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April 26 – 30, 2007

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U.S. Department of Energy

National Science Bowl®



2007

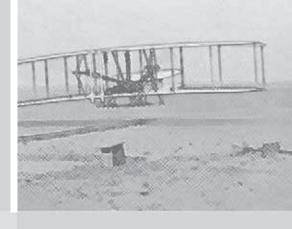
National Science Bowl® Program

batteries not included

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Daniel Ash was a member of Sycamore High School's national team in 2000, 2001, and 2002 and the captain of Cincinnati Country Day School's national team as a senior in 2003. He is currently a senior at Ohio State University in the B.S. program. He enjoys piano, art, politics, all things science, and wasting time with computer gadgetry.

David Brown attended Whitefish Bay High School in a suburb of Milwaukee, WI. He attended the 2004 National Science Bowl® as a senior. David is now a junior at Macalester College in St. Paul, MN, where he is pursuing majors in computer science and physics.

Jeff Daulton is a senior in electrical engineering at The Ohio State University. As a member of the Centerville High School team, he participated in National Science Bowl® in 2002 and 2003, earning a trip to London, England in 2003 to participate in the London International Youth Science Forum. While in high school, he participated in turbine engine research at the Air Force Research Laboratory. Over the last three years, he has been developing resonant tunneling based semiconductor devices by combining epitaxially grown silicon germanium with thin oxide films. He is currently trying his best to avoid the decision of where to go after he graduates in June.

Doug Fuller graduated from Ankeny High School in Ankeny, IA, in 1999, competing for the school at the 1999 National Science Bowl®. He attended Iowa State University in Ames, IA, earning his Bachelor's degree in computer science in 2002, followed by a Master's degree in 2005. While attending Iowa State, Doug worked at DOE's Ames Laboratory in the Scalable Computing Laboratory performing research in high-performance computing and computational science. Doug began his Ph.D. studies at the University of North Texas and plans to finish his studies at Arizona State University, where he currently manages the operations staff at the Fulton High Performance Computing Initiative.

Jenica Jacobi was on the Science Bowl team from Albuquerque Academy (New Mexico) in 1998. She earned a B.S. in biology and a B.A. in chemistry from the University of New Mexico in 2002. Jenica went on to complete her M.B.A., with a concentration in financial management, from the University of New Mexico Anderson Schools and her J.D. from the University of New Mexico School of Law, both in 2005. She is currently working as a real estate and business attorney in Rio Rancho, NM.

Dean Jens competed for Ankeny High School (Iowa) 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 worked as a computer programmer in Chicago before moving to New York City, where he does mathematical modeling of financial markets to price over-thecounter derivatives.

Caine Jette graduated as Valedictorian of Maui High School in 2006. He attended the National Science Bowl® in 2005 as well as the National Ocean Sciences Bowl for four consecutive years (2003–2006). He is currently attending Massachusetts Institute of Technology and expects to graduate in 2010 with a Bachelor's of Science degree in earth, atmospheric, and planetary sciences.

Seth Johnson competed in the National Science Bowl® on the A&M Consolidated High School team in 2003. He graduated from Texas A&M University with a B.S. in nuclear engineering in 2006. Seth is currently developing neutron transport code at Oak Ridge National Laboratory and will begin graduate school at University of Michigan under an NSF fellowship this fall.



Evan Kornacki attended James E. Taylor High School in Katy, TX, and competed in the 2006 National Science Bowl®. A junior in the College of Natural Sciences of the University of Texas at Austin, he will complete physics and mathematics degrees in spring 2009. Mr. Kornacki hopes to develop and lead research programs in academia, a private institute, or national laboratory after earning his Ph.D. His research includes heavy-ion physics, as part of the PHENIX collaboration at Brookhaven National Laboratory.

Troy Kuersten competed for all four years in the National Science Bowl® for Enterprise High School in Redding, CA. He was able to attend the National competition for three of those years (2001–2003). He is currently a fourth year aerospace engineering and physics double major at California Polytechnic State University, San Luis Obispo. He is currently working on a lunar communications satellite constellation for his senior design class and a hybrid rocket motor for a campus club, CalPoly Space Systems.

Michael Lee graduated from Enterprise High School, Redding, CA, in 1997, participating in the National Science Bowl® during his senior year. He earned an A.A. from Shasta College and then graduated with a B.S. in biology from Loyola Marymount University in Los Angeles, CA in 2001. Michael currently attends Western University of Health Sciences, College of Osteopathic Medicine of the Pacific, Pomona, CA, and will graduate this year with his Doctor of Osteopathic Medicine (D.O.).

JiSan Lopez attended Albuquerque Academy and participated in the 1998 National Science Bowl® competition. She earned a B.S. in biology from the University of New Mexico in 2002. JiSan completed her J.D. at the University of New Mexico School of Law and her M.B.A. with a concentration in management of technology at UNM's Anderson Schools of Management in 2005. During law school, she clerked at Sandia National Laboratories in the Intellectual Property Center. JiSan is an attorney for the National Nuclear Security Administration

(NNSA) and a participant in the NNSA's Future Leaders Program. She is currently studying for the Patent Bar examination, which she desperately hopes to pass on the first attempt.

Adam Matthews competed in the National Science Bowl® with his team from Punahou High School, Honolulu, HI, in 1995 and 1997. He graduated from Harvard College with an A.B. in biochemical sciences, magna cum laude (2001). Adam is a 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 Howard Hughes Medical Institute 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.

Robert McNees attended Oak Ridge High School in Oak Ridge, TN from 1988-1991. In his senior year (1990-1991), he competed in the first National Science Bowl®. He majored in physics and math at the University of North Carolina at Chapel Hill, graduating in 1995. After college, Robert spent a year abroad in Glasgow, Scotland as a Rotary International Ambassadorial Scholar. In 1996, he began his graduate studies in physics at the University of Texas at Austin. He was a member of the Weinberg Theory Group, where he studied theoretical high energy physics. Robert's advisor was Willy Fischler and he finished his Ph.D. in 2002, with the title of his dissertation as "String Theory, Holography, and UV-IR Mixing." His first postdoctoral research position was at the University of Michigan in Ann Arbor. Robert is currently a postdoctoral research associate in the High Energy Theory Group at Brown University in Providence, RI.

Jay Strode competed for Woodinville High School, making the Nationals team in 2003. He is currently a computer science senior at Cal Poly, San Luis Obispo, as well as a software developer for Customflix Labs.

Raymond Waniska attended A&M Consolidated High School in College Station, TX, and competed in National Science Bowl® in May 2002. He is currently a senior physics major, psychology minor at Texas A&M University at College Station, TX.

Matthew Zellman attended the National Science Bowl® in 2001 and 2002 with his team from Johansen High School in Modesto, CA. After studying electrical engineering and then bioengineering at Cal Poly, San Luis Obispo, he now attends UC Merced and is majoring in cognitive science. He is interested in developing new techniques to model complex systems, which he hopes will aid in the understanding of problems in ecology, economics, and cognitive studies.

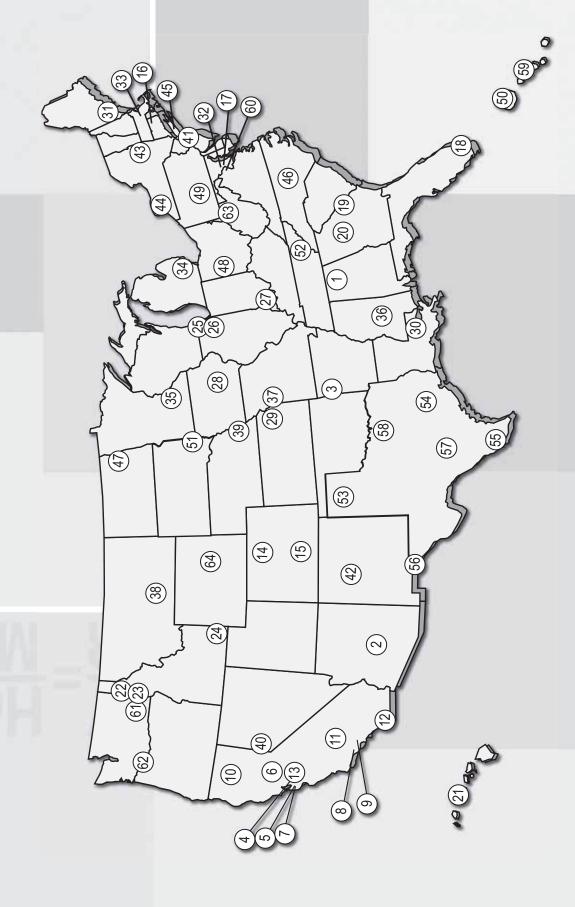


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2007 Regional Winning Teams and Participating Facilities



Alabama

Randolph School – Alabama School of Math & Science

Arizona

Chaparral High School – WAPA – Desert Southwest αi

Arkansas

Southside High School - University of Arkansas Fort Smith რ

California

Albany High School – Center for Science & Engineering Education/Lawrence Berkeley National Laboratory 4.

Homestead High School – Stanford Linear Accelerator Center <u>ي</u>

Mira Loma High School – WAPA – Sierra Nevada Ö.

Mission San Jose High School – Sandia National Laboratories – California

North Hollywood High School - Los Angeles Department of Water and Power œ

Shasta High School – City of Redding Electric Utility Santa Monica High School – Jet Propulsion Laboratory 10. <u>ග</u>

Stockdale High School – California State University The Preuss School UCSD - NOBCChE Western 7. ر. ن

13. Tokay High School - Modesto Irrigation District

Colorado

14. Poudre High School - WAPA - Rocky Mountain

Pueblo Centennial High School – National Renewable Energy Laboratory 15.

Connecticut

16. Edwin O. Smith High School - University of Connecticut

District of Columbia

17. Woodrow Wilson Senior High School – Howard University

Florida

18. Miami Palmetto Senior High School – Florida Solar **Energy Center**

Parkview High School - Armstrong Atlantic State

University

20.

Lakeside High School – Savannah River WSRC

Georgia

21. Iolani School – Bank of Hawaii

Idaho

Coeur d'Alene Charter Academy – Idaho National _aboratory ດ ເນ

Moscow High School - U.S. Department of Energy Idaho Operations Office . თ

Ward Melville High School - Brookhaven National

University at Buffalo – Biomedical STEP Program

44 45

- Monroe Community College

43. Shenendehowa High School - Knolls Atomic &

General Electric Upstate New York

Soda Springs High School – Battelle Energy Alliance – Idaho 24.

Hoffman Estates High School - Milwaukee School of Engineering

46. East Chapel Hill High School - North Carolina Central

Jniversity/NIEHS

North Dakota

North Carolina

Naperville North High School – William Fremd High School 26.

Indiana

27. Castle High School – Indiana State University

28. Regina Education Center - Ames Laboratory

29. Mill Valley High School - Kansas City Plant

Louisiana

30. Maine

Kansas

State College Area High School – National Energy Technology Laboratory – Pittsburgh Pennsylvania

Beavercreek High School – The Fernald Preserve

47. Red River High School – WAPA – Bismarck

Puerto Rico

Colegio Catolico Notre Dame High School – Society of Hispanic Professional Engineers – University of Puerto Rico – Mayaguez

Greater Sioux Falls Home School Association – WAPA - Huron 51.

South Dakota

 Farragut High School – Oak Ridge Institute for Science & Education **Tennessee**

Fexas

32. Montgomery Blair High School - Montgomery College

33. Westford Academy – Boston University

Massachusetts

Cape Elizabeth High School – University of Southern

Maine

. 1

Maryland

Baton Rouge Magnet High School – Strategic

Petroleum Reserve

Amarillo High School - BWXT Pantex Plant 53

A&M Consolidated High School – Texas A&M University 54.

34. Renaissance High School - NOBCChE Midwest Region

Minnesota

Michigan

35. St. Paul Academy & Summit School – Minnesota Academy of Science

36. East Rankin Academy - Mississippi University for

Women

Missouri

Mississippi

37. Liberty High School – Kansas City Plant

38. Skyview High School - WAPA - Billings

Nebraska

Montana

Edinburg North High School - University of Texas - Pan American 55.

Mission Early College High School – Society of Hispanic Professional Engineers – New Mexico State University AHETEMS, Inc. 56.

Saint Mary's Hall School – San Antonio – Texas 57.

Texas Academy of Mathematics and Science – Texas Society of Hispanic Professional Engineers U.S. Virgin Islands

St. Croix Educational Complex – Virgin Islands Department of Education 59

Virginia

39. Creighton Preparatory School - Natural Resources

Conservation Service

Nevada

40. Reno High School - National Nuclear Security

Administration – Nevada Operations Office

New Jersey

60. Thomas Jefferson High School for Science & Technology – Thomas Jefferson National Accelerator Facility

Washington

61. Pullman High School - Pacific Northwest Site Office Skyview High School – Bonneville Power

Administration West Virginia

East Brunswick High School – Princeton Plasma Physics Laboratory

42. Albuquerque Academy - Sandia National

New Mexico

Laboratories – New Mexico

New York

63. Bridgeport High School - National Energy Technology Laboratory - Morgantown

Wyoming

Oilfield Kelly Walsh High School – Rocky Mour 64.

Testing Center



Albany High School — Albany, California

Center for Science & Engineering Education — Lawrence Berkeley National Laboratory

Team Members — *Ian Allen* is a junior. His interest in science comes from his curious nature and his desire to understand the universe around him. Ian is copresident of the Math Club and plays for the school's Rhythm & Blues band. Among his favorites are Earth Wind & Fire's "September" and Tower of Power's "So Very Hard to Go." Last year was his first year at Nationals, and he also competed at Nationals for the National Ocean Science Bowl. *David Meldgin*, a senior, spends most of his time enjoying his friends and mountain-biking. He completed AP Biology, Chemistry, and Physics before his senior year, and needed a project. David recently rescued the AP Computer Science class, and serves as the official instructor for the class, because the regular teacher had a lengthy absence. This makes David the second AHS Science Bowler to



Left to right: Andrey Poletayev, Ian Allen, Jackie Quinn, David Meldgin, Robin Mi, Peggy Carlock (Coach)

have taken over the instruction for an AP class. He is downright devious with the tests and quizzes he writes for his charges. Si (Robin) Mi is a senior. He has an intense interest in science. He is a member of Albany's cross-country and track teams. He believes that to have a good mind, one needs to have a trained body to wield it. He also believes that he could not have accomplished all that he has without the great friends beside him. He was recently accepted at Duke University and several UC campuses, including Berkeley and UCLA, but for now he simply enjoys his senior year and awaits the excitement of college. For senior Andrey Poletayev, the team captain, Science Bowl and other competitions are places for him to become more aware of himself, his capabilities, and his strengths. Even though he was born and raised in Russia, he considers himself a Buddhist. The brightest experiences of his life have been a sociocultural psychology research trip to Russia's Altai Mountains and a mountaineering expedition to Caucasus, also in Russia. Another integral part of his life is sports; he wrestles, backpacks, and mountaineers. He enjoys challenges and relishes in the adrenaline rush of buzzing in at Science Bowl and competing in sports. Andrey was accepted, early decision, to Cal Tech. A proud member of the National Science Bowl® Team, junior Jackie Quinn possesses an avid love for science, especially the field of biology. While science is a central part of her life, she is also an All-League in two sports: cross-country and soccer. She loves singing and tends to break out in song at random intervals. While she adamantly believes in hard work and self-discipline, her philosophy toward life is that it primarily exists to be enjoyed. Jackie thrives on competition, as is evidenced by her participation in NSB and year-round sports. This is her second appearance at the National finals, and she looks forward to meeting the competition.

Team Coach — Peggy Carlock, an ▲ AP Chemistry instructor, was an avid competitor on science and math teams as a teen. She believes it all began with her father who became blind as an infant -Ralph Emerson Dow, a direct descendent of Ralph Waldo Emerson but no relation to DOW Chemical (darn!). Her father attended the Helen Keller Institute for the Blind near Boston, where students learned "Mental Math." Peggy was the only one of four sisters interested in these lofty pursuits. At age seven, she designed his accounting and inventory systems for his retail business. Thus, it was natural for her to join math teams and become a math and science coach her entire teaching career. Peggy earned her Bachelor's and Ph.D. chemistry degrees at UC Berkeley, and a Master's in bio-physics. Go Bears!

SCIENCE

Albuquerque Academy — Albuquerque, New Mexico

Sandia National Laboratories — New Mexico



Left to right: Ann Atura, Thomas Martin, Jr., Arjune Bose, Ronald Shaw, Not pictured: Jennifer Johnson (Coach)

Team Coach — Jennifer Johnson graduated from the College of William and Mary with a B.S. in chemistry and the Pennsylvania State University with a M.S. in chemistry. She has taught high school chemistry in Virginia and New Mexico, with two years of laboratory experience in semiconductors at Sandia National Laboratories. She enjoys working with kids and spreading excitement about science to hopefully bolster scientific literacy. She is honored to accompany the Albuquerque Academy Science Bowl Team to this competition, although her colleagues are to be credited for their success. This team is returning for the third time to proudly represent the state of New Mexico.

Team Members — *Ann Atura* is a senior. In addition to Science Bowl, she is active in performing arts and with the school newspaper. She loves all sciences. This will be her fifth time to compete in Science Bowl at the National level. She qualified for Middle School Nationals in seventh and eighth grades and for High School Nationals as a sophomore. *Arjune Bose* is a senior. This will be his fifth trip to the National Science Bowl®. He won the Siemens AP Award and qualified for the AIME for the fourth time this year. He plans to participate in the National Science Olympiad. He is also a member of the Albuquerque Academy Math Team, Bridge Team, Chess Team, Quiz Bowl, and tennis team. He plans to attend either UT-Austin or Rice University this fall, while majoring in biomedical engineering. *Thomas Martin, Jr.*, is a senior. He has

competed in Science Bowl since the seventh grade, as well as participating in swimming and other extracurricular activities. *Ronald Shaw* is a senior. He has competed three times at the National Science Bowl®, once at the middle school level and twice at the high school level. Ronald competed at the National Spelling Bee twice, placing eighth in 2003. He was a member of the 2005 and 2006 New Mexico Quiz Bowl state championship teams. Ronald was a member of the 2006 New Mexico State Science Olympiad Team and will also compete this year at the 2007 National Science Olympiad. His hobbies include reading, tennis, track, and video games. Ronald is interested in many subjects, including astronomy, biology, biochemistry, physics, and math. Ronald plans to study pre-medicine in preparation for becoming a physician.

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National Science Bowl® Program

Amarillo High School — Amarillo, Texas

BWXT Pantex Plant

Team Members — *Michael Clark* is a sophomore participating in the IB program. This is Michael's first time to compete in any level of Science Bowl. He went to state TAME Math and Science Contest. He also plays the guitar and cello. He plans to attend Texas A&M to major in architecture. *George Maliba* is a sophomore who has participated in other math and science competitions. This is his second time to attend the National Science Bowl®. He enjoys playing the piano, collecting coins, and writing for his school's newspaper. In addition, he is on his school's Debate Team and is secretary of his school's Cultural Club. He plans to pursue a degree in math or science and to eventually become a doctor. *Michael Stebbins* is a sophomore who has participated in both Texas Alliance for Minorities in Engineering (TAME) and Mathcounts. He

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Left to right: Shane Simmons (Coach), Michael Stebbins, Michael Clark, George Maliha, Jessica Williams

advanced to states in Mathcounts. He also served as the Science Bowl captain for his two years in middle school. He spends his free time at church, playing his bass guitar, and playing games. He plans to attend Texas A&M and to obtain a degree in nuclear or computer engineering. *Jessica Williams* is a sophomore IB student. This is her third year participating in Science Bowl at both the middle school and high school levels. She participates in numerous other math and science competitions, including UIL and TAME. She is an active member of her school's French Club and is the president-elect of Key Club. She plans to pursue a degree in mechanical engineering.

Team Coach — Shane Simmons is a graduate of Texas A&M University, Corpus Christi. He has a B.S. in molecular biology with a pre-medicine emphasis and he currently teaches biology and chemistry. As a scientist, he is mostly concerned with cancer research, alternative energy, and the reduction of greenhouse gasses.

SCIENCE

A&M Consolidated High School — College Station, Texas

Texas A&M University



Left to right: Brian Liu, Paul Gustafson, Sean Lau, Jeffrey Chen, Dimitar Popov, Kristen Jones (Coach)

eam 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. She has been teaching chemistry at A&M Consolidated, the only public high school in College Station, TX, for 22 years. She 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 reading.

Team Members — *Jeffrey Chen* is a junior. He enjoys both mathematics and science, and is thus a part of the Math and Science Club. He participates in competitions such as UIL, Science Bowl, and Ocean Bowl. He also plays both the cello and Ultimate Frisbee. *Paul Gustafson* is a senior. His favorite subjects include biology, mathematics, chemistry, computer science, and English. He is a member of Interfaith Club and Math and Science Club. Unfortunately, Paul has not yet decided on a college or major because he has been spending his free time playing ping pong. His other hobbies include reading (of course), specifically epic fantasy and history, and playing tennis. Senior *Sean Lau* was born in College Station, TX, and grew up in the area with his mom, dad, and sister. Sean spends his free time reading mathematics and science textbooks, learning

new languages, and solving numerical analysis problems on his graphing calculator. His less academic hobbies include playing video games and watching anime. Sean plans to attend Texas A&M University in the fall to major in chemistry. *Brian Liu* is a senior. He was born in Ann Arbor, MI, and moved to College Station, TX, when he was one year old. His life is very exciting and filled with happiness. He likes science and mathematics, although he cannot see himself solving difficult problems for the rest of his life. In the future, Brian hopes to be a doctor (surprise, surprise). Brian likes to play instruments including the violin and piano (surprise, surprise). He is also pretty much a full-fledged Jimi Hendrix on the guitar. Brian hopes that he will get to see all the monuments on the Washington Mall. *Dimitar Popov* is currently a senior. He is involved in Math and Science Club, Science Bowl, Ocean Bowl, and Pan American Student Forum. Outside of school, Dimitar enjoys playing tennis and soccer, hanging out with his friends, and spending time with his family. After graduating, Dimitar plans to attend the Massachusetts Institute of Technology, where he plans to major in mathematics and chemical engineering.

