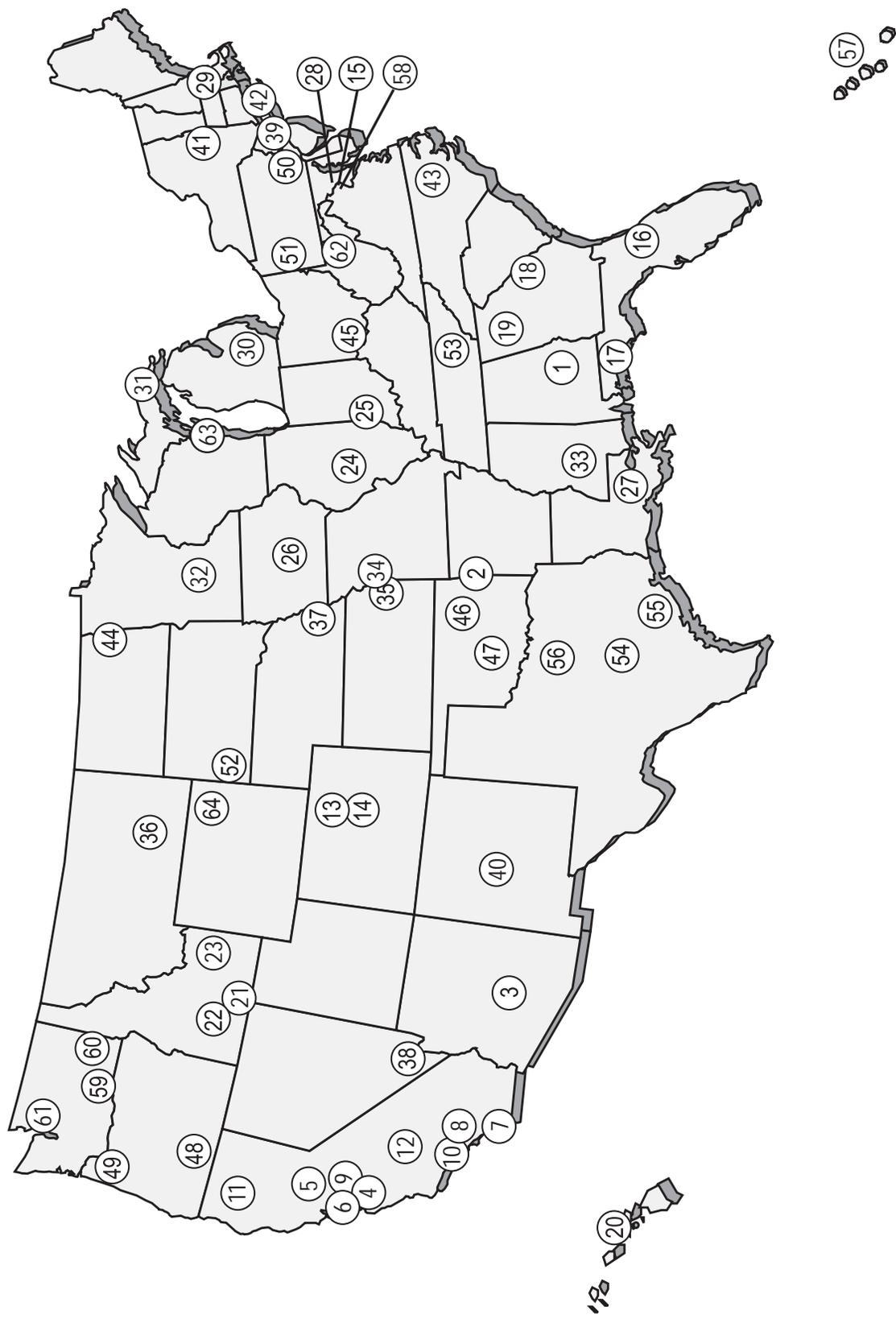
Jeremiah Way and his Fort Collins High School team competed in the 1998, nationals winning a trip to South Carolina for a week to work with nuclear reactors and the surrounding environments. After graduating he attended Colorado State University obtaining his B.S. in chemical engineering with an additional minor in chemistry in

three years. After which he began working for a major semiconductor manufacturer. He then completed his masters in chemical engineering with a thesis on Interpellet Axial Dispersion & External Mass Transfer in Heterogeneous Packed Catalytic Tubular Reactors. He has continued to promote science by judging science competitions including Science Bowl, Science Olympiad, and science fairs for high school students every year since graduating high school.

Peter Williams attended the National Science Bowl® in 2001 as a junior at Newton North High School in Massachusetts. Since then, he's spent most of his time doing problem sets as a busy astrophysics concentrator at Harvard. When not pondering the deep and subtle mysteries of the universe, Peter enjoys pizza, cycling, and rooting for the Red Sox. He plans on someday becoming a professor and experiencing firsthand the glee that they seem to take in crushing students' souls.

2004 National Science Bowl®

Regional Winning Teams and Participating Facilities



- Alabama**
1. LAMP High School – Alabama School of Math & Science
- Arkansas**
2. Southside High School – Russellville School District
- Arizona**
3. Chaparral High School – WAPA Desert SW Regional Office
- California**
4. Harker School – U.S. DOE – Oakland Operations
5. Mira Loma High School – WAPA/Sierra Nevada Region
6. Mission San Jose High School – Sandia National Laboratories/California
7. La Jolla High School – NOBCCHE – San Diego Chapter
8. North Hollywood High School – Los Angeles Department of Water & Power
9. Peter Johansen High School – Central Valley Regional – Modesto
10. Santa Monica High School – Jet Propulsion Laboratory
11. Shasta High School – Redding Electric Utility
12. Stockdale High School – California State University – Bakersfield
- Colorado**
13. Poudre High School – WAPA – Rocky Mountain Region
14. Smoky Hill High School – National Renewable Energy Laboratory
- District of Columbia**
15. Sidwell Friends School – U.S. DOE Headquarters
- Florida**
16. Oviedo High School – Lake Brantley High School
17. OWCC Collegiate High School – Eglin Air Force Base
- Georgia**
18. George Walton High School – Georgia College & State University
19. Lakeside High School – Savannah River Site
- Hawaii**
20. Iolani High School – U.S. DOE – Pacific Liaison
- Idaho**
21. Kimberly High School – Bechtel BWXT Idaho
22. Liberty Christian Academy – U.S. DOE Idaho Operations
23. Skyline High School – Idaho National Engineering & Environmental Laboratory
- Illinois**
24. Auburn High School – Motorola
- Indiana**
25. Terre Haute South Vigo High School – Indiana State University

- Iowa**
26. Urbandale High School – Ames Laboratory
- Louisiana**
27. Baton Rouge Magnet High School – Strategic Petroleum Reserve
- Maryland**
28. Montgomery Blair High School – U.S. DOE Headquarters
- Massachusetts**
29. Newton North High School – University of Southern Maine
- Michigan**
30. Renaissance High School – NOBCCHE – Midwest Region (Wayne State University)
31. Sault Area High School – New West Technologies, LLC
- Minnesota**
32. Chaska High School – Minnesota Academy of Science
- Mississippi**
33. Brookhaven High School – Mississippi University for Women
- Missouri**
34. Oak Park High School – Kansas City Plant
35. Pembroke Hill School – Kansas City Plant
- Montana**
36. Skyview High School – WAPA – Billings
- Nebraska**
37. Omaha Central High School – USDA Natural Resources Conservation Service
- Nevada**
38. Edward W. Clark High School – NNSA – Nevada Operations Office
- New Jersey**
39. East Brunswick High School – Princeton Plasma Physics Laboratory
- New Mexico**
40. Albuquerque High School – Sandia National Laboratories – New Mexico
- New York**
41. Shaker High School – Knolls Atomic/General Electric
42. Ward Meville High School – Brookhaven National Laboratory
- North Carolina**
43. W.G. Enloe High School – North Carolina Central University
- North Dakota**
44. Red River High School – WAPA – Bismarck
- Ohio**
45. Cincinnati Country Day School – Fernald Closure Project

- Oklahoma**
46. Booker T. Washington High School – National Energy Technology Laboratory – Tulsa
47. Edmond Home School Co-op. – National Energy Technology Laboratory – Tulsa
- Oregon**
48. Chiloquin High School – New West Technologies, LLC
49. Lincoln High School – Bonneville Power Administration
- Pennsylvania**
50. J.R. Masterman High School – NOBCCHE – Northeast
51. Taylor Alderdice High School – National Energy Technology Laboratory
- South Dakota**
52. Stevens High School – WAPA – South Dakota
- Tennessee**
53. Oak Ridge High School – Oak Ridge Institute for Science & Education
- Texas**
54. A&M Consolidated High School – Texas A&M University
55. Milby High School – NOBCCHE – Southwest
56. P.L. Dunbar High School – BWXT Pantex Plant
- U.S. Virgin Islands**
57. St. Croix Country Day School – Virgin Islands Dept. of Education
- Virginia**
58. Thomas Jefferson High School for Science & Tech. – Thomas Jefferson National Accelerator Facility
- Washington**
59. Kamiakan High School – Washington State University
60. Pullman High School – U.S. DOE – Pacific Northwest Site Office
61. Woodinville High School – Bonneville Power Admin.
- West Virginia**
62. University High School – National Energy Technology Laboratory – Morgantown
- Wisconsin**
63. Whitefish Bay High School – Milwaukee School of Engineering
- Wyoming**
64. Campbell County High School – Rocky Mountain Oilfield Testing Center



Left to right: Kristen Jones, Christopher Simpson, Nuvan Rathnayaka, Gilbert Huang, Dhananjay Jagannathan, Nathan Savir

Team Members: Gilbert Huang is a sophomore whose favorite subjects include biology, chemistry, English, and history. He enjoys playing and teaching the violin and currently plays in the Brazos Valley Symphony Orchestra. He participates in Science Bowl, Ocean Science Bowl, Business Professionals of America, and Pan-American Student Forum. He plans to attend college and major in a biology-related field. Dhananjay Jagannathan, a junior, enjoys chemistry and computer science. He is a member of the Math and Science clubs, the Junior Classical League, Business Professionals of America, and the American Civil Liberties Union. His hobbies include chess and recreational mathematics. Dhananjay plans to major in mathematics with studies in linguistics and classics. Nuvan Rathnayaka is a senior with many interests. A National Merit Finalist, he participates in science competitions and the Robotics Club. Music is of great importance to Nuvan, and he plays violin in the Varsity Orchestra and tabla in his own band. Nuvan plans on majoring in cognitive science. Nathan Savir is a junior in his second year of Science Bowl. He also participates in UIL and other Texas math and science competitions. He hopes to win a Siemens AP award. Nathan is in Latin Club and participates in Latin competitions as well. He plays no instrument, but takes singing lessons. Nathan hopes to go to Princeton, but has University of Texas as one of his more preferable backups. He looks forward to competing at National Science Bowl®. Chris Simpson is a senior with a strong interest in the social sciences. Most of his free time is spent simultaneously reading and listening to music, especially that of Bob Marley, Pink Floyd, Miles Davis, John Coltrane, and Led Zeppelin. Major awards for Chris include Presidential Scholar Candidacy and National Merit Finalist. Look for Chris in the tuba section of the Leland Stanford Junior University Marching Band next year.

A&M Consolidated High School

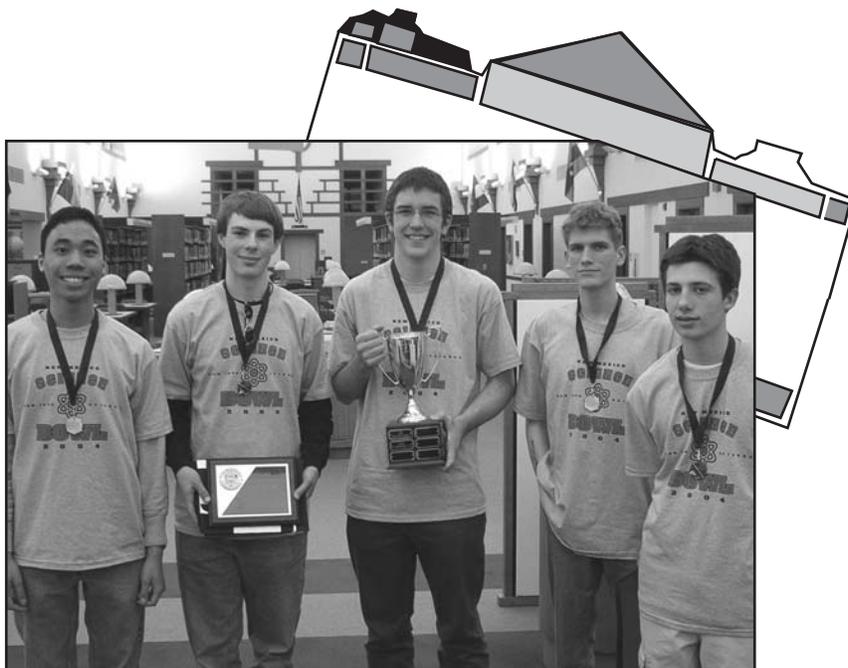
College Station, TX

Texas A&M University

Team Coach: Kristen Jones received a B.S. from South Dakota State University and a M.S. from Texas A&M University, both in the field of food science, and has had six journal publications. She has been teaching chemistry at A&M Consolidated for 19 years. Mrs. Jones is very active in leading teacher workshops across the United States, mainly for AP Chemistry, teaching several hundred teachers each year. Some of her most recent awards include the 2002 American Chemistry Council Regional Catalyst Award, 2001 Siemens Award for Advanced Placement and the 2000 Outstanding Texas Science Teacher Award. Kristen is married with three children and enjoys genealogy, cooking and growing flowers.

Albuquerque Academy
Albuquerque, New Mexico

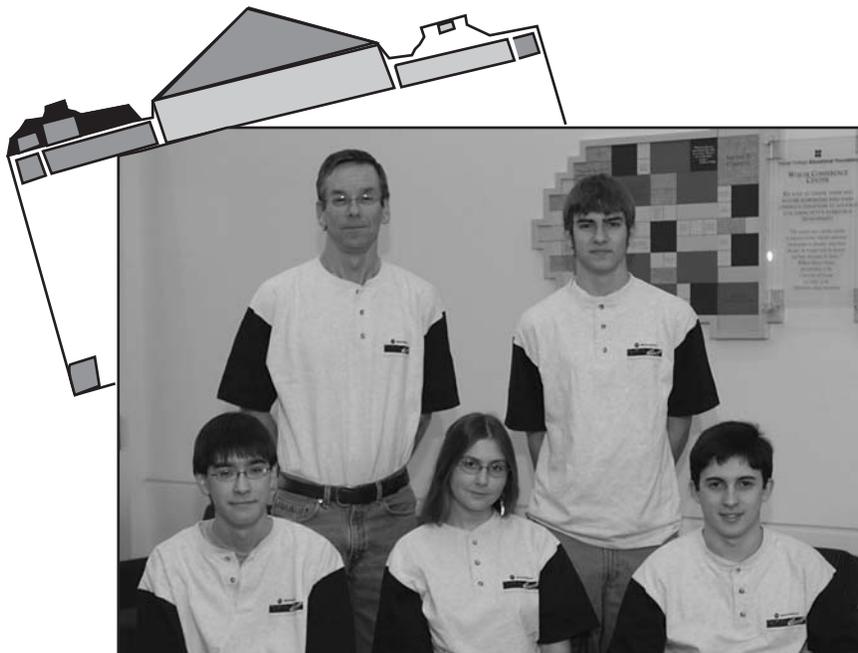
**Sandia National
Laboratories – New
Mexico**



Left to right: Ken Wong, Paul Boyle, Jim Adolf, Ryan McGowan, Josh Langsfeld

Team Coach: Coach Kevin Fowler has been teaching in the Science Department at Albuquerque Academy since 1992 and is serving as Acting Department Chair for this school year. Although listed as the coach of record, he gives full credit to the students on this team for their success. They are self-selected and self motivated and have worked hard in all of their course work over the years. It is an honor and a pleasure to work with such a fantastic group of students.

Team Members: Jim Adolf is a senior and has been competing in science and math contests since fifth grade. He has participated in Science Bowl since eighth grade. This is his first time to make nationals. He takes particular pride that his team finally won during their senior year. In addition to the many math and science competitions he attends, he also plays football. He plans to major in chemical engineering at Case Western Reserve University. Paul Boyle is a senior. He participates in all of the science events his school offers (Science Bowl, Science Olympiad, Super Computing, etc.) and works two jobs (bussing tables and working on AutoCAD at Sandia National Labs), and is a member of the chess team. Paul is an avid gamer as well, spending his free time with his computer, causing mayhem on the Internet. Joshua Langsfeld is a senior. Among the numerous extracurricular activities Josh participates in are Science Olympiad, Adventures in Super-Computing, Chess team, and of course, Science Bowl. When he is unable to find a faculty member willing to let him stay in the science building until midnight he spends time with his family as well as writing C++ programs and playing "Unreal Tournament". He plans to be competitive in D.C., especially in the fields of astronomy and physics. Ryan McGowan is a high school senior who lives in Albuquerque, New Mexico, where he spends his time surviving school, writing code, and writing short autobiographies for the various competitions he enters. He plans to go to college at New Mexico Tech next year. Kenneth Wong is a senior and participates in the school's Science Bowl, Science Olympiad, and Chess teams. He won the State competition for the Science Olympian and Chess team. He is also the Web/Technical editor for the school newspaper, *The Advocate* and is currently working on setting up the newspaper website. He enjoys playing chess with his friends and playing computer games online. Known for his "K-Dub Dance," he has shown his mad dancing skills during the Homecoming celebrations and the school's pep rally.



Left to right, Tyler Kerr, Bruce Keyzer (Coach), Laura Bland, Mike White, Chad Casarotto (Captain)

Auburn High School

Rockford, Illinois

Motorola

Team Members: Senior Laura Bland is a member of the Scholastic Bowl team, WYSE, and National Honor Society, and serves as an officer in Key Club. She is a National Merit Finalist and an Illinois State Scholar. Her favorite subjects are chemistry, biology, English, and history. Next Fall she will attend Beloit College, where she plans to double major in biochemistry and modern languages. She hopes to join the Peace Corps or another overseas volunteer organization upon graduation. Senior Chad Casarotto has been a starting member of Auburn's Scholastic Bowl teams, and last year, he was named to the All-State Second Team. He is active in other scholastic competitions such as WYSE and JETS/TEAMS. He is currently a National Physics Team semi-finalist and a National Merit Finalist. He plays tennis and soccer recreationally and for Auburn. His hobbies include: fantasy sports, Scrabble®, and movies. He hopes to attend the University of Chicago next year and study mathematics and/or physics, and then pursue further research or a teaching position. Sophomore Tyler Kerr's favorite subjects in school are trigonometry, English, chemistry, analytic geometry, and AP United States history. He is captain of his school's fresh-soph Scholastic Bowl team, and also competes on the varsity team. He is a second violin in both the Auburn Orchestra and the Rockford Area Youth Symphony. Tyler has no definitive plans for the future, but his great interests lay in technical subjects – which narrow it down a little. Senior Mike White escapes the reaches of self-glorification. And, despite his overwhelming modesty, has become a National Merit Finalist, and an Illinois State Scholar. He has participated in Scholastic Bowl, WYSE, JETS Team, Physics Bowl, Science Bowl, Math Bowl, football, baseball, tennis, cross country, Student Council, Philosophy Club, Chess Club, National Honor Society, Key Club, band, and jazz band. He enjoys calculus and physics and has been accepted to the University of Chicago and the University of Illinois. He awaits the decisions of several other universities and hopes to study mathematics, physics, or economics and attend graduate school.

Team Coach: Coach Bruce Keyzer earned his B.S. in mathematics with a minor in physics from University of Wisconsin Eau Claire and his M.S. from Northern Illinois University in mathematics. His decision to become a teacher was influenced by observing talented, bright, caring, and inspiring teachers during his high school and college years. He has taught for 32 years and has a great deal of experience in how things work in the real world but has no scientific laboratory experience outside of teaching. He feels the three most important scientific discoveries are Newton's laws, Maxwell's Equations and the Photo-electric effect. His hobbies include: running, biking, skiing, hiking, camping, fishing, traveling, and home maintenance

**Baton Rouge Magnet
High School**

Baton Rouge, Louisiana

Strategic Petroleum
Reserve



Left to right: Katy Parker (Coach), Jeff Plaisance, Josh Hartman, George Lin, Yonas Yemane, Erqi Liu

Team Coach: Katy W. Parker holds a graduate degree in mathematics from Louisiana State University. The last 15 of her 22 years of teaching have been at Baton Rouge Magnet High School, where she teaches Physics I Honors and Physics II AP. In addition to coaching the Science Bowl team, which has been to the National Science Bowl® for four of the last six years, Ms. Parker coaches the Science Olympiad team, state champions for the last 7 years. She includes Newton's Laws, the relationship between electricity and magnetism, and DNA structure, among the most important scientific discoveries. Ms. Parker enjoys puzzles, playing handbells and bridge, spending time with her family, and visiting the San Juan Mountains.

Team Members: Josh Hartman, a senior, enjoys physics, math and computer science. Josh is vice-president of Mu Alpha Theta and captain of the swim team. He spends free time lifting weights, playing trombone, doing math and reading. This past summer he worked with ultraviolet lithography at Louisiana State University Center for Advanced Microstructures & Devices. Josh plans to major in electrical engineering. George Lin, a senior, is captain of the Science Bowl team. As a three-year veteran, this is his second trip to the Nationals. He is active in Beta Club, Mu Alpha Theta, the school newspaper and is president of the Computer Club. George is a National Merit Finalist and a member of the Science Olympiad, Knowledge Master Open and Quiz Bowl teams. He trains in the martial arts and holds a black belt in Shotokan Karate. George hopes to attend the Massachusetts Institute of Technology. Erqi Liu is a senior; her favorite subjects are history and science, but she also enjoys art. She has painted numerous murals for her school and community. Community service is another passion of Erqi's. She has won honors at National Chemistry Olympiad and Science Olympiad, and is a Discover Tribute Award State Gold I winner. She plans to major in business, but is undecided as to which college she will attend. Jeff Plaisance, a senior, is a talented math, science and computer science student, as well as an experienced woodworker and luthier. Jeff has been a member of the Science Olympiad team for 4 years and has placed first in national competition in Mission Possible, Scrambler and Sounds of Music. He will be attending the University of Texas. Jeff plans to be a professor of computer science specializing in robotics. Yonas Yemane, a senior, has been an avid math and science student since a young age. He has always loved numbers, and his favorite subjects are chemistry and math. Yonas is currently the state president of Louisiana Mu Alpha Theta and a member of his school's science Olympiad team. Yonas also enjoys doing community service. He plays alto sax in the high school wind ensemble. Yonas plans to attend Stanford University or Duke University in the fall.



Left to right: Susan Bigge (Coach), James Doty, Jeremy Haack, Edward Hangs, Davis Light, Center front: Parousia Rockstroh

Team Members: Senior James Doty was born and raised in Tulsa, Oklahoma and has lived there all his life. He is a member of the Chess Club, Japanese Club, Chinese Club, and Robotics Club. He plans to attend a 4-year college and study artificial intelligence and linguistics. He then plans to attend graduate school and pursue further education and possibly a professorship. His volunteer activities include a church mission trip to Mexico, a trip to Japan, and an anti-smoking promotion trip to China. Jeremy Haack is a 16-year-old senior. He enjoys many extra-curricular activities, including Science Bowl, Robotics Club, and volunteering at church. When he isn't busy with one of these activities he works at home doing accounting-related work. He is a National Merit Finalist and will be going to the University of Tulsa on a full scholarship. Edward Hangs is a senior and plans to attend the University of Tulsa next year. He is active in Robotics Club and National Honors Society. Davis Light is a sophomore and this is his first year on the Science Bowl team, but he has been playing Academic Bowl for about six years. He was member of the varsity Academic Bowl team this year and is proud of their state championship. His favorite subject is history but he also enjoys science. Senior Parousia Rockstroh is captain of the Science Bowl team and president of the Robotics Club. He has been a member of Model UN and the National Honors Society. He was also a NASA SHARP student during the summer of 2003.

Booker T. Washington

Tulsa, Oklahoma

**National Energy
Technology Laboratory –
Tulsa**

Team Coach: Coach Susan Bigge has been teaching AP and IB physics for four years at Booker T. Washington High School. She is originally from England and has a degree in physics from Oxford University. She is interested in nuclear and particle physics, which she taught in England prior to her move to the U.S.

Brookhaven High School

Brookhaven, Mississippi

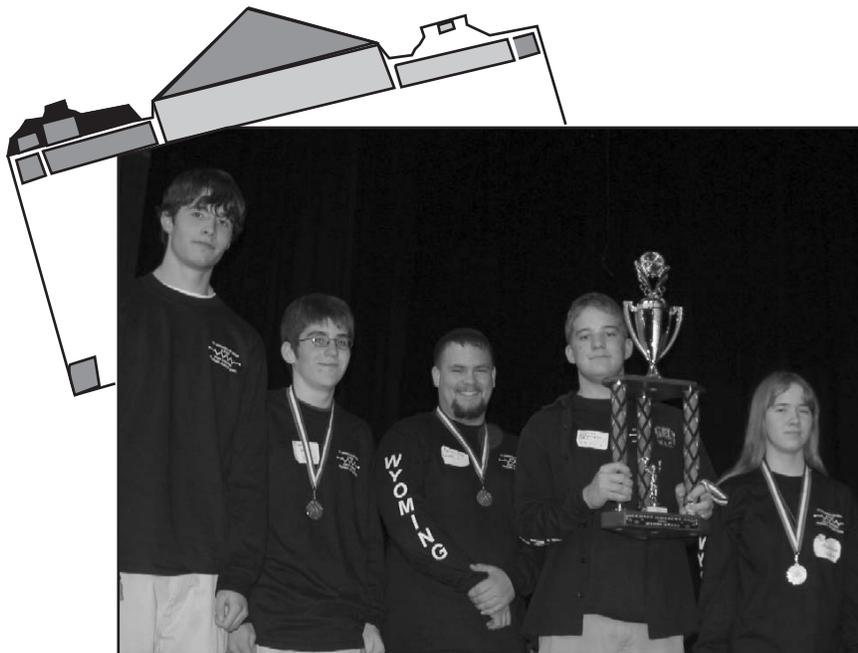
Mississippi University for
Women



Left to right, Back row: Patrick Ayers, Leah Ann Peavey, Front row: Tabbitha McKee, Tucker Brady, Brandon Russell (Captain), Natalie Wolfe

Team Coach: Leah Ann H. Peavey received a B.S. in polymer chemistry from the University of Southern Mississippi, and for 11 years, worked in manufacturing and R&D in the fields of coatings and elastomers. Although an industrial career was exciting, the desire to transfer a love of chemistry to others was calling. She has been a certified high school chemistry teacher for 9 years. "It's fun to relate to the students ways that I've seen and used chemistry in the workplace." Mrs. Peavey is married to a football coach, has two children, and loves to read, play tennis, and attend sporting events.

Team Members: Sophomore Patrick R. Ayers participated on the Science Quest Team in 9th grade before joining the Science Bowl team. Patrick is enrolled in business computer technology and is vice president of the Future Business Leaders of America. He placed 5th in Networking Concepts at the 2004 FBLA Competition and will go to State competition. Patrick enjoys playing on the varsity soccer team. He hopes to attend the University of Mississippi and major in chemical engineering or the medical field. Sophomore Tucker Brady is currently a member of the National Honor Roll, and Who's Who among American High School Students. He is a member of the varsity soccer team, participated in the Brookhaven High School Science Olympiad team, and of course is a member of the Science Bowl team. He plans on going to the University of Mississippi and on to the New Orleans Baptist Seminary. Tabbitha McKee, a junior, is a focused, hard-working young lady. Tabbitha enjoys spending time with the residents in local nursing homes and is an active member in her high school band program, serving as second chair-symphonic flautist and drum majorette. She aspires to attend Mississippi College and obtain a pharmaceutical degree. Although uncertain about her post-college career, Tabbitha wishes to lead a satisfied adult life. Brandon Russell, a senior, is a STAR Student, a National Merit Finalist, an Eagle Scout, and a recipient of the President's Student Service Award. He is captain of the Science Bowl team, the Scholar's Bowl team, the Math and Science team, and the Forensics team. He is co-captain of the Mock Trial team, a National Forensic League Academic All-American, and he holds the Degree of Premier Distinction. He plans to attend Rice University with a double major in political science and biomedical ethics. Natalie Wolfe is a sophomore. Although she enjoys math and science, her love in life is music. She has played oboe in the band for five years now and attended many honor bands and clinics, including Mississippi's first-ever All-State Concert Band. She is also a member of the Student Council and Science Bowl Team. After graduation, she plans to attend the University of Southern Mississippi and major in music performance.



Left to right: Steve Austen, Thomas Stanley, Ryan Hile, Robb Grogan, Maria Anderson

Campbell County High School

Gillette, Wyoming

Rocky Mountain Oilfield Testing Center

Team Members: Maria Anderson applies her resolve to everything she involves herself in: Science Club, yearbook, St. Matthew's Youth Group, working at the local library, school, and writing. She has always felt akin to the gentle winds of Wyoming and feels she needs the wind under her wings to soar high enough to reach her dreams. Steve Austin likes science, and partakes in many activities like Key Club, National Honors Society, and Boy Scouts. He also does cross country and track and dreams of escaping the desolate cow ranch called "Wyoming" to become a successful "business man". Robb Grogan, a senior, and team captain is president of the science club and he plays trombone. Robb will study electrical engineering at the University of Wyoming next year. Senior Ryan Hile is a Wyoming native who has accumulated a total of eighteen years, three months, and fifteen days of residence in Gillette. He enjoys school; it serves to springboard him into attendance at the South Dakota School of Mines and Technology. Once there, he hopes to start down the dark path of particle physics. Ryan spends his free time playing computer games, reading, and practicing martial arts. He is an accomplished self-taught Kenjutsu and Iaido artist, and loves every chance he can get to sword fight with others. Thomas Stanley is a person of few words. He spends a large amount of his time writing, and, thinks of himself as a writer, pseudo or otherwise. Science is a subject that he enjoys, more specifically: astronomy, chemistry, physics, genetics, and computer science. He participates in marching band (where he plays clarinet), pep band, Science Olympiad, Science Bowl, is a member of his school newspaper's staff, and hopes to do more in his later years. Thomas aspires to become an astrophysicist or a chemical engineer. As of now he has no set plans for college, but since he is only a sophomore, he is not too worried.

Team Coach: Tom P. Jacobs was raised on a SD Ranch, and attended elementary & high school at a private Catholic school in New England, ND. He graduated Cum Laude from Valley City State College in 1983 with a double major in Biology and Earth and Environmental Science and a Chemistry minor. He taught in Langdon, ND in 1985 through 1993. He moved with his wife and three children to Gillette, WY, in the summer of 1993. He earned MAT in Science from Minot State University in 1995. Since arriving in Campbell County School district he has taught earth science, advanced geology, biology, chemistry and human anatomy & physiology. He is currently the State Director for the Wyoming Science Olympiad. In 2003, he completed the NBPTS certification process in Adolescence and Young Adult/Science - with specific emphasis in Biology. He is currently certified on a national level.

Chaparral High School

Scottsdale, Arizona

WAPA – Desert SW



Left to right: Judy Fan, Elisa Zhang, Lingjie Li, Reed Scharff, Lauren Puglisi, Coach Pete Williams, Coach Ann Hammersly

Team Coaches: Ann Hammersly received her B.S. in chemistry from the UC Riverside and her M.A.Ed. from the University of Phoenix. Her undergraduate research was in synthetic organic chemistry of Vitamin A analogs. She has taught physics and chemistry for 19 years. She has also presented classes for teachers at the graduate level, in workshops at the national, state and district level. She does free-lance writing for The Discovery Channel and spends her spare time with her husband and their dogs. She enjoys competing in dog agility contests and taking the dogs to convalescent hospitals as therapy pets. Pete Williams graduated from Arizona State University with a B.S. in geology and earned his teaching certificate from the University of Phoenix. He worked for National Outdoor Leadership School for over 20 years and as a water chemist for three years. His work as an outdoor educator stimulated his interest in teaching science. His hobbies include woodworking, jewelry making, handball, and surfing.

Team Members: Judy Fan, a sophomore, is thrilled to be representing Arizona in Washington D.C. She finds joy in biology, chemistry, astronomy, and the company of her violin, which she fondly dubs “Eddie.” She considers badminton the finest sport ever devised. Though unsure of her specific higher-education-destination, she wishes to pursue a career in the sciences (who *doesn't*??) Lingjie Li is a senior whose favorite subjects are computers, math, chemistry, and art. She teaches children’s Sunday school class in her church every other season and finds it fulfilling. She enjoys problem solving and hopes to become an engineer. She is a member of a number of clubs and holds official positions in two of them. She has won several art awards, first place in Science Olympiad, as well as other academic honors including National Merit. She is extremely grateful for God’s grace and the encouragement her parents have given her. Junior Lauren Puglisi’s favorite class is science. She has been in Science Club since her freshman year and was the Science Club Publicity Officer her sophomore year. She has participated in both the Science Bowl and the Science Olympiad, and is currently founding an Astronomy Club. Lauren loves writing poetry and has had several of her poems published in Flames literary magazine. She plans to go to Arizona State University to major in astronomy and dreams of working for NASA in the future. Reed Scharff, a senior, is the editor-in-chief of his high school newspaper, president the March of Dimes, and a two time state champion in policy debate. He serves as the chair of the Cystic Fibrosis Foundation Youth Council. He enjoys physics, chess, computers, and hiking. Reed will be attending Brandeis University in the fall of 2004 where he will be majoring in political science. Elisa Zhang, a senior, is president and captain of the Chaparral High School Science Bowl club team, and is a National Merit Finalist. She is president of the Sierra Club, treasurer of National Honor Society, and president of the Orchestra Council. An avid musician, Elisa is her school orchestra concertmaster and a 1st violinist at All-State Orchestra, and she has soloed as a pianist with the Phoenix Symphony Orchestra. She will be attending Harvard University this fall to study biology in hopes of becoming a professor.



Left to right: Zack Kertzman, Bryan Eberle, Ellen Thomas, Meredith Johnson, Jim Lund (Coach), Nixon Li

Team Members: Senior Bryan Anthony Eberle enjoys playing the trumpet, being with his friends, and science. Next year, he is probably going to the University of Minnesota's Honors Program in the College of Biological Sciences. He will major in biology. The other activities he participates in are Science Olympiad, Quiz Bowl, Knowledge Bowl, Quiz Net, and Knowledge Master. Senior Meredith Johnson loves foreign languages, especially French, Spanish, and German. She plans to be a translator/interpreter. She is also interested in art and music, but doesn't like science much. Next year, she will be studying at the University of Minnesota – Twin Cities. Along with Science Bowl, she participates in Knowledge Bowl, Quiz Bowl, Quiz Net, Knowledge Master, Science Olympiad, Music Listening, Wind Ensemble, Pit Orchestra, Environmental Club, Girl Scouts, and Chaska Honor Society. Senior Zack Kertzman enjoys such activities as kick boxing, reading, and playing the piano. Zack is probably going to Loras College in Iowa next year. He will major in chemistry with a specification in polymers. He may also double major in mathematics. He participates in other activities including Knowledge Bowl, Quiz Bowl, eating cookies, Science Olympiad and Pit Orchestra. His motto is "if you're not part of the solution, you're part of the precipitate." Nixon Li is a senior who is interested in reading, computers, movies, and having fun. He claims that he tries not to think about his plans for next year. Actually, he just has no idea what to do. He'll either major in physics or nuclear engineering. He also participates in Quiz Bowl, Knowledge Bowl, Science Olympiad, and plays the piano. Oh, and he's Canadian. Senior Ellen Thomas wants to pursue a career in Epidemiology. She will attend the University of Houston Honors College next year, on a pre-med program with a possible double major in biology and English. In addition to Science Bowl, Ellen is involved in Knowledge Bowl, Quiz Bowl, Science Olympiad, Math League, Knowledge Master, and Quiz Net. She is an ESL tutor, teaching Somali adults English. Ellen is very happy to meet new people. Please say hello.

Chaska High School

Chaska, Minnesota

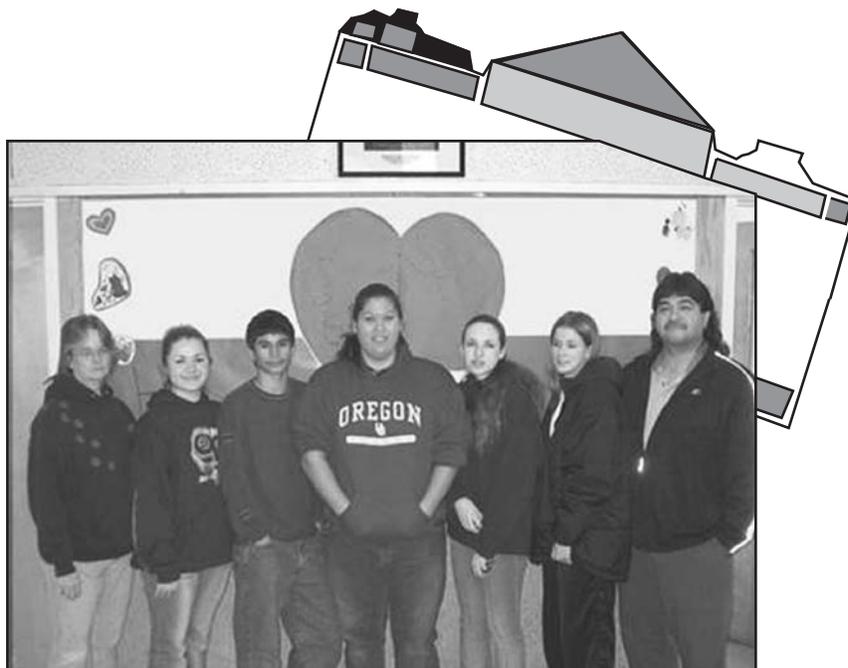
Minnesota Academy
of Science

Team Coaches: Jim Lund got his B.F.A. in theatre (!) from the University of Minnesota – Duluth. After that, it was back to class to earn a teaching license in physical science. He currently teaches all the physics classes that are taught at Chaska High, and also directs plays and musicals. He thinks the most important discovery in science was scientific thought, and wonders why so much of the world hasn't adopted the practice. Pam Schmillen teaches biology and human anatomy and physiology. She got her undergraduate and master's degrees from Minnesota State University in Mankato, Minnesota. Besides teaching science, she also coaches varsity girls golf in the spring and tennis in the fall. She thinks most scientific discoveries are great because they enhance our understanding of our world.

Chiloquin High School

Chiloquin, Oregon

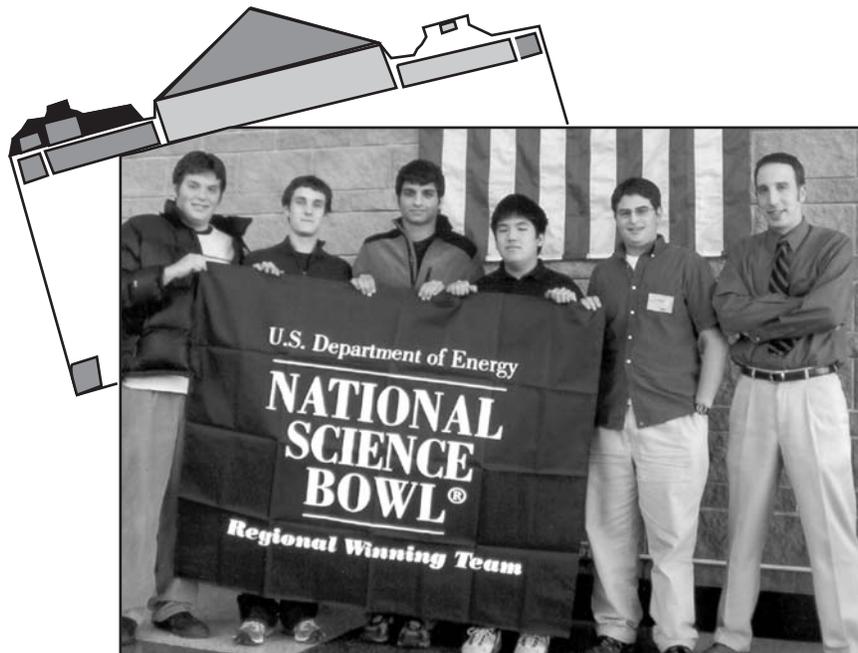
New West Technologies, LLC



Left to right: Advisor Kris Queener, Sada Bradley, Alex Plascencia, Rachel Allen, Samantha Longley, Erin Queener, Calvin Hill (Coach)

Team Coach: Coach Calvin Hill is a member of the Kalmath Tribes. He has an associates degree in early childhood education and is working towards his bachelor's degree. He has been the coordinator for the Maqloq Learning Center for 20 years. His desire to give children things that he did not have growing up, i.e., tutoring, cultural activities, and a positive influence, is why he chose a career in education. His hobbies include hunting, camping and golfing.

Team Members: Rachel Allen, a junior, is a member of the Klamath Tribes. She is a member of the Varsity Girls Basketball Team and has received a letter in track. Rachel volunteers as a counselor at a Culture Camp and a Sports Camp. She plans to attend college after graduation. Samantha Longley, a sophomore, is a member of the Cherokee Tribe. She is involved in many extracurricular activities, including dance team, 4-H, Girl Scouts, Science Bowl and Drama Club. As a volunteer project for Girl Scouts of America, Samantha helped organize a toy drive. Samantha's future plans involve attending Pacific College or Oregon State to become a child psychologist. Alex Plascencia, a junior, is a member of Klamath Tribes. His favorite subjects are math, history and English. His favorite sports are football and track and he was on the first place team for all-league football. Alex earned an All-Star Award in last year's Science Bowl. He plans to attend Oregon State University and major in forestry. Erin Queener, a sophomore, is a member of the Cherokee Tribe. Erin excels in all academic subjects and has taken college level courses in algebra and geology. When she is not busy studying she enjoys playing basketball and softball, listening to music and hanging out with her friends.



Left to right: Billy Berstein, Brad Walker, Nima Ghamsari, Jason Juang, Zach Newman, Kevin Koller (Coach)

Team Members: Senior Jason Juang is a three-time USAMO participant. He attended the USNCO Study Camp last year, where his primary function was to teach others how to play frustrating card games. His school activities other than Science Bowl include JETS, Academic Team, and Math Team, which apparently does not compete in any competitions and has not held a single meeting since its inception two years ago. Bradley Walker, a senior, is making his debut in Science Bowl competition. When he doesn't have a buzzer in his hand, Brad likes to be on the Varsity soccer team and play varsity lacrosse. Off the field Brad dabbles in JETS and Science Olympiad and looks forward to the annual Cum Laude dinner, but really would rather put his cognitive skills to the test in a good old Texas Hold'em tournament. In the fall he will be attending Washington University in St. Louis as a freshman in biomedical engineering. Zach Newman, a senior, is a huge fan of the outdoors. Zach spends the majority of his weekends on road trips camping around the country, and plans to hike portions of the Appalachian Trail this summer. When not communing with nature, Zach enjoys bird watching, and has a vested interest in owls. Zach also plays varsity tennis. Nima Ghamsari, currently a senior, plans to major in investment banking and economics in college. The undisputed Monopoly champion of CCDS, Nima enjoys memorizing exchange rates of obscure currencies. The founder of the local chapter of the Andy Griffith fan club, Nima also enjoys visiting his relatives in Bangladesh and plans to return there this summer. William Zeff Bernstein, senior, is an athlete, dedicated student, and good mannered citizen. Billy has played varsity baseball for four years and basketball for two. He was part of the state championship team in 2000. Billy's grades reflect his complete dedication to his studies. Not only has Billy founded two clubs at school, he is very active in extracurricular activities.

Cincinnati Country Day School

Cincinnati, Ohio

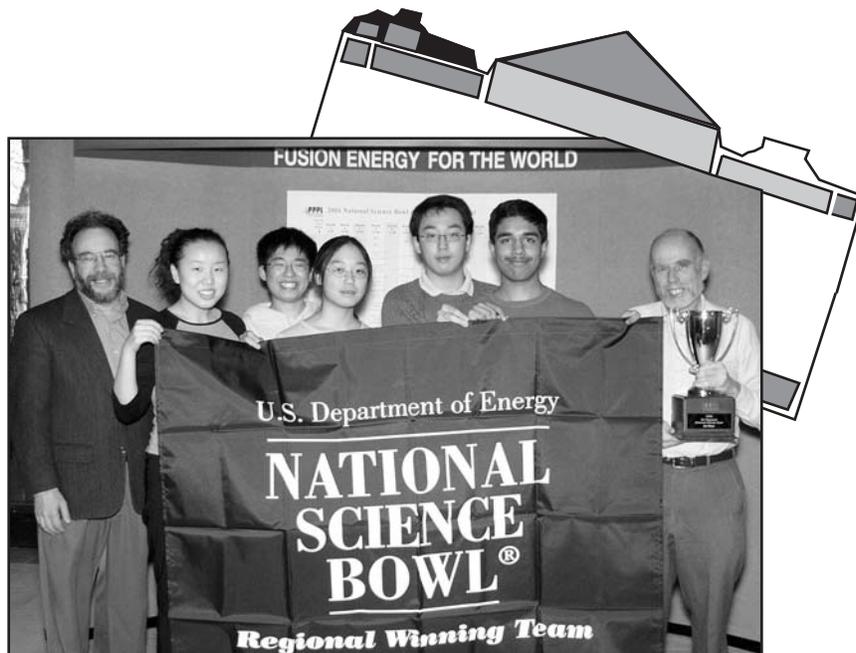
Fernald Closure Project

Team Coach: Coach Kevin Koller is a second-year instructor at Cincinnati Country Day School, where he teaches Earth science and Islamic history. Mr. Koller also directs Summerbridge Cincinnati, a non-profit academic enrichment summer program for urban middle school students. In his free time, Mr. Koller enjoys playing and coaching ultimate Frisbee.

**East Brunswick High
School**

East Brunswick,
New Jersey

Princeton Plasma Physics
Laboratory



Left to right: Rob Goldston (PPPL Director), Rachel Zhang, Harrison Hsu, Stephanie Zhang, Bill Zhang, Aditya Panda, Paul Kimmel (Coach)

Team Coach: Coach Paul Kimmel attended Columbia University and earned a Ph.D. at the University of California at Berkeley in physical chemistry. He has been teaching at East Brunswick High School for 33 years, and is also a chemistry lecturer at Rutgers University. Coach Kimmel has also been a grader for AP Chemistry exams and is currently a College Board Consultant for AP Chemistry. He is an active pianist, performing in local recitals, and is the advisor to the school's Musician's Club. He enjoys bicycle riding, photography, and camping. Coach Kimmel feels the three most important scientific discoveries are: atomic theory, theory of evolution, quantum mechanics.

Team Members: Junior Harrison Hsu is the president of the East Brunswick chapter of the Waksman Student Scholars genetics program hosted at Rutgers University. He plays the cello in various orchestras including New Jersey Regions II and the New Jersey Youth Symphony, and competes with the East Brunswick Academic Team and Math League. He has also joined East Brunswick's JETS team. He would like to be a researcher in the future. Sophomore Aditya Panda participates in many school activities, including Math Team, Model UN, Academic Team, FBLA, and JETS. At home, he devotes most of his time to homework, but also enjoys programming and brushing up on general knowledge. Though unsure of the exact field he wants to major in, he knows it will be in the sciences/engineering fields. Junior Bill Zhang was on the Science Bowl team last year and has participated in the New Jersey Science League competitions three years straight. Bill loves to play the violin and has performed in the New Jersey regional orchestra. He hopes to attend Princeton University and hopes to major in either biochemistry or medicine. Junior Rachel Zhang is a member of the National Honor Society, and the president of her school's chapter of Family Career and Community Leaders of America. In FCCLA, she has had the opportunity to get involved in a variety of projects, including teaching nutrition to elementary school students and dining etiquette to fellow FCCLA members (manners matter!). Rachel participates in Science League competitions, attends a research club after school, and takes classes at Columbia University on Saturdays. Senior Stephanie Zhang is the captain of the Science Bowl team. She is co-captain of her school's Math team, treasurer for the French Honor Society, and communications director of the French Club. She enjoys chemistry and biology, along with competitions such as JETS and the New Jersey Science League. Recently accepted into Harvard, she plans to become a researcher or professor. In her free time, Stephanie enjoys making Chinese Knots and volunteers at the local Senior Citizen's Center.



Left to right: Geoffrey Whittaker, Josiah Shaw, Matthew Drwenski, Adam Krejci, Alexander Mansour, Center front: Sherrie Drwenski (Coach)

Team Members: Matthew Drwenski is a senior. In his spare time, he enjoys quoting lines from Star Wars and awkwardly writing about himself in the third person. Matt is a two-time member of Oklahoma's state All-Star Academic team, an Eagle Scout, and a National Merit Finalist. This fall he plans to major in political science at Rice University, Tulsa University, or Southwestern University. Junior Adam Krejci plays basketball on a national championship team. Adam plays the guitar and saxophone, and reads classics and military histories. A loyal "team player," Adam is a charter member of the EHSC academic team and homeschool band. He volunteers at youth basketball camps. A junior class representative, he has attended TeenPact leadership classes. He aspires to study political science at Oklahoma State University and become an influential member of Congress. A second-time participant of the National Science Bowl®, Alexander Mansour, a junior, does not fear long-term commitment, demonstrated by five years on the EHSC academic team, working on earning his Eagle Scout rank, and many years of choir and drama. His hobbies include cinematography, political volunteering, and long road trips. Alexander plans to attend medical school, or be elected or appointed to a major office. Junior Josiah Shaw enjoys political science, robots, aeronautics, baseball, paint-ball, and computers. Josiah has attended the Edmond Homeschool Co-op since sixth grade, and has been a member of the academic team since seventh grade. Josiah is very active in his youth group at Life Church. His aspirations in politics have led him to involvement in political campaigns in and out of the state, as well as the opportunity of paging for the Oklahoma State Senate, staffing TeenPact, and attending Oklahoma Boys' State. Geoffrey Whittaker is a senior who is proud of his many accomplishments, which include making the "top 20 posters" list on two online message boards, achieving a National Merit Commendation, and being elected vice-president of the Edmond Homeschool Senior Class. His sights are set high; he plans to get a high-paying job in philosophy after graduating from either Tulsa University or Oklahoma University.

Edmond Home School Co-op.

Oklahoma City, Oklahoma

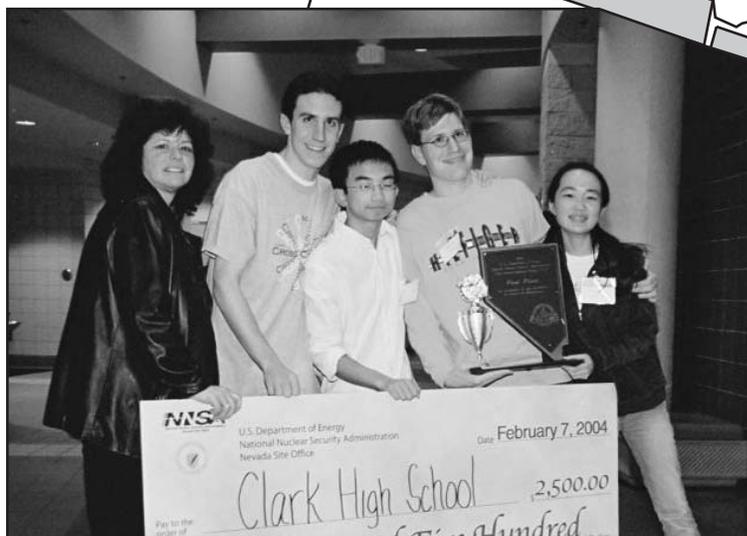
National Energy Technology Laboratory – Tulsa

Team Coach: Sherri Drwenski is very happy to return with her team for a second year to the National Science Bowl®. She has been coaching teams at the EHSC for five years. In addition to the high school team, she also coaches a 7th and 8th grade academic team. In her spare time, she enjoys reading and being with family and friends.

**Edward W. Clark High
School**

Las Vegas, Nevada

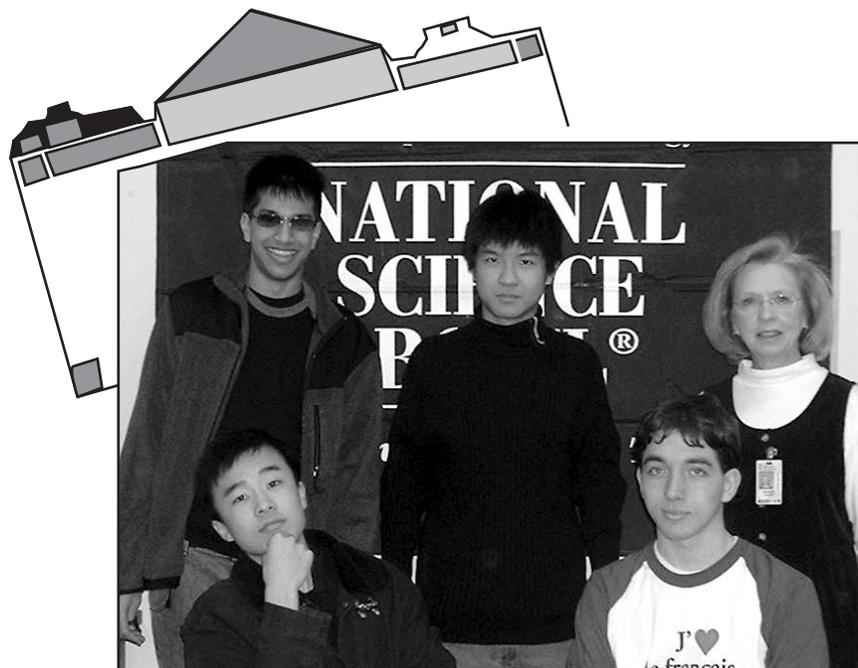
NNSA – Nevada Site
Office



Left to right: Beth Isaacs (Coach), Ryan Weicker, Yung Wang, Alex Cerjanic (Captain), Young Ran

Team Coach: Coach Beth Isaacs received her Bachelor's of Science from UNLV in 1983. She went on to complete her Master's in Education in 1990. Beth specializes in Biology and Zoology and has been teaching advanced students in a magnet program for over a decade. The three scientific discoveries that she feels are the most important are vaccinations, the telephone, and the microscope. Her hobbies include attending football games, walking her Jack Russell's, Mickey, Penny, and Abbey, and underwater basket weaving.

Team Members: Alex Cerjanic is a junior. Young Ran is a sophomore. Yung Wang is a sophomore. Ryan Weicker is a sophomore.



Left to right, Back Row: Ronjon Banerjee, David Zhang, Joan Dutter (Coach), Seated: Gene Li, Dragos Ilas

Team Members: Ronjon Banerjee is a junior at Walton. He is currently enrolled in two AP science courses. He likes science but not math. He plans to study biology in college. Dragos Ilas is currently a junior at Walton. He was born in Romania and spent the majority of his life there. His favorite subjects are math and physics. He has been an active member of Science Olympiad, Academic Bowl, and Mu Alpha Theta. This is the first year he participated in Science Bowl. Dragos wants to major in math, astronomy, or philosophy in college. Gene Li is a junior at Walton. He is an active participant in Science Bowl and Science Olympiad. He is currently enrolled in two AP science courses, although science is not his favorite subject. He is still undecided as to which university he will attend. David Zhang is a junior at Walton. He is an active participant in Academic Bowl, Science Bowl, Science Olympiad, and Math Team. This year he was competition coordinator for Walton's Invitational Science Competition, better known as WISC. He is undecided about which college he will attend.