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National Science Bowl® Program

Baton Rouge Magnet High School — Baton Rouge, Louisiana

Strategic Petroleum Reserve

Team Members — *Hudson Chien* is a junior. He aspires to be the next Bill Nye and the most popular scientist ever. He enjoys learning as well as playing the piano and violin. On occasion, he makes visits to the pool to swim, but he enjoys all forms of physical activity. Anuj Jhunjhunwala is a senior who has always liked science and math. He enjoys reading and is active in Mu Alpha Theta and Interact Clubs. He is a National Merit Finalist and a candidate in the Presidential Scholars Program. He plans to major in behavior and neuroscience at Columbia University. Allen Liao is a junior. Besides his avid interests in math and science, he enjoys reading, playing the piano, and schooling his friends at soccer and Ultimate Frisbee. Allen is vice president of his school's Mu Alpha Theta chapter and an active member of Beta Club and Interact. He plans to study chemistry, physics, or math in college. Swati



Left to right, Back row: Allen Liao, William Wu, Anuj Jhunjhunwala, Sangita Mathur (Coach), Front row: Hudson Chien, Swati Mathur

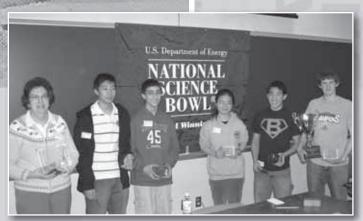
Mathur is a junior. Her favorite subject is English, and she is involved in several organizations at school, including Interact Club, Science Olympiad, and the school choir. She enjoys reading and learning both Indian Classical and American vocal music. Swati plans to go to college and pursue a career in medicine. **William Wu** is a senior who is strongly dedicated to math and science. He is the webmaster of Mu Alpha Theta and Science Club and a National Merit Finalist. He enjoys competing in all science competitions. During his free time, he likes being on the computer and learning about web design. William plans to major in chemical engineering.

Team Coach — Sangita Mathur received her M.Phil. in chemistry from India followed by a M.S. in organic chemistry from Louisiana State University. Her lab experience includes synthesis of organic compounds. She has been teaching Chemistry and Chemistry AP at Baton Rouge Magnet High School since 1998. She sponsors Science Club and Science Bowl.

SCIENCE

Beavercreek High School — Beavercreek, Ohio

The Fernald Preserve



Left to right: Margo DeBrosse (Coach), David Zhou, Deepak Chona, Guanqing Ou, Joel Jean, Jake Connors

Team Coach — *Margo DeBrosse* teaches AP Physics and Scholarship Physics at Beavercreek High School. She received a B.S. in chemistry from Marian College, Indianapolis, IN and a M.Ed. from Wright State University, Dayton, OH. After working as a limnologist at Michigan State University, she decided she preferred teaching. She enjoys working with young adults. The three discoveries she considers most important are Newton's Law of Universal Gravitation, the discovery of the small pox vaccine by Edward Jenner, and electromagnetic induction by Michael Faraday and Joseph Henry.

Team Members — *Deepak Chona* is a sophomore. In addition to Science Bowl, he participates in Math Club, JETS TEAMS, "God, Flag and Country" Oratory Competitions, and BHS Varsity Chess. Deepak enjoys playing soccer, basketball, football, and other sports in his spare time. He plans to study dentistry and would like to attend the University of Texas after high school. Hook 'Em Horns! *Jake Connors* is a senior and captain of the Science Bowl Team. Along with graduating as a Salutatorian, he participates in JETS TEAMS, Science Olympiad, Math Club, National Honor Society, and Ski Club. Jake is going to attend The Ohio State University and plans to study either physics or engineering physics. He hopes to eventually pursue a doctorate in physics and do experimental research in high energy physics

or nuclear physics. In his free time, Jake enjoys skiing, golfing, paintballing, and using his homemade potato cannon. Alongside Joel, Jake would like to extend a friendly challenge to any other team in the sport of their choice. Joel Jean is a senior in his second year of Science Bowl. At BHS, he is the Mu Alpha Theta (Math Club) president, Science Olympiad captain, a JETS TEAMS competitor, and a Valedictorian of the Class of 2007. Joel has played violin and piano for 11 years. As a four-year Varsity tennis player and captain, he hopes to compete at State again this year. Like his brother, Neal, who competed at National Science Bowl® last year, Joel loves sports and wishes to uphold Neal's friendly challenge to other schools in the sport of their choice. Guanging Ou is a senior. This is her second year in Science Bowl. She is also involved in Science Olympiad, JETS TEAMS, Math Club, National Honor Society, Lincoln-Douglas Debate, and Fed Challenge. She has been TEAMS captain, Math Team captain, Orchestra concertmaster, Debate Team coach, and is a Salutatorian of the Class of 2007. She has also been honored by the AP Scholar program, the Rotary International Leadership initiative, and the American Chemical Society. She plans to study biomedical and chemical engineering in college. In her spare time, she enjoys playing violin and reading science fiction novels. Shiyuan (David) Zhou is a sophomore. He was born in China and moved to the U.S. when he was eight. This is his second year competing in Science Bowl. He participates in Math Club, JETS TEAMS, Latin Club, and Science Olympiad. He also volunteers with AAYAT and GenerAsian neXt. He hopes to attend college in California and wants to major in law or engineering.

2007

National Science Bowl® Program

Bridgeport High School — Bridgeport, West Virginia

National Energy Technology Laboratory — Morgantown

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Team Members — Junior Benjamin Cowley is the son of Richard and Paulette Cowley. He is a Hugh O'Brian Youth (HOBY) Leadership representative, completing the HOBY 100 hour program. A two-time state scholastic chess champion, Ben is founder of the BHS Chess Club. He is a Student Council homeroom representative and participates in Quiz Bowl, JETS, French Club, and Varsity soccer. He works part-time at the Bridgeport Public Library. Active in church activities, he has taken a mission trip to New Orleans. He hopes to attend Carnegie-Mellon University to become a robotic engineer. Benjamin Fouts, a junior, is a member of the BHS soccer and tennis teams. He has a 4.0 GPA. Benjamin is active in the Student Council, Young Life, Quiz Bowl, Science Bowl, and JETS. He serves as class secretary and BHS Webmaster. During high school, he has placed in Math Field Day and Academic Challenge, earned



Left to right: Benjamin Cowley, Jonathan Mauller, Benjamin Fouts, Darren McQueen, Eric Yurko, Not pictured: Barb Judy (Coach)

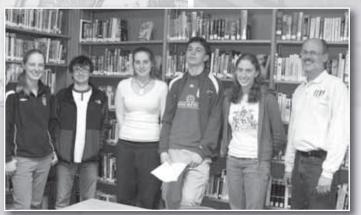
his BSA Eagle Scout, and became an AAA Geography State Finalist. Benjamin was awarded the WV Male Academic Athlete of the Year Award for the 2005-2006 school year. After graduating, he plans to attend a university with a strong engineering program. Junior **Jonathan Mauller**, son of Larry and Patricia Mauller, is a member of JETS, Quiz Bowl, and Science Bowl. He belongs to Leo Club, Key Club, French Club, and Chess Club. He is a member of the BHS Marching band and Concert band. Jonathan was selected as a member of the All County Band. Jonathan is also a member of the Les Misérables cast. He has a 4.0 GPA. He is active in Boy Scouts and is presently working on his Eagle Scout project. He plans to major in chemical engineering. Darren McQueen is a junior and the son of Donald and Connie McQueen. He is a member of his school's Science Bowl, JETS, and Quiz Bowl Teams. He is also involved with Academic Challenge and is a member of the French Honorary. Darren enjoys camping with the Boy Scouts and has been active in scouts for six years. He plans to attend West Virginia University in the fall of 2008 where he will major in electrical engineering. Eric Yurko, a sophomore, enjoys math and science and also participates on his school's Quiz Bowl and swimming teams. As a freshman, Eric earned his Varsity letter and qualified for the state swimming championships. Eric will also letter this year, and he hopes to again qualify for the state meet. An active member of Key Club and Boy Scouts, Eric would like to attend Stanford University, majoring in either architecture or engineering. Eric's goal is to design or build a world-renowned structure.

Team Coach — Barb Judy is a retired high school counselor who has coached academic Quiz Bowl, Science Bowl, and Junior Engineering Teams for over 10 years. She earned both her Bachelor's degree in biology and general science and Master's degree in counseling from West Virginia University. When she found out about Science Bowl, she thought that it was a great way to allow students to enhance their scientific knowledge. Barb also tutors online for PATH (Pupils Ask-Teachers Help) in math and science and tutored in math for America Online for about eight years. She is a flute player and plays for her church as well as in a flute choir and a community band

SCIENCE

Cape Elizabeth High School — Cape Elizabeth, Maine

University of Southern Maine



Left to right: Libby Cummings, Liam Sullivan, Anna Tranfaglia, Dan Shedd, Morgen Alden, Bill Brewington (Coach)

Team Coach — Bill Brewington has been teaching biology and life science electives at Cape Elizabeth High School in Maine for the past 16 years. His experiences teaching Southeast Asian refugee students in Hong Kong and the Philippines led to his career in education. Pursuing a degree in biology, he attended the University of Colorado, San Francisco State University, and Sonoma State University, and he has a Master's from the University of Southern Maine. He enjoys traveling, running, gardening, and Vietnamese food (among others!). Someday he hopes to teach internationally again, but for now, the coast of Maine with his wife and three kids is a great place to be!

Team Members — *Morgen Alden* is a junior who actively participates in school activities including Mock Trial, Math Team, tennis, and science competitions in the New England area. She loves volunteering at the local veterinary center and helps coach the middle school Debate Team. She recently spent a summer living in Botswana and hopes to make a difference in the fight against AIDS. She enjoys cuddling and chilling with friends at the beach. Morgen also has a fetish for dogs and cute, furry animals. If you ever want to share a good laugh, she is the one to share it with. *Libby Cummings* is a junior, and besides science, her favorite class is French. She spent a month in Switzerland last summer speaking the language, and she has been first in Maine on the National French Exam for the last three years. In addition to the Science Bowl Team,

Libby participates in Mock Trial, Model UN, student government, Math Team, and an all-girls' choir. She is left-handed and enjoys hiking, alpine skiing, and anything chocolate. Senior Dan Shedd loves soccer. He competes on the Math Team as well as Science Olympiad. He also participates in the North Shore Science League. Dan volunteers as a tutor in chemistry, physics, and math. He is a member of the National Honor Society, is a National Merit Finalist, and recently received the Rensselaer Polytechnic Institute Medal. Dan is also a Presidential Scholar Candidate. He plans to major in chemistry or engineering once he decides where to attend college. Dan works as a soccer referee and was the Casco Bay Soccer Club Referee of the Year; he is also the director of referees. Liam Sullivan is an 18-year-old senior. This is his first National Science Bowl®, and he is excited to represent Northern New England. His favorite pastimes are reading, playing violin, and solving differential equations. He is fluent in Italian and Portuguese. Liam has been fascinated by science all of his life, in large part due to his complicated medical history. This past December, he was accepted Early Decision into Brown University's eight-year Program in Liberal Medical Education. Liam plans to study infectious disease and aspires to be a real-life "Greg House." Anna Tranfaglia is a junior. She is active in her school's Science and Math Teams and the World Affairs Club. She runs cross-country and plays basketball. She also enjoys biking and hiking.

2007

National Science Bowl® Program

Castle High School — Newburgh, Indiana

Indiana State University

Team Members — *Maxwell (Max) Dablquist* is an 18-year-old senior who enjoys studying various sciences, particularly physics and biology, in addition to history and government. He is president of the Science Club, a Science Olympiad state champion, and an Academic Team captain. He will attend the University of Southern Indiana and intends to earn a doctorate in a currently undecided field, possibly biophysics. He volunteers in various positions and capacities with his church. In his spare time, he likes to play nontraditional sports, explore the outdoors, and play loud music with his band. *Andrew (Drew) Hagan* is a senior whose favorite subjects are the sciences as well as studies in BCE civilizations. Drew is vice president of the Chess Club. His extracurricular activities involve playing acoustic guitar, (trying to) grow bonsai trees, and competing fiercely



Left to right: Theresa Niehaus, Stephanie Wuerth, Max Dahlquist, Drew Hagan, Zeryab Khan, Not pictured: Jill Ohlsen (Coach)

on a local dodge ball team, The Mexican Jumping Beans. Drew is an adamant blood donor and has donated every 56 days since turning 17. He also volunteered during tornado relief last year. He plans to attend Purdue University with a major currently undecided, but with the hopes of pursuing education into graduate school. Senior Zeryab Khan is interested in chemistry, anatomy, physics, and philosophy. He has participated in many activities in his community and school, including volunteering at his local hospital for four consecutive years. Also, he has participated and held offices in many clubs such as Chess Club, Science Club, and Math Club. He plans to pursue a career in medicine, specifically medical research. However, he would also like to invest in real estate and other businesses. Lastly, Zeryab plans to become a prominent philanthropist in his lifetime. Theresa Niehaus is a senior. Her favorite board game is Scrabble and one of her life ambitions is to get the word "craziest" on the board. On rainy afternoons, one might find her curled up with a cheesy romance novel and a bowl of Ramen noodles, or researching new math jokes online. She firmly believes that there is an appropriate quote from "Zoolander," "Mean Girls," or Einstein's Theory of Relativity for every occasion and will not hesitate to use it. She also enjoys service work, which has inspired her to join the Peace Corps later on in life. Senior Stephanie Wuerth is quite eccentric. She enjoys playing Scrabble and writing mathematical poetry. She is vice president of the Suspenders Club, founding member of the "Mathmagicians," and co-author of the obscure comic strip The Adventures of Vertical Tangent Man and Cusp Boy. She is obsessively in love with penguins and macaroni and cheese. Her future plans include saving the world and dominating the National Quiz Bowl competition.

Team Coach — Jill Oblsen received a Bachelor's in biology from Indiana University in 1988 and a Master's in arts for teachers in 1995. She currently teaches AP Biology and Human Anatomy and Physiology, but has taught various other science courses throughout her 15 years. Jill's parents instilled in her a strong science background and she has found that teaching is an excellent way to convey this passion to future generations. She always tries to stay current and thus regularly attends professional development opportunities, her latest being the summer research institute at IU where she experienced research in a neurology lab. When not working, Jill is addicted to travel and spends as much time as possible with her husband, Marty, and her seven-year-old son, Ryan. She also volunteers as a docent at the local zoo. The three most important scientific discoveries for her would be Darwin's theory of evolution, Mendel's genetic laws, and the discovery of siRNA leading to RNAi research.

SCIENCE



Chaparral High School — Scottsdale, Arizona

Western Area Power Administration — Desert Southwest Region



Left to right: Pete Williams (Coach), Joseph Spiro, Grant Ullman, Anatola He, Garrett Buzzard, Liat Spiro, Ann Hammersly (Coach)

Team Coaches — Ann Hammersly ■ attended the University of California majoring in chemistry, but wandered into teaching physics and has stayed there for 20 years. She has done freelance writing for Discovery Channel Schools, is active in AAPT, NSTA, and local physics alliances, and enjoys competing in agility with her dogs (where there is less paperwork but more running required than for Science Bowl!). Pete Williams was born in Compton, CA, and was a rodeo cowboy at age five. He was a class officer and was third place in the state as a wrestler while in high school. He was a certified outdoor educator for more than 20 years and has a B.S. in geology from Arizona State University. He received his teaching certificate from the University of Phoenix and has taught physics, chemistry, and Earth science at Chaparral since 2000.

Team Members — Junior Garrett Buzzard is a hardworking, assiduous student. His favorite subjects include science and Spanish. Garrett plays the trumpet in the Chaparral Marching Band, Jazz Ensemble, and Symphonic Band. Another club that Garrett takes part in is Interact, where he performs community service. He hopes to major in biology and/or chemistry after graduating from high school but is unsure of which college he wishes to attend. In the future, Garrett wants to work in a profession in the field of biology, chemistry, or another closely related science. Anatola He, a junior, is the president of the school's Science Club and Sierra Student Coalition and participates in the Calculus Club, Gay-Straight Alliance, Young Democrats Club, Spanish Honor Society, and National Honor Society. She also plays on the basketball and tennis teams and volunteers with a local hospital and

the Contemporary Chinese School of Arizona. Her favorite subjects are English and any of the sciences, but as of now her future education plans are undecided. Senior *Joseph Spiro* was born on April 29, 1989, in New Jersey, where he lived the first year of his life. Joe went to elementary and middle school in the Revere school district in Richfield, OH. Joe is a National Merit Finalist, a member of the National Honor Society, the president of the Chaparral Asian American Society, and the founder of the Chaparral Avant-Garde Experimental Film Club. He has studied and enjoyed Judo and Jujitsu. He also enjoys reading books and comics, eastern cinema, mixed martial arts, thinking, foggy days, and sleeping. Junior *Liat Spiro* enjoys studying math and foreign languages. She is a member of National Honor Society and French Honor Society. She serves as secretary of Science Club. Additionally, she practices several martial arts as well as engages in the successful visual arts program at Chaparral High School. *Grant Ullman* is a junior. He participates in a myriad of school clubs, including Science Club, Model UN (president), March of Dimes, Interact, and Speech and Debate. He hopes to one day attend the Jerome Fisher Program in Management and Technology at the University of Pennsylvania (Wharton), and then go on to pursue a career as a "quant."

2007

National Science Bowl® Program

Coeur d'Alene Charter Academy — Coeur d' Alene, Idaho

Idaho National Laboratory

Team Members — As a resident of Northern Idaho who enjoys excitement, much of senior *Justin Horne's* time is spent working to make his car faster, participating in Supercross Skiing, or listening to music. Justin has enjoyed skiing since he could walk and has been compiling music since he was very young. Academically, his best subject is science and he hopes to pursue a career in pathology. *Alex Kramer*, a senior, was born in Folsom, CA. He has two older brothers and one great dog named Max. Besides playing on the school's Scholastic Team, he runs track, and in his spare time, he likes to rock climb, base jump, and shoot skeet. In college, he hopes to study bioengineering and follow in his parents' footsteps and attend Stanford University. Born in Wheaton, IL, senior *Jake Lauer* has two brothers and a sister. He currently lives in Harrison, ID, a



Left to right: Jake Lauer, Mike Mitchell, Justin Horne, Julian Lemke, Alex Kramer, Scott MacPhee (Coach)

small town south of Coeur d'Alene. He spends a lot of time in photography and has won several awards for his photos. He also runs a Web site design business. His love of music has led him to begin teaching himself to play the piano. His educational interests for the future are computer science or graphic design. Jake has applied to Baylor University, Whitworth College, Boise State University, and University of Idaho. Senior *Julian Lemke* is a native Canadian but moved with his family to Idaho in 1996. He started attending Coeur d'Alene Charter Academy in ninth grade and this year, will be graduating as the Valedictorian of his class. He has lettered in track and field and choir and enjoys writing poetry and music. He also enjoys ballroom dancing, skiing, and teaching guitar lessons. At the end of this year, he plans to attend college at either Baylor University or Princeton and study for a pre-medical degree. Sophomore *Mike Mitchell* was born in Spokane, WA, and grew up in Northern Idaho. He enjoys playing tennis, football, basketball, and baseball, playing computer games, and watching TV and movies. Wisely, he says that Mr. MacPhee is his favorite teacher and he also enjoys math and studying the Civil War.

Team Coach — *Scott MacPhee* graduated from the University of Idaho with teaching majors in history and English. He worked for a year as a computer trainer and has taught for six years. He considers germ theory, the internal combustion engine, and electricity the most important scientific discoveries. His hobbies are racing, sailboats, playing viola in the local symphony, and painting models. This is his fifth year of coaching the Scholastic Team.

SCIENCE

Colegio Catolico Notre Dame High School — Caguas, Puerto Rico

Society of Hispanic Professional Engineers — University of Puerto Rico — Mayaguez



Left to right: Godohaldo Perez, Frances Rodríguez, Noelia Alemar, Andrea Pagán, Eduardo Archilla, Judith Martinez (Coach)

Team Coach — Judith Martinez has a Ph.D. in organic chemistry from the University of Puerto Rico. She is a scientist by training and an educator by vocation. She teaches at both the high school and university level. She enjoys working with youth; helping them understand the wonders of science is what motivated her to be a teacher. The three greatest discoveries for her are: germ theory of disease, laws of thermodynamics, and stereochemistry. She likes to paint, write poetry, and is an insatiable reader. She also loves to cook. Judith loves animals, especially cats. Married for over 30 years, she has two grown sons.

Team Members — *Noelia Alemar* is a senior. She is in the National Honor Society, Math Club, English Club, and Chemistry Club. She is thinking of attending Texas A&M University and majoring in chemistry. She hopes to go into medicine and become a pathologist. She has done community service as a volunteer in a summer camp and in other activities. Her interests and hobbies include music, watching TV, going out to the movies, and surfing the Internet. Her favorite subjects are math and science. She is a very friendly person who likes to joke around, smile, and just be herself. *Eduardo Archilla* is a junior. He is interested in science and loves tennis, which is the sport he practices. He is always busy at school. He is a member of the

Chemistry Club, Math Club, History Club, and National Honor Society; he was also a member of the French Club. He works at a tennis shop and tutors fellow students in math and science. His favorite subjects are chemistry, biology, and English. He plans on studying chemical engineering. He loves lasagna and to listen to electronic music. He is fluent in Spanish and English and speaks a little French. Eduardo adores asking questions and meeting new people. Andrea Pagán is a senior. She likes cooking, foreign movies, shopping, surfing the Internet, and listening to music. Andrea tutors students in math and chemistry, and she is a member of the National Honor Society, the Chemistry Club, the Oratory League, and the Environmental Club. Her favorite subjects are chemistry and human ecology. She plans to go to M.I.T. next fall, where she is thinking of pursuing a degree in environmental engineering. Andrea is a shoes addict and a "Food Network" junkie. A high school senior, Godohaldo Perez has interests and hobbies include reading, chess, science, and math. He is involved in the Chemistry Club, Math Club, and the National Honor Society. His favorite classes are calculus and chemistry. He plans to attend the University of Puerto Rico Mayaguez campus and major in computer engineering. He would like to work in a related field in the future, and perhaps go on to graduate school. He has competed in various international Math Olympiads. This is his first science competition. Frances Rodríguez is a senior. She is a member of the Math Club, English Club, and National Honor Society, and she is the president of the Chemistry Club. She has worked voluntarily in summer camps, food and clothes drives for the disadvantaged, and she also tutors fellow students. Her favorite classes are both math and science. She plans to get a Bachelor's degree in chemistry and later have a profession related to science or math. She loves to go out with friends, surf the Web, and watch TV; in short, many types of entertainment. One fun detail about her is that she loves to eat all kinds of food.

2007

National Science Bowl® Program

Creighton Preparatory School — Omaha, Nebraska

Natural Resources Conservation Service

Team Members — *Mark Asmussen* is a senior. He is an Eagle Scout who likes science. He has participated in TEAMS competition and in his school's Science Club. He has been in a few high school theatrical productions, and is planning on continuing this in college. He plans to go to Loyola University (New Orleans) for college, possibly to study business. *Zachary Hake* is a junior, returning to Nationals for the second time. He enjoys the sciences, and although unsure of his future career path, he challenges himself to become well-rounded in all areas of study. Music has been a strong influence on his life, and being a classically trained pianist for over 12 years has exposed him to a plethora of musical ideas and concepts, and he hopes to form a progressive rock band. Also, he has participated in

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Left to right, Back row: Valery Tran, Zachary Hake, David Dow (Coach), Front row: Oseremen Okoruwa, Rahul Varman, Mark Asmussen

Mock Trial, Film Club, the state Latin convention, and NHS. Team captain Oseremen "Remen Noodles" Okoruwa, a 16-year-old senior, has returned to Nationals for a third time to complete his saga; this time, it is personal. Remen plans to attend either Harvard University or Washington University in St. Louis. When he is not stressing over incomplete Differential Equations/Linear Algebra homework, Remen enjoys a host of activities. He is a Science Club member, and the vice president of both the Nebraska Junior Classical League and his school's National Honor Society. He loves reading science fiction, baking cookies, and talking in the third person. In addition, he fences and still wears ties on a daily basis. Valery Tran is a senior who scored a 36 on the ACT. He has competed in numerous science competitions, including the CU/UNO Chemistry Field Day, Science Olympiad, TEAMS, and Envirothon. He is a Science Club member, has worked for the school newspaper, runs cross-country, and has participated in numerous youth religious (including retreat leader) and other activities. He enjoys making videos and acting as the rapper "VTrizzle." He will probably be a pre-medicine major next year at the University of Nebraska at Omaha. Rabul Varman is a junior. He enjoys learning the various concepts of science, math, Latin, economics, and other subjects as well as embellishing this knowledge through participation in various academic competitions (including TEAMS, Science Bowl, Envirothon, Science Olympiad, and several others) and endeavors. Aside from academics, he enjoys participating in a diverse array of sports and activities such as karate, diving, track and field, 10K runs, chess, piano, and Indian classical activities. He enjoys hanging out with his friends very much, especially when playing pick-up games, watching movies, dancing, or just chilling. He plans to go into pre-medicine in college. Some people say that he is a very entertaining storyteller/narrator.

Team Coach — David Dow graduated from Nebraska Wesleyan University with a B.S. in chemistry, attended Iowa State University, and received a M.S. from American University (DC). While pursuing a Ph.D. in inorganic chemistry at Iowa State studying organophosphorus compounds, he decided that teaching was more enjoyable than chemistry research. He has been a teacher for nearly 33 years, 30 of which have been at Creighton Prep. Besides sponsoring a Science Club, he also coaches Science Bowl, Science Olympiad, Envirothon, and Chemistry Field Day teams. In his estimation, the three most important discoveries were that of the atom, the conversion of matter into energy, and the computer. Hobbies include several outdoor activities.

SCIENCE

East Brunswick High School — East Brunswick, New Jersey

Princeton Plasma Physics Laboratory



Left to right: Abhishek Golugula, Alex Krasner, Mark Shteyn, Nitin Viswanathan, Vayu Kishore, Paul Kimmel (Coach)

Team Coach — *Paul Kimmel* has a Ph.D. in chemistry from the University of California at Berkeley, and has been teaching at East Brunswick High School for 37 years. He is also a chemistry lecturer at Rutgers University. He has been a reader for AP Chemistry exams for eight years, and is a College Board consultant, teaching AP Chemistry workshops in the summer. He enjoys bicycle riding and playing the piano, and is the advisor to the school's Musicians Club. This is his ninth time in the national competition as coach of East Brunswick High School's Science Bowl Team.

Team Members — Senior Abbishek Golugula is participating for the first time in National Science Bowl. He was born in Hyderabad, India and moved to East Brunswick, NJ, seven years ago. His favorite subjects include math, physics, computer science, and astronomy. He participates in Programming Team (CTE), Math Team, New Jersey Physics League, JETS, and Waksman. Apart from academics, he enjoys playing basketball in his free time. In college, he hopes to major in either mechanical or aerospace engineering. Junior Vayu Kishore was born in Jamshedpur, India. When he was five, Vayu moved to East Brunswick, NJ. His favorite subjects include math and science. He likes to play tennis in his free time. Apart from Science Bowl, Vayu participates in his school's Academic Team and Math Team. He also has taken part in the New

Jersey Science League and JETS. This is his second year at National Science Bowl®. Sophomore Alex Krasner was born in Moscow, Russia, moved to Brooklyn at the age of five, and later moved to East Brunswick, NJ, where he has enrolled in a program of honors courses in math and science. He has taken part in a variety of mathematics and science competitions, including Mandelbrot and MOEMS, New Jersey Science League, and now Science Bowl. He is independently studying physics with the help of his father. Since first grade, he has attended a weekend school called School Plus with his twin sister Anna, where he recently studied calculus. Mark Shteyn, a senior, considered making his biography funny, but then realized he is not very humorous and instead decided to make a generic description of himself. He is the captain of Science Bowl and Academic Team and vice president of Math Team. He is also in some other clubs, honor societies, etc., but he thinks those are irrelevant. Mark is a USA Biology Olympiad finalist and plays the piano when he gets the time. However, his favorite activity is ballroom dance, an activity in which he has competed for many years. Junior Nitin Viswanathan's favorite subject in school is physics. He is a current member of the Executive Board of Math Team, and he is a captain of Academic Team's B team. He participates in many extracurricular activities, including Science Bowl, Math Team, JETS Teams, and Academic Team. He is a nationally ranked table tennis player, and has played the piano for five years. He learned to program in the JAVA language in eighth grade, and has submitted a paper to the Workshop on Information Technology and Systems (WITS), which was accepted. He is leaning towards majoring in some computer-science related field.

2007

National Science Bowl® Program

East Chapel Hill High School — Chapel Hill, North Carolina

North Carolina Central University/NIEHS

Team Members — Although senior Jerry Feng could not compete at National Science Bowl® this year, he was a significant contributor to our regional win this year. We will miss him. Senior Meng Xiao He is a long-time member and officer in the Science Club. He maintains the club Web site and helps organize the teams. This is his third year on the winning regional Science Bowl Team. He is also a frequent winner of medals in Science Olympiad and helped send his school to the national competition. In addition, he was a member of the International Biology Olympiad team last year and a silver medalist. Last summer, he participated in the Howard Hughes Program Research Program at Duke University, working in the Center for Medical Genetics, and this year he is working at a research lab at UNC-Chapel Hill. He will be attending Harvard or Duke next year. Varun Puvanesarajab, a senior, is president of the Science Club that participates in Science NATIONAL SCIENC BOWI

Left to right, Back row: Judy Jones (Coach), Jerry Feng, Arnav Tripathy, Fredrick Johnson (Regional Coordinator), Front row: Meng Xiao He, Varun Puvanesarajah, Jack Wang, Not pictured: Robert Purdy (Coach)

Olympiad and Science Bowl. This is the third year that Varun has been part of the winning regional Science Bowl Team. Varun is a frequent medal winner in Science Olympiad, also. Last year, he helped send the team to the National Science Olympiad. In addition to competition, Varun has thrived in various science internships. Last summer he worked in a lab at the Center for Human Genetics at Duke University and the summer before that, he was a Howard Hughes Precollege Program Intern. He serves as a freshman mentor, helping ninth grade students with the adjustment to high school. In his spare time, he is passionate about basketball. He is still deciding what college to attend. Senior Arnav Tripathy is noted for two outstanding gifts — he is an incredible mathematician and a talented classical pianist. He was the highest scoring member of the U.S. team at the International Mathematical Olympiad as well as being a gold medalist. But in addition to these areas of accomplishment, he is a young man of many other talents. He is strongly interested in physics as well as mathematics and classical music. He was a member of his school's winning regional Science Bowl Team in 2005 and again this year. He spends a great deal of his school time taking courses at UNC-Chapel Hill, but he will be attending Harvard or Princeton next year. Pengcheng (Jack) Wang, a senior, is an officer in the Science Club. He has been a member of the regional Science Bowl Team for all three winning years. He is also a member of the Science Olympiad Team and has collected many medals for his efforts. His efforts contributed greatly to his school's successful second place win at states last year! He competed in the Brain Bee for the first time this year and won second place. Jack is undecided about his future area of study; he is debating between physics and biology. He is still deciding where he wants to attend college; he has been accepted to Cal Tech and UNC-Chapel Hill but is still waiting to hear from his other choices.

Team Coach — Dr. Robert Purdy ■ has been a biology/chemistry teacher for about 35 years. He has been in North Carolina, within the Chapel Hill — Carrboro City School System, for about 22 years. He was pretty much of a naturalist when he was a youth and he enjoyed sharing his interests with his peers. It was therefore a natural transition to become a science teacher where he would always be able to share his curiosity about the natural phenomena around him with others. He has taught long enough to note several major discoveries that have impacted the science curriculum he teaches, including Watson and Crick's discovery of the structure of DNA as well as Boyer and Cohen's work with restriction enzymes and plasmids, work being done in stem cell research, and the impact of computers and the resultant information explosion. He is still very much of a naturalist at heart and finds comfort in gardening, traveling to different biomes with his family, and taking long walks through the local forests.

SCIENCE

East Rankin Academy — Pelahatchie, Mississippi

Mississippi University for Women



Left to right: Rachel Gordy (Coach), Marianna Fountain, Taylor Smith, Jackson Rogers, Will Everett, Chris Atkinson

Team Coach — Rachel Gordy earned a B.S. in medical technology with a minor in chemistry from the University of Southern Mississippi. She worked for 12 years in a hospital laboratory. She later felt God leading her to teach. Coach Gordy has since taught chemistry, physical science, and high school mathematics for seven years. She thinks that the three most important scientific discoveries are the atom, the microscope, and penicillin. Her hobbies include spending time with her family, reading, and serving as children's Bible drill director and team leader in the women's ministry at her church.

Team Members — *Chris Atkinson*, a senior from Brandon, has successfully competed in academic Quiz Bowls, Science Bowls, and the MPSEA Academic Betterment Competition. He placed in the top one percent in biology in the Mississippi College Science and Math Tournament. He is a member of the ACT Academic Team and has been on the winning Regional Science Bowl Team for two years. Chris enjoys cross-country, music, drama, and participating in youth activities at Lakeland Presbyterian Church. He is currently a cadet airman in the Civil Air Patrol. Chris plans to attend Mississippi College and major in pre-medicine. *Will Everett*, a senior from Morton, plays Varsity football and is captain of the Academic Quiz Bowl Team that has won numerous college and high school tournaments this year. Will's academic achievements

include: perfect scores on the National Latin Exam for two years, first place in chemistry and biology at the Mississippi College Science and Math Tournament, and three years on the Regional Science Bowl Team. He is a National Merit Finalist and a Presidential Scholar nominee. He attends Line Creek Baptist Church and participates in community service projects at his school, where he is student body president. Will plans to attend Mississippi College and major in biochemistry. Marianna Fountain is a junior from Forest and has represented her school in several academic Quiz Bowls. She is a member of the ACT Academic Team and has won first place in the Overall State Academic Betterment Competition for two years. She placed in the top 10 percent in chemistry in the Mississippi College Science and Math Tournament and had a perfect score on the National Latin Exam. Marianna enjoys volunteering in the children's ministry at her church, singing in the Mississippi Girls Choir, and teaching ballet. She plans to attend Mississippi College or Samford University and major in psychology or communications. Jackson Rogers, a junior from Morton, attends Forest Baptist Church. He won first place in the Overall State Academic Betterment Competition and had a perfect score on the National Latin Exam. He is a member of the Academic Quiz Bowl Team that won the 2007 Mississippi College Science and Math Tournament, the 2007 Ole Miss History Bowl, the 2007 University of Mississippi Academic Tournament, the 2006-2007 MSU Invitational, and several local high school bowls. His favorite subject is history but his favorite subject with a "future" is chemistry. Although undecided about his college choice, Jackson plans to major in chemical engineering. **Taylor Smith** is a junior from Forest, where he attends Forest Methodist Church. He plays Varsity basketball and is a member of the track team. He has won district and overall state awards in the Academic Betterment Competition and is on the ACT Academic Team. Taylor is also a member of the Academic Quiz Bowl Team that won the 2007 Mississippi College Science and Math Tournament, the 2007 University of Mississippi Academic Tournament, the 2006-2007 MSU Invitational, the 2007 Madison Central Academic Tournament, and the 2007 Ridgeland Scholars Bowl. His favorite subjects are chemistry and history. Taylor plans to major in pre-medicine.

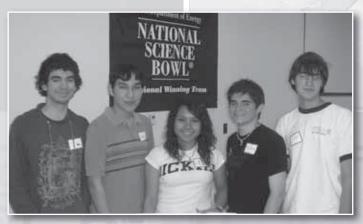
2007

National Science Bowl® Program

Edinburg North High School — Edinburg, Texas

University of Texas — Pan American

Team Members — Steven Garza, a junior, grew up in a I home with his family of two brothers, a mother, and a father, all of whom supported him very much throughout his life. The children were able to get a good education at the small middle school/elementary school nearby, at which Steven was involved in such activities as football, UIL, and the local 4-H Club. Steven grew up heavily influenced by his older brother, a current M.I.T. alumnus, and shared his interest in the sciences; this led to his involvement in such high school programs as UIL Science, JETS, Robotics, and D.I.R.T. Matthew Hernandez is a senior and his favorite subjects are biology and chemistry. He is currently Student Body president, NHS treasurer, and the Varsity tennis team captain. He is a National Hispanic Scholar, AP Scholar with Distinction, and is on the National Honor Roll. Matthew competes in UIL Science and tennis. He volunteers at N.L.



Left to right: Samuel Hernandez, Gilberto Lopez, Heidy Salinas, Matthew Hernandez, Steven Garza, Not pictured: Marc Braden (Coach)

Trevino Elementary as a UIL coach and serves as a UIL monitor. He plans to attend Johns Hopkins University to major in biomolecular engineering and to obtain a Ph.D. in immunology. He wants to conduct medical research and wants to bring his experience back to the Rio Grande Valley. Junior Samuel Hernandez is a self-proclaimed writer, but unpublished and sometimes disgusted with words. The Phantom Mind, by V.S. Ramachandran, a gift from his coach for winning the Regional Science Bowl, impacted his life greatly. Combining philosophy, psychology, and neurology to impact the impressionable few is a dream. His ultimate aspiration would be a published novel with the inclusion of deep thought-evoking themes. Also a dream of his is the case study of language — innate or not? — and the realizing of emotional responses in animals, with the goal of better understanding the mind. Junior Gilberto Lopez was born on January 17, 1990. As a child, he attended several elementary and middle schools. He is currently involved in several school activities and organizations, including the UIL Academics Team. Gilberto also participated in JETS competitions and TCEA Robotics. He is part of National Honor Society and is involved in the local D.I.R.T. Club. He has taken several A.P. math and science courses. He hopes to attend college next year and either study medicine, engineering, or natural sciences. Heidy Salinas is a 17-year-old junior. She found an interest in science the summer before entering high school when taking Integrated Physics and Chemistry with Mr. Ballesteros, then joining the UIL Science Team. In her sophomore year, she was captain of the JV A Team that competed at the JETS competition, where they won fourth place. Also during this year, Heidy was captain of the JV soccer team that was undefeated throughout the season and was district champions. Heidy is currently interested in attending a college or university to pursue a career in pharmacy.

Team Coach — After graduating from Queen's University in Canada with a degree in geophysical engineering, *Marc Braden* worked for Schlumberger Oilfield Services in Texas, then NAEVA Geophysics in New York, before deciding to become a physics teacher. It was his persistent interest and excitement in explaining and demonstrating basic science principles to friends, coworkers, and his wife's elementary school students that made him make the career change. The three scientific discoveries he considers most important are Newton's laws, the theory of relativity, and quantum mechanics.

SCIENCE

Edwin O. Smith High School — Storrs, Connecticut

University of Connecticut



Left to right: Kedron Silsbee, Priyanka Nakka, Maria Kern, Kyle Shin, Atif Rakin, Cheryl Granger (Coach)

Team Coach — *Dr. Cheryl Granger* attended William and Mary (B.S. biology, B.S. physics) and Penn State University (Ph. D. biology). She worked for seven years in a molecular biology research lab and one year in a computer database analysis lab. She decided to become a science teacher in order to get out of her research cubicle and communicate with others. The three most important scientific discoveries are the atom, DNA sequencing, and antibiotics. Her hobbies are reading and dancing.

Team Members — *Maria Kern* is a senior. She is eagerly awaiting college in the fall, but does not know where she is going yet, other than to some small liberalarts college in New England. Maria enjoys reading, cooking, and running. She was captain of the cross-country team. *Priyanka Nakka* is a junior. Her favorite subjects are science and math and she enjoys extracurricular activities such as Science Bowl and Quiz Bowl. *Atif Rakin* is a senior. He participates in many clubs, including Math Team, Science Bowl, Quiz Bowl, and Orchestra. Senior *Kyle Shin* does a lot of random stuff at his school, including running, Quiz/Science Bowl, Orchestra, and other activities. He plays viola, violin, piano, and a bit of guitar and kazoo. He enjoys long walks on the beach and he likes to jump. Yes, jump; it is what he does in track. Senior *Kedron Silsbee* spends

the majority of his time hiking, sleeping, and running around to various clubs. Sleeping is a priority, and so is coffee. He is taking the great Computational Physics course at UConn. He intends to go to college for four more years.

2007

National Science Bowl® Program

Farragut High School — Knoxville, Tennessee

Oak Ridge Institute for Science & Education

leam Members — Edward Buebler is currently a senior. He is a member of his school's Science Bowl and Scholar's Bowl Teams. He is also the president of the Science Club. Eddie's favorite subjects are physics and chemistry. In addition to being named a National Merit Finalist and AP Scholar with Distinction, he has placed in numerous math competitions, including a fourth place finish in the 2005 Algebra II Tennessee Math Teachers Association test. Eddie is also a member of the Knoxville Youth Symphony. He plans to attend Vanderbilt University, where he will study chemical engineering. ChaeYoon Moon is a junior and feels awkward writing in third person. Besides that fact, he enjoys chemistry as well as other math and science-related courses. He also has the honor of being a member of "The Board." ChaeYoon is a member of Mu Alpha Theta, Spanish Club, Debate Club,



Left to right: Umang Shukla, Edward Buehler, Jian Zhang, Nicholas Woodall, Not pictured: Kristin Baksa (Coach), ChaeYoon Moon

and National Honor Society. He belongs to Farragut's Dodgeball Club, the Rock Climbing Team, and is an eight-year veteran of Tae Kwon Do. ChaeYoon wants to pursue a career in biomedical or acoustical engineering. Umang Shukla is a senior. This is his third year as a member of the school's Science Bowl Team, and his second year as captain. In addition to Science Bowl, Umang is a member of the Academic Team, Student Government president, vice president of Mu Alpha Theta and the Spanish Honor Society, and a member of Farragut's Drama Club, Vocal Ensemble, and Science National Honor Society. Among other honors, he is a National Merit Finalist, a Presidential Scholar Nominee, and an Eagle Scout. Umang's favorite subjects are physics, Spanish, calculus, chemistry, and English. Umang plans to pursue a career involving the sciences. Senior Nicholas Woodall has always been an ardent pupil. He loves the challenge of any difficult science course. His favorite course has been AP Chemistry. With this in mind, he is heading to Georgia Tech this fall to pursue a career in chemical engineering. When Nick is not in school, he spends most of his time playing his trombone. Nick plays in the Knoxville Youth Jazz Orchestra, the Bearden Jazz Band, and his church trombone ensemble. He hopes to combine these two loves throughout his experience at Georgia Tech. Zhong Jian Zhang is a senior and captain of the Academic Team and president of Mu Alpha Theta. Jian is a recipient of the state Siemens AP Award and is a National Merit Finalist. Although he is not sure where his future education will take place, Jian plans to pursue a degree in electrical engineering or physics. His career may lead him into research and teaching.

deam Coach — Kristin Baksa is a L chemistry teacher at Farragut High School where she coaches the Science Bowl and Academic Teams, and coordinates the school's research mentoring program with Oak Ridge National Laboratory and the University of Tennessee. She received a B.S. degree in medical technology from Michigan State University and a Master of Public Health degree from the University of Tennessee. Before entering the teaching profession, Kristin worked in a clinical laboratory and as an industrial hygienist, where she was responsible for the evaluation and control of chemical exposures in the workplace. After teaching a few industrial hygiene courses at the University of Tennessee, Kristin decided to enter the profession full time. Her favorite class to teach is chemistry, and her favorite hobby is running.

SCIENCE



Greater Sioux Falls Home School Association — Sioux Falls, South Dakota

Western Area Power Administration — Huron



Left to right: Samuel Jakos, Zack Truelson, Nels Truelson (Coach), Michael McLaughlin, Nick Truelson, Not pictured: Ann McLaughlin

Team Coach — Nels Truelson's L educational background is in law and biomedical engineering, including degree work at Princeton University, Hamline University School of Law, and both University of Minnesota's College of Liberal Arts and Institute of Technology. Although his day job remains in the legal field, his first and last love has always been science. Newton's Principia, Einstein's general relativity, and Watson/Crick's double helix are at the top of his list. Truelson has taught MCAT and LSAT courses part-time at regional colleges, and has edited Kaplan Test Prep's MCAT science materials. A National Chess Master, he is the reigning state champion.

Team Members — Samuel Jakos is a freshman who enjoys tinkering with electronics, cooking gourmet recipes, learning about horticulture, reading, drawing, painting, and acting. Active in Boy Scouts, Sam is a Life Scout. He also enjoys participating in quiz bowls and his church youth group. His favorite subjects are science and history. Sam plans on obtaining an electrical engineering degree, getting involved in politics, and maybe starting up a restaurant in his spare time. An interesting fact about him is that he is teaching himself how to play the saxophone. Junior Ann McLaughlin is a 17-year-old who gravitates toward anything dramatic. She is an award-winning actress and an accomplished harpist who has zero fear of public speaking. When not singing Italian arias, she can be found ice skating or dancing the tango. Ann does not know what

college she will attend or what she will study. All she knows is that she is going, so watch out! How many redheaded, Spanish-speaking, harp-playing, unicycle-riding girls will you ever meet? Michael McLauglin is a freshman who currently holds the National Junior title in freestyle unicycling. When the weather keeps him from unicycling, he turns to other interests including juggling, dancing, and theater. This geography buff, who was the state champion in the 2007 AAA Travel High School Challenge, studies atlases and geography books just for fun. In addition to his participation in quiz bowls, he sketches portraits and builds giant igloos. Michael dreams of studying at Hogwarts, but he is willing to settle for something closer to home. Junior Nick Truelson, the team's captain, received Top Freshman honors at the 2005 National Academic Quiz Tournament (NAQT). The following year, he was named to the National All-Star Academic Team. Beginning with sixth grade, he won three State Spelling Bees, culminating in a third place finish at the Nationals in 2004. That year he also represented his state at the National Geographic Bee. He has won the State Physics Bowl, four state junior chess titles, and is currently the state scholastic chess champion. Nick has not picked out a college yet, but has decided to leave his brain to science. Zack Truelson is a freshman whose favorite school subjects are history and astronomy. He is a former elementary and junior high state chess champion, placed second in the 2005 Regional Spelling Bee, advanced to the State Geographic Bee, and competed on the 2006 and 2007 NAQT nationals-qualifying teams. He plans to pursue writing and filmmaking careers, and eventually learn Greek. He enjoys participating in both academic quiz bowls and Bible quizzing, writing stories, drawing, listening to classical music, and reading classic literature and encyclopedias. After college, he wants to resume music and karate training, and someday win an Oscar.