George Walton High
School

Marietta, Georgia

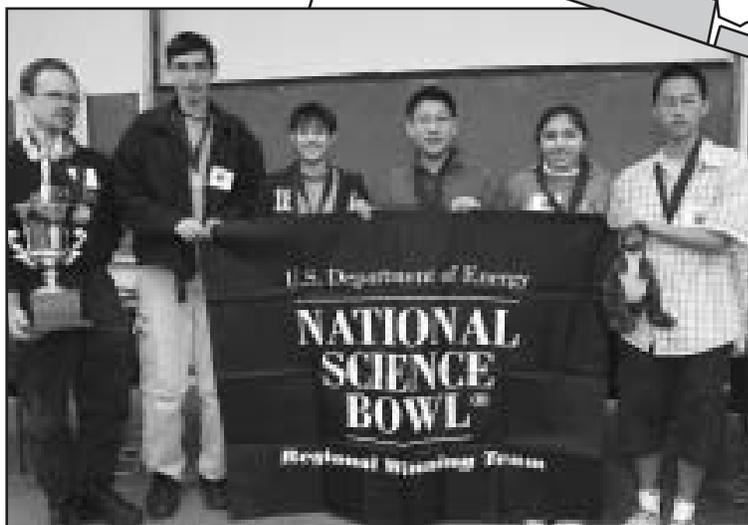
Georgia College & State
University

Team Coach: Joan Dutter has been teaching for 27 years, the last 19 at Walton High School where she currently teaches physics. She earned a B.S. in chemistry from Penn State University, a Master of Management in Business from Troy State University, Teacher Certification from Washington University in St. Louis, and she studied science education with a concentration in physics at Georgia State University. In addition to Science Bowl, Ms. Dutter helps with Science Olympiad and is chair of the science department at Walton High School. When not involved with school duties she and her husband, Will, enjoy spending time with their three daughters, sons-in-law, and five grandchildren.

The Harker School

San Jose, California

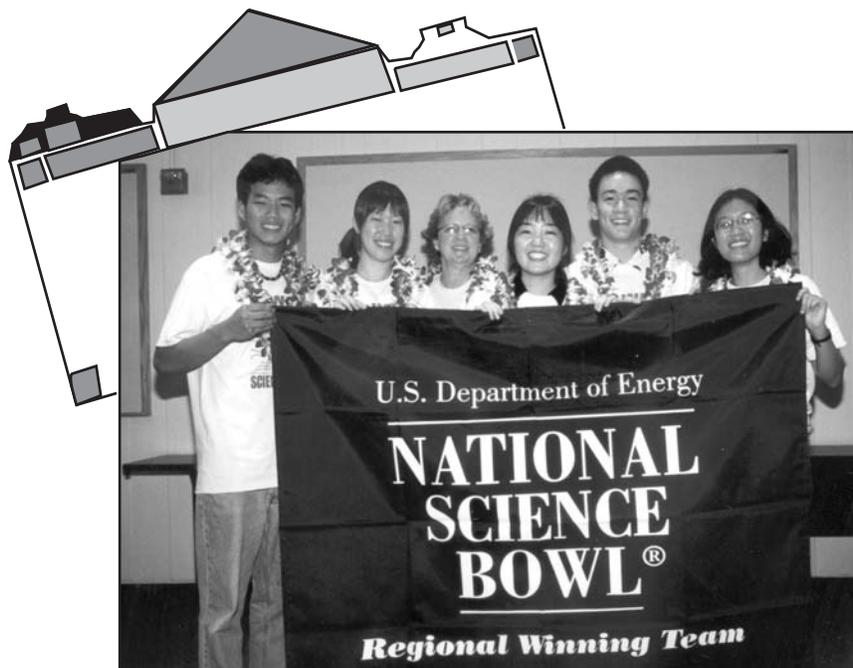
NNSA Oakland/
Lawrence Berkeley
National Laboratory



Left to right: Robbie Korin (Coach), Anjali Vaidya, Lev Pisarsky, Mason Liang (Captain), Yi Sun, Jasper Shau

Team Coach: **Robbie Korin** earned his B.S. degree in Chemistry at Montana State University in 1988. He has been teaching chemistry the last 16 years including AP chemistry the last 12. He has been a Science Bowl coach since that start of the program at three different schools including Harker and two in Montana. This is the first year he has coached a team that won the regional competition. His hobbies include daily workouts at the gym and viewing independent films. He owns a West Highland Terrier named Trouble.

Team Members: **Mason Liang** is a junior at the Harker School who excels in history and math and enjoys Japanese. He likes pandas, dinosaurs, and waffles. His pet dinosaur is named Rexxar. **Lev Pisarsky** is a junior at the Harker school. He participates in a number of academic teams and is an avid chess player. **Jasper Shau** is a sophomore at the Harker school. He likes music and enjoys playing the cello. His favorite subjects include chemistry and Japanese. **Yi Sun** is a sophomore at the Harker school. He participates in many math contests and attended the Math Olympiad camp in Lincoln, Nebraska. He enjoys playing computer games in his spare time. **Anjali Vaidya** is a senior at the Harker school. She will attend Stanford University in the fall. Her favorite subjects include biology, chemistry, and math. In her free time, she enjoys reading, swimming, and watching TV.



Left to right: Franklyn Lau, Jessica Yang, Susan Nishiura (Advisor), Kelly Nakamura, Ryan Tsukamoto, Carol Pham

Team Members: Franklyn Lau Jr. is a senior. His favorite subjects include biology, math, and creative writing. He has been a member of the varsity cross-country and track and field teams for the past three years. In 2003, he was a member of the State Championship team and a State All-Star in cross-country and state medalist in the 4 x 400m relay in track and field. He enjoys volunteering as a peer tutor and as a member of the Sierra Student Coalition. Kelly Nakamura, a senior, volunteers as an acolyte, as a mentor with Big Brothers and Big Sisters of Honolulu, and as the Hawaii State Coordinator of the Sierra Student Coalition. Kelly is the Science Bowl Team captain and Math Team co-captain. She has been a policy debater for four years and competed in the 2003 National Speech Tournament. Kelly enjoys physics, chemistry, and math. Senior Carol Pham loves science and math. Carol has been on the Math Team since ninth grade and is serving as a co-captain this year. She also plays the clarinet in the school's marching and concert bands. Carol spends her summers volunteering at the public library and enjoying the beaches of Hawaii with her family. Ryan Hiroaki Tsukamoto is a junior. He is a member of the school's varsity math, water polo, wrestling, and Judo teams. He plays violin in the Hawaii Youth Symphony and made his debut solo performance with the Honolulu Symphony in October 2002. Ryan can be found at home playing various musical instruments or programming 3D applications or skimboarding at Sandy's. Last year Ryan scored the highest score in the state in the AMC12-A and AIME and was the only Hawaii student to take the USAMO. Senior Jessica Yang is a Senior Prefect and a member of the Cum Laude Society. She is a 2003 USA Biology Olympiad semifinalist, National Merit semifinalist, and AP Scholar with Distinction. She plays the piano and actively participates in Science Bowl, Speech and Debate, and Big Brothers Big Sisters of Honolulu. She is president of the Art Club and Economics Club and is the art editor for the literary magazine, *Mane O Ke Ola*. This past summer, she participated in the 2003 Research Science Institute. She plans to major in biomedical engineering at Harvard and attend medical school.

Iolani High School

Honolulu, Hawaii

U.S. Department of
Energy – Pacific Liason

Team Coach: Coach Susan Nishiura received her B.A. and B.S. from the University of Hawaii. She was a medical technologist before entering teaching 20 years ago. Her life as a teacher has been both rewarding and fulfilling. She has learned from some of the best and brightest students in the country. Three scientists that she uses in class as strong examples of strength and character are Charles Darwin with his work on evolution, Rosalind Franklin for her X-ray diffraction studies on DNA, and Peter Mitchell for his discovery on chemiosmosis. Susan spends her time outside of school gardening with her landscaping club and attending sports events with her children.

**J. R. Masterman
High School**

Philadelphia, Pennsylvania

NOBCCHE - NE



Left to right: Dr. Ranjini Weerasooriya, Kledin Dobi, Elisa Chien, Walter Griffin, Jenne Ayers, Alexis Taylor

Team Coach: Dr. Ranjini Weerasooriya received her bachelor's degree in chemistry from the University of Sri Lanka, master's and doctorate from Temple University. She has been a teacher for over 36 years, of which 10 were at Temple University. She sponsors science fairs, Olympiads and other science-related competitions. She won Pennsylvania Teacher of the Year, Disney Teacher of the Year and Milken National Educator award, all in 1995, and has also won numerous other awards. She has done research on monoclonal antibodies at the University of Pennsylvania and plant hormones at Rohm and Haas. Cooking, gardening and travel are her hobbies. She considers nanotechnology, stem cell research and the human genome project as the three most important scientific discoveries.

Team Members: Jenne Ayers aspires to be a pediatric neurosurgeon. She also writes original speeches and recites them all over the country. Along with academic achievements, she is involved in the community. She is the president of the Philadelphia NAACP Youth Council, and the secretary of the Student Council. Senior Elisa Wei Chien loves science and music. She is an exchange student from Taiwan who received special education for gifted students since elementary school. She has won numerous science fairs and is involved in many research programs. Elisa is planning to major in physics in college and become a neuroscientist in the future. She is in all school music organizations and plays almost every instrument. Her hobby is go to the Free Library of Philadelphia. She checks out an average of eight hundred books a year. Sophomore Kledin Dobi's favorite subjects are math and physics. He currently writes for the school newspaper, is in Model UN, and coaches his school Math Counts team. Kledin has won numerous awards in mathematics and science competitions. He is class treasurer and volunteers in his community. He wants to become a physicist. Sophomore Walter Griffin's favorite subjects are biology, chemistry, world history, and math. He has won an award for excellence in World History and last year he served as the class president. Walter volunteers at his church. He wants to major in biochemistry in college. Alexis Taylor is a senior and her favorite subjects are English, drama, and biology. She has been a Ventures Scholar since the tenth grade as well as participating in the NOBCCHE Science Bowl, placing 3rd regionally and 5th nationally. Her extracurricular activities include school plays, African-American Cultural Committee, Asian Arts Initiative, Girl Scouts, and bowling. She plans to major in communications and her goal is to become a film/television producer.



Left to right: Alayna George, Charlene Bashore, Ken Heikens (Coach), Brad Stapleton, Erin King, Tara Schaefer

Kamiakan High School

Kennewick, Washington

U.S. Department of
Energy – Richland
Operations

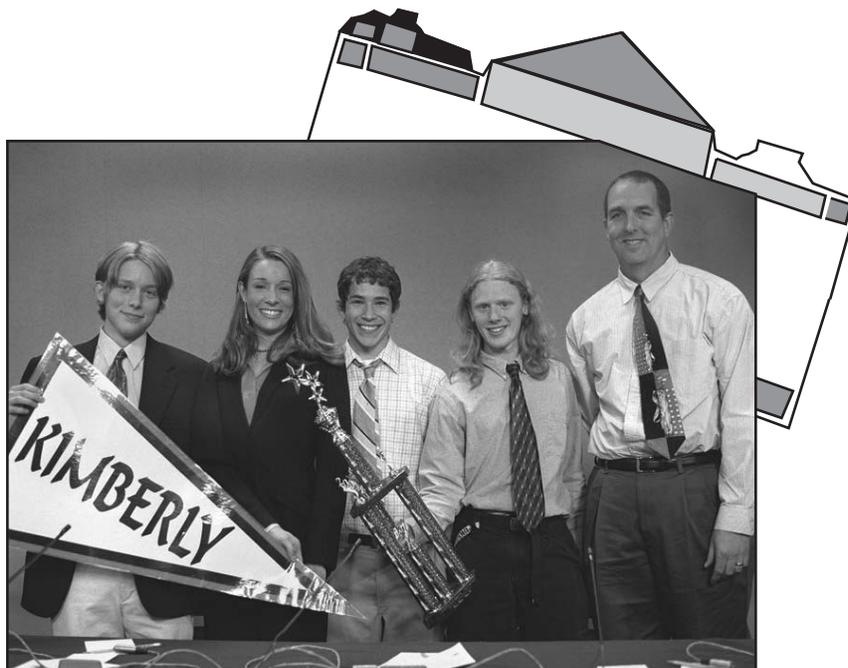
Team Members: Charlene Bashore is a junior at Kamiakin High School and is the captain of the Knowledge and Science Bowl teams. She is also an avid violinist, and is the concertmaster of Kamiakin's String Ensemble, Symphony Orchestra, and Chamber Ensemble. She hopes to pursue a career in medical research, where she aspires to earn at least a master's degree in biochemistry. Charlene plays varsity tennis and is a member of Key Club, SHOUT (Students Helping Others Understand Tobacco) Club, National Honors Society, Link Crew, and Science Olympiad. Alayna George is a senior at Kamiakin High School. She is a member of the National Honors Society and a National Commended Scholar. Her activities include chamber choir, Knowledge Bowl, Science Bowl, church activities, and Spanish language translating around the Tri-Cities area. Alayna is very busy this year because she is enrolled in four AP classes at high school and also has a part-time job at Pacific Northwest National Laboratory. Erin King is the president of the Kamiakin FFA Chapter. She is a member of the Girl Scouts, National Honors Society and the Friends of the Library. She has worked with both the Red Cross and the Reading Foundation. She participates in Science Olympiad and Knowledge Bowl, and competes in Parliamentary Procedure, Extemporaneous Speaking, and Public Speaking through FFA. If you mention fossils, her eyes light up. Tara Schaefer is a senior at Kamiakin High School. She is the president of National Honors Society. She stays busy with Knowledge Bowl, Math competition, cross-country, track, Science Olympiad, Fellowship of Christian Athletes, choir, TOPS leadership program, and AP classes. She volunteers at her church as a counselor at summer camp. Her favorite pastime is reading, although running with her cross-country team is high on the list. Tara also teaches piano lessons. She is planning to attend college to pursue her many interests. Brad Stapleton is a senior and participates in both Science Bowl and Knowledge Bowl. He is an active Boy Scout with the rank of Eagle. He would like to go to BYU to study either graphic design or animation and would like to be either a 3-D or 2-D animator. In his spare time, Brad enjoys 3-D modeling, drawing and building computers.

Team Coach: Kenneth (Ken) Heikens is a 1963 graduate of Northern Montana College with a B.S. in secondary education, science emphasis, and in 1970 earned a M.S. in science education from Oregon State University. He began his higher education during the Sputnik era, and had a strong interest in becoming a dentist. Because finances were a problem he opted to delay dental school and enter the teaching field to earn money for school. The wonderful discovery was that he enjoyed teaching and seemed to have a talent as well; 39 years in the classroom have resulted, with no regrets. The great advancements in medicine, molecular biology and space exploration have been an inspiration to him over the years and have influenced greatly his excitement in teaching. As he approaches retirement, he is looking forward to more study of fresh-water fish and time with his grandchildren.

Kimberly High School

Kimberly, Idaho

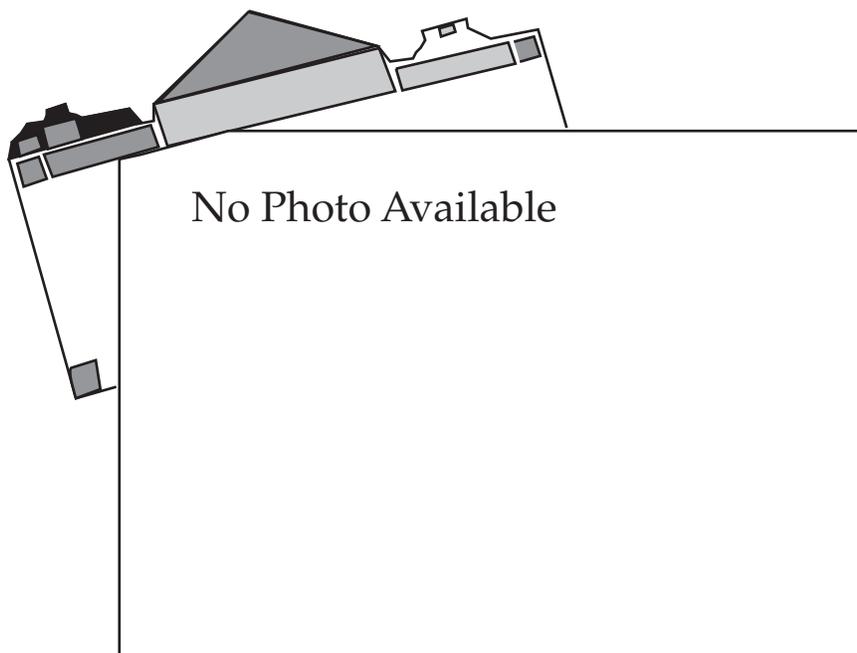
Bechtel BWXT – Idaho



Left to right: Curt Lindley, Elly Garner, Jarad Torres, Jesse Cramer, Lawrence Pfefferle (Coach)

Team Coach: Science teacher Lawrence Pfefferle attended Idaho State University, graduating in biology with a secondary education certificate. The reason he went into education is because his father was a senior government teacher who thoroughly enjoyed teaching. He chose biology because of the impact his sophomore biology teacher had on him. This is his first year at Kimberly High School after teaching previously at Twin Falls High School. It is also his first experience as coach of the INEEL Scholastic Tournament team. His is married and has three children. He feels the three most important scientific discoveries would be the Crick and Watson model of the DNA molecule, the ability to clone organisms or organs and the ability to use DNA for fingerprinting purposes.

Team Members: Jesse Cramer is a junior. He is 17 years old and has lived in Idaho almost his entire life. He has participated in many sports including gymnastics, cheerleading and pole vaults on the track team. He has also been involved in the school newspaper, the INEEL Scholastic Tournament team and school literary magazine. Jesse enjoys writing and last summer attended a weeklong writing workshop at Albertson College in Caldwell, Idaho. Jesse's real passion, however, is making movies. Eventually he would like to move to California and start his own video production company and live happily ever after. Elly Garner, a senior, is able to cram more activities into one day than many people do in a week! Her current involvements include speech, student government, singing, mock trial, drama, INEEL Scholastic Tournament, English horseback riding, volleyball, NHS and applying for scholarships. Elly has further committed herself to her activities as Speech captain, Scholastic Tournament president and senior class treasurer. Her competitive spirit garnered her second place at state speech, mock trial district champion, letters in volleyball and track, and first-place district solo champion. Elly plans to study broadcast journalism and vocal music at Pepperdine University. Senior Curt Lindley enjoys biology. He has earned an academic scholarship to the University of Puget Sound. He is the fearless captain of the Debate, Mock Trial and INEEL Scholastic Tournament teams. Curt volunteers time to the hospital and the Boys and Girls Club. He hopes to someday be a doctor with the Peace Corps. His proudest accomplishment is juggling a full-time college schedule along with his high school responsibilities. Jarad Torres, a senior, enjoys physics and English. At school he is involved in drama, INEEL Scholastic Tournament, Cultural Club, track and football. He has won numerous students of the year awards, and a varsity letter. Jarad volunteers in the community in activities such as a refereeing youth sports and wrapping presents each Christmas for East End Providers. He plans to attend the College of Southern Idaho in Twin Falls, Idaho before transferring to Idaho State University to major in secondary education. Jarad plans to be a high school English teacher.



La Jolla High School

La Jolla, California

NOBCChe – San Diego

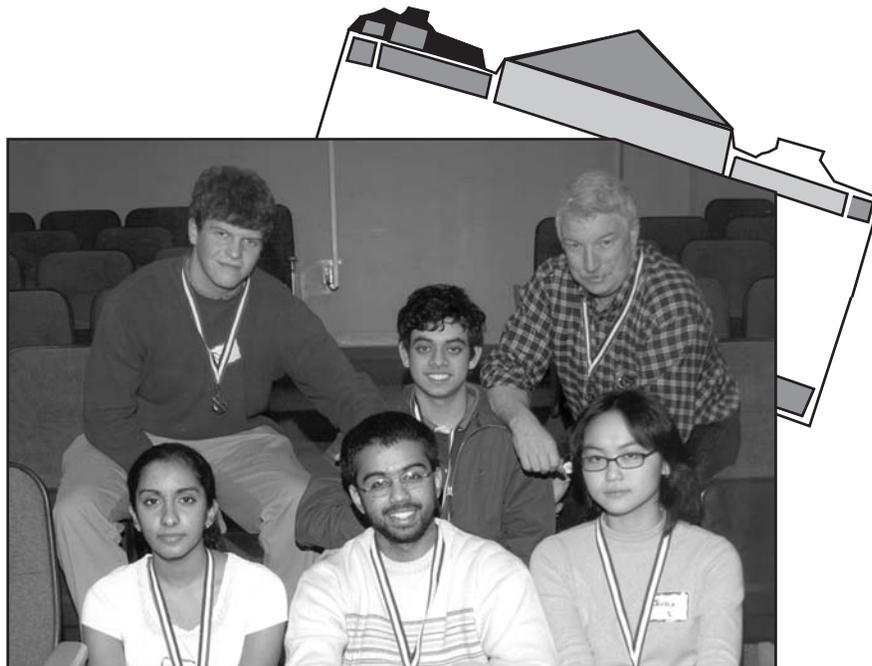
Team Members: **Dora Elizabeth Arnold** is currently a junior at La Jolla High School and has been a participant in Science Bowl competitions since middle school. For the past two summers she has been involved in local science enrichment programs. She plans to major in biology in college. **Anthony D. Evans** is a senior at La Jolla High School whose goal is to become a partner in an architectural firm and to help create national centers for youth science learning. He has always had an interest in science, especially biology and chemistry. In biology, he loves to study entomology, herpetology and ichthyology. In chemistry he enjoys studying the properties of the individual elements. He is looking forward to his college education and the experiences he will encounter. **Damien Robinson** is a senior at Frances W. Parker. He is currently the vice president of the Umoja Society, president of the Progressive District Baptist State Ushers Association and Bible instructor in the State of California Youth Ushers Association. Damien's awards include the Sigma Gamma Rho young male role model of the year, the Union-Tribune Athletic and Academic Scholarship and five-time recipient of the Golden Pyramid Scholar Award. He has participated in the NOBCCChE science competition for the past five years. Damien is also an active member at Macedonia Missionary Baptist Church. He looks forward to attending the University of Miami and majoring in chemical engineering. **Michael Savvas** is a sophomore at La Jolla High School and has been involved in Science Bowl/Science Fair activities since the seventh grade. He has participated in California State Science Fair competitions and has also competed in NOBCCChE-sponsored National Science Bowl Science Fair competitions. He enjoys watching and playing basketball and tennis. **Julian Sonderegger** is a junior at La Jolla High School. He is a Life Scout and has earned his scuba diving certificate. He has been in NOBCCChE for five years and his team has placed second in the nation twice. He enjoys snowboarding and snow camping. He is a member of the jazz ensemble at La Jolla High. He plans to attend the Air Force Academy or UCSD where he would like to attain a Ph.D. in biology.

Team Coach: **Walter Fairley, Jr.** earned his B.A. in history from San Diego State University and a master's degree and credential 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 teams have placed in the top five teams nationally for the past five years.

Lakeside High School

Atlanta, Georgia

Savannah River Site



Left to right, Front row: Gopika Suraj, Bilal Yousufzai, Jessica Yu, Back row: David Szerlip, Sagar Bapat, Steve Ellerbee (Coach)

Team Coach: Steve Ellerbee earned his undergraduate degree from West Georgia College and earned his masters degree from Georgia State University. At the time of his graduation, there were few positions for chemistry majors and teaching seemed a logical solution. He has been teaching for 32 years and still enjoys the experience. He has been teaching AP Chemistry for 13 years and feels that Lakeside's AP program has been extremely successful.

Team Members: Sagar Bapat, a junior, is an active member of the Policy Debate Team and founder of the school's newspaper and volunteer organization, Compassion Inc. Sagar is also a member of the Varsity Tennis Team. His mathematical and scientific achievements include being a member of the top Varsity Math Squad for the last two years and participating and winning prizes in various Science Olympiad events. Sagar has aspirations to work to find cures for diseases ailing the world today. Senior Gopika Suraj's favorite subjects include AP English Language and physics. She has played piano for four years, winning a master class at GMEA auditions. Gopika is a member of the National Honor Society, and volunteers at the VA Hospital during the summer. She also paints in her spare time. She will be attending Georgia Institute of Technology majoring in chemical engineering. Gopika is interested in researching alternative energy resources. David Szerlip, a senior, was Captain for his school's football team and member of the wrestling team for two years. David is involved in the Beta Club, National Honor Society, and Science and Math teams. He is President of both the French Club and Young Democrats Club. He was editor of Lakeside Review (literary magazine), and chairman of the Honor Council. David volunteers at an inner-city club that tutors youth in reading, math, and computers. He will be attending the University of Pennsylvania where he plans to study international relations. Bilal Yousufzai, a junior, is executive officer of the National Honor Society and an active member of his Muslim Youth Group of Augusta. As a member of the Science Olympiad and Science Bowl teams, he strives to expand his scientific horizons and learn more about the world around him. Bilal hopes to find a career in science or politics. Jessica Yu, a junior, enjoys literature and biology. She is a member of the National Honor Society, Math Team, French Club, Debate Team, and Science Bowl team. She plans to attend the University of Chicago or Columbia University, and major in English and minor in life science.



Left to right: Dr. Jane Ellis (ASMS President), Alex Cheng, Varun Varma, Robert Summers (Coach), Hunter Neill, Lauren White, Dr. Garvin Wattubewa (State Coordinator)

Team Members: Senior Alex Cheng is an active member of the Scholars' Band team (varsity captain) and Science Olympiad team (co-captain). He also serves as the president of Mu Alpha Theta and vice-president of NHS. Alex plays violin in both the Montgomery Symphony and Montgomery Youth Orchestra, of which he is concertmaster. In his spare time he also enjoys playing the piano. Alex will attend Harvard University next fall and plans to study biology. Hunter Neill is a senior. Senior Varun Varma is the son of an Air Force Officer and has moved many times; LAMP is the seventh school that he has attended. His favorite subjects include calculus, physics, and driver education. Varun was class representative at his last school. His extracurricular activities include Science Olympiad, Orchestra, Environment Club, Film Club, Computer Club, aircraft model making and basketball. Varun plans to major in aeronautical engineering. Senior Lauren White is an active member of NHS, Mu Alpha Theta, Key Club, and the NFL. She is president of the Spanish Club and secretary of the Science Olympiad team. Captain of the volleyball and tennis Teams, Lauren is an active athlete at her school. She plans to double major in chemistry and Spanish and continue on to medical school.

Lamp High School

Montgomery, Alabama

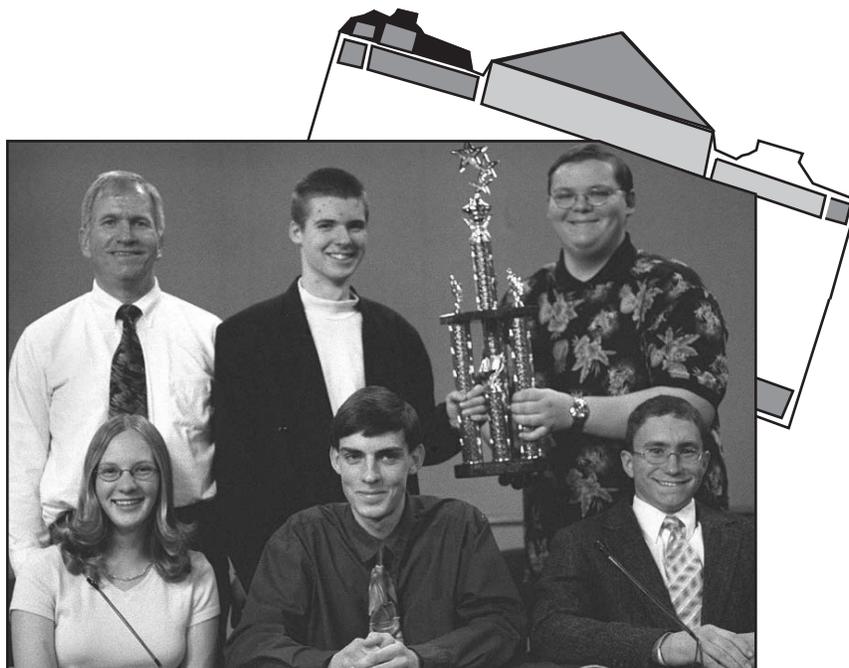
Alabama School for Math
& Science

Team Coach: Coach Robert E. Summers attended Wofford College and the Medical University of South Carolina. He participated in cancer research for 5 years prior to becoming a teacher. He became a teacher to share his wealth of knowledge with kids. He feels the three most important scientific discoveries are; the invention of the microscope, the working model of DNA, and the Hershey-Chase experiment. Coach Summers is an avid outdoorsman and helper of the Humane Society and Wildlife Preservation organizations.

**Liberty Christian
Academy**

Jerome, ID

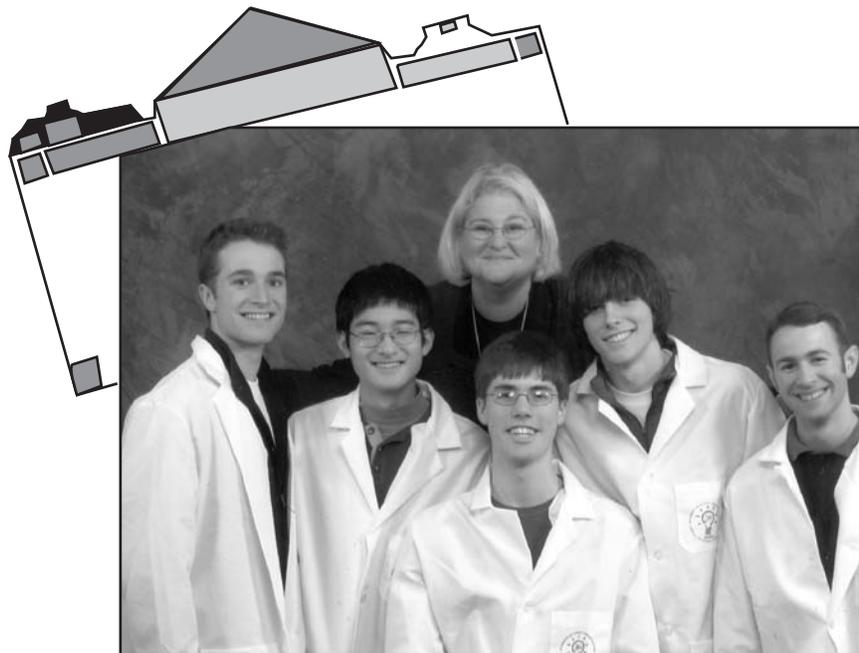
**U.S. DOE – Idaho
Operations**



Left to right, Back row: Gene Wisniewski (Coach), Daniel Berger, Kevan Reed, Front row: Katie Vance, Jason Carpenter, Jeremy Wisniewski

Team Coach: Coach Gene Wisniewski was born in Los Angeles, California. His parents immigrated to the U.S. from Poland following World War II. He has a B.S. and M.S. from Utah State University and a Ph.D. from Purdue University in animal physiology. He and his wife were married in Michigan and moved to Idaho 22 years ago. They have eight children ages three to 21. He was a dairy farmer until 1993 when he started teaching at Liberty Christian Academy (LCA). Gene feels the most important discovery was when Louis Pasteur discovered that spontaneous generation was impossible, demonstrating that life must come from a living creator. He also feels that the discovery that microbes cause disease was also important because it has saved the lives of billions of people. Gene teaches a variety of subjects at Liberty Christian Academy including math, biology, chemistry, physics, government, grammar, Latin, U.S. History and economics.

Team Members: One of two juniors on the LCA team, Daniel Berger was home-schooled from the second to the eighth grade. During this time he competed on various soccer and softball teams with other home-school students. He has volunteered at several long-term care centers by providing songs and entertainment. While attending LCA, he has maintained excellent academic records while participating in district and statewide choirs. Future education plans include attending a Christian college with an emphasis on the communicative arts. Senior, Jason Carpenter's honors include AP Scholar, Idaho Top Scholar, Distinguished Student, Outstanding Youth Award and USAA Scholar. Jason's extracurricular activities include Concert Master of Magic Valley Youth Orchestra, Magic Valley Symphony, LCA Advanced Orchestra and student director of Bell Choirs, District Honor Choir, All-State Choir and served as student representative and president of LCA. Jason plans to double major in mathematics and music. Kevan Reed is a senior at LCA and plans on going to college to learn networking and computer programming. Katrina Vance is an outstanding student. She enjoys running on the Jerome Cross-Country team and also is a swimmer on the Jerome swim team. Katrina also is very committed to her church youth group and has participated as a counselor at junior camps and also volunteered at the Jerome community VBS for two years. She enjoys teaching children at Back Yard Bible Clubs throughout the summer and tutoring fellow students from LCA. Katrina plans on going to college at Trinity Western University and study medicine and linguistics. Jeremy Wisniewski is a senior. His honors include National Honor Roll, Who's Who Among American High School Students and a member of the INEEL Scholastic Tournament West All-Region team in 2002-2004 and All-State team in 2004. He is the Senior Class Representative. He participates in his church youth group, Bible study, swim team and various choirs. He has volunteered for his school, church and the St. Benedict's Foundation. He is planning on attending Idaho State University and major in biology.



Left to right: Drew Peterson, David Wang, Stephan Hoyer, Evan Rodriguez, Tristan Wagner, Center back: Nancy Lapotin (Coach)

Lincoln High School

Portland, Oregon

Bonneville Power
Administration

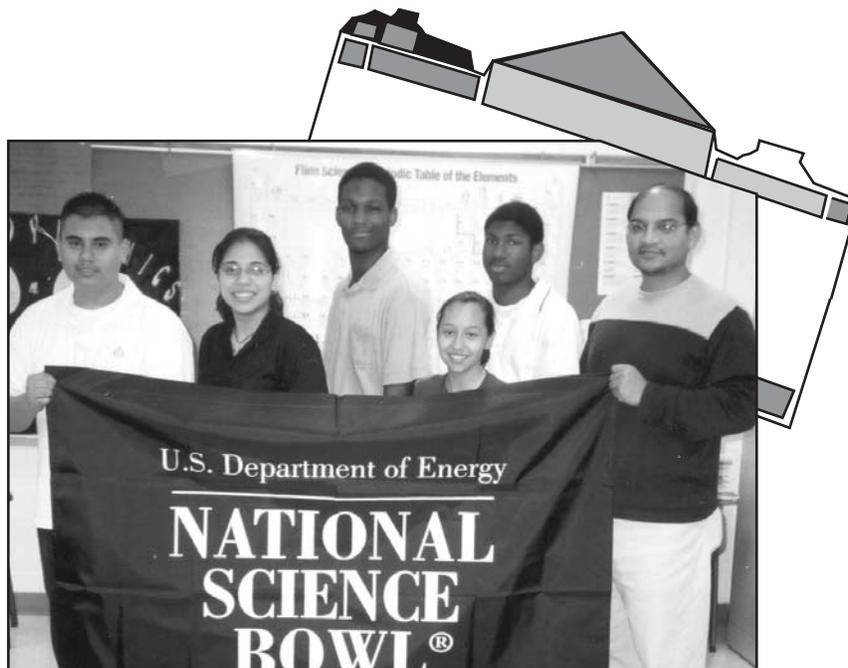
Team Members: Stephan Hoyer, senior, thrives on learning, analyzing, and discussing... any topic. He is a National Merit Scholar winner, and a NHS member. Stephan spent last summer as an NSF-funded participant in the Roswell Park Cancer Institute's Summer Research Program, synthesizing and researching new drugs for Photodynamic Therapy (PDT). Players of the strategic card game "Magic" may recognize Stephan (Darth Cow) as Webmaster for MTGnews.com. Stephan will be attending Swarthmore College. Drew Peterson, a senior, attributes his weirdness (and perhaps his addiction to the Grateful Dead) to spending way too much time around chlorine. After battling with varsity water polo and swim teams, and stumbling through all 26.4 miles of the Portland Marathon, Drew plans on continuing the adrenaline rush with Triathlon teams through college. The three schools that admitted this crazy critter were Harvard, Stanford and Yale. Evan Rodriguez, a senior, can usually be found playing soccer with his friends or doing a hard interval workout on the track, when not meditating to Grateful Dead music. He has squeezed in over 100 hours volunteer work at the Oregon Museum of Science and Industry to his already packed IB school schedule. This year he is involved in Peer Mediation. Next year he plans on attending Haverford, Stanford, or Pomona. Tristan Wagner, senior and team captain, was elected ASB Secretary and serves as a student representative on a high school reform committee. He is an active member of his school's Greens Club and is also a member of Lincoln's "We the People" Constitution Team, and won an award for top student in the Humanities/Social Sciences. He has entered last summer apprenticeship work in the Intel Science and Engineering Fair Regionals. He enjoys non-competitive soccer, riding his bike, and the Grateful Dead. He plans to attend Oregon State University. Senior David Wang moved to the U.S. from China in second grade, and by fifth grade was winning statewide awards for his verbal and mathematic abilities. Throughout high school he attended math camp each summer, was elected ASB Treasurer, and won sixth place nationally with his team in the Siemens-Westinghouse competition. He has also participated in the "We the People" competition last year. He plans to study at Yale University this fall. He sort of likes the Grateful Dead, too.

Team Coach: Coach Nancy Lapotin has been teaching science for 15 years. This is her sixth year as a Science Bowl coach. She has a B.S. in biology from Portland State University. She teaches IB Biology, and Conflict Mediation, and is facilitator of Site Council. She is a member of the Oregon Department of Education Science Content Panel. Her favorite scientist is David Suzuki. She is concerned that scientists place a low priority on the precautionary principle. Her hobbies include surfing, renovation of a 1924 Craftsman bungalow and working out. Nancy was living in San Francisco in 1969 while the Grateful Dead were playing there.

Milby High School

Houston, Texas

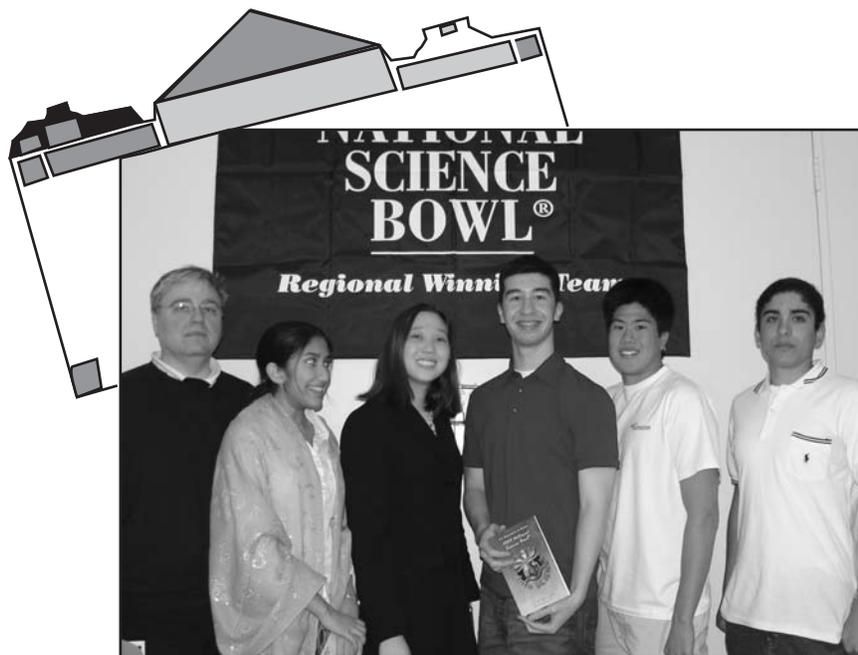
NOBCCChE Southwest



Left to right: Humberto Reyna, Leticia Reza, John Harris, Elsie Ponce, Johnny Dilworth, Shakir Ahmed (Coach)

Team Coach: Coach Shakir Ahmed teaches PAP and AP Chemistry at Milby High School. He has a bachelor's degree in Chemistry from the University of Houston, and a master's degree in chemical engineering from PV A&M. His high school chemistry teacher was his inspiration for becoming a high school chemistry teacher. He thinks the three most important scientific discoveries are computers, electricity, and DNA. He loves spending time with his son, dancing salsa and teaching chemistry.

Team Members: Sophomore Johnny Dilworth is involved in many activities within school and his neighborhood. He is the treasurer of the Salsa Club, a student of the Magnet Program, a member of the ROTC Program, an advocate in the Peace Club, and a member of the swim team. On the weekends and during the summer he volunteers in The Work Source Youth Center 5th Ward. His future plans are to attend medical school at Baylor College of Medicine, and become a pediatrician. He loves spending time with his family and friends. He is a creative writer who enjoys writing poems and stories. Junior John Harris' favorite subjects include math and physics. He has been in the JROTC program since freshman year and is on the Rifle Team. His current rank is Cadet Staff Sergeant. He is also on the Student Council. The Student Council requires him to do twenty-four hours of community service, most of which are school-related. He doesn't know what college he wants to attend, but he does know he wants to major in electrical engineering, mechanical engineering, or computer engineering. Sophomore Elsie Ponce's favorite subjects are chemistry and math. She is a member of the Milby varsity soccer team and of Young Leaders in Action. In this organization she has completed 90 hours of community service. She plans to attend Texas A&M University and major in wildlife conservation. Sophomore Humberto Reyna's favorite subjects are math and chemistry. He tutors freshmen in algebra and loves to help his peers as well. Humberto has done volunteer work at his middle school, Raul Yzaguirre, as a tutor, teacher assistant, and web designer. He plans to attend the University of Texas at Austin to major in either computer or chemical engineering. Junior Leticia Reza's favorite subjects include math and chemistry. She is an active member in National Honor Society, Science Honor Society, Mu Alpha Theta, English Honor Society, and the vice president of the Christian Society. Leticia is actively involved in her community. She is a volunteer teacher at Immaculate Heart of Mary Church and tutors an Algebra I class every day after school. Her passion for helping others has encouraged her to pursue a career as a calculus teacher. Her goal is to attend the University of Texas.



Left to right: James Hill (Coach), Shivani Goshal, Stephanie Paige, Nelson Ray, Brian Inoye, Shahin Zarafshar

Team Members: Senior Shivani Ghoshal's interests include biology, geology, and mathematics. Her extracurricular activities include Science Bowl, Science Olympiad, piano, Indian classical dance, and independent research on autism therapy. Her autism therapy research has won her the CAPS Outstanding Young Scientist 2003, and fourth place at Intel's International Science and Engineering Fair 2003. She will attend Harvard this fall and hopes to double major in Mathematics and Biology, and become a neurosurgeon. Brian Inoye, a senior, is a very unique individual. His favorite subjects include math and biology; however, he seems to spend most of his time outside of school with performing community service and participates athletics. Brian's commitment to athletics has earned him the Sacramento Bee Student Scholar-Athlete of the year award. Furthermore, Brian has done exceptionally well in his four-year tenure on his high school Science Olympiad team winning a bronze medal last year for his model airplane. He has not yet decided on a college and is considering between Stanford, MIT, Yale, and Johns Hopkins. Senior Stephanie Paige favorite subjects are math and the sciences, especially biology. She plans to pursue these interests at MIT in the fall with a biology/chemistry double major. At school, she is the treasurer of the Art Club, as well as a member of the Science Olympiad team and a regular participant in the Mathletes competition. She also enjoys saber fencing, and tending her carnivorous plant garden. Senior Nelson Ray is an engaging student who enjoys mathematics and physics. He will most likely continue his education at Stanford University where he will decide on which career path he will pursue. In his free time he enjoys sleeping, doing nothing, and playing computer games. Shahin Zarafshar is a senior.

Mira Loma High School

Sacramento, California

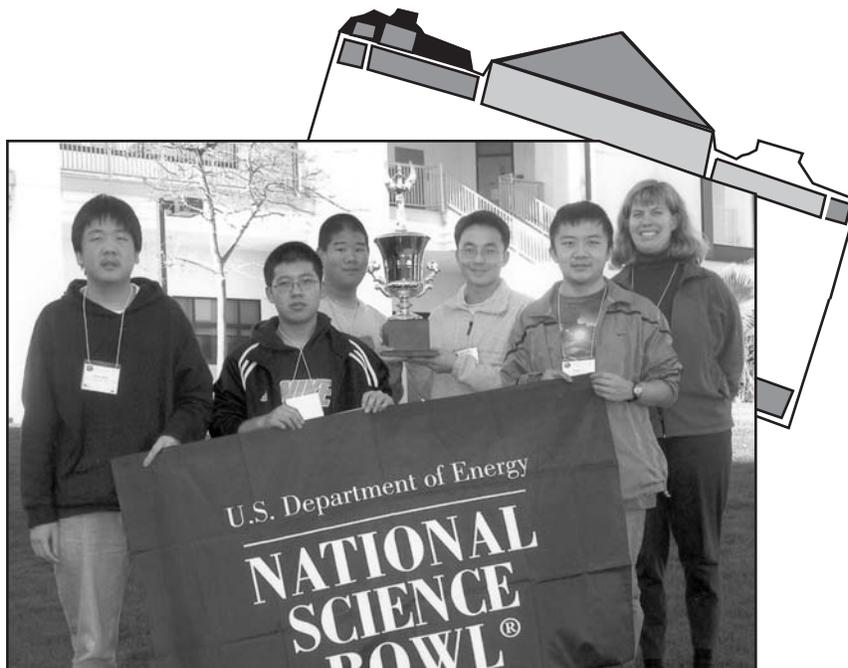
WAPA – Sierra Nevada
Region

Team Coach: James Hill teaches Honors Chemistry and International Baccalaureate (IB) Biology at Mira Loma High School in Sacramento, CA. Before moving to California, he taught upper level science in public schools and junior colleges in Virginia. James received a B.S. degree from the University of Virginia and a M.S. degree from Radford University. In addition to being the Science Bowl coach, James is also the Director of the Sacramento Regional Science Olympiad. In his spare time, he enjoys playing piano, photography, reading, and traveling.

Mission San Jose High School

Fremont, California

Sandia National Laboratories – California



Left to right: Kevin Koai, Dan Gui, Ben Yim, George Xu, Roger Fu, Nathania Chaney Aiello (Coach)

Team Coach: Coach Nathania Chaney Aiello has taught chemistry, physics, and earth science at Mission San Jose High School for the last seven years. She received a B.S. in biological sciences from University of California at Davis and attended UC Berkeley for graduate studies in science education. Nathania has spent time researching plant – caterpillar interactions in Costa Rica, and protein content in experimental wheat strains. She thinks some of the most important scientific discoveries include DNA, compound lenses, and subatomic particles. When Nathania isn't busy learning more cool science demos at the Exploratorium museum, she is working in her garden.

Team Members: Roger Fu is a junior who enjoys his Spanish literature class despite the fact its heavy workload often keeps him away from his hobbies, amateur astronomy and archery. His has been the president of his school's Astronomy Club for the past two years and has also dedicated over 300 hours volunteering at nearby observatories. Roger is still unsure which college he would like attend, but is fairly certain that he will pursue a career in oceanography. Dan Gui, junior, loves science, is currently taking two AP sciences (chemistry and biology), and studies science outside of school as well. He applied for the UC-Davis Young-Scholars Program summer research project. He hopes that when he returns from Science Bowl Nationals the acceptance letter will be in the mail (fingers are crossed). He loves playing badminton and is a member of the varsity badminton team. He is involved in the Academic Challenge Club as well as the Speech and Debate Club. He has also played piano for seven years. Kevin Koai, a junior, has a knack for turning in forms late. He likes literature, music, math, and chemistry, but has no idea what to pursue in college. He has a strange fascination with Tangerine Altoids, which he considers both a blessing and a curse. His favorite hobby is sleeping. Wait, no – make that playing the piano and watching random scenes from the movie *Amadeus*. George Xu is a sophomore and this is his first year attending the Science Bowl, and he is very nervous. He's been studying some of his most hated subjects, biology and geology, in order to prepare for this competition. George enjoys swimming, playing piano, and attending his church's youth group. George plans to attend one of the University of California institutes of higher learning. Ben Yim is a senior. When he isn't avidly campaigning for gastropod superiority over penguins, he spends as much time possible with his one and only true love of his life: his computer. In the hours that he doesn't spend gazing longingly into those bright blue screens, he finds himself madly scribbling away at school, trying to finish the homework assignment due next period. He is actively engaged in numerous clubs, holding offices the schools' Quizbowl and Chess Club. In the fall, Ben will attend the University of California, Los Angeles, majoring in computer science and engineering.



Left to right: Tran Pham (Coach), Stanley Wang, John Shen, Anran Wang, Ning Bao, Randolph Li

Team Members: Ning Bao is a senior in the Math, Science, and Computer Science Magnet Program at Montgomery Blair High School. He participates in the Science Bowl, *It's Academic!*, and Math teams. He has been selected to the elite Team Maryland in *It's Academic!*. When not doing schoolwork or studying, Ning enjoys playing hockey, ping-pong, and Go. On weekends, Ning tutors recently arrived Asian students in English and other subject areas. His goal is to attend MIT, where he plans to major in either aerodynamics or artificial intelligence. Junior Randy Li is interested in studying economics, math, biology or something else in a New England University. He is a member of his school volleyball team, and is an avid violinist of ten years. He has been a member of the school Math Team for many years, and has attended Ross and MOSP. He also enjoys football, collecting coins, chess and computer games. John Shen is a senior in his second year at the National Science Bowl®. Math, computer programming, music, and physics are his extracurricular activities. He loves his guitar, family, and church, not necessarily in that order. When he's not busy with school, he tries to play basketball and Frisbee. His favorite foods are *magnoliophyta oscura*, which he'll explain if you ask. Captain Anran Wang is a senior in the throes of seniordom. He enjoys biology, foreign languages, especially German and Japanese so that he can read manga and watch anime without subtitles, and reading Einstein's papers. Participating in musicals and Destination Imagination allows him to express himself artistically. His primary destination: Berkeley, CA, to study microbiology and possibly German. His ultimate goal is to become a research professor at Stanford. A longtime resident of this area, he extends a friendly welcome to teams from afar. Senior Stanley Wang is interested in electrical and biomedical engineering, and hopes to pursue a career that bridges these fields. Besides leading Blair's Physics Team and Model UN Club, Stanley also enjoys playing trumpet in the school's honors jazz band. Stanley is a regional finalist in the Siemens Westinghouse Competition, a semifinalist in the Intel Science Talent Search, and a semifinalist in the USA Biology Olympiad. During his free time, Stanley likes playing Frisbee, tennis, and basketball.

Montgomery Blair High School

Silver Spring, Maryland

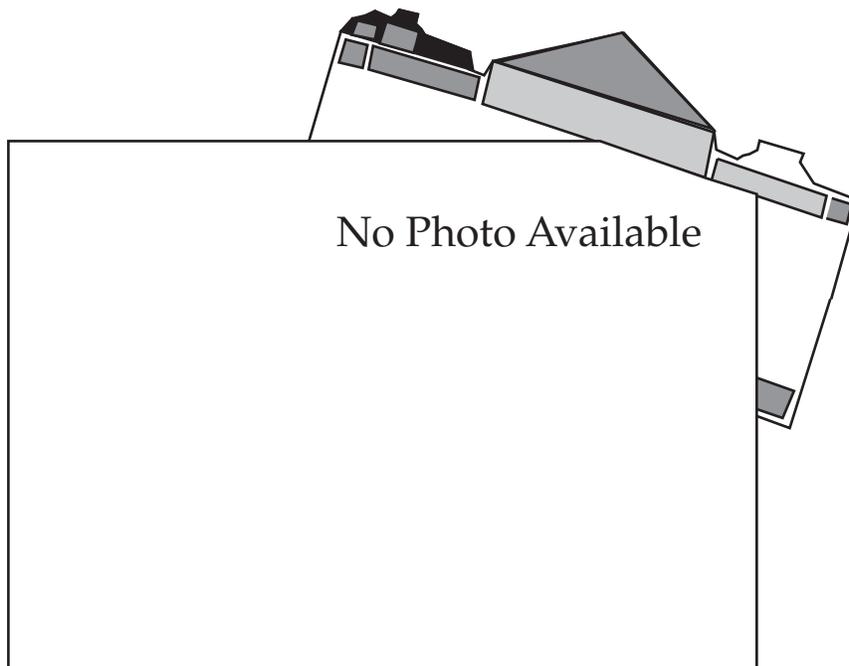
U.S. Department of
Energy – Headquarters

Team Coach: Mr. Tran Pham is a math and chemistry teacher at Montgomery Blair High School. He has been teaching there for 13 years. Besides teaching, Mr. Pham's other career is an industrial chemist. Mr. Pham has a 3-year old son who keeps him busy at home in Maryland and Florida. Mr. Pham sponsors Envirothon, Ocean Science Bowl, Science Bowl, Chemathon and Chemistry Olympiad.

**Newton North High
School**

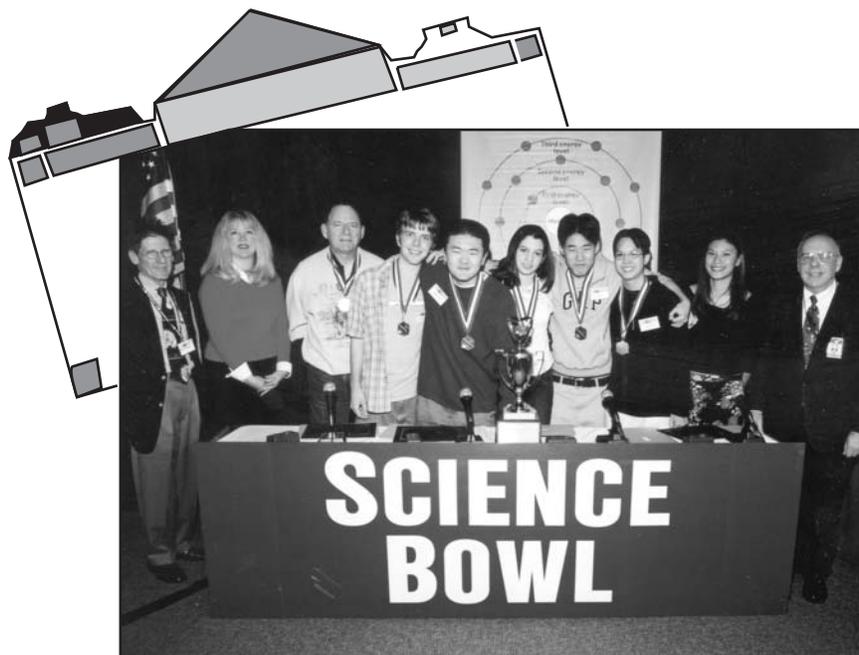
**Newtonville,
Massachusetts**

**University of Southern
Maine**



Team Coach: **David Newburg** attended University of Massachusetts, (B.S. Chemistry), and Boston University (Ph.D. Biochemistry). He performs Biomedical research in Glycobiology, specializing in carbohydrate cell surface structure and function, and he chose science because it allows testing hypotheses directly rather than relying on being judged by the consensus of 'experts'—it is the most democratic of disciplines. He coaches by choice and thinks Lavoisier rocks. He admires the discovery of operant conditioning, especially the power of intermittent positive punishment. Elkhonon Goldberg's discoveries on prefrontal cortex function (personality traits and many types of abstract reasoning) may also help to program great Science Bowl competitors.