2007

National Science Bowl® Program

Hoffman Estates High School — Hoffman Estates, Illinois

Milwaukee School of Engineering



Team Members — *Adil Akthar* is a senior. He is in several academic clubs, including Math Team, Science Bowl, and WYSE. Adil plays the trombone in various band activities such as Marching band, Pep band, and Jazz band. He is part of the tennis team and is the treasurer of the National Honor Society. In his free time, he volunteers at the local hospital and at a senior living home. Adil plans to attend medical school after obtaining an undergraduate degree in biomedical engineering. *Evan Jones* is a senior whose favorite subjects are science and English. He is in his second year of Science Bowl competition. Evan has participated in Scholastic Bowl for three years, serving as captain of both the JV and Varsity teams. He is a member of the Writing Club and the Poetry Club, and was in the cast



Left to right: Joe Kulesza (Coach), Scott Ladendorf, Adil Akthar, Evan Jones, Jeffrey Mei, Davel Patel

of last year's spring play, *Harvey*. Evan plans to major in education and hopes to return to teach at Hoffman High and help out with the future Science and Scholastic Bowl Teams. Scott Ladendorf is in his senior year. He is an accomplished pianist and an athlete, specializing in tennis for the school and road biking on his own. He has explored all the science class offerings at Hoffman, including astronomy and geology. This is his first year on the Science Bowl Team. Scott will attend Michigan Technological University in Houghton, MI, where he plans to major in chemical engineering and try his hand at new sports such as skiing, rowing, and mountain biking. Jeffrey Mei is currently a senior. Throughout his years in high school, Jef has volunteered tutoring fellow students in math and as an assistant at St. Alexius Brothers Hospital. Along with these activities, Jef participates in Math Team, Scholastic Bowl, WYSE, National Honor Society, volleyball, Intramurals, and many other activities. After graduating, Jef plans to attend the University of Illinois in Urbana Champaign and major in aerospace engineering. Davel Patel is a senior who loves science. He participates in Math Team, Scholastic Bowl, WYSE, National Honor Society, volleyball, Intramurals, and various other clubs. Davel has volunteered at St. Alexius Brothers Hospital for two years, and he also has experience as a math tutor. Davel is not sure which college he is going to, but he does know he will major in chemistry or physics. In 20 years, Davel sees himself as a skilled medical doctor working for the Boston Red Sox.

Team Coach — Joe Kulesza coaches the Hoffman Estates High School Science Bowl Team, which is in its third year of competition. Joe earned a physics degree from Illinois State University in 1992 and a M.S. in physics from Northern Illinois University in 2002. Joe's picks as to three of the most important scientific discoveries are the late-eighteenth century discovery of the platypus, Pasteur's law of biogenesis, and Kelvin's contributions toward the second law of thermodynamics, all of which point to the need for a Creator. Joe is married to Laura and has four children — Lucas, Caleb, Alayna, and Katelyn.

SCIENCE

Homestead High School — Cupertino, California

Stanford Linear Accelerator Center



Left to right: Chris Nafrada (Coach), Drew Haven, Mary Plavec, Emma Tolley, Charles Liu, Aaron Wong, Martin Perl (1995 Nobel Laureate in Physics)

Team Coach — *Chris Nafrada* began his teaching career nine years ago at Homestead High School teaching Chemistry Honors and Chemistry AP. He became fond of academic competition in high school, with chemistry being his expertise on his Quiz Bowl Team. Chris obtained a B.A. in chemistry and a M.A. in natural science from San Jose State University, and is currently working toward a M.A. in educational leadership. His passion for teaching chemistry was established when the late Dr. Glenn Seaborg shook his hand and signed his Periodic Table in 1998. When he is not teaching, he enjoys snowboarding.

Team Members — Junior Drew Haven has a keen I interest in mathematics and computer science. President of his high school's Math Competitions Team, he has placed highly in competitions such as the Bay Area Mathematical Olympiad and Mu Alpha Theta's Log1 Contest. An alumnus of Canada/USA Mathcamp, he also was the national champion in Future Business Leaders of America's (FBLA) Java Programming event. Active in service-oriented clubs such as National Honor Society and Interact, he still finds time to practice piano and tae kwon do. He would like to study math when he enters college. Charles Liu is a senior with a strong interest in biology and chemistry. In addition to serving as captain of Homestead's Science Bowl Team, he is also an Eagle Scout, president of Homestead's FBLA and a member of the National Honor Society, Math Team, and Quiz Bowl Team

(which he helped found). For the past two years, he has served on the Youth Council of the Asian Liver Center, a nonprofit organization dedicated to educating people about hepatitis B and liver cancer. In college, Charles plans to study biochemistry in preparation for a career in medicine. Mary Plavec is a senior who plans to pursue a career in science with a degree in molecular biology from UC Berkeley. Her favorite subjects include chemistry, biology, and French. She has received awards for academic excellence in French and biology, and was a 2006 Yale Book Award recipient. In addition to scholastic pursuits, Mary enjoys painting and culinary arts. She is also an avid traveler, having visited countries including Croatia, India, England, and Singapore. Senior *Emma Tolley* has been interested in physics ever since she read Kip Thorne's Black Holes and Time Warps in eighth grade. She finds modern physics amazing and loves its mathematics. Emma is involved in many extracurricular activities, the most time-consuming of which (besides Science Bowl) is Homestead's FBLA. She has been involved in FBLA since tenth grade, competing in various presentation and tech design events. Emma also participates in science fairs, runs Homestead's Science Club, and does community service through the National Honor Society. She plans to attend MIT and major in physics and engineering. Aaron Wong is a junior whose favorite subjects are mathematics and physics. He is the captain of his school's track team, and a member of the cross-country team, the Math Club, FBLA, the National Forensic League, and the National Honor Society. He was the national champion in the Computer Concepts event of FBLA in 2006. Outside of school, Aaron plays the piano and attends the local Chinese language school. In the future, Aaron hopes to attend Stanford University and to pursue a career in the sciences or engineering.

2007

National Science Bowl® Program

Iolani School — Honolulu, Hawaii

Bank of Hawaii

Team Members — Senior *Xiaolong (Leon) Hou* was born in Tianjin, China in 1989 and has resided in Honolulu, HI, since 1993. He first took an interest in science as a result of his father's (a microbiologist) prodding. As of now, he is taking two AP science courses and is a member of the Math Team. In his spare time, he enjoys playing computer games and chess. He plans to major in computer science in college. Senior *Chau (Aubrey) Huynh* enjoys science and dabbles in economics. Outside of school, she can be found at a local hospital volunteering or at home watching *Lost*. She will be attending Harvard University this fall and hopes to pursue a career in medicine. Junior *Leslie Kim* is an endangered species of bookworm who loves both science and English. She is a member of the Math Team, co-founder of the sadly short-lived Monty



Left to right: Leslie Kim, Roydan Ongie, Leon Hou, Truong Vu, Aubrey Huynh, Randyll Warehime (Coach)

Python Appreciation Club, a member of the French Honor Society, and a section leader for both Marching band and Concert band. She plays the flute (she is in the pit orchestra for the school musical, *High School Musical*) and piano, and is a white-belt judoka (3 years!). Leslie also contributes regularly to the school newspaper, with a tendency towards quirky editorials. One day, she wishes to live somewhere with four DIFFERENT seasons, preferably Europe. *Roydan Ongie* is a senior. He enjoys math and science, and is currently enrolled in AP Physics C,AP Chemistry, and Multivariable Calculus. He won the AMC 12 award for the state of Hawaii as a junior. Besides Science Bowl, he participates in his school's Math Team, where he is captain, and Economics Challenge Team, and he also plays the oboe, trombone, and conducts for his school's Marching band. Roydan does not know where he is going for college yet, and is waiting for admissions letters. Sophomore *Thanh (Truong) Vu*, in general, is just an average guy. In addition to science, he also is interested in athletic activities such as wrestling and track. He is currently undecided on his future, but he does want to travel and see the world.

Team Coach — Randyll Warehime ■ taught science as a Peace CorpsVolunteer in Tonga, which caused him to know how he wanted to use his B.A. in biology from Whitman College. A Professional Diploma from the University of Hawaii and 14 years teaching in public schools and seven in private followed. He participated in a Woodrow Wilson Biology Institute, and worked in a biotechnology lab at the DOE's Pacific Northwest National Laboratory and Genentech's Access Excellence. He is a past president of the Hawaii Science Teachers Association and serves as the state's NABT representative. He thinks that heliocentrism, evolution, and the human genome project help us understand our place in the universe.

SCIENCE

Kelly Walsh High School — Casper, Wyoming

Rocky Mountain Oilfield Testing Center



Left to right: Daniel Bulfer, Chris McAulay, Elly Zimmer, Abbie Patik, Jenna Buffington, Mark Hileman (Coach)

Team Coach — Mark Hileman I graduated with a Bachelor's degree in science education from the University of Wyoming and obtained a Master's degree in sports medicine from USSA. Mark also has endorsements in coaching football, basketball, and track. He has attended three years of summer science classes to increase his knowledge in botany, zoology, and geology. Mark believes the three most important scientific discoveries include: Watson, Crick, and Franklin's cracking of the DNA code, the computer chip, and neurological stem cells. Mark enjoys outdoor sports and actively participates in Master division track meets.

Team Members — *Jenna Buffington* is a senior. She is involved in various activities such as band, pit orchestra, Key Club, Science Club, and Foreign Films. In addition, Jenna also serves as an officer for National Honor Society. This summer, Jenna was elected mayor of her city and Supreme Court justice at the Wyoming Girl's State Session 2007. Also, Jenna volunteers at the public library, where she designs bulletin boards and organizes books. Jenna works at the Casper Planetarium where she creates displays and runs programs. In the fall, Jenna will attend the University of Wyoming to pursue pharmacy. Senior *Daniel Buffer* has lived in Casper his entire life. He has a younger sister and brother. His favorite subjects are math and science, especially physics and astronomy. He is an AP scholar and received the Rotary Club award for Personal

Achievement. Daniel is an officer in the National Honor Society, member of the winning JETS and Math Bowl Teams, and Science Olympiad member. He likes to alpine ski, snowshoe, ride bikes, and camp. He plans on going to college to study engineering and is waiting on his acceptance. Senior Chris McAulay enjoys studying math and chemistry. He participated in the JETS competition for the state of Wyoming, where his team took first place. He also participates in Science Olympiad and has a passion for music. Chris plays the saxophone in the Symphonic band and the tenor saxophone in Jazz band. He plans to attend the University of Wyoming, where he will pursue a degree in chemical engineering. Abbie Patik is a senior. Her favorite subjects are Calculus I & II and French 5. She is an Honors student who is taking six AP classes. Abbie is an integral member of National Honor Society, Key Club, Science Club, French Club, Marching band, and Concert band. She enjoys volunteering at the public library, her church's thrift shop, and a local assisted living center. She plans on attending the University of Wyoming in the fall and majoring in biology. She wants to become a physician and travel the world, helping provide medical care in third-world countries, especially those in Africa. Senior *Elly Zimmer* is enrolled in many Honors courses; her favorite is English. She is a National Merit Finalist. She participates in many activities. Her JETS Team won the Wyoming state competition this year. She is very active in the school band, playing the flute and bassoon. In the summertime, she plays competitive fast pitch softball with the Casper Diamonds. She volunteers with her friends at the Natrona County Public Library. Next year, she plans to attend the University of Wyoming and major in English.

2007

National Science Bowl® Program

Lakeside High School — Evans, Georgia

Savannah River WSRC

Team Members — *Ben Chan* is a junior. His interests and hobbies include playing piano and bassoon, reading, science, math, and traveling. He is involved in the Lakeside Wind Ensemble, National Honor Society, Beta Club, Spanish Honor Society, Tri-M, Mu Alpha Theta, Math Team, Science Bowl Team, Science Olympiad Team, Augusta Symphony Youth Orchestra, and Augusta Conservatory Wind Symphony. His favorite subjects are science, math, and band. He plans to attend M.I.T. or Princeton and pursue a degree in pharmacy and ultimately to attend medical school. *Zach Dromsky* is a sophomore who enjoys reading, swimming, mountain hiking, and playing the trumpet. He is a member of the Lakeside swim team, Greater Augusta Swimming, and Boy Scouts of America, and he plays the trumpet in the Lakeside Marching band. He hopes to obtain a degree



Left to right: Ben Chan, Zach Dromsky, Jian Huang, Yi Liu, Charlotte Smith (Coach)

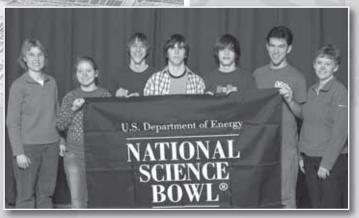
in physics and political science. Senior *Jian Huang* normally goes by the name "Peter." His hobbies include table tennis, computer programming and games, mathematics, and Chinese calligraphy. He is involved in the Math Team, Science Team, Arts Charity Club, and French Honor Society at Lakeside. His favorite classes are math and physics. He is still undecided about which college he will attend but he is planning to major in mathematics and computer science. *Yi (Lindsey) Liu* is a senior. She enjoys drawing, swimming, watching old movies, and eating at McDonald's. Science Olympiad, youth orchestra, retirement home music groups, and research are some activities she is involved with. Her favorite classes are biology and literature; she avoids math at all costs. Her destination for college is unknown, but she plans to major in biochemistry. Most importantly, Lindsey is a big fan of (eight-time Oscar non-winner) Peter O'Toole.

deam Coach — *Charlotte Smith* enjoys working with young people and helping them to learn about the natural world. She has an undergraduate degree in zoology and a Master's degree in secondary science. She has been teaching for about 25 years and has seen many important scientific discoveries in her time. To point out the three most important ones is a formidable task, but probably the most recent ones would be the advent of computer technology including the Internet, advances in biotechnology, and transplantation, since she has a daughter that received a five-organ transplant. Charlotte has worked in research at the Medical College of Georgia and has been involved in many summer field research projects, the most recent of which involved studying prokaryotic life forms in hot springs in Nevada and California.

SCIENCE

Liberty High School — Liberty, Missouri

Kansas City Plant



Left to right: Rosemary Camp (Coach), Stephanie Hull, Shane Daniel, John Ahlfield, David Klco, Ammon Sarver, Mary Coogan (Coach)

Team Coaches — Rosemary Camp coaches the National Science Bowl® Team and also co-chairs the Liberty High School Science Department. A graduate of Arkansas State University, she enjoys teaching Honors Theoretical and College Chemistry courses, coaching the Scholar Bowl Team, and spoiling her nieces whenever she gets the chance. Mary Coogan, a University of Kansas alumnus, teaches dual credit College Chemistry, coaches the National Science Bowl® Team, co-chairs the Liberty High School Science Department, and serves as the Professional Development Committee co-chair for Liberty Public Schools. She enjoys travel in her spare time and leads a People to People Student Ambassador delegation in the summer.

Team Members — John Ahlfield, a senior, is returning **▲** for his second National Science Bowl® competition. He plans to attend a four-year university in the fall to major in chemical engineering. John has participated in Scholar Bowl and Science Bowl for three years, and has served as captain for the past two years. In his free time, he enjoys playing ultimate Frisbee with his friends and spending time with his Labrador retrievers. He is an avid reader, eagerly awaiting the final Harry Potter book, and is reading The Wheel of Time series in the interim. Shane Daniel, a senior, has participated in a variety of extracurricular activities including Science Olympiad, Future Business Leaders of America, Scholar Bowl, and Science Bowl. Recently, Shane has taken an interest in producing electronic music and the science of acoustics. He hopes to attend the University of Chicago in the fall.

Senior Stephanie Hull is returning for her second National Science Bowl®. Stephanie is an active member of Scholar Bowl, Debate, Model United Nations, Young Democrats, Orchestra, and Girl Scouts. In her free time, she enjoys reading and playing with her puppy, Oscar. She is also eagerly awaiting the final Harry Potter book. In the fall, Stephanie plans to attend either Grinnell College or William Jewell College and intends to major in biochemistry with a premedical emphasis. David Klco, a senior, is the newest member of the Science Bowl Team. At school, David participates in Scholar Bowl, Model United Nations, and World Quest Knowledge Bowl. In his spare time, David enjoys skiing, rock climbing, and reading. He is a passionate environmentalist, seeking changes in current local, national, and global environmental policies. He plans on attending the University of Michigan School of Engineering in the fall to pursue a degree in chemical engineering. After college, he hopes to join the Peace Corps to better serve the world community. Senior Ammon Sarver has a multiplicity of interests, ranging from ballroom dancing to ultimate Frisbee, and possesses a smattering of experiences from many areas in between. After seven years in the Boy Scouts of America program, he recently achieved the rank of Eagle Scout. He enjoys mathematics, chemistry, and physics. He intends to major in one of these fields at Brigham Young University. Ammon expects to have many careers but has ardently decided he will become a teacher later in life.

2007

National Science Bowl® Program

Miami Palmetto Senior High School — Miami, Florida

Florida Solar Energy Center



Team Members — *Steven Bronson* is a senior focusing in mathematics both in classes, such as Multivariable Calculus and Differential Equations, and in competitions, such as FAMAT competitions, the David Essner competition, and the AMC. He has extended these ambitions to science by participating in the FIU computer programming competition, achieving USABO semifinalist status, and as a member of the National Science Bowl® Team. He will attend Florida State University for undergraduate studies, and in the future he hopes to continue studies at M.I.T. and major in mathematics. He plans on becoming a computer programmer. *Yunxin (Joy) Jiao* is a junior with interests spanning from art and music to math and biology. She has played violin for seven years, and piano for two. She is also involved in several independent



Left to right: Alexander Li, Joy Jiao, Jason LaRue, Phillippe Siclait, Steven Bronson, Dr. Susie Kamons (Coach)

research programs in biomedical sciences. In addition to art and science, she is an avid policy debater, placing in the top 20 novice teams in the nation at the 2005 Woodward Invitational event. Jason LaRue, a senior, is what Iago might refer to "as a great arithmetician." This is his third time at the National Science Bowl® as a competitor. He enjoys collecting Abstract Algebra textbooks and plays the clarinet. He will be attending Harvard University in the fall. Alexander Li is currently a junior and loves science in general, but his favorite and strongest area is biology. Nothing seems to fascinate him more than the intricate and fragile networks of the life that surrounds him. He has been a semi-finalist in the USABO exams for the past two years and is also a member of the 2007 first place Miami-Dade region Envirothon Team. He is involved in the Varsity badminton team and has attended various piano competitions, winning several awards. Alex plans to attend Harvard to major in medicine or biotechnology. Phillippe Siclait is a senior, and during his free time enjoys programming, playing guitar, and keeping up with events in American politics. He is first vice president of Phi Beta Chi (Palmetto's Science Honor Club) and holds positions in Science National Honor Society and American Technology Honor Society. His favorite subjects include all of his math and science courses, and he is planning to attend either M.I.T. or Harvard in the fall.

Team Coach — *Dr. Susie Kamons* holds ▲ a B.S. from Carnegie-Mellon University, and both M.P.H. and Dr.P.H. degrees from Columbia University School of Public Health. She was a member of the research faculty of Harvard University and Cornell Medical School. She has been a teacher in the Gifted and Science Departments of Miami Palmetto Senior High for 15 years, and previously taught at Florida International University for eight years. In addition to Science Bowl, she coaches a Chemathon Team, which has won county championships for the past six years. She enjoys being a part of an enriching community with dedicated peers and a highly motivated student population.

SCIENCE

Mill Valley High School — Shawnee, Kansas

Kansas City Plant



Left to right: Mary Beth Mattingly (Coach), Ted Hilk, Andrew Waters, Ashley Jones, Nathanael Spaulding

Team Coach — Mary Beth Mattingly attended Dominican University in River Forest, IL, receiving a B.A in chemistry and biology. She continued with graduate studies at the University of Notre Dame, receiving a M.S. in organic chemistry. She was a laboratory technician in radioimmunoassay studies of parathyroid hormone, and she worked as a researcher in studies of the active site changes in mitochondrial aspartate aminotransferase using 31P NMR. She also taught General Chemistry at Dominican University. Mary Beth enjoyed tutoring, and found helping others learn chemistry was rewarding. She enjoys camping, hiking, gardening, reading, and needlecraft arts, especially cross-stitch. She finds Galileo's work on falling bodies, Faraday's studies of electromagnetic induction, and Maxwell's studies on electricity and magnetism uniting them into a single theory of electromagnetism to be some of the most significant advances in science.

Team Members — *Ted Hilk* is a sophomore. His favorite subjects are mathematics, science, economics, and debate. He is an Eagle Scout, has a 4.0 GPA, scored 34 on his freshman ACT and 234 on his sophomore PSAT, and is three years ahead in both mathematics and science. He is the vice president of the FIRST Robotics Team, a two-time participant in the Quiz Bowl state championships and the QUEST televised Quiz Bowl competition, has participated in Science Olympiad for two years, one at the state level, and is the Student Council's Quiz Bowl representative and the sophomore officer for Youth Court. He also participates in Debate, Marching Band, Concert Band, Jazz Band, and Pit Orchestra. He plans to attend Harvard or M.I.T. and intends to double major in engineering and business administration or law. *Ashley Jones* is a junior

and her favorite subjects include math and English. She is the managing editor of the 2007 JAG Yearbook. She participates in Scholar's Bowl, softball, yearbook, and NHS. In the future, she plans to attend the University of Kansas and major in interior design, with a minor in business. Nathanael Spaulding is a senior. He is a highly motivated individual who is dedicated to using his talents to serve others. He participates in many activities, including NHS, band, Scholars' Bowl, Robotics, and various math contests. He has earned numerous awards, such as National Merit Finalist status and Kansas Governor's Scholar. Nathanael finds fulfillment in being an active member of JAGS and LITE Team, both community service clubs, as well as volunteering time at Lakeview Retirement Homes on the weekdays. He remains undecided on a college, but he wishes to major in physics with a minor in mathematics, planning to go into scientific research. Andrew Waters is a junior. He is a Boy Scout and has attained the rank of Eagle Scout. He has been active in scouts since he was in first grade. He is also a member of the National Honor Society, Quiz Bowl, and Robotics Team. He plays the tenor saxophone in Jazz Band, Marching Band, and Concert Band. He was chosen this year to be a member of the KU Kansas City Youth Symphony. He is interested in a career in biochemistry with an emphasis on research. In his spare time, Andrew likes to work with computers.

2007

National Science Bowl® Program

Mira Loma High School — Sacramento, California

Western Area Power Administration — Sierra Nevada Region

Team Members — *Erik Chen* is a senior. He likes mathematics. In his spare time, he likes to play piano, read, and play chess. He hopes to major in mathematics or science. *Anisha Deshmane* is a senior. Anisha is a vegetarian, and she loves traveling to foreign countries, volunteering at Saddle Pals Therapeutic Center, and likening normal life to Harry Potter (Ctenomorpha chronus is really a bowtruckle!). Her passion is architecture, but she loves studying astronomy and anthropology. *Joanna Nishimura* is a senior. She is actively involved in performing community service during the weekends and enjoys playing tennis on her school team. Joanna loves spending time with her friends and cats, and is undecided about her career and major. Currently her favorite subjects are biology, English, and history; however, she also enjoys learning about earth

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Left to right: Erik Chen, Joanna Nishimura, Steven Wu, Anisha Deshmane, Akhil Sundararajan, James Hill (Coach)

science and ecology in her spare time. *Akhil Sundararajan* is currently a junior. He has a sincere passion for the physical sciences and aspires to work for NASA one day. Aside from his academic life, Akhil plays the violin, plays basketball, and enjoys South Indian classical music. Science Bowl has proven to inspire him to appreciate the wonders of natural phenomena. He is of the optimistic type, and credits the growth of his love for the sciences to the induced motivation of Science Bowl. *Steven Wu* is a senior. He enjoys basketball and piano in his spare time, and has spent time doing volunteer work at a children's hospital in China. His primary interests in science are chemistry and biology, although he is so far uncertain about his chosen major or profession, other than that it will be in science.

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 and the NorCal Science Olympiad. In his spare time, he enjoys playing piano, photography, marine aquaria, traveling, and his four Labrador retrievers.

SCIENCE

Mission Early College High School — El Paso, Texas

Society of Hispanic Professional Engineers — New Mexico State University AHETEMS, Inc.



Left to right: Ismael Mendoza (SHPE Region III Vice President), Jonathan Fernandez, Daniel Quiroga, Andrew Waxman (Coach), Roberto Viña-Marrufo, Walter Ray (Coach), Armando Garcia, Dr. Stephen Castillo (Dean, College of Engineering)

Team Coach — Andrew Waxman has taught for six years, with this year being his first at Mission Early College High School (MECHS). He earned his B.S. in physical education from NMSU, a M.Ed. from Wichita State University, and he is currently working on a M.A.T. in mathematics at UTEP. His first teaching experience was substituting in an eighth grade science class, and he knew immediately that he belonged in the science classroom. Over his first three years of teaching full-time, Andrew worked with an excellent math teacher, Frank Savina, who rekindled his fascination with mathematics, which led him to acquire certification as a math teacher. He has been double-dipping ever since.

Team Members — Freshman *Jonathan Fernandez* has ■ always been interested in learning. As a first-generation MECHS student, his favorite subjects are math and science. In elementary school, he was leader of the WATS team, an organization that helped ensure the minimum amount of electricity was used in the school. At MECHS, he has been active in Student Council, and served as commissioner of the MECHS Fantasy Football League. Currently, he is a member of the Chess Club at El Paso Community College and the UIL Number Sense Team. He is still undecided on a career, but has interests in law, psychiatry, and teaching. Armando Garcia is a freshman. He has a tremendous love of mathematics, and although he is still uncertain on his career choice, it will certainly be related to math. Armando is among a select group of students chosen to attend a college speech course on the El Paso Community College campus. The course is taught by a college professor and the class includes regular college-age students. Additionally, Armando is a member of the MECHS UIL Math Team. He has also served as a campus host and speaker to people

visiting the MECHS campus. *Daniel Quiroga* is a freshman whose favorite subjects are math, science, and world geography. He has a particular love of math, and has applied for an honors program in science. Additionally, he is seeking entry into an advanced mathematics program. Proud of his Mexican heritage, Daniel is fully bilingual in English and Spanish, and plans to seek scholarship opportunities available to Hispanic students. He plans on majoring in engineering after graduation, with a focus on computer engineering. He has aspirations of pursuing a Master's and a Doctorate in engineering and physics. Freshman *Roberto Viña-Marrufo* has been fascinated by science since early childhood; always inquiring about everything, science intrigued Roberto. He has been awarded the U.S. Achievement Academy National Mathematics Award and has been recognized by "Who's Who Among Outstanding American Middle School Students." Some of the scientific discoveries that Roberto finds important are the development of antimicrobial paint, which punctures bacteria and viruses with a "sharp" polymer causing immediate death of the pathogen, the use of Lactobacillus jensenii in delivering microbicides against HIV and other microbes, and the finding by the ASM that the Yucatan Peninsula impact did not cause the extinction of dinosaurs.

2007

National Science Bowl® Program

Mission San Jose High School — Fremont, California

Sandia National Laboratories — California

Team Members — *Marianna Mao* is a sophomore who is interested in math, physics, and writing. She is a USAMO-qualifier and a USAPhO-semifinalist. She currently volunteers at Hopkins Junior High as the MATHCOUNTS Team assistant coach. Other than science and math competitions, she also participates in LD debate, is treasurer of the Speech and Debate Club, and is a writer for the school paper. She has been playing piano for seven years and is about to take her panel test. While she presently does not know what she wants to be, she does know that she wants to make a difference. *Christopher Tandiono* is a senior who has great passion for science, especially chemistry, biology, and astronomy. He is the president of his school's Academic Challenge Club. For two consecutive years, his team won WonderCup, a science competition dedicated to

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BOWL®

Left to right: James Payette (Coach), Max Wu, Christopher Tandiono, Kevin Tseng, Lyndon Zhang, Marianna Mao

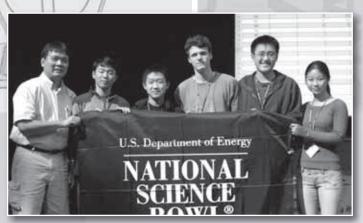
Carl Sagan. He is also a semifinalist for this year's U.S. Biology and Chemistry Olympiads. He enjoys singing in the school choir and playing piano in his spare time, and he volunteers to maintain the computers at his former elementary school. His future plan is to be a research scientist in the field of medicine. Kevin Tseng is a senior. He enjoys science, mathematics, writing, and reading. He has participated in various mathematics and science competitions, including the National Ocean Sciences Bowl and the Science Olympiad. On a recreational level, Kevin participates in basketball, journalism, and computers. Max Wu is a sophomore with great interest in the fields of biology, earth science, and electromagnetic theory. He has participated in both the National Science Bowl® and Science Olympiad for two years and is a USA Biology Olympiad semifinalist. Additionally, Max has played piano for eight years and the flute for four, and he has been a member of the California and El Camino Youth Symphonies for over two years. He hopes to conduct biomedical research in the future. Lyndon Zhang is a junior. As with the majority of participants in the National Science Bowl®, he is very interested in all aspects of math, science, and technology — with the exception of geology. In his spare time, he also enjoys learning about politics in an effort to keep current with the world's major events. He has participated in a few competitions and won a few awards. His two major non-academic interests are Halo and Pokemon. He is not sure what to do with his future yet, but it is definitely going to be related to some area of science.

deam Coach — James Payette enjoys I the outdoors immensely and it was that passion for the outdoors that inspired him toward the field of biology. He has been teaching science for 39 years, and he knew he wanted young students to appreciate nature's beauty and to be curious about the world around them with the sciences. Along with teaching science he also taught photography for 25 years. He attended California State University and the University of San Francisco. His hobbies include photography, tennis, hiking, and now bringing his grandchildren around with him to appreciate the beauty of nature. The advancements with DNA technology, the Human Genome Project, and the medical advancements are areas that continue to spark his curiosity.

SCIENCE

Montgomery Blair High School — Silver Spring, Maryland

Montgomery College



Left to right: Tran Pham (Coach), Sam Du, Junqian Zhang, Max Wolf, Jeff Guo, Christina Zou, Not pictured: Susan Ragan (Coach)

eam Coaches - Tran Pham is a math, chemistry, and computer science teacher at Montgomery Blair High School. He has been teaching at MBHS for 15 years. Susan Ragan has taught math and computer science at both the high school and college level for over 25 years. She has Master's degrees from Bowling Green State University in Ohio and The Johns Hopkins University in Maryland. For the past 12 years, she has worked with science educators to demonstrate how computational models may be used in science instruction to illustrate and clarify complex concepts. She believes that the application of math and computer modeling to previously unsolvable problems in science will open the door to future discoveries.

Team Members — *Sam Du* is a junior. His interests include piano, guitar, debating, and running. His favorite subjects are biology and chemistry. He hopes to obtain a graduate degree in a biomedical-related field. *Jeff Guo* is a senior. He counts biology, chemistry, and geology among his favorite subjects. Jeff is managing entertainment editor of his high school paper, *Silver Chips*, and also an eager Esperanto enthusiast. In his spare time, Jeff can usually be found lost in thought or digesting the latest New Yorker — or both. Jeff also enjoys photography, volleyball, and playing the piano. He was a regional finalist in the Siemens competition for his individual project, which explored the targeting of HIV-1-infected cells through manipulation of the Rev-RRE interaction. Senior *Max Wolf* likes hiking, reading, rock climbing, chess, playing PC games, and

sleeping in all the time not taken up by the previous activities. He plays volleyball on the school and the Junior Olympic teams, and participates in Math Team. He also enjoys playing his acoustic guitar and solving really big jigsaw puzzles. Max enjoys all the sciences, but cell physiology and quantum physics especially spark his interest. He hopes to get into Stanford and major in molecular biology, but spend time studying physics as well. Some interesting facts include him living in Russia for seven years and having an interest in the way people think. Jungian Zhang is a junior. His interests and hobbies include listening to music, football, watching television, playing video games, and reading. Jungian also plays the electric guitar and enjoys authentic Chinese food. His favorite subjects are chemistry, biology, and math. He does not know which university he will be attending but he intends to pursue a career in the field of medicine. Christina Zou is a junior and is in the Math, Science, and Computer Science Magnet Program. Her interests and hobbies include reading, writing, Spanish, computer programming, swimming, and traveling. She is involved in Math Club, Physics Club, Science Bowl Team, Computer Club, Spanish Honor Society, Silver Quest Magazine, and swimming team. She plays piano and performed at Carnegie Hall and the John E Kennedy Center. She also plays piano in community centers, museums, and various embassies. Her favorite subjects are math, physics, and biology. She likes to spend some quiet time reading novels and poems. She plans to pursue a career in either math or biomedicine.

2007

National Science Bowl® Program

Moscow High School — Moscow, Idaho

U.S. Department of Energy — Idaho Operations
Office

Team Members — *Max Bartlett*, a junior, lists his interests as books, computers, video games, and politics. His favorite books are *The Hitchbiker's Guide to the Galaxy, Night Watch, The Handmaid's Tale, To Kill a Mockingbird*, and *Watership Down*. His interests in politics, according to Max are "mostly left, sometimes right," but vary depending on the issue. His pet political issues are the Patriot Act and the erosion of the rights of the Ninth Amendment. His pets include a rabbit and a cat. *Jack Fellman* is a junior and considers himself to be very social and liberal. He has volunteered with the local Democrats for three years and plans on attending college, hopefully at Washington University in St. Louis, and majoring in political science. He would also like to attend law school. In addition to politics and law, Jack loves to

Left to right: Jack Fellman, Gretchen Wissner (Coach), Nathan Mulch, Emily McGuire, Max Bartlett, Linyi Gao

play tennis. This is his third year of competing in the INL Scholastic Tournament/National Science Bowl®. Born in Hangzhou, China, sophomore *Linyi Gao* moved to Connecticut when he was two. In 1999, he moved to Moscow, ID. His favorite subjects are science and math. In his spare time, he enjoys being outdoors, playing basketball, gardening, and fishing. He also enjoys table tennis and piano. Playing soccer, piano, viola, and relaxing are some of the favorite things that sophomore *Emily McGuire* likes to do. She loves expressing herself through art, and she finds most of her spare time is spent studying, but she also loves to volunteer at the hospital. As far as career desires, Emily would like to do anything that improves the lives of others. Junior *Nathan Mulch* is a black belt in Kyokushinkai Karate and a member of the Knowledge Master Open and Future Problem Solving programs. He is also the co-head of the Creative Writing Club and founder and head of the Language Creation Club at his school. Nathan likes playing trading cards and role-playing games and intends to go into linguistics or cryptography.

Team Coach — Gretchen Wissner has **■** taught for 30 years, primarily as a K-6 gifted education facilitator. It has been a joy to guide and nurture very bright, curious students who are able to understand much more than we often realize. Recently, she moved to the high school level where she coaches academic competition teams and facilitates students in areas of student interest. She has a B.A. in history from Andrews University (Michigan) and a M.Ed. from the University of Montana. While her formal education is not in science, she is fascinated by current brain research, particularly as it relates to learning and intelligence, and by DNA research and its applications in forensic and medical science.

SCIENCE

Naperville North High School — Naperville, Illinois

William Fremd High School



Left to right: Kevin Farrell (Coach), Vamsi Aribindi, Anna Gormley, Devneel Vaidya, Jeff Shih, Tim Wang

Team Coach — *Kevin Farrell* has been teaching physics for nine years and has been the Science Bowl coach for four years. This will be his second trip to Washington's National Science Bowl®. He has a degree in physics at the University of Arizona and has a Master's degree from Northern Arizona University. His favorite science minds are Maxwell, Faraday, and Einstein. He enjoys fishing, tennis, and watching baseball and football. Go Cubs!

Team Members — Junior *Vamsi Aribindi* is an aspiring engineer, although he is unsure as to what topic he wishes to specialize in. Aerospace currently heads the list, followed by mechanical and biomedical. He is one of the Science Olympiad team captains, and is a member of the JETS team. He is a SCUBA diver, fencer, and Boy Scout. Junior *Anna Gormley* has not the faintest clue as to what her future holds, though she is passionate about science, history, and literature. As yet another victim of the overloaded schedule, she also is an active member of Science Olympiad (a captain), Scholastic Bowl, National Honor Society, and Latin Club. Outside of school, Anna tap-dances and tutors, as well as volunteers with various community service organizations. *Jeff Shib*, a senior, intends to pursue mechanical engineering in college.

Throughout his life, he has been very involved with both music and science. He currently plays trombone in the Elgin Youth Symphony Orchestra, and has played piano for 13 years. When he first came to Naperville North, Jeff established the Science Olympiad Team with his older brothers, and ever since has held a strong interest in applied science. It may seem ironic that junior *Devneel Vaidya's* future career lies in business. Nevertheless, he holds a passion for science, and this is best expressed through participation in Science Bowl. Apart from this extracurricular activity, Devneel is a team captain on the Junior Varsity Scholastic Bowl Team, a National Honor Society member, and a reputed Web developer. In his future, senior *Tim Wang* is going to be a doctor; there is no doubt about that. Tim is involved in several academic competitions, including Scholastic Bowl, Science Olympiad, and Certamen (Latin quiz bowl). His favorite activities include playing tennis and baseball and rooting for the Chicago Cubs.

2007

National Science Bowl® Program

North Hollywood High School — North Hollywood, California

Los Angeles Department of Water and Power

Team Members — Senior Anguel Alexiev has already earned early admission to Caltech next year. He is a Jack Kent Cooke Scholar, a member of the Science Olympiad Team, a participant in NASA's Space Settlement Design contest, and an AP National Scholar. Two years ago he attended the Summer Science Program in Ojai, CA. He plays the guitar and recently took a summer class in organic chemistry at Harvard. John Chen, a senior, is both a National Merit Finalist and a National AP Scholar. He is also a member of the tennis and Science Olympiad teams. He plays the piano and has earned his Advanced Certificate of Merit. He has qualified for the American Invitational Mathematics Examination for the last three years. He plays Ultimate Frisbee in his spare time. He was a member of last year's team that placed second at the National Science Bowl®. Andrew David, a senior, is in his second year on the Science Bowl Team, specializing in physics, astronomy, and math. He also plays in the Jazz

Left to right: Dr. Ed Krupp (Director, Griffith Observatory), Sharanelle Clark (Hitachi), Emily Law, Anguel Alexiev, James Kim, Andrew David, John Chen, Altair Maine (Coach), Walter Zeisl (LADWP Regional Coordinator)

band and on the Varsity baseball team. He enjoys folding origami flowers for his girlfriend and looking at Albireo through his 10-inch Dobsonian telescope. *James Kim*, a senior, is both a National Merit Finalist and a National AP Scholar. He is an Eagle Scout and earned a state league championship in trap shooting. He is also a member of the Science Olympiad Team and is the vice president of the school's chapter of the California Scholarship Federation. He qualified for multiple years for the American Invitational Mathematics Examination. *Emily Law*, a 17-year-old senior, has loved biology since an early age and is now interested in becoming a pediatric intensivist. In addition to volunteering in the Pediatrics Department, she is involved in the Red Shirt Internship Program at Valley Presbyterian Hospital. She has been successful both in high school as president of the California Scholarship Federation, editor-in-chief of the magnet publication *The Annual*, and Science Olympiad member. Outside of high school, she is a leader in the International Order of the Rainbow for Girls, a non-profit community service organization. She also enjoys playing the violin and piano. Her college plans are pending.

Team Coach — Altair Maine earned his B.S. in geology from CSULA in 1996 when he was 16 years old, and began a Ph.D. program in geology at Caltech. He soon decided that teaching had more personal appeal than research, and that he could have more of an impact at the high school level than in a college or university. He would argue that the three most important scientific advances were the development Newtonian mechanics, Maxwell's electrodynamics, and the transistor, but it is rather silly to condense the history of science to such a short list. He enjoys fencing, reading voraciously, fiddling with his telescope, hiking, and playing Ultimate Frisbee with his students.

SCIENCE

Parkview High School — Lilburn, Georgia

Armstrong Atlantic State University



Left to right: Catherine Rowan (Coach), Andrew Wilmot, Zane Blanton, Murat Johnson, Linda Liu, Dipesh Patel, Steve Kuninsky (Coach)

Team Coaches — Steve Kuninsky has L been teaching at Parkview High School for five years; he currently teaches Physics and AP Biology. He earned a B.A. in biology from Vanderbilt University and a M.Ed. from Georgia State University. Mr. Kuninsky considers the three most important scientific discoveries to be Gregor Mendel's laws of inheritance, Robert Koch's germ theory of disease, and Watson and Crick's discovery of the structure of DNA. His hobbies include running, reading, and working in the yard. Catherine Rowan has been teaching at Parkview for over two years. She is currently teaching biology but has previously taught anatomy and physiology. Mrs. Rowan earned her B.S. in biology at Elon University and a M.Ed. from Georgia State University. Three discoveries that she believes are most important in the science field include the discovery of the DNA and its structure, mapping of the human genome, and the technique of gene therapy. When not teaching, she enjoys spending time with her husband, Josh, playing with her two dogs, and traveling the world.

2007

National Science Bowl® Program

Team Members — Senior Zane Blanton does math as a ■ member of the aptly named Math Team and performs community service in the name of math as part of Mu Alpha Theta. For intercultural variety, he occasionally attends French National Society. Zane has also been sighted submitting short stories to writing contests and even has attended Creative Writing Club once. There has been no word on his success so far in these creative endeavors. His college choice has not yet been made, but there is a fair chance that he will attend the Georgia Institute of Technology. Sophomore Murat Johnson is an avid astronomer. He actively participates in the Academic Team and Science Olympiad at Parkview. He is currently unsure of where he will go after he graduates, but he knows that he will major in astronomy or astrophysics. Murat's favorite subject in school is chemistry, but he would like

to be an astrophysicist after college. On clear nights, he enjoys lying in his front yard and identifying all of the constellations and their alpha and beta stars. Linda Liu, a senior, has been studying mathematics since she was three years old. She has qualified for the USA Math Olympiad since her freshman year and has attended the Math Olympiad Summer Program as well as the Gathering for Gardner math conference. As a GA ARML member of five years, Linda has been a consistent high scorer, making the top 15 individually at the national competition. Linda is a Black Belt 1st Gup in Tae Kwon Do and is a certified judge for AAU tournaments. She has also performed Chinese yo-yo and freestyle hip-hop dance at Harvard University. Dipesh Patel is a sophomore who joined the Science Bowl Team as a freshman. He enjoys all fields of science, including biology, chemistry, and physics. He is a member of Beta Club and Panther's of Distinction, parliamentarian of his local TSA chapter, and has been president of the Debate Team for two years. In his spare time, he enjoys playing golf, basketball, and hanging out with friends. Dipesh is now considering going to Georgia Tech to study in the field of aerospace engineering, or going to medical school to study cardiology. Senior Andrew Wilmot was born in Ann Arbor, MI, and moved to Georgia at a young age. He was first introduced to science as a child staying for the day with his father in some biomedical research laboratories, and has not yet turned back. Andrew is highly interested in pursuing a career in physics, or at least an undergraduate degree. He will likely end up attending Emory University, where his father is currently employed.