Team Members: **Robert Cooper**, a senior, has had hundreds of interests, including computer-tinkering, video making, special effects, magic, rock climbing, Van de Graaff generators, singing, acting, comedy, Tom Lehrer songs, drawing, origami, photoshop, making Lego robots, volunteering at the Museum of Science in Boston, learning science, and Science Team. He has been heavily involved in all of them at some point but his interest has waned for all but the last two. His future plans are to figure out his true interests so that he may ultimately pursue them. **Shelby Kimmel** is a senior and will be going to Williams College next year. She enjoys stargazing, reading, and riding horses through the Arizona desert. Her favorite words are puddle-wonderful and mud-luscious. She hopes to be an astronomer when she grows up and live happily ever after. Her favorite part of Science Team is Friday night practices when she gets her week's quota of lewd humor. She would like to thank all the guys (Hiro, Yin, Rob, Nong), for the good – or at least amusing times! Senior **Nong Li** is proud to make it to Nationals. He enjoys simplicity. Senior **YinFeng Shao** enjoys singing, playing Dance Dance Revolution, and most other things that would typically induce stage fright. His favorite movie is *My Sassy Girl*, the main character of which he can easily identify with, and his favorite actor is Rowan Atkinson. He enjoys football and Ultimate Frisbee. Before attending MIT this fall Yin plans on taking a cross-country road trip with his friends. **Hiroaki Tanaka** is proud to be at Nationals his senior year. He enjoys Cummings, Spanish, Wallace Stevens, and Saturday night Salsa parties, and has the ability to turn his misfortunes into entertainment for others. Hiro is proud to be a songwriting drummer, a gregarious bookworm, and a math-loving realist. He would like to say hello and tell you the world is probably made of roses.



Left to right: Dr. Ed Krupp, Lori Strakosch Gage, Len Soloff (Coach), Shawn Chanslor, Stephen Yao (Captain), Tanya Marton, Paul Kim, Jensen Law, Stephanie Bao, Walter Zeisl

Team Members: Shawn Chanslor is a senior on North Hollywood's A-team and a first year Science Bowl member. He is hoping to major in biochemistry at UCLA this coming fall. He was one of the founding members of the Rugby Club, a new organization at North Hollywood High. When he's not spending quality time with friends, he can usually be found at home playing video games. Junior Jensen Law joined the North Hollywood High School Science Bowl team in the fall of 2001. He enjoys studying science, so he also joined the North Hollywood Science Olympiad team. When not studying, Jensen enjoys playing the piano and the violin. Jensen is also the vice-president of the North Hollywood Interact Club, an Eagle Scout from Troop 10, a volunteer at the Shriners Hospital for Children in Los Angeles, and an active member of the Math, Ultimate Frisbee and Bridge clubs at school. After graduating from high school, Jensen hopes to attend a university to study medicine or engineering. Senior Tanya Marton has enjoyed the past three years as a member of Science Bowl, and the past four years as a member of Science Olympiad, for which she has won multiple awards for her engineering skills and scientific understanding. A Siemens Advanced Placement Scholar, she has investigated spectroscopy at Avery Research Center, and has won two State Science Fairs. In addition to her favorite subjects science, biology and chemistry, Tanya enthusiastically studies linguistics, anthropology, and the dramatic arts. She has performed multiple community plays for elementary school children and has starred in several local productions. Paul Kim is a senior at North Hollywood High School. His favorite subjects are physics and chemistry. Besides Science Bowl, Paul is also involved in Science Olympiad, Math Club, and Key Club. During his free time, he enjoys playing golf, playing the cello, photography. In college, he hopes to get involved in research. Stephen Yao is a senior at North Hollywood High School. He is also a member of the school Science Olympiad team and a writer for Magnitude, the school literary magazine. He enjoys playing tennis and video games in his spare time. His future career plans include bioengineering and business administration.

North Hollywood High School

North Hollywood,
California

BWXT Pantex Plant

Team Coach: Coach Len Soloff has been teaching for 39 years. He teaches AP Chemistry, AP Biology and Honors Biology in the Highly Gifted Magnet. In the past he has taught AP Physics "B" and Honors Chemistry. He earned his Masters Degree in chemistry. He has been a mentor teacher as well as department chair. He enjoys chess, bridge and reading.

Oak Park High School

Kansas City, Missouri

Honeywell – Kansas City
Plant



Left to right: Greg Spiegel (Coach), Justin Cox, Kristen Brobst, Dale Pahls, Greg Yerino, Jack Short, Dr. Lario Yerino (Coach)

Team Coaches: **Dr. Lario Yerino** trained as an organic chemist, earning a B.S. degree at the University of Cincinnati, and a Ph.D. in organic chemistry at Texas A&M University. He worked in the chemical industry, before going into teaching. He enjoys sharing how science works with students, and coaching students in science competitions such as Science Olympiad and Science Knowledge Bowl. He feels it is deeply gratifying to interact with students who wish to learn. He feels the top three discoveries/inventions are the vacuum tube, antibiotics and the internal combustion engine. Assistant Coach **Gregory Spiegel** was interested in the weather as a child and that prompted him to pursue a career in science. He has always been interested in learning how things work and views science as a means to satisfy his curiosity. He earned a B.S. from the University of Kansas and then attended the University of South Dakota where he earned his M.A. The three scientific discoveries that he thinks are most significant are the germ theory of disease, the computer, and modern vaccinations.

Team Members: Junior **Kristen Brobst** is active in school and the outside community. During the summer she works as a camp counselor for a Girl Scout camp and also volunteers and participates in many other scouting events. Her favorite subjects are art and anatomy & physiology. She has earned several awards in art and science. In Science Olympiad she has taken first place at the National Tournament and currently holds position of Spirit Master for the team. Her future plans include attending a college in Colorado or North Carolina. Senior **Justin Cox** has been on Oak Park's Science Knowledge Bowl A team for two years, has been on the competing Science Olympiad team for two years, and has been a Science Club officer for two years. This year Justin was nominated for the Mr. OP contest for Science Olympiad. He has also been a section leader of the Oak Park Symphonic Orchestra for three years, concertmaster of the orchestra for one year, and has been a member of the Orchestra Council for two years. He has also been a part of the Pit Orchestra for the production of *West Side Story* and *The Sound of Music*. After high school, he plans to attend University Missouri-Rolla and major in geology and geophysics. Junior **Jack Short** has been a very successful part of the nationally ranked Science Olympiad. He has always been interested in science and hopes to enter the medical field after college. He is an Eagle Scout and is actively involved in his church, as a Sunday school leader. Jack's other activities include the Oak Park Tennis team, band, and German Club. Jack was a co-founder of the Oak Park Political Club, which stresses involvement and awareness of key political issues. His favorite subjects include biology and chemistry. Senior **Greg Yerino** is an active leader at Northgate Baptist church. He is an Eagle Scout in troop 357. Greg has performed many acts of community service, including leading many City Union Mission services and house building in Crok, Mexico. Greg is has competed in Science Olympiad twice at the national level. His favorite subject is physics, and he plans to attend UMR.



Left to right: Gerald Boyd (Manager, Oak Ridge Operations), Sebastian Chialvo, Ben Clemens, Jingyuan Wu, Ryan Lee, David Ryan, Dr. Nita Ganguly (Coach)

Team Members: Senior Sebastian Chialvo is vice president of the Science Club, National Honor Society and Spanish Club. For the Science Club, he participates in Science Olympiad and is team captain of Science Bowl, and has gone to the national level in both competitions. In his spare time, he enjoys playing basketball and Starcraft, as well as reading science books and magazines. His plans for the future are to pursue a doctorate in chemical engineering and get a job in research and development. Senior Ben Clemens is a National Merit Finalist. He is a national winner in the yearly National Council of Teachers of English Contest. He is the treasurer of National Honor Society and is also the treasurer of Spanish Student Services. Ben plays basketball for a recreational league and runs track. He plans to attend the University of Virginia or the University of Tennessee. Ben was born in Washington, D.C. and is an overall great guy! Junior Ryan Lee has represented Tennessee in National Science Olympiad. He is on the Scholar Bowl State Champion Team and is a semi-finalist in Biology Olympiad. He is a grand prizewinner in the Duke University Talent Identification Program and has attended its summer genetics program. A cellist, Ryan is the first chair in the school orchestra and has played on the ALL-East Tennessee and Knoxville Youth Symphony Orchestras. He also participated in the Georgetown Model UN conference. Ryan's research interests are in molecular biology and biochemistry. His other interests include painting, music, reading and astronomy. Junior David Ryan expresses a strong interest in chemistry and mathematics. He has participated in Science Olympiad for three years and has competed in many other math and science competitions. His hobbies include prestidigitation, cinematography and graphic design. Junior Jingyuan Wu participates in Science Olympiad, Science Bowl and is the president of the Math Club. He is a USAMO Qualifier, a National Winner of the AAPT Physics Bowl, a semifinalist in the USA Physics Olympiad and Biology Olympiad, a winner in Astronomy at the National Science Olympiad and a winner of the State Brain Bee. In his free time he enjoys Kung Fu, table tennis, chess (both European and Chinese), and Starcraft.

Oak Ridge High School

Oak Ridge, Tennessee

Oak Ridge Institute for
Science & Education

Team Coach: Dr. Nita Ganguly teaches AP Environmental Science and Biology at Oak Ridge High School. She obtained her doctorate from the University of North Carolina in Chapel Hill, NC in genetics. She wanted to teach science so that she could convey the excitement of science to her students. She thinks that the Laws of Mendel, Newton's Laws of Gravity and the Mapping of the Human Genome are three very important discoveries in science. Her hobbies include reading, traveling and teaching Indian dance to young people.

**Omaha Central High
School**

Omaha, Nebraska

USDA Natural Resources
Conservation Service



Left to right: Jess Busse (Coach), Rachel Danford, Alex Bloom, Matthew Schrad, Ashlynn Lewis, Sopnil Bhattarai, Front: Sandra McCreight (Coach)

Team Coaches: Jess Busse currently teaches Honors and AP Chemistry. In March 2000, he received the Demanna Waites Technology Vision Award presented by Texas Instruments at their annual T³ (Teachers Teaching with Technology) International Conference in Dallas. He has earned degrees from the University of Nebraska - Omaha and Doane College. Mr. Busse thinks the use of compound lenses and the development of the Periodic Table are the two most important tools developed in the pursuit of science. He is married with two children and is active in his church. Sandra McCreight has taught for 13 years and was a medical technologist for 22 years. Yes, if your math skills are correct, she will be retiring in two years. Sandra attended Washington University (St. Louis), UN Medical Center, and Doane College (Masters). She received the Outstanding New Biology Teacher award from NABT in 1996. Scientific discoveries of note were Lynn Margulis' Endosymbiotic theory of evolution, Mendeleev's organizing the Periodic Table, and Rosalind Franklin showing Watson/Crick the structure of DNA.

Team Members: Sophomore Sopnil Bhattarai, also known as "Neil", was born in Nepal. He came to the United States in 2001 and moved to Omaha in June 2003. During his freshman year, in NYC, he was awarded with three plaques from the ROTC Department. He is the junior-varsity commander for his ROTC Drill Team and is actively involved in several clubs such as Chess, Volunteers, and ROTC Color Guards. Senior Alex Bloom takes part in numerous activities around his school and community. Alex participates in track and cross country (he is the team captain). He is also involved in Chemistry Field Day, Destination Imagination, Math Team, German National Honor Society, National Honor Society, and other activities. Next year, Alex plans on attending either Fort Lewis College or Denver University where he will major in either chemistry or business management. Senior Rachel Danford has no concrete plans for the future. She would like to learn a foreign language and study abroad while in college. She plays the piano, clarinet, and guitar (sort of). She has an older brother (who goes to MIT and is terribly jealous - his Science Bowl team never made it to Nationals), a twin brother, and a little sister. In her spare time she likes to go sailing with her brothers and make glass mosaics. Ashlynn Lewis is a junior whose extracurricular activities include basketball, track and field, Minority Scholars, and Spanish National Honor Society. Her volunteer work includes various programs dealing with the African-American/Latino-American communities. In the future, Ashlynn plans on attending an out-of-state university where she will pursue a biology-related degree. Senior Matt Schrad will be attending the University of Chicago next year where he will pursue a degree in mathematics. He has been involved in Science Bowl, Chemistry Field Day, Doane College Math Competition, UNL TEAMS test, and is a member of Math Club. Matt has competed in Destination Imagination and is a National Merit Finalist. In his spare time, he enjoys playing bass and rock climbing.



Left to right: Gabriel Cartagena, Jason Kelliher, Sofya Leonova, Matthew Dodd (Captain), Susan Carpenter (Coach)

Team Members: Gabriel Cartagena is a senior at Oviedo High School. Gabriel is a competing team member on the Florida Mu Alpha Theta Math Team and Academic Team. In addition to his community involvement, he is also active in National Honor Society and Spanish Honor Society. Next year, Gabriel will be attending either the University of Miami (FL) or the University of Florida where he will be enrolled in the pre-med program to fulfill his goal of becoming a doctor. Matthew Dodd is a senior at Oviedo High School. His high school activities include four years on the high school golf team, Mu Alpha Theta Math Competition Team, and Academic team. This year has been his most rewarding; he is president of his school's Mu Alpha Theta Math organization, and a member of the county all-star academic team. He plans to attend the Georgia Institute of Technology next year to study engineering. This is senior Jason Kelliher's third and final year competing in Regional Science Bowls for Oviedo High School. His favorite subjects are physics, calculus and environmental science. Some of his other club activities include Mu Alpha Theta, National Honor Society, and Politics Club. Next year, he will be attending Texas A&M University in hopes of becoming an aerospace engineer. Other aspirations include becoming a political science writer or a conservative talk radio host. Sofya V. Leonova is a senior, whose favorite subjects are biology and English. Sofya's extracurricular activities include piano performance, Mu Alpha Theta, and volunteer work for her teacher. In her free time, she enjoys gardening as a hobby. Sofya is a National Merit Finalist and has received a Superior rating for her piano performance in district recitals. Sofya plans to study biology and environmental science at either University of Chicago or Cornell University, but is still unsure about her career plans.

Oviedo High School

Oviedo, Florida

Lake Brantley High School

Team Coach: Coach Susan Carpenter is a graduate of the University of Florida with a major in microbiology and a minor in chemistry. Her love for science greatly influenced her to become a teacher. She has been teaching for 21 years, 8 of them at Oviedo High School. She currently teaches Chemistry Honors/Gifted and A.P. Environmental Science. She considers the three most important scientific discoveries to be Louis Pasteur's discovery of microbes, the discovery of penicillin and Watson and Crick's discovery of the double helix structure of DNA. In her spare time she enjoys gardening, hiking, birding and canoeing.

**OWCC Collegiate High
School**

Niceville, Florida

Eglin Air Force Base



Left to right, standing: Christoph Frei, Glenda Kuhlmeier, De Cook (Coach), Ben Corbin (Captain), Seated: Hannah Fay, Justin Townley

Team Coach: Coach De Cook is the founding mathematics faculty member of OWCC CHS. She enjoys teaching math enormously and is thrilled to be involved with the students at the Collegiate High. Her other interests include quilting, waterskiing and spending time with her husband, Tim, four grown children and one extraordinary grandson!

Team Members: Ben Corbin, a senior, served as captain of the CHS Academic and Science Bowl teams and is a member of the state champion Community College Brain Bowl team. Ben is active in his community as a member of Boy Scouts and Venture Crew as well as being a part of the Billy Bowlegs Crew this year. He should achieve the rank of Eagle Scout before he leaves for the University of Central Florida this fall. Hannah Fay, a junior at OWCC CHS, is a member of the Academic and Science Bowl teams for the high school as well as being on the state champion Community College Brain Bowl team. She enjoys a wide variety of literature and plans a future in earth science and geology. Christoph Frei, a senior, is a member of all academic teams at OWCC CHS and is captain of the Math Bowl and Mu Alpha Theta teams. He also competes with the OWCC Brain Bowl team. Christoph has a keen interest in mathematics, computer science, and economics. He plans to attend the University of West Florida this fall. This is senior Glenda Kuhlmeier's first trip to Science Bowl Nationals. She has participated for two years in Science Bowl and Academic team. After finishing her second engineering internship at Eglin AFB, Glenda plans to attend Florida State University in the fall.



Left to right: Shane Rosenkrantz, Gregory Malecha, Aveek Roy, Tanoy Sinha, Shaunak Das, Dinesh Shah (Coach), Mike Mallory (BWXT Pantex General Manager)

Team Members: Sophomore Shaunak Das is not only a member of his school's national-bound Science Bowl team, but also participates in Math/Computer Science Club and Junior Classical League. His favorite classes are art, statistics, and chemistry. He plays varsity tennis for his school, plays violin, and is an aspiring artist. In the past, Shaunak has done volunteer work at the library, and will teach in the Breakthrough/Summerbridge program this coming summer. He has done summer research on Alzheimer's disease in a university setting, and is extremely interested in the fields of neuroscience and pharmacology. Senior Gregory Malecha enjoys tennis and swimming. He is the president of the Dunbar Junior Statesmen of America chapter, as well as the Math Club. He is a member of the school Programming Team and is the state champion in the UIL Computer Science Written competition. He is a member of the school National Honor Society and is a National Merit Finalist. He plans to attend college at Rice University in Houston, Texas and major in computer science. After college he hopes to work with network and operating system technology. Senior Shane Rosenkrantz is an avid self-taught bass guitarist as well as a member of the Dunbar High School Tennis Team. He has been an active member of Dunbar's Math and Science clubs as well as the Junior Statesmen of America. He is the president of the Distinguished Gentlemen of Dunbar High School and a member of the National Honor Society. Shane plans on pursuing a degree in biomedical engineering and entering the nanotechnology industry. Outside of school, senior Aveek Roy is an avid paintballer and power lifter. He also enjoys playing the piano and is learning to play the guitar. In school, he is a member of the Math and Science clubs as well as the Junior Statesmen of America and the National Honor Society. Aveek plans on studying Biomedical Engineering and plans to pursue a career in the nanotechnology industry. Senior Tanoy Sinha is an independent musician. He currently plays two instruments – the tabla and the turntables – and is an aspiring production artist. Tanoy completed an Intel STS project in Fall 2003, and is currently attempting to publish his paper in a peer-reviewed journal. This is Tanoy's second year attending National Science Bowl®.

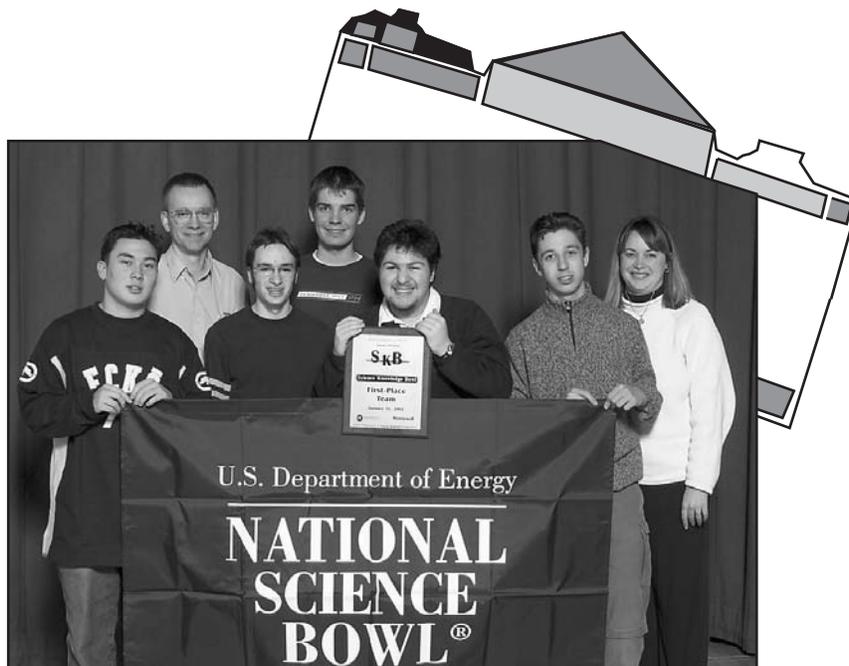
**P. L. Dunbar
High School**
Fort Worth, Texas
BWXT Pantex Plant

Team Coach: Dinesh Shah started out as an industrial chemist and worked briefly as a government chemist. Dinesh received a B.S. degree in chemistry and biology from Bombay University in 1968, and an M.S. degree in organic chemistry from the Department of Chemical Technology in Bombay in 1970. At Niagara University, Dinesh obtained a second Master's degree. Dinesh believes teaching is the most important job, because if there were no teachers there would be no future. Dinesh feels the three most important scientific discoveries are the computer chip, DNA, and Raman Spectra.

Pembroke Hill School

Kansas City, Missouri

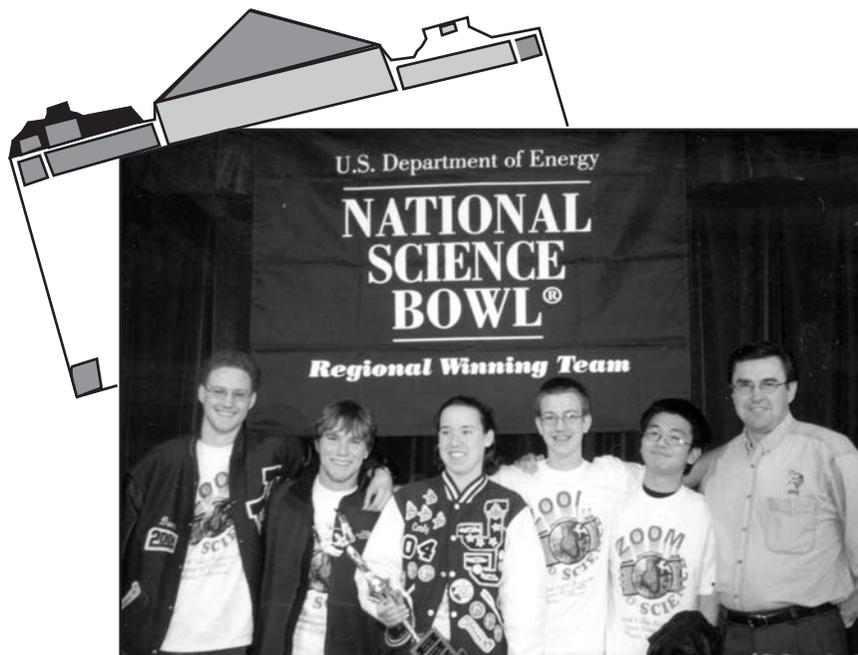
Kansas City Plant



Left to right: Michael Beecher, Jeff Sigler (Coach), Elliott Fried, Joe Reardon, Stephen Fried, Alex Sokolovsky, Meg Moore

Team Coach: Coach Jeff Sigler has a B.A. in history from Central Missouri State University, and B.A.s in chemistry and education from the University of Missouri at Kansas City. He has taught for 15 years, the last seven at Pembroke Hill. Mr. Sigler believes that the three most important scientific discoveries are the heliocentric model of the solar system, Einstein's theory of relativity, and the high-speed stabilizing effect of tail fins on the 1958 Plymouth Fury.

Team Members: Senior Michael Beecher's favorite subject is math. He is the editor-in-chief of his school newspaper and a member of the varsity lacrosse team. He participates in Scholar Bowl tournaments, and is a member of several other school clubs. He likes to do community service at his cathedral. He considers himself a fashionista, and might someday become a fashion designer—that is, if he can break through the cutthroat industry. Elliott Fried is a junior at the Pembroke Hill School where he likes biology, physics, and history. Aside from his love of science, he also enjoys military history. Elliott also partakes in Science Olympiad, Youth In Government, *The Garret*, which is a poetry collection sponsored by the school, and the Junior State of America. Elliott has won the independent study cup and a National Merit Letter of Commendation. In the future he hopes to enter medicine or engineering. Stephen Fried finds that when he is *not* deluged with work and study, the most enjoyable and meaningful time to him is that spent exploring and researching molecular biology. As a two-time National Science "Bowler," three-time National Science Olympian, and an AIME finalist, Stephen has embraced his inner-geek. He frequently spends his free time pondering pressing questions such as; *Did evolution anticipate the rise of technology? Is a virus the most advanced or the most primitive organism?* and *Why is our English term paper due five weeks before the end of the term?* He is excited to return to National Science Bowl®, and hopes to learn several new factoids and meet enthusiastic scientific minds. Joe Reardon is a junior. Alex Sokolovsky is an upstanding junior with a series of achievements under his belt. Receiving much recognition in his biological prowess, Alex has spent much time increasing his knowledge of the field. A participant in the 2002, and 2003 National Science Olympiad team, Alex is proud of his aptitude in robotics, electronics, and the science of fitness. Alex is bilingual, fluently conversing in both English and Russian. In his free time, he enjoys playing tennis and watching Japanese animation. A hard working student, he is an amateur computer engineer, designing both private computers, and systems for his high school. Although uncertain of his future plans, his curiosity in psychology will certainly lead him to focus on cognitive sciences at his future college.



Left to right: David Dyer, Jesse Dashe (Captain), Carly Towers, Andrew Zellman, Chi-Jen Lu, Daniel Iverson (Coach)

Team Members: Senior, Jesse Dashe, “The Wingman,” is always ready and willing to lend a hand – just be sure to catch him between volunteering, studying for his AP classes, running track, playing football, and his duties as ASB president. Watch out for the future doctor displaying his expertise in biology – you’ll have to look fast to see him before he buzzes in! The Wingman’s options are open for school next year, but wherever he goes, that school will be lucky to receive one of the best! Senior, David Dyer, “The Rookie,” although inexperienced in Science Bowl, has had plenty of practice on farm teams such as Science Olympiad. He got in practice for the major leagues through many AP science and math classes, although if you ask him, his favorite subject is history. When he’s not getting ready for his professional debut, you can find him practicing with a multitude of instruments in the band room. Senior, Chi-Jen Lu, “The Sage,” is also the martial arts expert of the group. If his superior math abilities aren’t intimidating enough, his proficiency at Aikido will awe others into submission. Although unsure where he plans to attend school next year, his success in the sciences and mathematics will earn him a warm welcome at Berkley, Irvine, or Cal Poly. Senior Carly Towers, “The Skipper,” proves that girls really can keep up with and lead the guys. Despite her participation in Science Bowl, she professes to be a political science and English enthusiast at heart, as evidenced by her participation in Mock Trial. Next year will find her marching and studying hard at the United States Naval Academy in Annapolis, Maryland. Andrew Zellman, “The Heir,” succeeds his much-lauded older brother as the new generation of Science Bowl Whiz Kids. The only junior on the team keeps the seniors young and fresh when he’s not too busy at band or church. His dislike of English is mitigated by his love for the sciences - hopefully, at Cal Poly San Luis Obispo, the latter will be more important than the former.

Peter Johansen High School

Modesto, California

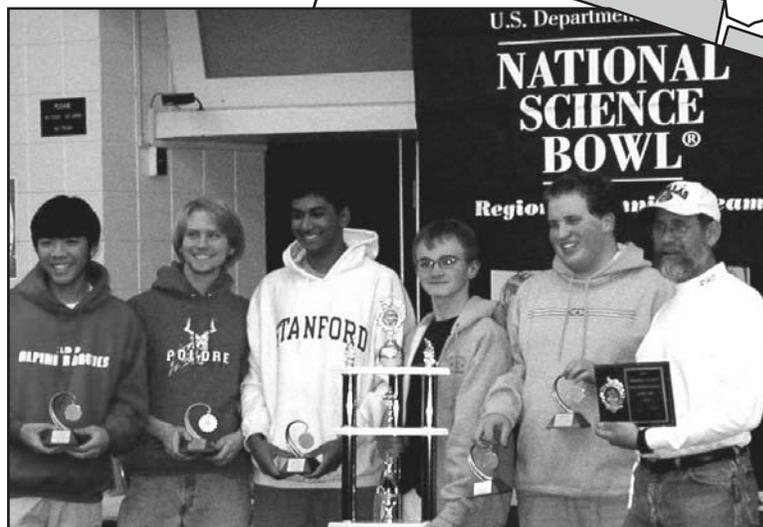
Modesto Irrigation District

Team Coach: Coach Daniel Iverson earned his B.S. degree in biology with minors in chemistry and psychology from Evangel University. He has been teaching the sciences for the past 24 years, including the last 12 at Peter Johansen High School. His interests include fishing, supporting his children in High School Rodeo, traveling, and just being outside. One of the most significant scientific understandings to capture his attention deals with the DNA molecule, including its origination and its propagation. Another favorite pastime is reading, of which his most recent book was *The Purpose Driven Life* by Rich Warren.