Poudre High School — Fort Collins, Colorado

Western Area Power Administration — Rocky Mountain Region



Team Members — *Patrick Chaffey* is a 17-year-old senior and currently enrolled in the IB program. In addition to Science Bowl, he participates in Science Olympiad. He enjoys camping and hiking in the nearby Rocky Mountains, and practicing his music listening skills. Although he would like to do these more often with his friends, he is usually preoccupied with homework. He is planning to pursue a career in molecular biology or biochemistry somewhere in the future, but has not figured out a specific location as of yet, perhaps Harvey Mudd. *Sam Elder* is a junior who does everything his parents will let him. Besides Science Bowl, Sam takes part in his church youth group, Science Olympiad, Ocean Bowl, the Poudre Symphonic band, and recreation soccer and baseball, but his real love is math. Sam is a member of the Colorado Math



Left to right: Winston Gao, Logan Wright, Sam Sun, Sam Elder, Patrick Chaffey, Jack Lundt (Coach)

Circle, and has taken numerous math contests. He also likes to control other peoples' free time and get them to spend it doing math and science, as shown by the fact that he runs the Poudre Math Club, a chemistry study group, and weekly Science Olympiad event-specific practices. *Winston Gao* is an IB senior on his way to the University of Chicago next fall. His hobby is writing long biographies about his numerous athletic and academic achievements. *Sam Sun* is a senior who will be attending Franklin W. Olin College of Engineering in the fall. He enjoys pressing the big, red button. *Logan Wright* is a junior in the IB program. His interests include chemistry, physics, clouds, rocks, colors, shapes, and feelings. He participates in other science competitions such as National Ocean Science Bowl, and Science Olympiad. In his spare time, he is a Reformed Banjoist. His hobbies include a great variety of activities ranging from cloud watching and pretzel hoarding to violating the prime directive, which he excels at. He is interested in air and spacecraft and plans on pursuing a career in aerospace engineering.

ream Coach — Jack Lundt teaches chemistry at Poudre High School, and graduated from Colorado State University (not CU) with a degree in biology and a second in chemistry. He became a teacher to help students understand, appreciate, and enjoy the practical applications of science and math. A veteran of national competitions, he has taken students to National Science Bowl®, National Ocean Sciences Bowl, and National Science Olympiad. He enjoys hunting and fishing, so his spare time is spent in the Colorado Rockies with his llama pack string. When the snow flies, snowmobiles, skis, and snowshoes take over and the llamas hibernate.

SCIENCE

Pueblo Centennial High School — Pueblo, Colorado

National Renewable Energy Laboratory



Left to right: Doug Hooker (DOE Golden Field Office), Lisa Marquez, Meara Christian, Mitch Montoya, Jay Mead (Coach), Jesse Hovis, Ben Pacheco, Luke Langston (Xcel Energy)

Team Coach — Jay Mead attended the University of Southern Colorado for both his B.S. and M.S.A.N.S. (Master's of science in applied natural science). His B.S. was in chemistry with a physical science minor and his M.S. was in biochemistry. Jay worked for five years in seismic oil exploration. He also worked for three years in biochemical research as an undergrad, three summers as a research fellow (characterization of tetrazines, silica surface characterization, and the brain chemistry of morphine addiction in rats), and four months as a quality control chemist at a power plant. The birth of Jay's first daughter was the reason he chose to change his career to one that would contribute to society. Jay enjoys hiking, fishing, skiing, golf, and disk golf. He feels that three important scientific discoveries/achievements were PCR, the Hubble telescope, and magnetic imaging.

Team Members — Senior *Meara Christian* devotes her I time to multiple areas of interest. In addition to Science Bowl, Meara participates in Science Olympiad where she has been a state champion and medalist. She is also actively involved in Speech and Debate, FBLA, Spanish Club, tennis, volleyball, and band. Currently, she is the president of Centennial's National Honor Society. Meara aspires to study biochemistry in college and eventually share her love of life in the medical field. She enjoys traveling and spending time with her family in beautiful Colorado! Jesse Hovis is an 18-year-old senior and has been playing Varsity tennis for three years. He plans to attend University of Colorado at Boulder and hopes to double major in integrative physiology and mathematics. He takes part in FBLA and is a two-time national qualifier and a two-time sixth place finisher at the NLC. This is his third year on the Science Bowl Team and he is grateful for the opportunity to take part in this

great event. Senior Lisa Marquez enjoys a great variety of interests. In addition to Science Bowl, Lisa participates actively in volleyball, track and field, Key Club, Spanish Club, Science Olympiad, FBLA, and is currently the vice president of Centennial's National Honor Society. She has won state championship titles in FBLA and mountain biking, and has been ranked among the top five in the state of Colorado for the pole vault. She is also an active volunteer in her community and holds a job at a local bicycle shop. She hopes one day to combine her love of science, people, and athletics in a vocation in sports medicine. Senior *Mitch Montoya* is a dedicated student that is involved in a wide array of activities. Along with Science Bowl, Mitch is an active member in FBLA, National Honor Society, Spanish Club, Speech and Debate, and Science Olympiad. As a tennis player, Mitch played number one singles for Centennial for four years and he is an editor for the school newspaper, The Centennialight. He is also a featured columnist for the city newspaper, The Pueblo Chieftain. As a dedicated volunteer, Mitch has helped with multiple community service projects. Combining his interest in medicine and journalism, Mitch aspires to be a doctor and a freelance journalist. Ben Pacheco is a 17-yearold senior. Currently, he is scheduled to attend college at the University of Colorado at Boulder in the area of aerospace engineering. His favorite subjects include astronomy, physics, and chemistry. Ben participates in FBLA and has qualified for nationals three times; he intends to use this to achieve a Business award through the collegiate version of FBLA. Other clubs and extracurricular activities that he has attended were Science Bowl and DECA. Most of all, he intends to use all this to attend college with honors and experience from his other college classes that he has taken through CSU-Pueblo. He likes dogs.

2007

National Science Bowl® Program

Pullman High School — Pullman, Washington

Pacific Northwest Site Office

Team Members — *Thilini Ariyawansa* is a senior who enjoys courses in mathematics and molecular biology. Thilini is an active member of the International Mornington Crescent Society and is known for her keen mastery of the Hapsburg Feint (under observation of Crockford's Second Stratagem, of course). She also participates in the Junior State of America and plays the piano. She plans to study genetics or cell biology, and elsewise aspires to become a continuity announcer for Radio Active. This is her second trip to National Science Bowl®. She plans to attend Harvard in the fall. Senior *Joshua Hughes* is the team's geology expert. In his spare time, when he is not being a busy, socially active senior, he writes novels of dubious artistic value, directs hit comedic plays, and eats gumbo and sushi at Ingmar's house. He is an avid bridge player and is actively

Left to pight: Parkage Handing (Cooch), Tany Via, Thilipi

Left to right: Barbara Harding (Coach), Tony Yin, Thilini Ariyawansa, Ingmar Saberi, Joshua Hughes, Randy Xun

involved in his church youth group. He has less of an idea as to what he is doing next year than he ideally should, although it will more than likely involve mechanical engineering at a university in the Pacific Northwest. This is his second attempt at fame and epic glory in D.C. Captain Ingmar Saberi is a senior and a fully-qualified Gnostic Gastro-Gnomon Guru. At present, he displaces approximately 22,500 cubic inches of that deliciously bracing Washington atmosphere, and enjoys spending quality time in the company of physics, food, and other humans. He plans to attend Princeton. Junior Randy Xun is the team's logistics caretaker and the chemistry and biology buff. During his free time, he enjoys playing soccer and tennis. He is also an active member of his Key Club and Math Team. Before Randy dies, he wishes to move to Wisconsin and try every type of cheese ever made. For the more immediate future, Randy hopes to attend university in a metropolitan area. This is Randy's first visit to the National Science Bowl®. Senior *Tony Yin* is an Asian Canadian (as well as American) living in the U.S. Consistent with his friends' expectations, Tony loves over-achieving in his studies. He adores tennis and currently serves as the captain of the high school Varsity team. The TV show "Scrubs" has partially motivated Tony to become a doctor, and he is ready to partake in the cut-throat competition in college. For now, Tony is content with drinking vitamin water and watching epic movies like "300." This is his first visit to National Science Bowl®.

¬eam Coach — Barbara Harding ■ has held a variety of chemistry-related positions over the years. She received a B.S. in chemistry from Allegheny College, and did graduate work in education and pharmacology. She has held many sciencerelated jobs, including lecture-demonstrator for the Chemistry Department at Washington State University. After more than 10 years of keeping students awake in chemistry lectures, she returned to high school teaching, and has taught at Pullman since 1996. Now that her two children are grown, Barbara and her husband enjoy skiing, constant house remodeling, and indoctrination of her grandchildren to the sciences.

SCIENCE

Randolph School — Huntsville, Alabama

Alabama School of Math & Science



Left to right, Back row: Christopher Romanczuk, Jason Hon, Kurt von Laven, Garvin Wattuhewa (Regional Coordinator), Front row: Sami Ahmed, Amie Hsu, Meryal Smith (Coach), Angela Mollise (Moderator)

eam Coach — Meryal Smith received her B.S. from Louisiana State University and M.Ed. from Alabama A&M in science education, specializing in chemistry. Her great-grandmother, who taught in a one room schoolhouse in Kentucky, was her greatest influence in selecting a teaching career. She worked for several summers at Redstone Arsenal researching rocket fuels and linings for tanks and corrosion of various metals. She also did research at AVEX with testing of new solders not containing lead and their suitability with various circuit board coatings. The discovery of antibiotics, new polymers, ceramics, and the human genome project are important discoveries. Her hobbies include travel, reading, and gardening.

Team Members — Junior Sami Abmed is never L pessimistic and even if he fails in the biggest lifeturning event in his life, he would just fight the pain and keep on going. His most favorite quote is from the book The Little Engine That Could, "I think I can, I think I can, I think I can!" Junior Jason Hon acts as the vice president of Randolph's Philosophy Club because he enjoys searching for the meaning of life; however, more so he enjoys surveying the mechanisms of life — biology. A student looking for Honor, he enjoys competitions like this, but looks forward gleefully to graduating with Honors from high school, college, and medical school, and being accepted into an Honorable scientific career. Honored with piano awards, he prefers blundering through pieces by ear. Amie Hsu is currently a junior. She is a junior representative for Randolph's Student Government Association, the treasurer for Science Club, a member of the National Honor

Society, and is on the Red Cross Youth Committee. She is also an avid participant of Science Olympiad, Math Team, and Scholar's Bowl. She plays piano and watches Asian dramas in her spare time, while also volunteering at her local library and hospital. Chris Romanczuk is a junior who has attended Randolph School since kindergarten. He enjoys math and science and is planning to study biomedical engineering. When not participating in Science Olympiad, Scholars Bowl, or Math Team, he volunteers as a member of the United Way Youth Leadership Council and Randolph's local chapter of Habitat for Humanity. Science and math do not help on the golf course though, where as a member of the Varsity golf team he sometimes has a hard time keeping the ball in the fairway. At home, he enjoys watching movies and taking on all challengers on Xbox Live. Junior Kurt von Laven hopes to major in environmental science at Harvard University. He wishes to become an astronaut after graduating from college and then move on to become a sustainable developer-scientific entrepreneur. For now, he enjoys courses and competitions in all scientific disciplines, and serves as the founding chairman of the Philosophy Club, the co-president of the Science Club, the vice president of the Foreign Language Club (as a second generation Costa Rican, he has great interest in Hispanic culture), and as a member of the Leadership Council's Environmental Subcommittee, Optimist Club, National Honor Society, Mu Alpha Theta, and Spanish Honor Society.

2007

National Science Bowl® Program

Red River High School — Grand Forks, North Dakota

Western Area Power Administration — Bismarck



Left to right: Rob Owens (Coach), Greg Brockman, Ben Sun, Peter Abrahamson, Katie Duchscherer, Brooke Helgerson, Dave Nowatzki (Coach)

Team Members — Peter Abrahamson is a junior. He L currently has not held any offices and is happy about that. However, he is in Boy Scouts and is currently working on obtaining the rank of Eagle. After high school, Peter plans on becoming a rock star, and if that fails, he will attend college...somewhere. In his free time, Peter enjoys listening to rock music, playing video games, and sleeping. Peter also currently plays in a local metal band; they are currently working on writing their own music. Greg Brockman is a senior. He attends most of his classes at the University of North Dakota for dual credit. He is currently taking Russian and Latin and would enjoy finding a native speaker of either language with whom to practice. This past summer, Greg participated in the International Chemistry Olympiad in Korea. He was also a finalist in the Intel Science Talent Search this school year. Katie Duchscherer is a sophomore. In

school, she enjoys pre-calculus, chemistry, and art. She has earned many awards, including first place at the 2007 Grand Forks math track meet in both team and individual competitions. She also received second place individually at the UND math track meet, where she competed as a junior; her team received first place. In addition to Science Bowl, Katie has participated in the Knowledge Master Open throughout high school. She plans to major in astrophysics and theoretical physics in college. This is the second year that Katie has been on the Science Bowl Team. Brooke Helgerson is a junior. Her favorite subjects include math, art, music, and science. She is a member of the National Honor Society and is involved in many music programs both in and out of school. She plays the flute and violin, and has also been involved in tennis. She volunteers at her church, where she plays the flute for many services throughout the year. She plans to attend a university next year, and is thinking about going into architecture or medicine. Ben Sun is a freshman. He has many academic interests, with math, science, and geography as his favorites. He has won several regional and state level math competitions. He was the runner-up sweepstakes winner at the state science fair in 2006. Ben also loves music. He plays both violin and piano, and was the concertmaster of the ND State Honors Orchestra. Ben was named the ND state honoree for the 2006 Prudential Spirit of Community Award for his volunteer work. He also received the President's Volunteer Service Award.

Team Coach — *Rob Owens* has lived in North Dakota all his life. He teaches biology in Grand Forks, ND. He has two children, Seth, who is six, and Sydney, who is three, with a new one coming in September. His wife, Ann, is a physician's assistant. Rob graduated from Jamestown College with a degree in biology. He decided to become a teacher because he felt he could connect with students and excite them about science. The three most important discoveries are fire, pasteurization, and the microscope. His hobbies are hunting, wrestling, and being a good husband and dad.

SCIENCE

Regina Education Center — Iowa City, Iowa

Ames Laboratory



Left to right, Front row: Vanessa Shiu, Peter Montag, Wes Hottel, Back row: Barb Reilly (Coach), Phil Ward, Joshua Modrick, Tom Barton (Ames Lab Director), Not pictured: Joseph Modrick (Coach)

Team Coach — Joseph Modrick is an Assistant Professor in the Department of Radiation Oncology at the University of Iowa Hospitals and Clinics. He has a Ph.D. in medical physics from the University of Wisconsin in Madison. He ensures that cancer patients receiving radiation treatments receive the correct amount of radiation and provides didactic lectures on radiation therapy physics. He was most influenced to become a science teacher by his high school physics and calculus teachers. The three scientific discoveries he considers most important are Emmy Noether's theorem, Roentgen's discovery of x-rays, and Feynman's quantum electrodynamics. His hobbies include collecting spheres and zymurgy.

Team Members — Senior Wes Hottel is currently Laking five AP classes. His favorite subject is biology. Wes is a member of the Quiz Bowl Team, the Math Team, the JETS Team, and the golf team. He is involved in Key Club and National Honor Society, as well as volunteering at the University of Iowa Hospitals and Clinics and Mercy Hospital. Wes is a self-proclaimed certified expert on "The Simpsons" and "Family Guy." Wes will attend the University of Iowa and major in biology. Future plans include attending medical school and becoming an anesthesiologist. Senior Joshua Modrick is active in Quiz Bowl, science competitions, Pep band, Jazz band, and Key Club, and is a member of the school's soccer team. Josh is the drummer in "Holy Rollers," Regina's liturgical music group, and in his own rock band "Mistaken For Heroes." He is a National Merit Finalist who will have taken nine AP courses by graduation, including AP Biology, AP Chemistry,

and AP Physics. Josh is known on the team as a Monty Python aficionado. After graduation, Josh plans to attend Notre Dame or the University of Iowa and study pre-medicine. Peter **Montag** is a senior who also attends the University of Iowa taking physics and math courses. Peter has participated in numerous scholastic competitions. In the past two years he was the best individual in the regional Great Plains Math League. Peter is a member of Regina's wrestling team and is also an accomplished pianist. In his spare time, he makes crossword puzzles for the school paper. Peter is a member of the Quiz Bowl Team, Math Team, and JETS Team. Peter is a National Merit Finalist who will pursue a degree at either Cal Tech or Stanford. Vanessa Shiu is a senior who plans on attending the University of Chicago and majoring in biology. Her favorite class is AP English Language because of her status as an avid reader. Vanessa's extracurricular activities include piano, newspaper (editor), track, speech, drama, Operation Smile, Math Club, and Key Club. Last summer she was a Howard Hughes Medical Institute intern in an ophthalmology lab at the University of Iowa. As a National Merit Finalist, Vanessa will be taking five AP exams this spring. Vanessa is a SHIU, not a LOAFER. Phil Ward is a senior who is involved in football, golf, Math Team, Quiz Bowl Team, National Honor Society, and Key Club. Phil is a guitarist in the school's liturgical group, the "Holy Rollers." He is a big fan of the Beatles and rock music. Phil is known for his geography prowess as evidenced by his top five placement in the state Geography Bee. He plans to attend either Marquette University or the University of Iowa and major in biomedical engineering.

2007

National Science Bowl® Program

Renaissance High School — Detroit, Michigan

National Organization of Black Chemists & Chemical Engineers — Midwest Region

Team Members — Kiara McCoy is currently a senior. ■ Her favorite subjects at school include Life Sciences, Mathematics, Global Issues, and Entrepreneurship. Besides her commitment to her Science Quiz Bowl Team, she is also the corresponding secretary of her school's National Honors Society Chapter and is part of her class' graduation committee. Outside of school, she is an active member in her youth program "Leaders of Tomorrow." After high school, she is planning to major in business management at Howard University in hopes of one day becoming a successful entrepreneur. Dijon Richardson is currently a senior. He also exemplifies leadership qualities amongst his peers. Having an accumulative 3.6 GPA, he takes his school studies very seriously. His favorite subjects include Advanced Placement Calculus, Chemistry, Advanced Placement Government, and Economics. Not only does he



Left to right: Dijon Richardson, LaDiamond Stanley, Lenae Wills, Christopher Waston, Kiara McCoy, Not pictured: Ermelda Polk (Coach)

excel in his studies, he also excels in his athletics. He is also a part of the Detroit Science Quiz Bowl. He plans to become a corporate lawyer and retire saving the lives of others. LaDiamond Stanley is currently a senior. Beyond participating in Science Quiz Bowl for the past five years, LaDiamond is captain of the RHS Varsity soccer team, a part of the RHS National Honor Society, Student Senate, City Wide Student Council, Optimist Club, and Latin Dance Club, and the Speaker of the House for the 2007 Michigan Youth in Government. Aside from her extracurricular activities, she is an active member of her church, where she plays the piano, and volunteers as a telephone operator at PBS. In the fall she will be attending Michigan State University where she will study political theory. Christopher Waston is currently a senior. Besides being a member of Renaissance's Science Quiz Bowl Team, he is currently a member of Academic Games, Chess Team, and Renaissance Engineering Mathematics and Technology Club. He was also a participant in Michigan State University's Broad Summer High School Scholars Program. He also takes many Advanced Placement classes. His favorite subjects include calculus, English, and physics. In the fall, he plans to attend Michigan State University to major in mathematics and education. Lenae Wills is currently a senior. Besides being captain of one of Renaissance High School's Science Quiz Bowl Teams, she is also an active member of the Varsity Cheer Team, Varsity soccer team, Renaissance Engineering Mathematics and Technology Club, and Students Against Destructive Decisions Club. Outside of school, she is a member of the Detroit Urban League. She also excels in academics. Her favorite subjects include chemistry and anatomy. She has Advanced Placement or Honors classes in both of these subjects. In the future, she plans to major in clinical laboratory science at Michigan State University.

ream Coach — Ermelda Polk has been teaching for 28 years. Presently she teaches INS, Chemistry, and Robotics at Renaissance High School (National Blue Ribbon School), where she currently serves as acting curriculum leader of the science department. She obtained her B.S. from Wayne State University and a M.Ed. from Cambridge College. Her decision to teach science stems from her desire to show minority students that they can achieve in science. She considers any discovery that enhances the quality of life for mankind important. She is the proud wife of 33 years to attorney Larry Polk and mother of four sons and one daughter. Her hobbies include reading, sewing, and traveling.

SCIENCE

R

Reno High School — Reno, Nevada

National Nuclear Security Administration — Nevada Operations Office



Left to right: Laura Kreidberg, Xuan (Ken) Wei, Kevin Marshall, Tyler Aas, Scott Baez, Mike Meinert (Coach)

Team Coach — *Michael S. Meinert* was raised on his father's scientific curiosity, which led him to a B.S. in geology and M.S. in hydrogeology at the University of Nevada, Reno. He worked in minerals exploration, marine geophysics, geological engineering, and hydrogeology. Most recently he studied arsenic speciation in a desert basin aquifer. Mr. Meinert has taught the sciences in Western Samoa, Bolivia, and at Reno High School, where he has been a chemistry teacher for 10 years. He thinks heliocentrism, evolution, and plate tectonics are the most important scientific discoveries. He travels to the ends of the earth and reads a lot.

Team Members — *Tyler Aas* is currently a senior. He is a member of the National Honor Society, a National Merit Finalist, and an Eagle Scout. He is involved in his school's Academic Olympics Team. In addition to his high school classes, he is also taking Advanced Calculus at the University of Nevada, Reno. In college, Tyler plans to major in mechanical engineering. On most winter weekends, one can find him volunteering as a ski patroller for a city-sponsored children's ski program. In his free time, Tyler enjoys snowboarding, playing piano, and working with computers. *Scott Baez* is an 18-year-old senior who is competing in the Science Bowl for the first time. He has been involved in and enjoyed many extracurricular programs in high school, including Academic Olympics and an externship in Washoe Medical Center's intensive care

unit. Scott is heavily involved in his school's newspaper, The Red & Blue, working as design editor and sports photographer. Scott enjoys listening to music, as well as creating it as an organ player in a band. He considers most important things in his life to be contained on his iPod. His educational plans are undecided. Laura Kreidberg is an overscheduled senior who somehow found time for Science Bowl in between practicing the violin and presiding at Amnesty International meetings. She can typically be found playing Boggle, quipping, wearing tights, or reading a book by Thomas Pynchon that no one has ever heard of. She is going to Yale next year, where she will likely major in astronomy and physics. Among other things, she approves of Stephen Colbert, Oscar Wilde, and Hamlet. Senior Kevin Marshall has enjoyed learning throughout his education. Among all topics, he really enjoys science and math. Specifically, chemistry and problem solving are at the peak of his interests. Kevin also enjoys and is inspired by poetry, famous literature, and history. The most notable of Kevin's accomplishments is his placing as a Western Regional Finalist in the Siemens Competition of 2006. Xuan (Ken) Wei is currently a senior. He has lived in the United States for five years now. Ken enjoys playing ping pong and hanging out with friends. He plans to major in chemistry in college.

2007

National Science Bowl® Program

Saint Mary's Hall School — San Antonio, Texas

San Antonio — Texas

Team Members — *Will Beason* likes mathematics, physical and biological sciences, and creative writing. He is star boy scout who has held the positions of SPL and ASPL. For extracurricular activities, he is in Boy Scouts, Robotics and Engineering Club, and cross-country. He plans to attend one of the Service Academics and become an astronaut. Sophomore *Bradley Belasco's* favorite subjects are mathematics and sciences. He is on the basketball team and is a member of the Student Council. He placed first in the ninth and tenth grade UIL science competition at John Jay High School. He has volunteered at Camp Independence and plans to attend college. *Michael Broker* is a junior and has been attending Saint Mary's Hall since eighth grade. He enjoys science and history classes and hopes to attend college and possibly

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Left to right: Hepsy Singh (Coach), Will Beason, Bradley Belasco, Himanshu Sharma, Jason Hearne, Michael Broker

study medicine after college. He also enjoys playing sports, especially baseball and cross-country. He feels fortunate to have been given the opportunity to compete at the National Science Bowl. *Jason Hearne* is currently a junior and has been attending Saint Mary's Hall since ninth grade. He enjoys sciences and mathematics and is currently taking AP Physics, AP Chemistry, and Calculus 3. He is a member of the Robotics and Engineering Club and has competed in many local UIL competitions. Freshman *Himanshu Sharma* was born in India and moved to Texas at the age of seven, where he attended Santa Rita Elementary School. He attended Keystone School for middle school and is now at Saint Mary's Hall School. He enjoys mathematics and science and plans on becoming a doctor.

¬eam Coach — Hepsy Singh has a ■ Master's degree in physics with a specialization in electronics from the University of Madras, India. She has taught physics at the college level both in India and in the United States. She is certified to teach composite science, composite mathematics, physics, chemistry, and physical science in the state of Texas. She sponsors the Robotics and Engineering Club. She is on the Scientific Review Board of the Alamo Area Science and Engineering Fair. She likes to watch NASCAR racing, listen to music, gardening, sewing, and knitting. She loves science, especially the exploration of space, astrophysics, and the theory of quantum mechanics. Science Bowl organizers need to show the students all the various avenues/opportunities available for them and also make them aware that being in science and engineering is cool and not nerdy, and also make the whole program an unforgettable experience for the students.

SCIENCE

Santa Monica High School — Santa Monica, California

Jet Propulsion Laboratory



Left to right: Alexandre Boulgakov, Marino Di Franco, Ben Lucas, Troy Sandberg, Bennett Rankin, Ingo Gaida (Coach), Not pictured: Eric Walser (Coach)

Team Coach — *Eric Walser* received a B.A. in biology from the University of Colorado in 1996. He has always known that he would become a teacher; he has an affinity for adolescents and desperately wants to combat the growing ignorance in this country. He considers the "discovery" of global warming to be most significant and believes it will be the catalyst for a new age of enlightenment. He has also been a professional musician for 20 years as a mandolinist.

Team Members — Alexandre (Sasha) Boulgakov is ▲ a junior. In his free time, he plays Math Blaster, and has the top score in his school of 3,500 students. When he goes to college, he plans on getting a joint degree in mathematics, computer science, and paleoclimatological effects on anthropology. Another one of his hobbies is winning competitions. He has accumulated tens of trophies over the years, and is working on several more. He also enjoys writing software to ease his life, thereby giving him more time to play Math Blaster and other RPGs. Marino Di Franco, a sophomore, was born in Caracas, Venezuela. He came to America in 2004. He likes chemistry, biology, mathematics, physics, Latin, and computer science. In his spare time, he enjoys playing guitar. Ben Lucas, a senior, was a member of last year's third place National Science Bowl® Team. He plans on eventually becoming

a geometer like Euclid. *Troy Sandberg* is a 16-year-old junior. He enjoys video games and taking naps when not studying vigorously or hanging out with his friends. Troy is hoping that he will be an adequate replacement for Bennett Rankin and Dimitry Petrenko, who chose to compete in the National Ocean Sciences Bowl this year instead of the National Science Bowl® competition. The National Ocean Sciences Bowl competition is also taking place this weekend in Long Island, NY.

2007

National Science Bowl® Program

Shasta High School — Redding, California

City of Redding Electric Utility

leam Members — Harjus Birk, a junior, is founder and president of Future Health Professionals of America, vice president of Key Club, vice president of FBLA, and a member of the Varsity tennis team. His favorite subjects are biology, physics, and psychology. Harjus hopes to attend Stanford, Harvard, Yale, or Brown, majoring in pre-medicine. He volunteers at Mercy Medical Center and enjoys playing basketball and rugby in his free time. Harjus hopes to become a neurologist. Sophomore Reuben Britto's favorite subjects are chemistry, biology, math, and psychology. As vice president of the Science Club, this is his second consecutive trip to the National competition. He really loves tennis and founded the Tennis Club at his school and is seeded third on the Varsity team. He also enjoys volunteering in the ER of his local hospital as well as tutoring fellow students. Two of his favorite hobbies are building LEGOs, for hours on U.S. Department of Energy

NATIONAL
SCIENCE

Left to right: Harjus Birk, Brandon Good (Coach), Ethan Copitch, Brian Kittrick, Reuben Britto, A.J. Cottengim, Leo Perez (Coach)

end, and beating his siblings in video games. He hopes to attend Harvard (where he can join his brother) and major in bioengineering. Senior Ethan Copitch lives in a small town, 15 miles outside Redding, in Northern California. He graduated his Junior High in the top of his science class and won the school's science award. Since then, he has expanded his knowledge of science dramatically, already having taken biology, chemistry, and physics. His previous achievements include participation in Science Olympiad and Science Bowl, vice president of the French Club, and member of the Science Club. He currently runs Varsity track. This is Ethan's second year at Nationals. Ethan plans to double major in neurobiology and nanotechnology at a strong science-based school, either at UC Merced, Cal Poly (San Louis Obispo), or at the University of Chicago. Junior A.J. Cottengim has been part of the Shasta Science BowlTeam for the past three years, this being his second trip to Nationals. His favorite subjects include Honors Chemistry, A.P., U.S. History, and ceramics. A.J. is currently the president of the Ultimate Frisbee Club and a member of the Friday Night Live Club. Outside of school, A.J. is active in his church, where he plays bass guitar for worship band, the Boy Scouts of America, where he is Junior Assistant Scout Master and an Eagle Scout, and also in the county-wide Chemical People, where he helps organize anti-drug and alcohol events. A.J. hopes to attend Davis and study chemistry. Senior *Brian Kittrick* thoroughly enjoys his home town of Redding, CA, where he was born and raised. His hobbies include playing computer games, reading science fiction books, and participating in Science Bowl. He enjoys immensely volunteering at Turtle Bay Museum and Exploration Park. He plans on attending UC Davis and becoming an aerospace engineer.

Team Coach — *Brandon Good* was raised in Susanville, CA, and graduated from the University of Nevada, Reno, with a B.S. in biochemistry. Because of the amount of lab work involved and minimal human contact, he decided research was not for him. He began to substitute teach, mainly as a part-time job. Brandon actually enjoyed it, so much that it suggested that he should get his teaching credential. He enjoys coaching and playing soccer, hiking, hunting, fishing, building, and most sports. The three most important scientific discoveries are DNA, computers, and electricity.

SCIENCE

Shenendehowa High School — Clifton Park, New York

Knolls Atomic & General Electric Upstate New York



Left to right: Mike Quinn (GM, KAPL), John-Michael Caldaro (Coach), Michael Chien, Pei Wen Chen, Tom McCabe, Maxwell Newman-Plotnick, Michael Kurland

Team Coach — John-Michael Caldaro is the proud coach of the Shenendehowa team. He has had the pleasure of working with these outstanding students for the last two years. They are the finest he has worked with in 30+ years as a science educator. He received his undergraduate degree in chemistry from The College of the Holy Cross, his first Master's in math and physics education from Union College, and his second Master's in educational administration from The College of St. Rose. The three major discoveries he thinks are most important are calculus, the charge of the electron, and wave/particle duality of light. He enjoys a variety of sports (golf, skiing, and racquetball) and has a passion for audio electronics. He thanks his wife, Gail, for her continuous support for his endeavors.

Team Members — *Pei Wen Chen* is a senior. Next fall, she will be attending the State University of New York at Buffalo to study medicinal chemistry. This is her second year on the Science Bowl Team, and she enjoys working with her team members. She is also involved in National Honor Society, TRI-M Music Honor Society, and student government. She has also been on the Nordic Skiing team for two years. In her spare time away from her rigorous schedule, she enjoys teaching dance to younger students. She would like to thank her parents for their support in everything. Michael Chien is a senior and is proud to be representing Shenendehowa in the Science Bowl Competition for the second year in a row. His favorite subjects include chemistry, physics, and biology, and he is proud of the fact that he knows by heart pi to 26 decimal places. Besides science, he enjoys music and playing violin in the Empire State Youth Orchestra and also as concertmaster of the High School Chamber Orchestra.

He also serves on the High School Senate as treasurer. In his limited free time, he enjoys photography, traveling, watching movies, ping pong, opening college rejection letters, and of course, sleeping. Michael Kurland is a junior and is thrilled to be part of the National Science Bowl®. In addition to being a co-captain of the Science Team, he is the secretary of the Math Team and a board member of the Science Club. His favorite subjects include linear algebra, multivariable calculus, calculus based physics, chemistry, and Spanish. When he is not preoccupied with academics, Michael plays singles on the Varsity tennis team, plays Ultimate Frisbee, and skis. He also is a member of Key Club and volunteers regularly at the local food pantry. Tom McCabe is a junior. He is a very intelligent and witty young man who devours science knowledge. He has an excellent memory and a quick recall of knowledge that has helped our team achieve its success. He is also paranoid and declines to comment. Maxwell Newman-Plotnick is a senior. His favorite scientific subjects are mathematics and physics. During his junior year, he was awarded the Rensselaer Medal. He is very involved in filmmaking and visual arts, and has participated and competed in several showings. Other interests include table tennis and politics. In the minuscule amount of free time he has, sleeping is a cherished activity. He only knows pi to 10 decimal places and has a tendency to add numbers incorrectly.

2007

National Science Bowl® Program

Skyview High School — Billings, Montana

Western Area Power Administration — Billings

Team Members — **Sean Fitzgerald** is a senior. In his free time, he plays many MMORPGS. Science classes are his favorite, especially when they involve biologyrelated topics. He hopes to teach advanced science at the high school level after completing a degree or two in the fields he finds most desirable to study. Kevin Laborda is a senior whose favorite subjects are physics and math. He is a member of the National Honor Society and has participated in Science Bowl and the Academic Team for four years. Kevin enjoys reading, and he plans to attend Montana State University to obtain a degree in chemical engineering. Andrew Letson is a junior. He is involved in many activities at Skyview such as Business Professionals of America and Skyview's Academic Teams, as well as playing on the first stand in the school orchestra's first violin section. He is also an entrepreneur; he has started multiple



Left to right: Kari Fields (Coach), Andrew Letson, Sean Fitzgerald, Patrick McInerney, Kevin Laborda, Nathan Perius, Rich McFate (Coach)

businesses. One of these businesses markets CDs of music that he has composed; he has set up a Web site for it at http://www.djbunnyonline.tk. He was on the second place regional Science Bowl Team during both his freshman and sophomore years. *Patrick McInerney*, a.k.a. P-Mac, is a senior who has been on the Skyview Science Bowl and Academic Teams for four years. He has received many recognitions and awards through mathematics competitions. He enjoys performing with a jazz group of his friends. Pat can frequently be found engaged in esoteric conversations. *Nathan Perius* is a senior whose favorite subjects are physics and band. He plays in Jazz band, Pep band, Orchestra Winds, is involved in National Honor Society, runs track, was elected captain of the cross-country team, and is in his second year of competition in Science Bowl. Nathan enjoys golfing, snowboarding, and photography and plans to major in engineering at Montana State University.

Team Coach — *Rich McFate* received Bachelor's degrees in physics and mathematics from Montana State University. He has taught Physics, Honors Physics, and Physics II at Skyview since 1990. He decided to become a physics teacher when he did not get as much fulfillment in finding an elusive atomic particle as he did in making something important understood. He enjoys the continuing challenges he faces in being a highly proficient teacher. He coaches Academic Team and his son's juniors baseball team. A book that he has marveled reading is *More Than Meets the Eye* by futurist/medical doctor/physicist Dr. Richard Swenson.

SCIENCE

Skyview High School — Vancouver, Washington

Bonneville Power Administration



Left to right: Carol Ramsey (Coach), Dan Woodman, Brian Tang, Kunal Vaswani, Christopher Wyszynski, Robert Fiszer

Team Coach — Carol Ramsey has taught physics at Skyview High School since it opened. She taught physics, earth science, and biology as well as numerous electives at other schools in the Vancouver, WA district since 1970. She is most interested in running a student research program for kids at the school that has resulted in projects at both the International Science and Engineering fair and the National Symposium for the Sciences and Humanities, as well as numerous awards and scholarships for the students. Outside of school, she rides and judges horses and trains dogs.

Team Members — Senior *Robert Fiszer* is a participant in many academic clubs, including Knowledge Bowl, Science Bowl, Science Olympiad, Math Team, Speech and Debate, and DECA. He has competed at the state level in all of these and at the national level in DECA twice and now Science Bowl. He has a 3.75 unweighted GPA and plans on graduating from the University of Washington in two years. Last year, Robert passed three AP tests without taking the corresponding class. Robert also greatly dislikes referring to himself in the third person, and plans to start a procrastinators club tomorrow. In addition to Science Bowl, junior *Brian Tang* is the president of Skyview's Model UN Club, vice president of Speech and Debate, secretary of the Math Team, and the "historien" of La Société Honoraire Française (French Club). He is an avid cyclist and enjoys

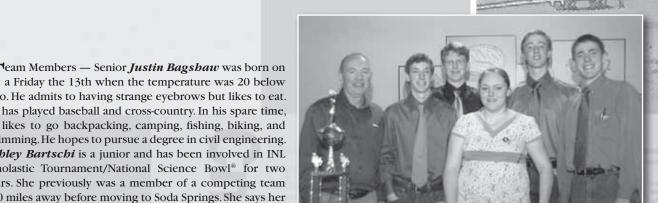
exploring his home town of Vancouver. He is interested in design, architecture, urban planning, and civil engineering, and someday hopes to design environmentally friendly buildings, public spaces, and transportation infrastructure. More than anything else, Brian is interested in mass transit and alternative energy. Senior Kunal Vaswani is a hard-working student that loves math and the various science disciplines. He is president of the Math Team and has organized and led two math competitions, writing tests for over 100 people each time. He is also vice president of the Knowledge Bowl Club and has four Varsity letters from that. During his free time, whenever he gets any, Kunal enjoys playing tennis with his friends as well as on his high school team. Kunal plans on doing a double major in civil engineering and architecture at whichever college he attends. He is still waiting for replies from Stanford, the University of California-Berkeley, and Duke University. Dan Woodman is a junior who has been raised in the Pacific Northwest for all of his life. While his eventual goal in life is world domination, he would not say "no" to a high level position in an engineering firm of some sort. While he tries not to take sides, he is known for his tendency to debate virtually any topic whatsoever and competitors are advised not to engage him in serious discussion unless absolutely necessary. His interests include mountaineering, after-school academic clubs, and classes at the local community college. Aside from being a member of the Science Bowl Team, senior Christopher Wyszynski is a participant in Knowledge Bowl, vice president of Skyview's chapter of National Honor Society, the prime minister of La Société Honoraire Française, and captained the men's Varsity tennis team for the 2006-2007 season. In addition to his many school activities, Christopher has been involved in the martial arts, specifically Tae Kwon Do, for almost 14 years and is currently the senior instructor and coaches the demonstration team at King Tiger Martial Arts (this is also where he has attended classes for approximately eight years). Christopher has recently taken up two new hobbies — fencing and kendo.

2007

National Science Bowl® Program

Soda Springs High School — Soda Springs, Idaho

Battelle Energy Alliance – Idaho



Left to right: Dave Howell (Coach), Justin Bagshaw, Taylor Bybee, Ashley Bartschi, Jayde Kowallis, David Bell

a Friday the 13th when the temperature was 20 below zero. He admits to having strange eyebrows but likes to eat. He has played baseball and cross-country. In his spare time, he likes to go backpacking, camping, fishing, biking, and swimming. He hopes to pursue a degree in civil engineering. Ashlev Bartschi is a junior and has been involved in INL Scholastic Tournament/National Science Bowl® for two years. She previously was a member of a competing team 150 miles away before moving to Soda Springs. She says her current teammates have made this year fun and amazing. Her hobbies include softball, swimming, and track. She has a passion for reading and biology. One day she plans on becoming a chemical engineer or entering the medical field. She also especially enjoys swimming in a nearby reservoir

late at night with her friends. First and foremost, senior David Bell considers himself a selfproclaimed Star Wars nerd. When he is not at work or school, he finds himself either spending time with friends or staying up late playing video games. Having been raised in a small town, he has come to appreciate the simplicity of rural life. David enjoys the outdoors and can spend countless hours hiking slowly through the local hills, simply contemplating life. Some of his other interests include math, science, tinkering with Legos, and playing with his Star Wars action figures. Taylor Bybee is a junior who enjoys school and learning, motorcycling, four-wheeling, and snow machining. He was Freshman Class president, and is currently the chapter secretary for the Future Farmers of America. He has been in Pep band and Soda Pops (show choir). Taylor has also been in several musicals, runs cross-country, and plays the piano and cornet. Born in Soda Springs, Jayde Kowallis, a senior, learned to speak at an early age and has had a thirst for learning ever since. He was prone to "experiment" as a child, though luckily, he has still been able to retain all of his fingers, toes, and eyebrows. He has been pushed to do well academically by his parents. He has been involved in many extracurricular activities, such as football, cross-country, wrestling, baseball, musicals, FFA, and INL Scholastic Tournament/National Science Bowl®. He enjoys watching things explode, riding motorcycles, and making things.

eam Coach — Dave Howell attended Brigham Young University, and although he went into counseling, he has always had an interest in math and science. He thinks the scientific method — to ask, "Why does this happen?" was a turning point. He feels the recent research in chips and DNA will have long reaching effects. He enjoys photography, backpacking, racquetball, sports, and being with his family.

SCIENCE



Southside High School — Fort Smith, Arkansas

University of Arkansas — Fort Smith



Left to right: Reed Stiles, Jarid Kinder, Josh Adams (Coach), Miranda Pitsch, Tyler Evans, Wesley Johnson-Graves

Team Coach — Josh Adams is taking his sixth team to the National Science Bowl® this year. Josh has a degree in physics and a M.A. in teaching, both from the University of Arkansas, Fayetteville. He has always enjoyed math and his wife keeps him around because he can figure out discounts in his head when shopping. Josh believes that the creation of Kevlar, the powered plane, and plastic should rank high on the list of important scientific discoveries. He is an amateur astronomer and also coaches Southside's other academic teams.

Team Members — *Tyler Evans*, a senior, is 6'3". He likes history, wars, battles, and large fluffy dogs. His science specialty is biology. Tyler wants to be an international lawyer. Tyler will be found at the University of Tulsa next year. *Wesley Johnson-Graves* is a senior and captain of the Science Bowl Team. His expertise resides in physics and chemistry with a strong weakness (and dislike) in biology. He wants to become an aerospace engineer so that he can go play with rockets. Hopefully he will work at NASA and become the first man on Mars. Wesley enjoys spending his time daydreaming about such exploits and questioning exactly how the world works. Visionary is the word that comes to mind when thinking of senior *Jarid Kinder*; whether it be his intellect or his brawn, Jarid exemplifies perfection in high school seniors. Hailing from the state

of Arkansas, Jarid is involved in many activities, including policy debate, journalism, and Quiz Bowl. His passions are politics and foreign policy; in fact, he is Fort Smith's official high school ambassador to Germany and he finds himself there every summer changing the European view of the American image. Jarid is still quite unsure about his college plans. The colleges he is considering are Cambridge, Morehouse, and Wellesley. Miranda Pitsch, a junior, stays very busy with several school activities. She sings soprano in Southside's choir and throws shot put and discus for the school's track team. She is an active member of National Honor Society and Mu Alpha Theta. She is proud to be president of the B.E.S.T. Robotics Team. She rounds out her busy schedule with Quiz Bowl, Science Bowl, KMO and an after school job at the public library. Miranda looks forward to studying mechanical engineering, but has not decided where she will accomplish said studying. **Reed Stiles**, a senior, spends most of his free time working out, playing video games, and with his friends. While listening to an eclectic range of music, Reed loves keeping up to date on Facebook and Digg.com. Even though Reed does not play any school sports, he enjoys watching soccer and participating in Intramurals. Reed has been in Quiz Bowl for over six years and Science Bowl for one year. In the fall, Reed hopes to be attending the University of Tulsa. Although not exactly sure, Reed hopes to be a petroleum engineer or involved in international business.

2007

National Science Bowl® Program

State College Area High School — State College, Pennsylvania

National Energy Technology Laboratory — Pittsburgh

ream Members — Laura Gabrovsek, a junior, is a first-I year member of the Science Bowl Team. In addition to Quiz Bowl-related extracurricular activities, she has played violin for seven years and volunteers at her local hospital. Fulfilling her ardent love of plants, she works in a plant biology lab at Pennsylvania State University, where her work ranges from germination procedures for Nuphar advena to washing glassware. Though her intense love of plants has prompted her to rant for hours about the beauty of the pressure-flow hypothesis and her infatuation with dead Romantic poets like John Keats makes her swoon, she plans to pursue a career in medicine, possibly genetics or cancer research. Francois Greer is a senior. He is the president of the Math Club and a member of his school's Quiz Bowl and Science Bowl Teams. During the spring, he plays on the Varsity tennis team. Francois plans to attend Harvard University next fall, majoring in physics or

U.S. Department of Energy

Left to right, Back row: Lilas Soukup (Regional Coordinator), Francois Greer, Julie Gittings (Coach), Front row: Kunal Vakharia, Laura Gabrovsek, Barry Liu, Not pictured: Jinhui Zhao

math. At this point, he hopes to become a theoretical physicist. For fun, he enjoys playing chess, practicing the piano, and going to DelGrosso's Amusement Park. If Francois could go anywhere in the world, he would go to Australia because of the Aussie accents, kangaroos, and poisonous snakes. Barry Liu is a senior. He was born in Harbin, China and became a U.S. citizen recently. He likes reading, watching TV, and playing computer games. He currently participates in Knowledge Masters, Science Olympiad, Math Club, and Chess Club. His favorite subject is psychology. Despite outstanding academic, personal, and social potential, he persists in wasting his time in what adults would term less productive pastimes. He plans further study in physics, chemistry, and history, possibly at M.I.T. or the Schreyer's Honors College of the Pennsylvania State University. Senior Kunal Vakharia is a member of the State College Science Bowl, Science Olympiad, and Knowledge Master Teams. He is also very interested in law and government and actively participates in Policy Debate, Mock Trial, and Student Government. He volunteers his time in a variety of activities, including Big Brother Big Sister, Mount Nittany Medical Center, and Habitat for Humanity. Along with his academics, he is a black belt in martial arts. For relaxation, he enjoys playing basketball and tackle football with his friends. Jinbui (Elizabeth) Zhao is a sophomore. She is a member of Science Bowl, Science Olympiad, National Honors Art Society, and Nittany Valley Symphony Youth Flute Choir. She likes to read, play flute and piano, and draw in her free time. Even though she is only a sophomore, she is thinking about majoring in mechanical engineering in college.