Poudre High School

Fort Collins, Colorado

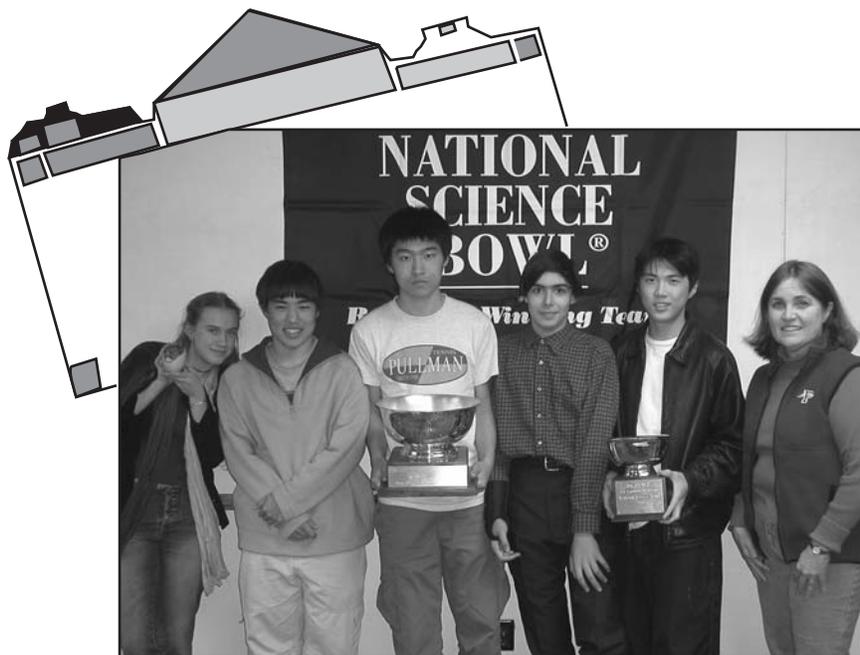
WAPA – Rocky Mountain
Region



Left to right: Tatsuya Sakurai, William McMahan, Ashwin Murthy (Captain), Mike Grinolds, David Hayes, Jack Lundt (Coach)

Team Coach: Jack Lundt teaches chemistry and graduated from Colorado State University with a degree in biology and chemistry. He became a teacher to help students enjoy, appreciate, and understand the practical applications of science and math. Both his parents and grandparents were teachers and he married a teacher, so teaching seemed his destiny. A veteran of national competitions, he's taken students to National Science Bowl, National Ocean Science Bowl®, and National Science Olympiad. Basically, he lives for nerds! He enjoys hunting and fishing so his spare time is spent in the Colorado Rockies with his llamas. When the snow flies, his snowmobiles take over and the llamas get to rest. Einstein's $E=mc^2$, the double helix of DNA, and the computer chip are scientific discoveries he considers the most important.

Team Members: Mike Grinolds, a senior, after suffering a tragic and debilitating early loss at last year's nationals, has spent nine months isolated in an abysmal cave, crying away his shame and exercising his buzzer finger. He recently emerged into the scorching light of the world with the fastest buzzer finger in the west. At last, he returns to nationals. He hopes to offset his startling knowledge deficit with controlled doses of caffeine, smashed PB&J's, and by consistently guessing "y". Mike is an International Baccalaureate senior and will study physics at Caltech. David Hayes, a senior and scholar, has reached the apex of human evolution. They certainly broke the mold with this one! He spends his free time wooing intellectuals and non-intellectuals alike with his vast knowledge of the paleolithic features of the Quaternary period. When he's not nurturing his affection for food or the ukelele, he is gallivanting with his neolithic nerd friends. David is a senior in the International Baccalaureate program and will study engineering at Colorado School of Mines next fall. Will McMahan, a senior, is enjoying his first year of Science Bowl competition. Will's hobbies include quiet contemplation, reading *Cattalus*, and listening to cello recitals. He enjoys reading botany texts and spends his spare time postulating theories as to how the Vespa impacts the environment. Will is a senior in the International Baccalaureate program and will attend Dartmouth College to study cell biology and genetics next fall. Ashwin Murthy, a senior, is Poudre's Science Bowl Captain. He is a member of the National Ocean Sciences Bowl team. He is a senior in the International Baccalaureate program and will attend Stanford to pursue a medical degree. Tatsuya Sakurai, a senior, spends too much time at his computer. He likes writing without cohesive unity, and lives for vanilla ice cream and dry white toast. He constantly ponders the question "what is love?" and enjoys calculating probabilities of successfully navigating an asteroid field. Tatsuya is a senior in the International Baccalaureate program and will attend CU-Boulder next fall to study mathematics.



Left to right: Angelena Weddell, Brian Yin, Andy Hou, Ingmar Saberi, Amos Chen, Barbara Harding (Coach)

Team Members: Team captain Amos Chen is a junior who is extremely busy with both academic and outside activities. Amos plays tennis, participates on the Math Team, and plays violin in the orchestra. Andy Hou is a senior who plans to attend the University of Washington, where he will major in computer science. He is also a member of Math Team and plays tennis. This is his second trip to the national competition. Ingmar Saberi is a freshman at Pullman High School. A recent graduate of the of School of Hard Knocks, Ingmar is now the proud host to a large assortment of medical hardware, tastefully arranged slightly above his left ankle. This is Ingmar's first visit to Washington, D.C, and he is looking forward to the bagels. Angelena Weddell, a junior, plans to attend University of British Columbia after high school. Angie is passionate about politics, accordions (though she can't play them), cricket (as much as an American can be), and dance (everything from Celtic to swing). Angie is also a mayor in the Junior State. Brian Yin is a junior who plans to shamelessly bankrupt his parents by attending a top university. He plans to major in at least two of the following: business, psychology, mathematics, finance, and engineering. He keeps himself busy mentally by participating in Math Team and Knowledge Bowl, as well as playing the piano. He is president of Key Club and enjoys playing tennis for his school.

Pullman High School

Pullman, Washington

Department of Energy –
Pacific Northwest Site
Office

Team Coach: Barbara Clark Harding received a B.S. in Chemistry from Allegheny College. She has worked as a chemist, and also as a teacher at levels ranging from middle school to university. She spent over ten years as the lecture-demonstrator for the Department of Chemistry at Washington State University, doing the fun @magic@ that kept the large lecture classes awake. Since 1996, she has taught Chemistry and AP Chemistry at Pullman High School, where she also coaches the Knowledge Bowl team. Barbara and her husband enjoy the outdoors, particularly hiking and skiing. Their house is in a constant state of remodeling now that their two children are grown.

Red River High School

**Grand Forks, North
Dakota**

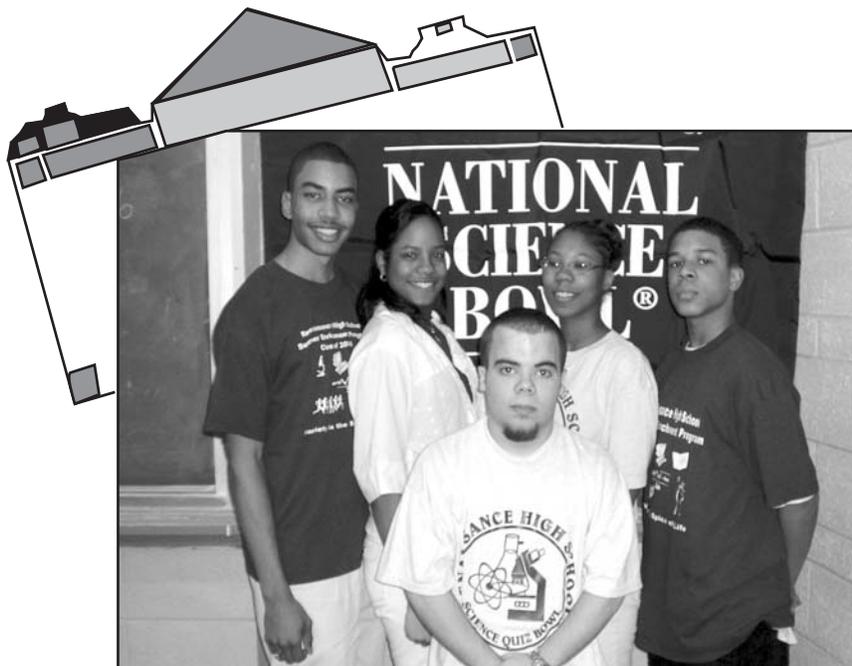
WAPA – Bismarck



Left to right, Front Row: Sheela Damle, Amirah Ahmed, Back Row: David Nowatzki (Coach), Greg Brockman, Devin Levang, James Foster

Team Coach: David Nowatzki teaches physics and chemistry at Red River High School in Grand Forks. He attended the University of North Dakota, graduated with a B.S. Ed. in biology, and has been teaching at the secondary level for six years. Dave became a science teacher to help students gain an appreciation for all areas of science. Dave and his wife Ellen recently became the loving parents to Ella Josephine, a beautiful baby girl. The three scientific discoveries he considers the most important are the structure of the atom, the double helix shape of DNA, and caffeine – for without it, many of us would get little done. Dave wishes the other teams good luck, and he hopes they have a great weekend.

Team Members: Amirah Ahmed is a sophomore who enjoys science at Red River. She plays high school tennis, taking third at the state tournament in the doubles division last year. She also competes in tennis at the national level. In the summer, she volunteers at the local hospital and continues to play tennis. Amirah plans to attend college with a possible major in medicine or law. She doesn't know what her future career will be, but she is currently focusing on enriching her education. Greg Brockman is a freshman and his favorite subjects are math and science. He is currently enrolled in AP calculus and plans to take math courses at the University of North Dakota next year. He participates in band, Math Tracks, and theatre. Greg also writes stories for the Teen Page of the Grand Forks Herald newspaper. Sheela Damle is a senior who was the North Dakota High School Activities Association's Distinguished Student last year. She is also a six-time varsity letter-winner in tennis. Sheela is the North Dakota Junior Classical League 2nd Vice-President and the Grand Forks Chapter President. While acting as the vice-president of the National Honor Society, she is also the historian for Red River's Key Club. Sheela plays the violin and has been the principal 2nd violin for three years. She also participates in Math Tracks and Knowledge Masters. Sheela plans to attend a university and major in biomedical engineering. James Foster is a senior whose favorite subjects are physics, computer engineering, and programming. He plays soccer for Red River during the school year and during the summer. James has been accepted to the University of North Dakota and plans to major in chemical or electrical engineering. Outside of school, he enjoys building computers, working on his 1968 Beetle with a 130 hp engine, and playing video games. Devin Levang is a sophomore and his favorite subject is science. He plays in band, sings in choir, and also performs in many plays and musicals. He doesn't know where he wants to go to college, but wishes to pursue a medical career.



Left to right: Arthur Edge, Temperance Carter, Luke Rosier, Danyel Currie, Jonathan Hartsfield

Team Members: Senior Daniel Bradley allows his academic achievements to speak for him. He is a member of the National Honor Society and the Renaissance Engineering, Math, & Technology Club. He plans attend Stanford University and major in biomedical engineering. Daniel enjoys helping people and aspires to become a surgeon. He also enjoys reading, tutoring at his church, and listening to R & B music. Senior Danyel Currie a National Merit Finalist, and devout Christian, is the Youth Director at her church and a community volunteer. She has a love for creative writing, chemistry, and mathematics. Danyel hopes to attend Brown University and plans to become an international best-selling author of fiction novels. Currently, she is a member of Academic Games, Math Club, National Honor Society, and Students Taking Action Together in Christ (STATIC). Senior, Arthur Edge, III, is the captain of numerous teams: varsity tennis, Academic Games, Economics Bowl, and Science Bowl. He is motivated by helping others and plans to double major in chemical and nuclear engineering at the Massachusetts Institute of Technology. In his spare time, Arthur enjoys collecting coins, learning and speaking Spanish, reading Shakespeare, and ballroom dancing. He is driven to succeed and is morally grounded through his Christian beliefs. Jonathan Hartsfield, a sophomore and the youngest addition to the Science Bowl team, is a community volunteer through the Detroit Urban League of which he is a member. He takes pleasure in playing chess and is a very competitive player. Jonathan also plays football and was a member of the undefeated junior varsity team for the 2002-2003 season. After high school, Jonathan hopes to attend Florida A&M University and major in business management with plans to own his own business. Jonathan also occupies himself with ping pong and reading. His favorite literary work is the Autobiography of Malcolm X. A high school senior and the eighth of ten children, Senior Luke Rosier is a hard working and self-motivated individual. Due to his love for math and science, he plans to major in environmental biology at the University of Michigan. As an environmental biologist, Luke has the desire to research endangered species. He enjoys playing baseball, soccer, and hockey. He is also a member of a Revolutionary Time reenactment group called Midnight Riders Fife and Drum Corps.

Renaissance High School

Detroit, Michigan

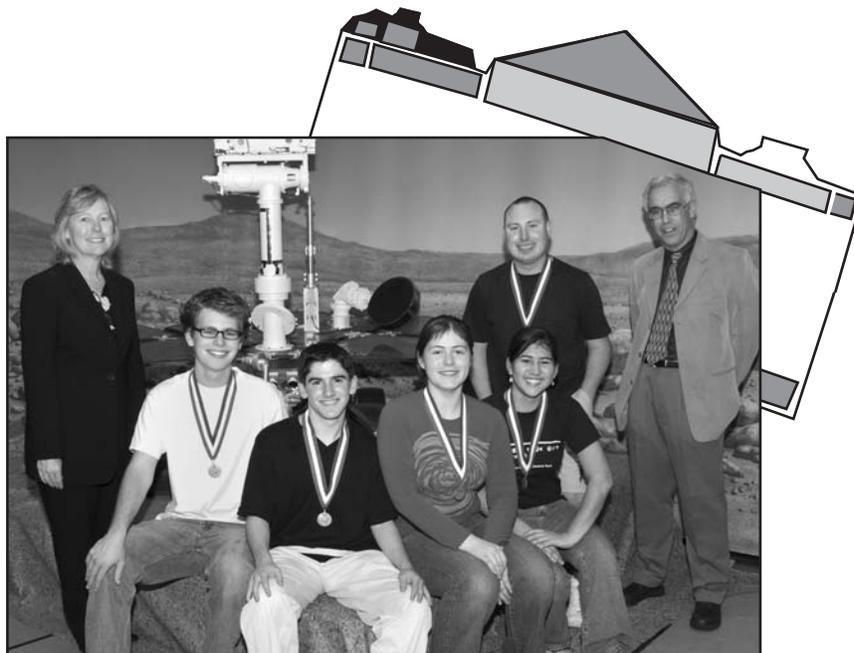
NOBCCChE Midwest

Team Coach: Coach Cynthia Bridges has been teaching Integrated Natural Science (INS), Advanced Chemistry, and AP Chemistry at Renaissance High School (National Blue Ribbon School) for 14 years. She is a graduate of both Clark Atlanta University, where she obtained a B.S. in Chemistry, and the University of Massachusetts, where she obtained her M.Ed. Her decision to teach stemmed from her desire to see more minorities pursue a chemistry major. In addition to teaching, her publication, "The Analysis of Synthetic Cycloalkylated Nucleotides Using Reverse Phase HPLC," appeared in the 1988 edition of the Journal of Chromatography. Moreover, as a Christian mother of two children her hobbies include bowling, aerobics, skiing, and arts and crafts.

Santa Monica High School

Santa Monica, California

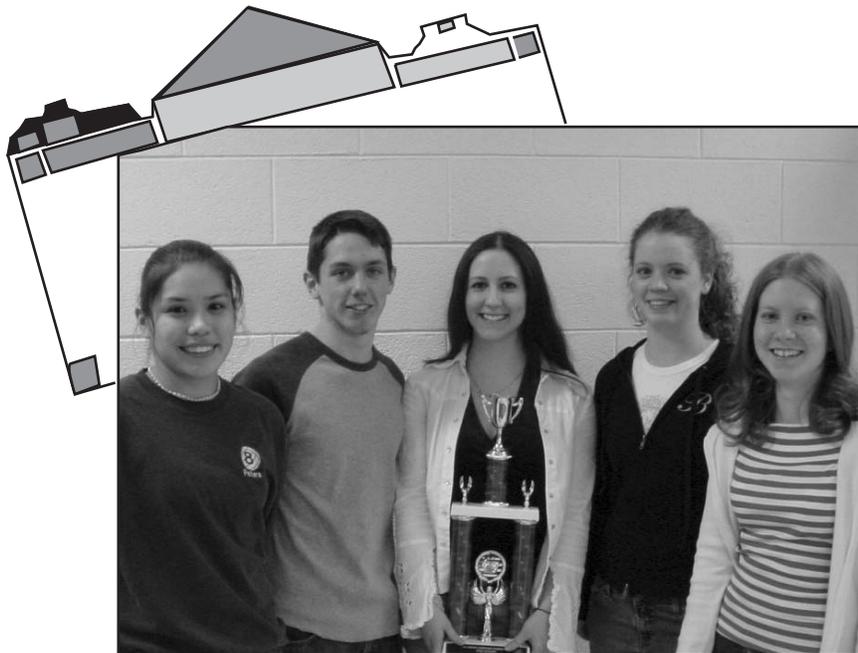
Jet Propulsion Laboratory



Left to right: Kimberly Lievense (Manager of JPL Public Services Office), Rem Koning, Matthew Gilbert-Hamerling, Donna Ivry, Emily Martinez, Ingo Gaida (Coach), Dr. Tom Prince (JPL Chief Scientist)

Team Coach: Coach Ingo Gaida has the privilege this year of taking both the Science and Ocean Sciences Bowl teams from Santa Monica High School to nationals this year. He earned his M.A.s in biology and education from UCLA, and is optimistic about the eventual return of his alma mater to prominence in basketball and football. He lists TiVo as the greatest scientific breakthrough to date, but quantum mechanics and Einstein's theories of relativity are a close second and third. As you will learn from reading the biographies below, he has his hands full keeping this bunch in line, but he does find the time to do a little traveling, hiking, and fishing from time to time.

Team Members: Rem Koning, a senior, lives not so quietly in Santa Monica and spends much of his time reading Richard Feynman and repairing or augmenting household appliances in his garage. Matthew Gilbert-Hamerling is a senior. Emily Martinez, a senior, has been a member of the Santa Monica Science Bowl Team for two years. She has also participated in the National Ocean Sciences Bowl and the Biology Olympiad. Emily enjoys travel, soccer, jazz, Faulkner, picnicking, and leisurely bike rides along the beach. She can also order meals, write haiku, and ask for dates in Japanese. Donna Ivry, a senior, enjoys ski weekends in Utah. However, when the slopes are unavailable, she spends her time cuddled by a fire, reading a good book or getting beat up at a karate class (green belt). Most of all Donna loves spending time with friends and family. She will be attending Harvard next fall so stop on by to say hello.



Left to right: Lisa Peters, Ryan Gleason, Jaclyn Goetz, Becky Rambo, Mary-Ellen Hemming, Coaches (not pictured) are Lori King and John Howell

Team Members: Ryan Gleason, a sophomore, is a member of the Sault Tribe of Chippewa Indians. His favorite subjects are math, biology, and chemistry. Ryan participates in Symphony Band, Jazz Band, and drama. He also runs track and cross-country. Ryan's future plans involve majoring in music and mathematics at CMU. He hopes to have a career as a professional musician. Ryan's hobbies include playing guitar and composing music. Jaclyn Goetz, a senior, is a member of the Sault Ste. Marie Tribe of Chippewa Indians. She enjoys singing the National Anthem for Sault Area Hockey Team, horseback riding and animals. She plans to attend college and pursue a career in physical therapy. She is a member of NHS and is a Junior Rotarian. Mary-Ellen Hemming is a junior. Her favorite subjects are chemistry, physics and French III. She earned a Michigan Math League award her freshmen year. She is a member of Sault High's Pom Poms Squad. She is also a member of the Sault Ste. Marie tribe of Chippewa Indians. Mary-Ellen's future plans involve attending college to major in pediatric medicine. Lisa Peters, a junior, plays on the varsity volleyball team. Lisa has received many academic awards including "The Principals Award" and several Michigan Educational Assessment Program awards. She has spent her last two summers at the Upward Bound Regional Mathematics and Science Program at Northern Michigan University. Lisa plans to major in art and ecology at NMU and plans to help her father run his future wildlife rehab. Rebecca Rambo, a senior, enjoys math and chemistry. Her athletic endeavors include varsity swimming, volleyball, and track. She has been secretary and vice president of Student Council. Rebecca spends much of her time volunteering with various organizations and groups. She plans to attend a small liberal arts college and major in psychology with hopes to become a child psychologist.

Sault Area High School

Sault Ste. Marie, Michigan

New West Technologies, LLC

Team Coaches: Lori King is a member of the Sault Ste. Marie Tribe of Chippewa Indians. She earned her B.S. in secondary mathematics education from the University of Wisconsin-River Falls, and Masters in educational administration from Northern Michigan University. She has been a teacher for fourteen years. Lori has brought teams to the Intertribal Science Bowl for the past 6 years. Nick Smith currently is in his junior year, at Lake Superior State University. This is Mr. Smith's second year as the Science Coach. He is currently involved in ongoing research into Algotoxins and operates a Gas Chromatograph/Mass Spectrometer to that end. In his off time, Mr. Smith enjoys reading novels and practicing the bass and acoustic guitars. John Howell has coached the Science Bowl teams for the past three years. He earned a B.A. in history at Lake Superior State University. John is currently working towards a masters degree in special education. He believes the three most important scientific discoveries are vaccinations, internal combustion engine and antibiotics.

Shaker High School

Latham, New York

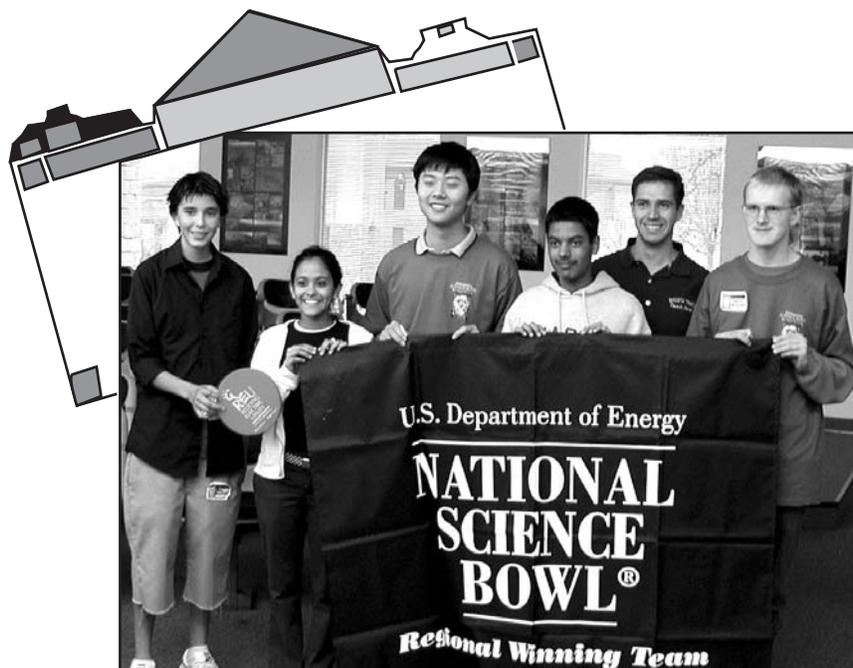
Knolls Atomic and GE
R&D Center



Left to right, Front row: Dana Amiraian, Rachel Han, Back row: Keith Bogert, (Coach) Gabriel Dunn, Nitin Kabra, Luke Messac, Kathy Hoffman (Coach)

Team Coach: Coach **Stephen F. Swinton** received a Masters and Specialist Degree in administration from the University of Albany, NY. He has been in education for 32 years and will be retiring at the end of this school year. His principal hobby is woodworking.

Dana Amiraian, a senior, is a four-year varsity soccer athlete, having been named to the All-District team for three consecutive years and to an All-New York State team this past season. She also was a member of the championship varsity softball team. She volunteers her time at local nursing homes, and currently serves as an officer of the French Club. Dana works as a financial services employee at a local credit union. She will attend Cornell University next fall, majoring in human biology, health, and society, to pursue her dream of becoming a doctor. Senior **Gabe Dunn** is an avid athlete, competing in all three varsity seasons. He rowed this past fall, was captain of the hockey team and will play tennis this spring. Before practice, three days a week, Gabe attends Model UN meetings and French Club meetings, where he serves as vice-president. On weekends, he volunteers his time at Habitat for Humanity and is a summertime volunteer coordinator. He will be attending Cornell University in the fall, studying biological engineering so that he can pursue a career in medicine. This is his first trip to the National Science Bowl® and he hopes to have a great time! **Rachel Han**, a senior, is the editor-in-chief of the school newspaper. She enjoys playing piano, tennis, and soccer. Rachel loves to say “Objection, Your Honor” in the Mock Trial Club and is also a member of Key Club. Every Sunday, she volunteers at a local hospital’s emergency room. As of March 2004, Rachel has no idea which college she will be attending in the fall. **Luke Messac** is a senior at Shaker High School. He has acted in Shaker Theatre productions, swam on the varsity swim team, and served as co-chair of the student government. Next year, Luke plans to study molecular biology at Harvard. He would like to thank Mr. Swinton, Mrs. Hoffman, and Mr. Bogert for their encouragement during Science Bowl.



Left to right: Sky Scholfield, Manasa Tripuraneni, Sheng Ji, Nevin Britto, Leo Perez (Coach), Sean Beecroft

Team Members: Sean Beecroft, a junior, has spent 12 years overseas in Germany and Japan. His favorite subjects are math and science, and he is the secretary of the Math Club. He participates in his school's bands, the Madrigal Dinner, musicals, the Science Olympiad, his church's youth choir, and "Academic Challenge," a competition like the Science Bowl. He plans to attend Berkeley, Stanford, or Caltech, majoring in computer engineering. Nevin Britto, a sophomore, is the founder and president of the Math Club, president of the Science Club, a member of the Chess Club, and is on the varsity tennis team. His favorite subjects include biology, chemistry, and math. Nevin has participated in the Science Bowl and Science Olympiad. He plans to attend U.C. Berkeley, Harvard, Yale, or Johns Hopkins and major in bioengineering. As captain of the Science Bowl team, Nevin helped Shasta High School win the regional Science Bowl for the first time. Sheng Ji, a junior, received second place in a Chinese Art Competition and came to U.S. three years ago. His favorite subjects are calculus, biology, chemistry, and physics. He is the vice president for both the Math and Science clubs. He participated in Science Bowl and Science Olympiad for the past two years. He is also member of Anime Club and Art Club, and participated in Shasta County Art Show and the Shasta High School Art Show. Sheng plans to attend UC Berkeley or Stanford. He wants to be a doctor or enter a job in medical field. Sky Scholfield, a sophomore, has been very involved in many activities including solar energy camps, leadership conferences and community service events. His favorite class is wood shop. He is currently on the track team and participates in cross-country. He wants to go to Monterey Bay to major in biology with a minor in psychology, and pursue a career as a marine biologist. Manasa Tripuraneni, a sophomore, hopes to study aeronautical engineering at MIT or Harvard. She is the president of the Aeronautics Club and Science Club. Manasa is on the varsity tennis team. She volunteers for an organization in which she helps children whose parents are getting a divorce. She plays violin in the Redding Youth Symphony, disciplines herself with karate, and is the top snowboarder on the Mt. Shasta Snowboarding Team.

Shasta High School

Redding, California

Redding Electric Utility

Team Coach: Leopoldo Perez earned his B.S. in molecular biology with a minor in chemistry at Humboldt State University in Arcata, California. His graduate work included research and experimentation with Baculovirus and the *C. elegans* spe-26 gene. He has been at Shasta High School for five years. Prior to coming to Shasta, he taught Chemistry and AP Chemistry at Rocklin High School. He advises the Science Club and coaches cross country, basketball and track. Coach Perez feels the three most important scientific discoveries are electricity, the structure of the atom and penicillin.

Sidwell Friends School

Washington, D.C.

U.S. Department of
Energy – Headquarters



Left to right: Graham Fetterman, James Choi, Sam Powell, George Lang (Coach), Weston Minami

Team Coach: **George Lang** received a B.A. degree in physics from Oberlin College and has done graduate work at various times at the University of Maryland in College Park, MD. He has been teaching physics and mathematics for 36 years at Sidwell Friends School in Washington, D.C. Over the years, many of his students have gone on to do distinguished work in science, some even getting Ph.D.'s in physics (someone had to do it). Probably his most famous student is Bill Nye. George is married and, at the present time has five dogs. He enjoys taking (some) of the dogs up to his farm in nearby Pennsylvania.

Team Members: **James Choi** (aka “cap’n”) is a senior at Sidwell Friends who intends to major in physics and/or chemistry. His extracurricular activities include: the cookies at math meets, pizza on the JETS (engineering) team, cheap coffee in Stock Market Club, or candy in Spiritual Life Committee. Otherwise, when not indulging in web comics, or animation projects, he dares to call himself an optimistic Postmodernist Romantic: Choi struggles day-to-day with identity, and finds himself unable to reconcile his rational, irrational, and antirational impulses; ultimately, all end up coexisting, like in a bad sitcom. **Weston Minami**, junior, is passionate about laissez-faire economics and the stock market since a career in physics will compensate him infinitely less. He enjoys competing in JETS, Math Meets, It’s Academic, and various other academic contests in which physical strength is not a prerequisite. Outside of competitions, he conducts zebra fish research and attends many science conferences to meet with fellow nerds. He considers himself a lone libertarian in a school of liberals. His favorite words of wisdom come from Milton Friedman; “We have a system that increasingly taxes work and subsidizes non-work.” **Sam Powell** is a junior who loves math and science. Physics is his favorite subject. He wants to be an engineer. This is his first year participating in the Science Bowl competition. He also does JETS, BotBall, and the FIRST Robotics competition. In his spare time Sam sails, programs in Java and C++, and sleeps. He lives within 200 yards of the 4H club in Chevy Chase—that should count for something.



Left to right: Kelle Martin (Coach), Alex Winston, Dan Bechtold, Sigrid Barklund, Brian Dickson, Patrick Herring, Rinda Olson (Coach)

Team Members: Sigrid Barklund is a senior. She is an Idaho Top Scholar, a National Merit Finalist, and a Miss Teen of America Merit Finalist. She is active in her community and does volunteer work regularly. She is the vice president of the German Club and co-captain of the INEEL Scholastic Tournament team. She has performed in several plays produced by local theater groups. Sigrid has played the piano for 13 years and plans to double-major in piano performance and biology at the College of St. Catherine this fall. She hopes to go to medical school and become a neonatologist. Also a senior, Daniel Bechtold's has taken Advanced Placement tests in biology and U.S. history. Over the past two years, Daniel has been very active in the AP program and as a result, will be a sophomore when he attends Northwest Nazarene University this fall. Daniel participates in Chemistry Olympiads, snowboarding competitions, baseball and basketball. Daniel is also very active in his church and has participated in several mission trips, both in foreign and domestic fields. Brian Dickson is a senior and is a member of the NHS and Key Club and was named an Idaho Top Scholar. He enjoys participating in INEEL Scholastic Tournament, mock trial and debate. Brian is an Eagle Scout and enjoys camping with his friends in the troop. He has been awarded a Presidential Scholarship at Carroll College in Helena, Montana, where he plans to study pre-law next fall. His ambition is to become a lawyer. Senior Patrick Herring's began taking college physics classes in 9th grade and has been involved in several research projects at Idaho State University, including an investigation of the production of nuclear isomeric states and bulk effects of positrons in superconductors. He was a semifinalist in the Chemistry Olympiad and the Seimens-Westinghouse Math and Science competition, and received a Silver Award in the USAMTS. He plans to attend Caltech in the fall and eventually major in Quantum Physics. Senior Alex Winston takes AP courses in German and calculus. Alex has lettered in cross-country twice and played junior varsity football. He is an Eagle Scout who is on the National Honor Roll and part of the Who's Who Among National High School students. In the fall, he will be attending Purdue University and major in biomedical engineering. After that he plans to go to either medical or law school.

Skyline High School

Idaho Falls, ID

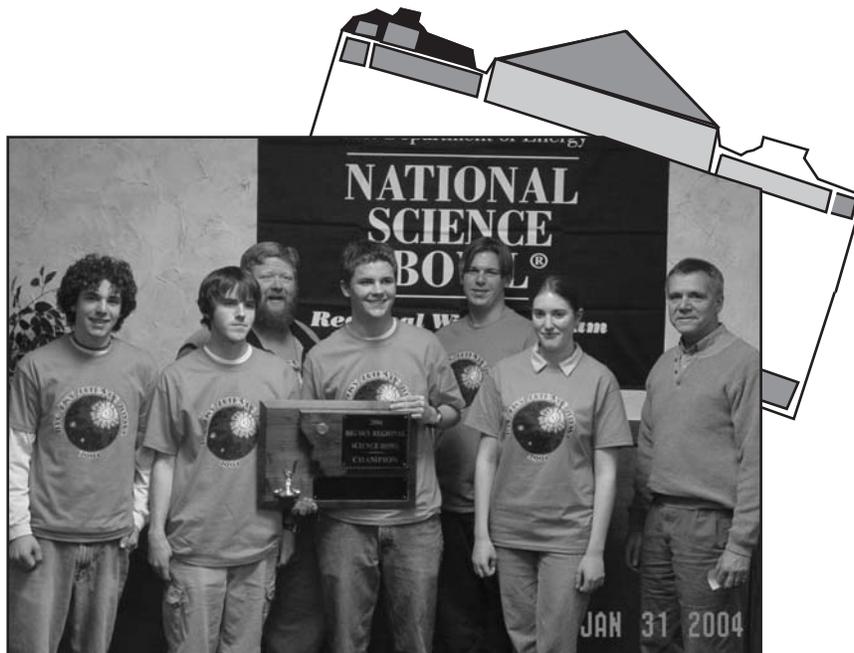
Idaho National
Engineering &
Environmental Laboratory

Team Coaches: Coach Rinda Olson is a graduate of the University of Idaho with a B.S. in Secondary Education and teaching majors in mathematics and history. She has taught math at both the middle school and high school level. Rinda has been active in statewide mathematics reform and is the past president of the Idaho Council of Teachers of Mathematics. She most enjoys mathematics when her students make connections and can finally see the "big picture" and beauty of mathematics. She says that our lives would be incredibly different without the discoveries of penicillin and the internal combustion engine. Coach Kelle Martin received her B.A. in English and French from the University of Idaho. During her twenty plus years of teaching, she has completed course work in the areas of reading and gifted and talented education. Kelle has taught English at all secondary levels, gifted and talented education at the junior high level and French at the high school level. The three scientific discoveries she considers to be the most important include electricity, penicillin and chloroform for anesthesia.

Skyview High School

Billings, Montana

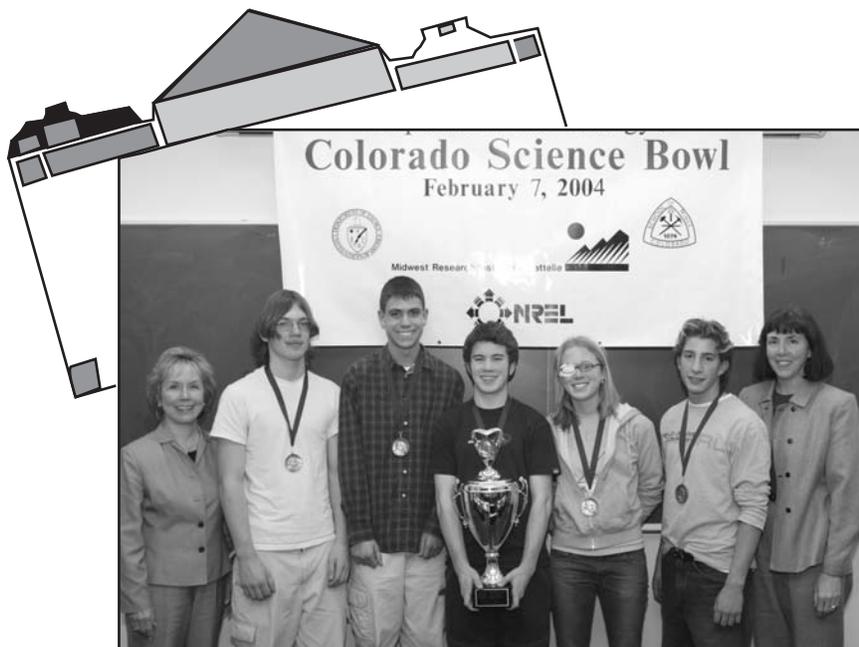
WAPA – Billings



Left to right: Aaron Anderson, Erwin Dunar, Rich McFate (Coach), Jason Kephart, Ryan Geiger, Christy Ketchum, Robert Harris (WAPA Upper Great Plains Regional Manager)

Team Coach: Coach Rich McFate earned B.S. degrees in physics and Mathematics at Montana State University. He is currently pursuing a master's degree in science education. He started the Skyview Academic teams after coaching his first Science Bowl team. He has coached the Skyview Academic teams for the last 12 years and has taken the team to 14 national tournaments. He teaches physics, honors physics and physics II. Last year his students were first place in the Region 15 Physics Bowl competition. He desires to learn more about the scientific evidence for creation.

Team Members: Junior Aaron Anderson is involved in cross-country, debate, Science Bowl, track, band and choir. He has no definite plans for the future, but plans to attend a four-year college with a focus on engineering. He is excited to join his teammates Jason and Erwin on the National Panasonic Academic Challenge team from Skyview this June. Senior Erwin Dunar enjoys school but has a bad case of Senioritis. His favorite subjects are math, science, and foreign languages. He is an Eagle Scout, National Merit Finalist, and a member of his region's winning Science Bowl team. He is president of the Senior Class and his school's Intercultural Exchange Club. He likes to play the violin, read, write, and play X-Box, and is going to major in computer engineering. Junior Ryan Geiger is involved in fall and spring tennis and pep band. He hopes to attend a four-year college and major in some type of engineering. He is currently favoring mechanical or chemical due to his interest in physics and chemistry. He has not decided on a university. Aside from his interests in science, he has a strong interest in music. Jason Kephart is a senior who has been named a National Merit Finalist. He has received awards for the Physics Bowl test, National Spanish Examination, and AMC 12. Jason participates in Lincoln-Douglas Debate, plays trumpet in jazz and symphonic bands, runs JV cross country, and is Captain of the Academic Team. He plans to major in engineering and applied sciences at the California Institute of Technology. Senior Christina Ketchum's favorite subjects are physics, German and ceramics. She is involved in National Honors Society, Art Club, League Bowling, and German Club. During the summers she volunteers at the local hospital. She works part time as a cook at McKenzie River Pizza. This fall she will attend either Linfield or Lewis and Clark College in Oregon.



Left to right: Joan Jansch (Coach), Chris Krueger, Andy Scacco, Anthony Eskridge, Jessa Forthofer, Nathan Artz, Mary Bartholomew (Coach)

Team Members: Junior Nathan Artz is returning to National Science Bowl® as the team captain. This spring he is playing both lacrosse and club soccer. He has postulated myriad formulae regarding the unequal correlation between the 0 and its conjugate using the modern theory of calculus. An accomplished pianist, Nathan enjoys a variety of music. He enjoys studying astronomy, eating with his friends at Chipotle and playing Frisbee. Anthony Eskridge, a junior, is at the National Science Bowl® competition for the second time. He plays lacrosse for Smoky Hill and Ultimate Frisbee for recreation. A versatile musician, he plays guitar in Pep Band and alto sax in Jazz Band. This year, he co-founded the Grammar Club in a successful endeavor to effect a change in the writing quality of the school newspaper. Senior Jessa Forthofer is a devoted and willing student who believes that hard work always pays off. She is president of the Students Against Destructive Decisions chapter at her high school and a varsity track athlete. She takes greatest pleasure, however, in tutoring a 6th grade science class. Her career goal is to become a chemistry teacher. Jessa hopes to pursue a degree in chemistry education at the University of California at San Diego. Chris Krueger, junior, is attending the National Science Bowl® for a second time. He enjoys playing lacrosse and Ultimate Frisbee. He speaks for his team in saying they are willing to challenge any others to a game of Frisbee. In his spare time, Chris has worked on the Riemann hypothesis, of which he has discovered a miraculous proof. An avid viewer of “The Simpsons”, he often spouts notable quotations from the popular program. He enjoys school, most notably his Differential Equations class. Sophomore Andy Scacco enjoys math, computer science, and biology. Participating and winning math competitions are his forte, including qualifying for the USA Math Olympiad in both the 8th and 9th grade. Math and Chess club activities are rounded out by his participation on the tennis team. His lengthy “swing span” makes it difficult for opponents. The youngest, yet tallest member of the Smoky Hill team, he hopes to contribute to the Frisbee games at Science Bowl. Although he still has several years to decide, in the future Andy plans to major in math and engineering, possibly at MIT.

Smoky Hill High School

Aurora, Colorado

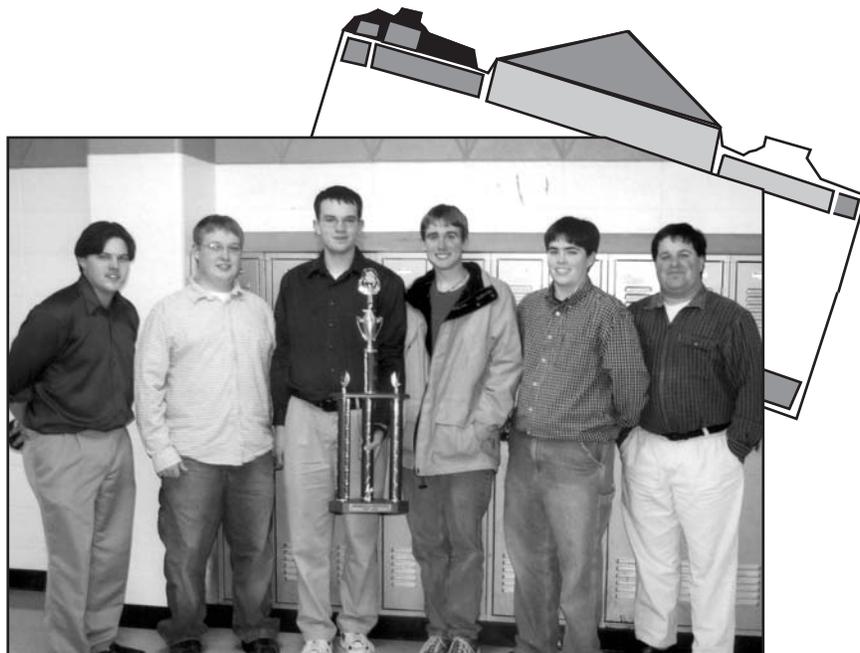
National Renewable
Energy Laboratory –
Golden

Team Coaches: Joan Jansch is celebrating 25 years of science teaching by retiring in June. She and husband, Bill, are building a mountain home near Conifer, CO. She believes the discovery of DNA, the completion of the Human Genome Assembly and the development of embryonic stem cell technology are defining accomplishments in biology. Joan attended the University of Wisconsin, earned a B.S. from Iowa State University and an M.A. from the University of Colorado. 2004 marks the sixth time that Joan and Mary have brought teams to National Science Bowl competitions. Co-coach Mary Bartholomew has taught honors and AP/IB chemistry for 21 years, since completing a M.S. degree in chemistry at the University of Denver. She is grateful for the technological developments in computers and neurology that have enabled her son to hear with a cochlear implant. She is an advocate for individuals with a hearing loss and editor of Colorado Voices, a publication of the Colorado Chapter of the Alexander Graham Bell Association for the Deaf and Hard of Hearing. She loves to read, garden and watch her youngest son play football and soccer.

Southside High School

Fort Smith, Arkansas

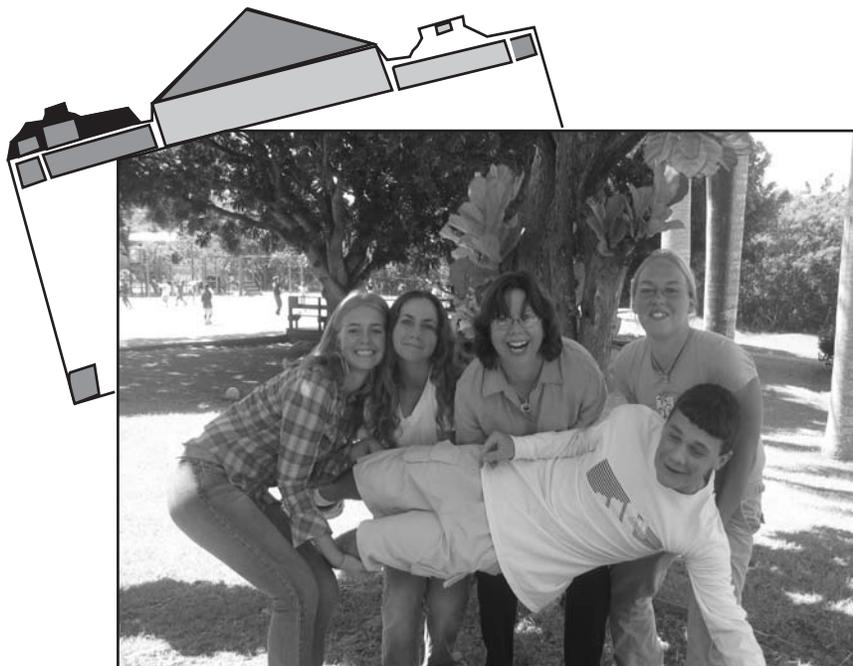
Russellville School District
& Arkansas Tech
University



Left to right: Josh Loewen, Blake Matthews, Nic Schluterman (Captain), Kendall Rice, Blake Schluterman, Josh Adams (Coach)

Team Coach: Josh Adams earned a B.S. in physics in 1996, and an M.A.T in secondary education in 1999, both from the University of Arkansas, Fayetteville. He is currently teaching math. He became a teacher because of his interest in astronomy and his positive experiences during his graduate work teaching underclassmen. He has been at Southside for four years, and is in his 5th year of teaching. Besides Science Bowl, he also sponsors Quiz Bowl. The three most important scientific discoveries are the telescope, the transistor, and Kevlar. Coach Adams enjoys racquetball, reading, and amateur astronomy.

Team Members: Josh Loewen, a senior, is planning on attending a University somewhere near country music and good food. As an undergraduate he plans on majoring in pre-med. Josh is a member of the varsity golf team that won the 5A State Golf Tournament this past fall. His hobbies include golf, playing basketball and being an avid fan of Toby Keith. Blake Matthews is a junior who is a member of National Honor Society, and Mu Alpha Theta. In his spare time he enjoys hanging out with friends and perfecting his Fauvist coloring technique. His favorite subjects are math and science. He is planning to attend M.I.T. or Duke. Blake wishes to go on to be a theoretical physicist. Kendall Rice, a senior, is a future English major who somehow found himself on the Science Bowl team. He may not always know the answer to a question, but you can bet he will tell you if that question dangled any prepositions. When he's not eschewing his calculus homework in favor of more literary pursuits, he can be caught jamming on his French horn, struggling to remember some author or composer on Southside's Quiz Bowl squad, and using passive voice in this sentence. He plans to attend either Yale University or the University of Arkansas to become a great writer. Blake Schluterman is a senior with many accomplishments and an active life. Math and science are his best subjects, especially chemistry. He is the treasurer of Mu Alpha Theta, and a member of National Honor Society and Fellowship of Christian Athletes, Spanish Honor Society, and the varsity football team. He is actively involved in the community through Habitat for Humanity and his church youth group. He plans to attend the University of Arkansas – Fayetteville where he will major in chemical engineering. Captain Nic Schluterman is a junior whose hobbies include opposing gravity, Neofauvistic coloring, and causing considerable havoc. Nic enjoys sunsets, candlelight, and Barry White. His plans for the future are to attend M.I.T. Rumor has it he plays a musical instrument, but no evidence of this has ever been found.



Left to right: Hilary Komlanc, Danielle Smith, Kate Baker (Coach), Jamie Shufflebarger (Captain), Peter Roussev (reclining)

Team Members: Freshman Simon Hatfield spends a lot of time with his friends surfing, kayaking and fishing. Simon is star rank in the Boy Scouts and plays soccer in AYSO. Simon's favorite class, aside from "robotics" (we play with Legos) would have to be Western Civilizations. Simon hopes to one day be a doctor or scientist. His favorite movies are Holy Grail and Super Troopers. Hilary Komlanc is a junior at St. Croix Country Day School. She is returning for her second year on the Country Day Science Bowl team. As well as being on the Science Bowl Team Hilary plays volleyball, plays the oboe, is class treasurer, and spends the majority of her time in theatrical productions.

In fact Hilary does an excellent impression of Marilyn Monroe during competitions. As for the future, Hilary hopes to live a long happy life. Sophomore Peter Roussev's favorite subjects are math, chemistry, and physics. He plays the alto saxophone and used to play the piano. He competed successfully in the State Math Counts competition in Pennsylvania. In 2003, Peter won the regional and state National History Day competition, and went on to Nationals. Peter loves playing soccer and is a starting varsity striker. He also enjoys playing tennis, basketball and plans on going to an Ivy League college and pursuing a degree in law and business. Peter has lived on three continents and has traveled extensively. Senior Jamie Shufflebarger's hobbies, aside from procrastinating, include waking up at the crack of dawn to swim in freezing water. She is also an accomplished klutz and can perform several "graceful" maneuvers. Jamie is in the Science Bowl because she needs her weekly dose of bloodthirsty competition. Senior Danielle Smith has spent most of her days on the island of St. Croix. Danielle enjoys taking long walks on the beach, identifying marine invertebrates such as *Strongylocentrotus drobachiensis*. Her friends are unaware that this species is not found in the tropics, and thus continue to believe she is brilliant. Danielle writes for the high school paper and participates in Quiz Bowl. Danielle's future plans are to run an animal shelter, while writing paperbacks under her yet-to-be-determined nom de plume.

St. Croix Country Day School

Kingshill, Virgin Islands

Virgin Islands Department of Education

Team Coach: Kate Baker teaches Earth science and biology, statistics and Discrete Math in yearly rotations. She received a B.A. in mathematics from Castleton College and an M.S. in Mathematics from RPI. While teaching in the Virgin Islands is not a "teach at the beach," she likes that there is so much scientific research taking place there. She thinks the three most important scientific discoveries are: the double helix, Lucy, and deep-sea vents. In addition to being an avid scuba diver, Kate enjoys sewing and reading. Her favorite Newtonian law is the third. This is Country Day's second year participating in the National Science Bowl®.

**Stevens High School
Rapid City, South Dakota**

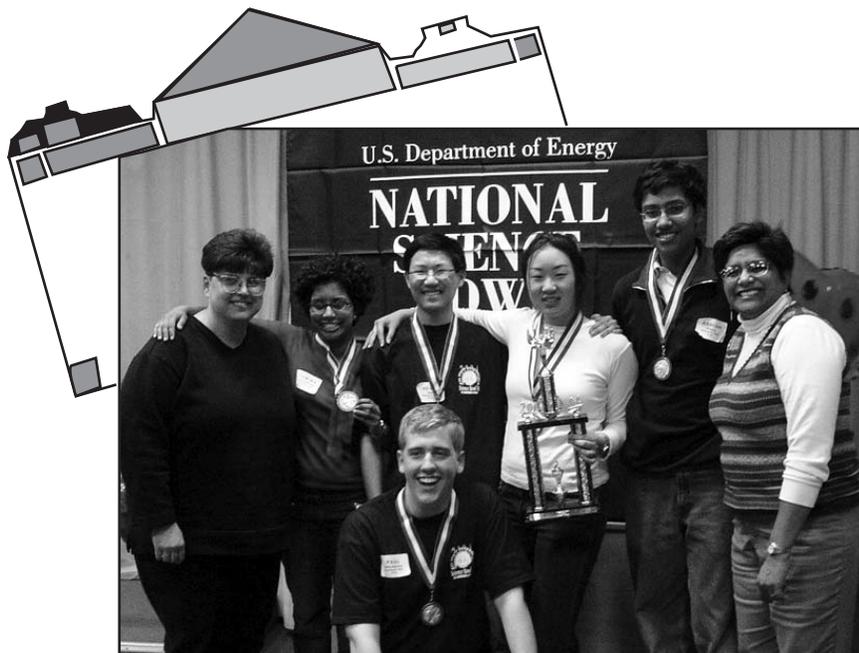
WAPA-Huron



Left to right, Front row: Luke Pendo, Alex Simpson, Andrew Bockover, Back row: Prairie Hayman, Melissa Todd, Barb Gulk (Coach)

Team Coach: Barbara Gulk has coached the Stevens High Science Bowl and Knowledge Bowl teams for the past three years. This will be the second year she has coached a team to the National Science Bowl®. She attended the National College of Business and has been employed in the business and accounting field, with a special interest in income tax. The scientific discoveries that she feels are most important are penicillin, electricity and computers. She is married with two children, and enjoys traveling, golf, bowling, fishing for walleye, and spending time with her family.

Team Members: Andrew Bockover is a senior at Stevens High School. He has taken first place in the biology division at the South Dakota Tech Science Competition, and is a National Science Bowl veteran. His hobbies include watching C-SPAN and staring at the wall. Although he is still unsure of his future endeavors Andrew is looking forward to attending college. Prairie Rose Hayman is having a blast as a sophomore in high school, and being the only non-senior on the Science Bowl team. She's involved in the all-crazed debate team, where nobody is safe from sanity. She spends her free time reading. Luke Pendo is a senior at Stevens High School. He's interested in pursuing a career in physics. He participates in numerous science activities, such as Science Fair and Science Bowl. He has participated in Science Bowl for three years and is a National Science Bowl veteran. Alex Simpson is a senior at Stevens High School. He is well noted for his excellent marksmanship with the bow. His extracurricular activities include singing, hunting, running across Rohan, and destroying rings of power. Alex also enjoys spending time engaged in volunteer activities. Melissa Todd is a senior and has been on the Science Bowl Team for one year. She has exhibited art for four years at the West River Art Show and is interested in art and drama. She attended South Dakota Girls State last year. Her hobbies include reading, writing poetry, and any type of art. She plans to attend Chadron State College, where she will major in radiography and art.



Left to Right: Stacy Baehr (Coach), Tamima Mohammed, Kevin Ng, Jessica Koh, Ashish Gupta, Tahira Mohammed (Coach) Front: Paul MacAlpine

Team Members: Ashish Gupta, a senior, is very pleased to be a part of Stockdale's Science Bowl team. Besides Science Bowl, he is also part of the Math Club and Health Occupational Students of America (HOSA). His college plans include returning to India to become a medical doctor specializing in pulmonary diseases. Ashish would like to express thanks to his coaches for all the time they have invested in helping him succeed. Senior Jessica Koh is a National Merit Finalist. She loves botany and math, is a black belt in Tae Kwan Do, captain of Academic Decathlon, a registered oral surgery assistant, and an accomplished violinist. Jessica is involved in several community service projects for the homeless and the elderly. She has been accepted to a number of universities, including Stanford and UCLA, where she plans to major in chemistry or biology. Her goal is to improve the lives of elderly people. Paul MacAlpine, a senior, is the head student technician in Stockdale High School's Theatre Department. He has been involved with drama for three years, and he plans to attend the University of California at Irvine, where he will major in computer science. Paul hopes to become a video game programmer. As a native of the Caribbean, senior Tamima Mohammed enjoys swimming and scuba diving. She plans to major in political science at college next fall. Tamima spends her time volunteering through Interact Club, playing her cello, working on political campaigns, talking to her parakeet Chip, and fighting for legislation to protect the coral reefs of the Caribbean. Kevin Ng, a senior, is highly interested in robotics and will pursue a B.S. degree in mechanical engineering at Cal Poly, San Luis Obispo. His favorite subjects are math, chemistry and physics. Kevin is secretary of the Chess Club and vice president of the Science Club. He enjoys playing chess, reading, solving puzzles, camping and playing ping-pong. Kevin is also an Eagle Scout.

Stockdale High School

Bakersfield, California

California State University
– Bakersfield

Team Coach: Coach Stacy Baehr earned her B.S. in geology at the California State University in Bakersfield. She has been a teacher for eight years, all at Stockdale High School. Prior to becoming a teacher, she worked as an environmental consultant managing soil and groundwater remediation projects. Stacy feels the three most important scientific discoveries are nuclear fission, radiometric dating, and determining the structure of DNA. Coach Baehr enjoys traveling, reading and spending as much time as possible at the beach. Coach Tahira Mohammed earned her B.S. degree in chemistry and biochemistry from the University of the West Indies. Her postgraduate work focused on the teaching of science and misconceptions in chemistry. She began her teaching career 21 years ago in her native Trinidad, where she worked for 13 years. In California, she has worked for eight years at Stockdale High School. Tahira believes that the most important discovery in science is mapping the human genome. She spends her free time as a devoted soccer mom who loves to cook.

**Taylor Allderdice High
School**

Pittsburgh, Pennsylvania

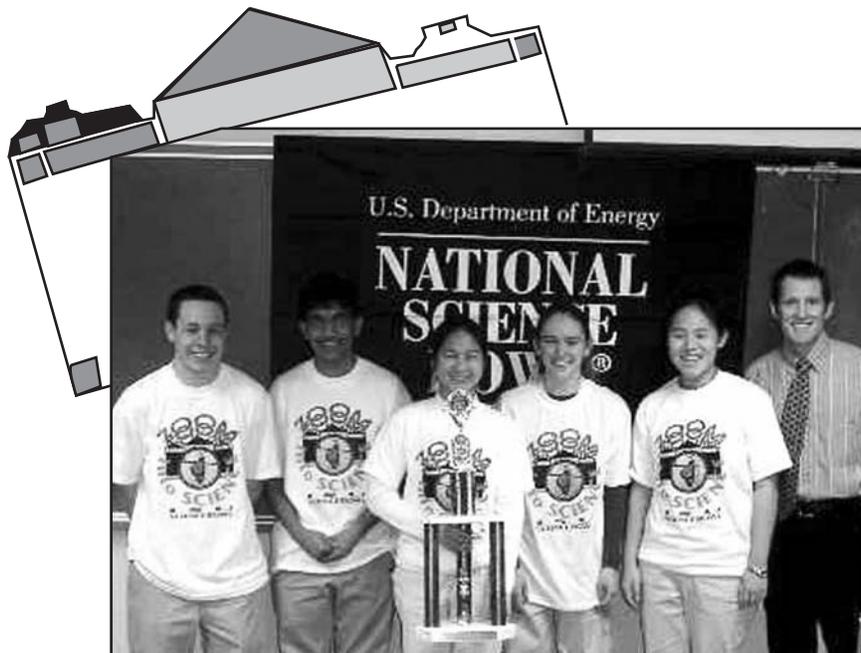
**National Energy
Technology Laboratory –
Pittsburgh**



Left to right, Front row: Fuzhou Hu, Vlad Grigorescu (Captain), Gina Barone (Coach), Angela Lindenfelser (Asst. Coach), Back row: David Lloyd, Axel Schmidt, Bud Coulson

Team Coach: Mrs. Gina Barone has been teaching chemistry at Taylor Allderdice for 18 years and coaching the Science Bowl Team for five years. As Taylor's head coach of the Boys Track Team, she has brought her team to two consecutive city championship titles in the last four years. And what inspiration she brings to her Science Bowl team! They have traveled to the finals in Washington, DC the past three years.

Team Members: Bud Coulson, a junior and first-year Science Bowl member, has participated in math and science activities throughout high school. His favorite subject is math, and he is an active member of the Math Team, Math League, and Science Olympiad. He currently serves as president of a local philosophy club and keeps physically fit as a member of Taylor's track and cross-country teams. After college graduation, Bud hopes to have a career in physics. Vlad Grigorescu, a senior and a three-year member of the Science Bowl team, is interested in studying math and science and would like to pursue a career in computer engineering. He is captain of the FIRST Robotics Team and a member of the Programming Team. He also participates in JETS-TEAMS+, Science Olympiad, Math League, and the Traveling Math team. Fuzhou Hu is a first-year member of the Science Bowl Team. A true thinker, this junior leads Taylor's Philosophy Club. He also participates in the Math Team, Science Olympiad, and JETS. Fuzhou wishes to attend college and pursue a career in chemical engineering. Junior David Lloyd, is a first-year member of the Science Bowl team. He participates in many extracurricular activities including FIRST Robotics, Math team, Science Olympiad, JETS, and the National Honor Society. In his spare time, he plays on the volleyball team and enjoys playing music on his keyboards. David plans to study engineering in college. Axel Schmidt, a junior and first-year member of the Science Bowl team, is interested in studying biochemistry. He is active in the Math Team, Science Olympiad, and Chemistry Olympiad. Axel is a varsity letterman on the city championship soccer and tennis teams and also enjoys playing "ultimate" Frisbee. He hopes to attend MIT or Cal Tech.



Left to right, Back Row: Mr. Aaron Warner (Coach), Shakeel Dalal, Nic Hamilton, Front Row: Ann Chi, Tiffany Ko, Chastity Williams

Team Members: Senior Ann Chi is the captain of JETS, Academic Superbowl, Science Bowl, and is president of the Latin and Math clubs. Ann is also a member of the Science Olympiad, Decathlon, Knowledge Masters, Spell Bowl, and golf teams. Outside of school, Ann performs computational chemistry research, for which she was selected as an Intel STS finalist, and serves as the concert mistress of the Crossroads of America Youth Orchestra. Her hobbies include creative writing and reading science fiction. Ann plans to attend Harvard College, eventually earning her doctorate in aerospace engineering. Shakeel Dalal, a junior, is a two-year member of Science Bowl, JETS, Science Olympiad, Math Club, and National Honor Society. His interests lie in theoretical physics, chemistry, and Star Trek. He intends to major in physical chemistry at the University of Chicago or MIT. Junior Nicolas Hamilton prefers to be called Nic. He is currently enrolled in AP English, U.S. history, physics, and biology. He has two academic letters and has competed in Knowledge Masters, JETS, Science Olympiad, and math. Nic is currently the captain of the boys swim team and is a member of the National Honor Society. Nic plans to attend Rose Hulman Institute of Technology and major in electrical engineering. Tiffany Ko, a sophomore, likes to play soccer and listen to music. She was among the 40 finalists for DCYSC 2000. This 2-year USAMO competitor also plays violin and piano. Tiffany enjoys participating in JETS, Science Olympiad, the City Youth Orchestra, and Latin Club. Senior Chastity Williams interests lie in physics and chemistry. She has participated in Science Olympiad, JETS, Spell Bowl, and a variety of math competitions. She has acted as treasurer and vice president for Latin Club, and is a member of National Honor Society. After graduating, she plans to attend Rose Hulman Institute of Technology and major in mechanical engineering.

Terre Haute South Vigo High School

Terre Haute, Indiana

Indiana State University

Team Coach: Coach Aaron Warner received a B.A. in biology and education and a Master's in secondary education from Indiana State University. He has been in education for 10 years and has never second-guessed his choice. His only regret is that he has but one lifetime to get everything done. He is an avid outdoorsman and self-proclaimed tree hugger. His wife Karla and two sons Journey and William do their best to put up with his numerous hobbies and frequent procrastinations. Aaron is also the Science Olympiad coach, a union representative, and among other things he is proud to be a Hoosier.

**Thomas Jefferson
High School for
Science & Technology**

Alexandria, Virginia

**Thomas Jefferson
National Laboratory**



Left to right: Kay Aull, Michael Zhang, Paul Yang, Sharon Baker (Coach), Back Row: Samuel Lederer, Lisa Marrone

Team Coach: Coach Sharon Baker teaches mathematics and computer science at Thomas Jefferson High School for Science & Technology. She graduated from the University of Virginia in Charlottesville with a B.A. in mathematics and an M.Ed. in mathematics education. An enthusiastic mathematics professor at UVA inspired Ms. Baker to pursue mathematics as a major, and ultimately to consider teaching. She was a semifinalist this year in the NASA selection of Educator Astronauts. She sponsors the Fellowship of Christian Athletes and Science Bowl clubs at Thomas Jefferson. Her hobbies include skiing, travel, and music.

Team Members: Kay Aull, a senior, is a defending two-time National Science Bowl® champion, National Ocean Bowl finalist, International Quiz-Bowl award-winner, USACO/AIME competitor, captain of four academic teams, and member of more. She overuses commas and attends global science conferences. Last summer, she won silver at the International Biology Olympiad, conducted SARS research abroad, took the MCAT for kicks, founded USABO training pages, and went on CNN in her pajamas. A rabid scantron junkie and future bio-engineer, she is also a nationally recognized peer tutor, student government councils leader, philosophy magazine staff member, and state forensics champion. Samuel Lederer, a junior, enjoys reading Eugene O'Neill plays, listening to classical music, playing the violin and sleeping. At school, he greatly enjoys his math and physics courses, which he supplements with self-study at home, most recently in the topics of fractal geometry, electromagnetism, and special relativity. A neophyte in both Science Bowl and Physics teams; he is also a 3-year member, co-captain and tournament director of the school's academic team, which has seen much success in recent years. Lisa Marrone, a sophomore, loves math and science. During her freshmen year, Lisa won first place in the Virginia State Intel Science and Engineering Fair for a project on the effect of acetylsalicylic acid on conditioning time in planarians. She also participated in the Virginia Junior Academy of Sciences. Lisa is a prominent member of her school's varsity Math Team. Last year she was an AIME qualifier and received a varsity letter. Lisa is also the president and founder of Biotechnology Club and the secretary of TWIST (Tomorrow's Women in Science and Technology). Paul Yang, a senior, regularly attends math and computer teams. He has strong interests in computer science and chemistry. Michael Zhang, a senior, participates in Math Team, Computer Team, and Physics Team. His favorite subjects are chemistry and physics. He participated in the Mathematical Olympiad Summer Program in the summer of 2002. His extracurricular activities include volunteering at the library and intramural basketball. His goal is to study chemistry and physics at MIT.



Left to right: Paul M. Miller (coach), Amy Dawson-Andoh, Kenny Taubenslag, Mark Soderholm, Natalie Jackson, Brian Jones, Steven D. Woodruff (WV Regional Coordinator)

Team Members: Amy Dawson-Andoh's favorite subjects are biology and history. She's a recipient of the West Virginia Golden Horseshoe Award, a member of Mu Alpha Theta, and secretary of the National Honor Society. She's a member of the Academic Bowl team, Science Bowl team, and Science Club. Amy also enjoys volunteering at the local hospital in the radiology department. She plans to attend Rice University in Houston, Texas, and major in political science. Her career plans are unclear as of now, but she is considering a career as a professor. Amy also enjoys video games and computers. Senior Natalie Jackson is secretary of the Academic Bowl Team and is a member of the Science Bowl team, Model United Nations, the Young Republicans, and the National Honor Society. Natalie also takes flute lessons, and has been first chair in numerous ensembles. Natalie has been honored in "Who's Who Among American High School students" and has been merited in many music competitions. She plans to major in biology and music next year, but is unsure of her college choice. Brian Jones is a senior and is the president of the National Honor Society and a member of the school's Young Republicans Club, Academic Bowl team, and Model United Nations Club. During the fall Brian also was the captain of the boy's varsity soccer team and kicker for the varsity football team. Outside of school, Brian is active in his church and is an Eagle Scout. Next year Brian hopes to study chemistry and/or literature in college. Mark Soderholm is a senior at University High School. He is the captain and a founding member of the Science Bowl team, and the president of Academic Bowl. He is also in the Science Club and participated in the TEAMS competition. He is in the National Honor Society, Mu Alpha Theta, and is a National Merit Finalist. He also volunteers at the library on his free Saturdays. Junior Kenny Taubenslag enjoys calculus and physics. He is a member of National Honors Society. He is the treasurer of Academic Bowl. He participates in the JETS TEAM+S competition. He plays the piano, is on the varsity tennis team, and skis. He is not sure about where he will attend college.

University High School

Morgantown,
West Virginia

National Energy
Technology Laboratory –
Morgantown

Team Coach: Coach Paul Miller attended the Universities of Wyoming and Michigan. He majored in physics (B.A., M.S.) and secondary education (B.S.). He grew up in Wyoming and decided to become a teacher after working at the National Youth Science Camp in West Virginia. He later directed the camp during the years 1997-2001. He has taught in Oregon, Maryland, and West Virginia. Mr. Miller considers fire, the transistor, and the germ theory of medicine the three most important scientific discoveries. He works in the plasma physics group at West Virginia University during the summer under a grant from the NSF.

Urbandale High School

Urbandale, Iowa

Ames Laboratory



Left to right: Jonathan Berrie, Tom Barton (Ames Lab Director), Kausteya Roy, David Nelms, Marc Hermon (Coach), Stephen Kallenbach

Team Coach: Coach Marc Hermon has been teaching for ten years. This is the first time he has had a team advance to the National Science Bowl. He is a 1992 graduate of the University of Iowa where he majored in biology and minored in chemistry, physics and religion. He then earned his Master's degree (1994) in science education K-12. He entered teaching because of his love for science and because of his never-ending quest to remain young. He has been happily married for 12 years to his wife Ginger and together they have two full time hobbies that are eight and ten years old. Marc believes that the three greatest scientific discoveries are Newton's Universal Law of Gravitation enabling us to land on the moon, Daniel Bernoulli's Law enabling the Wright brothers to fly, and Watson and Crick's discovery of the DNA double helix enabling us to map the human genome.

Team Members: Jonathan Berrie, a junior, takes advanced math, science, and English courses at Central Academy in Des Moines. His favorite subjects are math and science, and he plans to continue with these interests in college. His hobbies include playing soccer, acting in plays, and playing piano and bass guitar. He is also involved with JETS and various math competitions. This is his first year participating in Science Bowl. This is senior Stephen Kallenbach's second year participating in Science Bowl and the first year that he has qualified for the national competition. Stephen's favorite subjects in school, surprisingly, are not, math or science related, but rather history, government, and economics. He is a National Merit Finalist and will either be attending Iowa State University or the University of Chicago next year, with plans to major in economics or political science, or perhaps both. He also participates in Academic Decathlon, Mock Trial, tennis and various other activities. He hopes to one day become rich and not-so-famous and live on his own island. David Nelms, a junior, is interested in all areas of science and has a special interest in electronics. He participates in tennis, band, cross-country and JETS. David is a member of the Boy Scouts and is working on his Eagle project. He plans to major in some area of science or engineering, and does not yet know what career he is interested in. Junior Kausteya Roy's favorite subjects are mathematics, physics and biology. His main extra-curricular activities are attending math competitions and science Olympiads. He is a member of the Des Moines JETS Team. He plans to major in physics and math when he goes to college. Afterwards, he plans to get a doctorate, and pursue research.



Left to right: Alex Sheppard, Camille Beasley, Brent Dorr (Captain), Brian Wood (Coach), Victor Saxena, Erwann Domalain

Team Members: This is sophomore Camille Beasley's first time on a Quiz Bowl team. She has always liked science more than other subjects, and hopes to major in some field of the life sciences. Outside of school she enjoys swimming, dancing, playing Ultimate Frisbee, drawing, and playing piano. Besides being on a summer league and a year-round swim team, she is on the high school's swim team, which has been undefeated in the regular season and has won the conference and regional championships for six straight years. She enjoys traveling and is always open to new experiences. Sophomore Erwann B. Domalain is privileged with having a dual-nationality, American and French. He loves to travel, and being bilingual—French is very helpful while visiting Europe. He aspires to be trilingual with Spanish. His pastimes include reading, playing video games, practicing the clarinet, and sports. Soccer is a given, and watching the World Cup is far more important than the Super Bowl. He is currently in the IB Program so that he will have an option of continuing studies in France. Senior Brent Dorr is currently planning to attend college to study biochemistry and physics. He is a regular editorialist for the Enloe Newspaper, a member of Enloe's chapter of Mu Alpha Theta, the Science Olympiad team, and the Forensic Society. He maintains an ongoing passion for science and mathematics throughout. Besides a passion for analytical science, he maintains a strong love of both literature and mathematics in his free time. Sophomore Victor S. Saxena has a strong interest in science, and new technologies. He participates in many extracurricular activities. Some of these are Chess Club, Science Quiz Bowl, cross country running, and varsity tennis. This past summer he volunteered at several local hospitals and his local tennis center. He looks forward to bettering himself and indulging in various scientific pursuits. Senior Alex Sheppard is interested in all kinds of stuff. Most anything to do with math and science is cool, although if you've done anything with analysis, topology, or quantum (or anything else that's interesting) he'd like to hear about it. By the way, he can't get why the representation of the X operator (multiplication by x) in terms of an infinite matrix, with a basis consisting of normalized Legendre polynomials, won't turn out to be Hermitian (no, that's not a joke). Somebody tell him please?

W. G. Enloe High School

Raleigh, NC

North Carolina Central
University

Team Coach: Coach Brian Wood has 21 years of experience and still learning about the wonders in the world around us. After receiving a B.A. from Asbury College in Kentucky and an M.S. from North Carolina State University, he funds teaching is still a process of learning from students and colleagues. When he is not teaching he coaches soccer and helps around the house. IB, AP and NBC certifications have just made him "certifiable", but trips to Washington DC make for a nice break in the routine of teaching.

**Ward Melville High
School**

East Setauket, New York

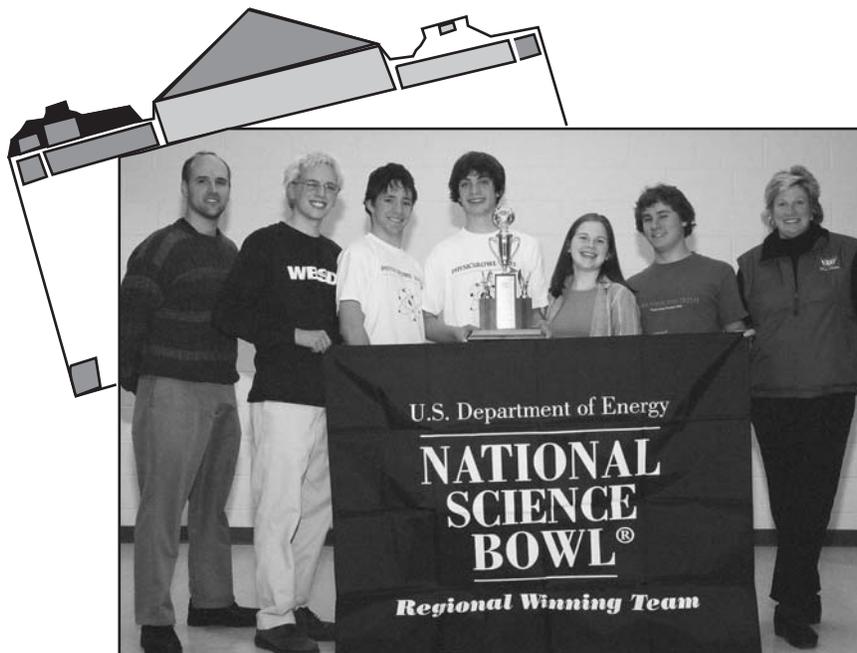
**Brookhaven National
Laboratory**



Left to right: Kenneth White (BNL), Peter Faletta (DOE), Eduard Reznik, Bob Spira (Coach), Peter Paul (BNL), YiYi Deng, Mitchell Fourman, Nik Ray-Mazumder, Neal Wadhwa

Team Coach: Coach Bob Spira is currently Science Chairperson and teaches AP Physics and physics. He holds a B.S. in physics with a math minor, a masters degree in education and an advanced graduate certificate in school district administration. He has worked as an engineer, University professor and an entrepreneur. It was while operating one of his Subway franchises that he realized that he enjoyed working with kids. He went back to school for education certification and has loved teaching ever since. He enjoys spending time with his wife, Karen, and his children, Amanda and Kyle. Together they camp, fish, bike ride, garden, and play all sports. He considers electricity, nuclear energy and vaccinations the three most important discoveries, although he thinks three is very limited.

Team Members: Senior YiYi Deng spends her time at fencing practice, or rehearsing with the New York Youth Symphony. She is a TEAM+S competition state champion, Rotary International Student, National Merit Finalist, National Chemistry Olympiad Semifinalist, Intel STS Semifinalist, NSF/Simons Fellowship recipient and has medalled at Science Olympiad competitions for the past six years at the regional, state and national levels. YiYi will attend Harvard University this fall to study physics and plans to follow her father's footsteps by becoming a physics professor. Mitchell Fourman, a senior, is a Siemens-Westinghouse Semi-Finalist, National Honor Society Member, AIME Qualifier, winner of the ASM International Most Outstanding Project in Materials Science award, and winner of the 2nd prize at the Long Island Science and Engineering Fair. He is varsity captain of Ward Melville's Academic Quiz Bowl team, which has qualified for nationals. He has also been a Science Olympiad member for six years. He plays the viola and violin, and was invited to the New York All-State convention for his viola and for his work in electronic compositions. He also is a brown belt in American Jiu-Jitsu, and serves as an assistant instructor. Nikhilesh Ray-Mazumder, a senior, is captain of the Ward Melville Science Bowl Team. He is an active member of Science Olympiad and Academic Team. He enjoys all areas of science and plans to study medicine and biomedical engineering. He is a National Merit Scholar Semi-finalist. Senior Ed Reznik is a rookie of Ward Melville's SciBo Team. Ed enjoys being the editor for his school newspaper and being the co-captain of the Frisbee Team. He also enjoys reading science fiction and listening to music. Ed is an Intel STS Finalist and a National Merit Semifinalist. Junior Neal Wadhwa has placed for three consecutive years in the Suffolk County Math Tournament and has finished first in the county in numerous other math contests. He is vice president of Math Team and is a regular member of Academic Team and Math Team. He has also taken several college math courses and plans to research mathematics and its applications.



Left to right: Guy Guglielmi (Coach), David Brown, W. Brett Christiansen, John Duffy Tilleman, Claire Rosenbaum, Eric Wallace, Marissa Roberts (Coach)

Team Members: David Brown, a senior at Whitefish Bay High School, is involved in a plethora of activities. Having been on the swim team since sophomore year, he joined several other teams including the Science Team, Computer Team, and SMART Team. David co-founded a citywide Technology Club. In his free time, he enjoys reading and making movies, radio transmitters, and other projects with his friends. Brett Christiansen is a senior at Whitefish Bay High School. He is a member of the Math Team and Science Team, and Computer Science Team. Brett also participates in varsity track (hurdler), and is a musical cast member. He is a National Merit Finalist. Brett is planning on attending UW-Madison to pursue a career in computers or mathematics. Claire Rosenbaum, a senior at Whitefish Bay High School, was elated to add the regional Science Bowl gold medal to her list of uber-dork activities. She has prepared for the grueling national competition by participating in numerous high school math and science meets, AP classes, and strengthening her buzzer finger. An active member of NHS, she also held the student elected leadership position of senior homecoming queen. A fan of engineering and sailing, Claire will continue her academic career in the fall at Stanford University. John “Duffy” Tilleman is a senior at Whitefish Bay High School. He is a member of the Science Team, Math Team, and Computer Programming Team. Duffy also participates in cross-country, track, orchestra, NHS, and French Club. He placed first in the individual regional competition of the AAPT Physics Bowl last year. Duffy plans on pursuing a career in science. Eric Wallace is a senior at Whitefish Bay High School who enjoys scientific endeavors of all sorts, namely in the area of physics. He will attend the University of Notre Dame next year to study physics. In addition to the science team, Eric loves playing golf and card games. But most importantly, he loves HALO.

**Whitefish Bay
High School**
Whitefish Bay, Wisconsin

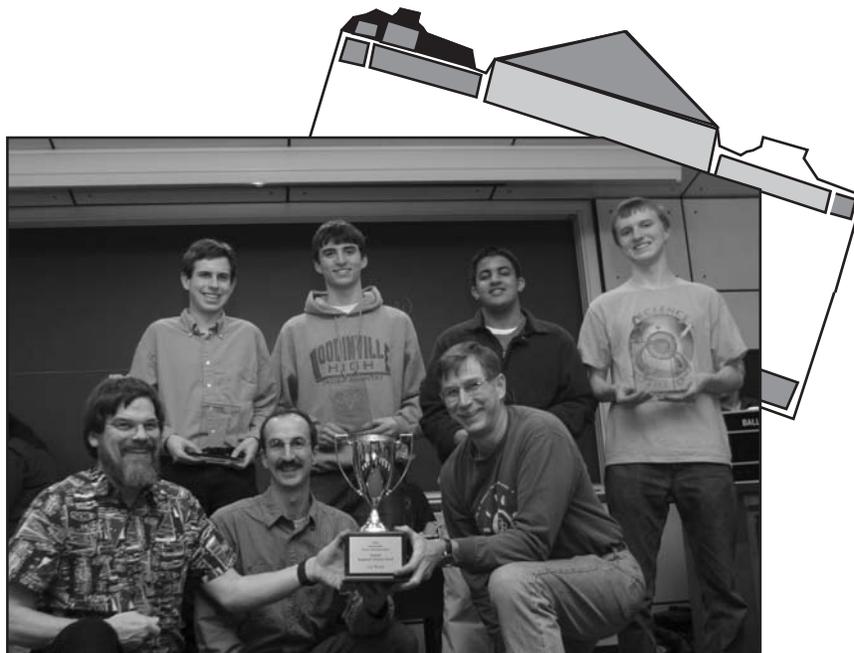
**Milwaukee School of
Engineering**

Team Coach: Guy A. Guglielmi teaches physics at Whitefish Bay High School. He currently holds a B.S. degree in physics and is currently working on a masters degree in physics education. Mr. Guglielmi also coaches JV hockey, writes curriculum, and advises several science teams. When he can get away from school, Mr. Guglielmi enjoys science fiction literature, playing guitar, hiking, playing hockey, and spending time with his wife Melissa and two-year-old son Andrew.

Woodinville High School

Redmond, Washington

Bonneville Power
Administration



Left to right, Front row: John Fraser (Coach), Randy Huybers, Bob Spencer (Coach), Back row: Isaac Nelson-King, Shawn Connolly, Nikhil Joshi, Kevin Dick

Team Coach: Coach Robert Spencer is a retired product development engineer/manager and survivor of three start-up ventures. Bob graduated from CalTech with a B.S. in chemical engineering. He spent his career developing alternative energy, semiconductor, medical and humanitarian products. Bob thinks the three key scientific discoveries of the 20th century were DNA, Quarks and MOS-FET transistors. Coach John Fraser is a principle Physicist at Philips Medical North America developing ultrasound transducers for better non-invasive diagnostic tools. John received a B.S. in physics from CalTech and a Ph.D. in physics from Stanford. His career has focused on the Ultrasound transducer, but his interest are far more wide ranging. John believes that the “old” science of physics is in revolution due to the development of competing unified theories, experimental work showing the inconsistencies in gravitational theories and the accelerating expansion of the universe. John intends to be on the winning side.

Team Members: Shawn Connolly is a senior who has competed in Science, Math and Knowledge Bowl teams. He is also a runner on the cross-country and track teams. Shawn speaks French and loves languages. He plans to attend either Cornell or the University of Washington next year and major in a scientific discipline. Kevin Dick is the senior Captain of WHS National Science Bowl® team. He hopes to delay getting a job for as long as possible while attending as much schooling as possible. He believes in the second law of thermodynamics, casually allowing entropy to create a chaotic art project in his room. Kevin’s goal for this year’s science bowl is to answer a biology question, correctly if possible. Nikhil Joshi is a senior fascinated by biology and inorganic chemistry. He plans to attend college at Johns Hopkins University, the University of Washington, or the University of California – San Diego and study biomedical/bioengineering. Nikhil is very interested in research in engineering and science, and is engaged in ultrasound research at the University of Washington, Department of Bioengineering. Other interests include skiing, basketball, tennis, and traveling. Isaac Nelson-King is a senior who has a passion for science and math studies and has been a key member of several science and math teams for WHS throughout his tenure at the school. He plans to attend Pomona or Oberlin College next year to further his career goals in genetic engineering. Isaac also has a passionate pursuit of puns in as many languages as possible, some of which are funny.



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