Team Coach — *Julie Gittings* is the survivor of many years of Academic Team coaching for the enrichment students of the State College Area High School. She also advises the school-wide Renaissance Faire and arranges field trips to the Martin Guitar factory when she is not working on a report of AP scores for her school board. She volunteers occasionally at the Food Bank and enjoys biking, reading, and skiing, as she is noticeably untalented in arts and crafts. She is married with two grown daughters and one son-in-law, all with strong career interests in science.

SCIENCE



St. Croix Educational Complex — Kingshill, Virgin Islands

Virgin Islands Department of Education



Left to right: Dynell Williams (Coach), Jamal Gumbs, Victor Browne, Jr., Whitney Smith, O'mard Alexander, Ninfa Barnard, Joann Lewis (Coach)

Team Coach — *Joann Lewis* earned a B.S. in biology at Barry University. She has been a teacher at the St. Croix Educational Complex for nine years. She also coaches the school's Academic Quiz Bowl Team. Her influences to become a science teacher were the amazing efforts of her middle and high school science teachers. Her hobbies include reading, playing games (electronic or board), cooking, and participating in clubs and school activities. Her three most important scientific discoveries are cloning, the Internet, and cancer chemotherapeutic drugs.

Team Members — Senior O'mard Alexander is 17 ■ years old and confident and determined. He was born on St. Croix. O'mard has competed in many competitive events, such as Accounting I, Business Math, Public Speaking I, Junior Job Interview, and Job Interview, placing first in all of them. At this time, he ranks tenth in his graduating class with a 3.5 GPA. As he graduates from high school, he plans to major in business administration and management with a concentration in marketing and finance. Ninfa Barnard is a sophomore. She is an active member of her high school Quiz Bowl Teams. She is also the co-captain of the Complex's track and field team (Barracudas). She graduated Valedictorian from the John H. Woodson Jr. High School. She received the First Honors and Presidential Honors awards upon graduating from elementary school. Her hobbies include reading and eating a variety of gourmet foods. The quote she lives by is, "Our greatest glory is not in never

falling, but in rising every time we fall." (Confucius). Victor Browne, Jr., is currently a junior. His hobbies include reading, writing, playing video games, and learning in general. His longterm goal for the future is to obtain a M.D./Ph.D. dual degree in the area of biochemistry. He is undecided as to which institution he plans to attend. Victor is currently a part of the Temple University Physician Scientist Training Program, a summer program that allows for exposure in the fields of medicine and science. Jamal Gumbs is a senior. His extracurricular activities include Quiz Bowl, National Honor Society, Varsity football, and the Varsity tennis team. He attended an engineering program at Rose-Hulman Institute of Technology. Jamal is also an avid volunteer at the annual Health and Science Symposium sponsored by the University of the Virgin Islands. Some of his hobbies include reading, outdoor activities (hiking), studying history, and traveling. His future goal is to attend college and major in chemical engineering. Whitney Smith is currently an excelling senior. She takes pride in her endeavors, whether in school or in the community. She is an active member in numerous clubs and organizations, including captain of the Quiz Bowl Team, National Honor Society, Yearbook Committee, Magnet program, and president of the Medical Explorers Club. Whitney is active in the St. Croix community, including being a volunteer youth leader for the 4-H Club and the Red Cross. She plans to attend Duquesne University and to become a neonatal nurse practitioner with a minor in zoology.

2007

National Science Bowl® Program

Stockdale High School — Bakersfield, California

California State University

Team Members — *Sirisha Grandhe*, a senior, has been involved in several math and science activities. She has co-produced a mathematical video called "EZ Math Trix," which contains many tricks that can help students as well as teachers solve various types of math problems. She has received first and second place in the 2006 Varsity Math Bowl and 2005 JV Team Medley, respectively. Last year, she participated in the California State Science Fair in a team chemistry project. Aside from academics, Sirisha enjoys playing tennis, knitting, and watching television. Currently, she plans to pursue a career in medicine. *David Kimber*, a senior, has been involved in many math and science activities. Notably, he medalled individually in the CSUB Math Field Day as well as contributed to his Varsity Math Bowl Team's first place effort in 2006 and the JV Math Bowl Team's



Left to right: Stephan Kiouses (Coach), Guy Rodgers, Sirisha Grandhe, David Kimber, Justin Koh, Joy Wang

second place finish in 2005. He has also been very successful in the MathCounts Competition, the American Math Competition, and the American Invitational Mathematics Examination. Outside of school, David enjoys playing soccer and basketball, singing, and hanging out with friends. He currently is pursuing a career in medicine. Justin Kob is a junior and a second year Science Bowl captain. He was a participant in the U.S. National Chemistry Olympiad study camp in 2006, and hopes to represent the United States at the XXXIX International Chemistry Olympiad in Russia this year. Justin enjoys studying chemistry in order to better perceive the world around him, with an emphasis on organic chemistry. In his spare time, Justin enjoys playing video games, playing the violin, fencing, and studying philosophy. Guy **Rodgers** is a senior, and has been an avid student of math and science since a very young age. Guy's inspiration comes from his father who owns a chemical company and his many friends who are engineers. He has participated in Math Field Day, Science Fair, and, most importantly, Science Bowl. Participating in Science Bowl has honed Guy's science and math skills, preparing him for success in college and future endeavors. Joy Wang is a senior. This is her first year doing Science Bowl. Other than Science Bowl, she is involved in HOSA (Health Occupations Students of America), Math Club, Interact, and Salsa Club. In her spare time, she enjoys playing the piano, going to the movies, shopping, dancing, going to the beach, and hanging out with friends. Joy aspires to become a pharmacist. She hopes to go to a university with a direct pharmacy program in the future.

deam Coach — Stephan Kiouses holds a B.A. in earth science from SUNY College at Buffalo, a M.S. in geology from SIU-Carbondale, and a M.B.A. from CSU Bakersfield. After spending 20 years in various management and technical positions in the telecommunication and petroleum industry, Stephan started his "second career" as a science teacher where he could share his love of learning with others. Stephan believes that the use of technology in the classroom has been the most important scientific discovery in history and will result in a wealth of new discoveries. Outside of the classroom, he enjoys camping, kayaking, and playing ice hockey.

SCIENCE

St. Paul Academy and Summit School — St. Paul, Minnesota

Minnesota Academy of Science



Left to right: Janice Gepner (Coach), Derek Schaible, Nicholas Rosenbaum, Zachary Sethna, Daniel Zheng, Jennifer Fischer

Team Coach — Janice Gepner graduated Phi Beta Kappa from M.I.T. with a degree in chemistry and stayed at M.I.T. for a Ph.D. in biochemistry. After two years of postdoctoral research at Harvard University, she left academics to teach high school chemistry at The Winsor School in Boston. While at Winsor, she received the Award for Excellence in Secondary School Teaching from the Northeastern Section of the American Chemical Society. After nine years at Winsor, she did research for three years at the University of Minnesota. Then in 1994, she returned to teaching chemistry at St. Paul Academy and Summit School.

Team Members — Junior *Jennifer Fischer* is a captain ▲ of Science Olympiad, Science Bowl, and Girls' Varsity soccer. She participates in many other extracurricular activities including Varsity track and field, fencing, Gender Equity in Leadership and Learning, Junior Class Leadership Council, Senior Strings (viola), and Math Team. Jennifer graduated from the University of Minnesota Talented Youth Mathematics Program in 2006, completing Calculus III in tenth grade, and continues studying math at the University of Minnesota. Every weekend, Jennifer volunteers at her church, running the sound system at the Spanish mass. Nicholas Rosenbaum is an 18-year-old senior. He is rabidly passionate about linguistics and languages (especially Japanese), mathematics and physics (especially quantum), creative writing and reading (especially books by Haruki Murakami), and making long lists that abruptly

deviate from parallelism. In his spare time not consumed by said interests, he enjoys acting, playing video games, and dancing. His favorite word in English is ramshackle, in Japanese is "tasogare," and in French is "effleurer." He is flattered to represent Minnesota in the 2007 National Science Bowl®. After appearing on the game show "Jeopardy!" in fifth grade, senior Derek Schaible devoted much of his free time to acquiring useless knowledge. Luckily, it seems that he has found a suitable outlet for these trivial facts as captain of his school's Science Bowl and Quiz Bowl Teams. In addition, Derek serves as president of the student body, captain of the Debate Team, and stage manager of theatrical productions. Next fall, Derek will be attending Yale or the University of Chicago and plans to major in international relations. Derek hopes to pursue a career as a Foreign Service officer. **Zachary Sethna** is a junior whose favorite subjects are math and science (this year Honors Calculus and Honors Chemistry). Zachary is also very involved in various math and science contests, including Science Bowl, Science Olympiad, AMC12/USAMO, ARML, and Minnesota High School Math League. He has won various awards and medals in these and other contests. As he is still a junior, his future educational plans remain unclear, though he will go to some college or university and major in some science. Daniel Zheng is a senior whose favorite subjects are science, math, and history. He is the captain of the fencing team, Science Bowl, Science Olympiad, Debate, and Math Team. Last year, he was named a third place Grand Award at the Intel Science and Engineering Fair and this year was selected as an Intel Talent Search and Westinghouse semifinalist. Daniel hopes to either attend Brown or M.I.T. and plans to pursue a major in computational biology. From there, he hopes to either go into medicine or research.

2007

National Science Bowl® Program

Texas Academy of Mathematics and Science — Denton, Texas

Texas Society of Hispanic Professional Engineers

Team Members — Korok Chatterjee is a junior. He was born in Dallas in 1989 and has lived in Plano, TX, for most of his life, although his family is from West Bengal, India. Outside of school, he plays piano and trombone, works at the EE lab at UNT, and is active in the Engineering and Art Clubs at TAMS. His favorite four-dimensional surface is the Klein bottle, and his favorite sculptor is Auguste Rodin, since technically I. M. Pei is not a sculptor. Arjun Kavi is a junior. He was born September 20, 1990, in Plano, TX. He is an active participant in school activities, including JETS, Research Organization, and Mu Alpha Theta, for which he is the Head of Academic Competition. He is currently engaged in computational chemistry research under the supervision of Dr. Angela K. Wilson of the University of North Texas, where he is investigating frequency scaling in transition metal compounds. He is also an active volunteer at Camp Summit, an equal opportunities camp for disabled



Left to right: Vinay Ramasesh, Korok Chatterjee, David Ouyang, Alan-Michael Vargas, Not pictured: Arjun Kavi, Roy Zumwalt (Coach)

individuals. David Ouyang is a senior. He hopes to attend the Massachusetts Institute of Technology or Rice University to pursue undergraduate degrees in biochemistry and chemical engineering. Hoping to pursue nanotechnology research and its medical applications, David has been distinguished as a Siemens Science and Technology Competition Semifinalist and Intel Science Talent Search Semifinalist. David wishes to obtain an M.D./Ph.D. to specialize in anesthesiology as well as pursue biochemistry research. Aside from science and technology related interests, David is the vice president of the school's Speech and Debate Team and a Senior Mentor. Vinay Ramasesh is a junior. At TAMS, he works in a research lab in computational chemistry under Dr. Angela Wilson to further his interests in science. In the lab, he investigates local methods for calculating properties of large molecules using the Schrodinger equation. Mainly, however, he is interested in mathematics. To further this interest, he participates in numerous math contests and takes math electives, including differential equations. He thinks important scientific discoveries are evolution, nuclear energy, and relativity. Alan-Michael Vargas is a junior. He was born in and spent most of his growing years in Fort Worth. He has always been interested in science in general. As far as hobbies go, he likes to read, play video games, hang out with his friends, and surf the Internet. Beyond that, he wants to get a Ph.D., and he is very interested in theoretical physics. Most likely he will become a research scientist with possible teaching on the side.

Team Coach — Roy Zumwalt is the network administrator for the Texas Academy of Mathematics and Science. He has a Bachelor's of Business Administration in finance from the University of North Texas and a Master's of Science in computer education and cognitive systems from the same university. He has been with the TAMS program for nine years and has worked within the University of North Texas system for over 15 years. He plans to begin a Ph.D. in library and information sciences in the fall of 2008. He would eventually like to teach and continue his work with gifted and talented students.

SCIENCE

The Preuss School UCSD — San Diego, California

National Organization of Black Chemists & Chemical Engineers — Western Region



Left to right: Juliana Biersbach (Coach), Fadhi Massa, James Noraky, Spreeha Debchaudhury, Jonathan Wosen, Walter Fairley, Jr. (Coach)

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 NOBCChE Science Bowl Team, the teams have placed in the top five teams nationally, the last six years in a row.

Team Members — *Spreeha Debchaudhury* is a sophomore this year, and she enjoys studying biology and chemistry. Previously, she has participated in the Science Olympiad and The Greater San Diego County Science Fair competitions. *Fadhi Massa* is a sophomore. Fadhi enjoys playing sports, watching TV, and hanging out with friends. He likes to have fun. Fadhi plans on attending UCLA, majoring in medicine in the future. *James Noraky* is a sophomore. James enjoys sleeping, running, and solving math problems in his free time. James plans on attending M.I.T., majoring in operations research and engineering. *Jonathan Wosen* is a sophomore. Jonathan enjoys science and math, as well as writing, and works extensively with The Preuss School Botball Team. For recreation, Jonathan enjoys playing ping pong.

2007

National Science Bowl® Program

Thomas Jefferson High School for Science & Technology — Alexandria, Virginia

Thomas Jefferson National Accelerator Facility

Team Members — Senior Atul Kannan has been the captain of the Varsity Chess Team during his senior and junior years. He loves to play chess and has won national awards in blitz, bughouse, and regular chess, and came in eighth in the Virginia High School chess championship in 2006. He is a music lover who has won many awards in piano. His interests also include tennis. Atul participates in the Varsity Math Team and Physics Team. He sees himself as a curious researcher and is currently performing a cancer research mentorship at the National Institutes of Health. His goal is to pursue chemical engineering and physics at Princeton. Logan Kearsley is an 18-year-old senior who enjoys most things about school except U.S. government. His interests are currently only known to exclude U.S. history and art criticism. He is an avid reader of science fiction,

The second of th

Left to right: Bruce Sun, Atul Kannan, Logan Kearsley, George Leef, Jack Wang, Sharon Baker Webb (Coach)

science fact, and fantasy, whose monthly intake can properly be measured in stack-inches of books (fractions of a foot when not impaired by schoolwork). He also enjoys writing science fiction, designing starships, designing artificial languages, and keeping up with the latest news in robotics and computer technology, biology, and astronomy. Junior George Leef's favorite subjects include calculus, chemistry, physics, and Latin. He also participates in Physics Team, Latin Honor Society, of which he is the praetor, and Debate, of which he is an officer. Outside of school, George plays the piano, especially Mozart compositions. He loves to read, particularly ancient history. In the past, he has been a semifinalist for the Biology Olympiad and qualified for the American Invitational Math Exam. He would like to pursue biology or chemistry in college. Junior Bruce Sun's favorite subjects include math, chemistry, and biology. He has participated in the Varsity Math Team, Senior Computer Team, Future Problem Solving, Physics Team, and Bridge Club. Bruce also plays the violin and folds origami. In the past, he has been a qualifier for the American Invitational Math Exam, the USA Math Olympiad, and the USA Biology Olympiad semifinals. Bruce hopes to attend M.I.T. for an undergraduate degree in engineering/technology and Wharton for a graduate business degree. He hopes to start his own technology company in the future. Some of junior Jack Wang's favorite subjects include math, physics, and chemistry. At school, he participates on the Varsity Math Team, Senior Computer Team, Physics Team, and in Bridge Club. In his free time, Jack reads and practices Wushu. He has qualified for the USA Math Olympiad and the U.S. National Chemistry Olympiad. He aspires to attend M.I.T., but is unsure of which degree he will pursue. Jack hopes he will make a difference in the world, no matter what he chooses to do in his life.

¬eam Coach — Sharon Baker Webb Leaches mathematics at TJHSST. She graduated from the University of Virginia in Charlottesville with a B.A. in mathematics and a M.Ed. in mathematics education. An enthusiastic mathematics professor at UVA inspired Coach Webb to pursue mathematics as a major, and ultimately to consider teaching. She was a semifinalist in the NASA selection of educator astronauts, and she participates in NEAT (Network of Educator Astronaut Teachers). She has served as an AP Calculus reader for the past two years. Mrs. Webb sponsors the Fellowship of Christian Athletes and Science Bowl clubs at TJ. Her hobbies include skiing, travel, and music.

SCIENCE

Tokay High School — Lodi, California

Modesto Irrigation District



Left to right: Eberhard Barba, William Chour, Quay Stearns, Roby Hemphill, Anne Heberle, Not pictured: Lorna Hemphill, Susan Heberle, Kara Luce (Coaches)

eam Coach — Lorna Hempbill attended Santa Rosa Junior College and University of California, Davis, earning a biochemistry degree. She worked as a chemist/ microbiologist for a local winery before becoming a full-time mom. Lorna currently substitute teaches all grades/subjects. She is active in PTA and Rebekah Lodge, and she is an avid cat lover. The addition of AP Study sessions for the students would be a great opportunity for the students to network. Our team is co-coached with Susan Heberle and Kara Luce, science teachers at Tokay High School. Susan Heberle attended Sacramento State University with a major in biology and minor in chemistry. Kara Luce attended Kansas schools before moving to California and has been a great chemistry source person. She taught in Redding prior to coming to THS.

Team Members — Eberhard Barba is a 16-year-old senior and is active in Science Olympiad, Science Bowl, play productions, Japanese Club, and Chess Club, and he helps out as a math tutor after school. Eberhard is interested in music theory and the arts. He is undecided at this time about which college he will attend and what his major will be. William Chour is a sophomore and active in CSF, NHS, Science Olympiad, Science Bowl, Academic Decathlon, cross-country, and track and field. In his free time, he is a library volunteer (three years) and Lodi Memorial Hospital volunteer (two years). He was the 2005 winner in the "River of Words" contest of the Sacramento River Watershed Program. His interests are science (biology, anatomy, and chemistry), math, and music. His plans include college (at UC), medical school, and entering the field of bioengineering. Junior Anne Heberle

is 17 years old. Besides participating in Science Bowl, she is active in Science Olympiad, waterpolo, swimming, and Girl Scouts. She recently played Varsity waterpolo, placing First Team All League and Second Team All Section this last year, and she currently swims for her third year on Varsity. As an experienced swimmer, she has dedicated over 60 hours of her time in the summer to help coach a swim team for children ages seven and eight years old. She has been active in Girl Scouts for about 11 years while ranking as a Senior Girl Scout and Patrol Leader for her Troop. Loving science, anatomy and physiology are the most interesting. She wishes to attend a college that will improve her education as she plans to enter the medical field as a cardiologist. Roby Hemphill is a 17-year-old senior with biology and computers as his favorite subjects. He is active as a member of the IOOF in Stockton and Sutter Junior Lodges. He is a Past Chief Ruler and Past Grand Ruler for the state of California, and is currently working on levels for the honors program of the Junior Lodge. Roby is currently president of the Academic Club. He participates with Academic Decathlon, Science Olympiad, and Science Bowl. In the community, Roby participates by volunteering in park clean-ups, helping at the food bank, caroling at senior citizen centers, and recently, fundraising for cancer research and a village in Cambodia. He plans to further his education at UC Davis, majoring in engineering. Quay Stearns is a sophomore and is excited to come to the National Science Bowl® competition for the second year in a row. He participates in various activities including Science Olympiad, Academic Decathlon, tennis, and cross-country, and is also the president of the Brain Club, vice president of Spanish Club, and active in CSF, NHS, and Key Club. In addition, he has been playing violin for eight years, and hopes to continue playing throughout high school. During his free time, he enjoys spending time with his friends and spending time outdoors.

2007

National Science Bowl® Program

University at Buffalo — Biomedical STEP Program — Buffalo, New York

Monroe Community College

Team Members — Sylvie Bizimungu is a senior at A Nardin Academy in Buffalo, NY. She plans to pursue a career in biomedical engineering or electric engineering. Her involvement in the National NAACP ACT-SO Science Competition (Afro-Academic, Cultural, Technological, and Scientific Olympics) in 2006 invoked a strong interest in electrical engineering. In this Olympic of the Mind, she studied fuel cells, assembled a hydrogen car, and received a bronze medal in physics energy. Bianca Coleman is a junior at Nardin Academy in Buffalo, NY. School has always been an important part of her life. Bianca has been recognized for her high grades by teachers, parents, and her peers since kindergarten. Bianca was the Valedictorian in her eighth grade. Math and science sparks her interest and in past years she has won various awards in science and math, such as the Benjamin Banneker Award. Winning



Left to right: Olivia Cox, Andrea Finley, Sylvie Bizimungu, Bianca Coleman, Kerris Sease, Not pictured: Twiggs Seymore (Coach)

first place in the Rochester Regional Science Bowl was a great achievement for Bianca. Olivia Cox is a senior at City Honors in Buffalo, NY. Her favorite subjects include IB Biology and IB Economics. Olivia actively participates in Student Council, the Prom Committee, and has volunteered for over a year with Big Brothers Big Sisters of Erie County. Olivia is a member of the Varsity basketball team for the past four seasons. She has been a participant in the University of Buffalo Biomedical STEP Program for the past two years. Olivia has decided to enroll at the University of Buffalo, majoring in nursing, to pursue her goal as a registered nurse anesthetist. Sophomore Andrea Finley attends Sweet Home High School in Buffalo, NY. Her passions are music, theatre, acting, and medicine. She also plays softball and basketball. In her spare time, she does inner city outreaches with her church, Sword of the Spirit Ministries, writes poetry, and composes her own music. Her aspiration in life is to become an OB/GYN, or a successful singing actress. Whatever it may be, "She prays the Lord will continue to bless her in whatever it is she does and that He would guide her and continue to open doors for her, like he already has." Kerris Sease is a 17-year-old junior at Nardin Academy in Buffalo, NY. She is a member of Radical Math, the orchestra, and Rainbow Heritage Club. A member of St. Martin de Porres Church, she is a choir member and youth usher. Her other activities include president of the Buffalo Youth and Young Adult Choral Society and the Teen Skills Initiative Program of The Buffalo Museum of Science. Her favorite subjects in school are math and science and her favorite hobbies are reading, playing her flute, singing, and talking with friends. After college, she plans on becoming an OB/GYN or a toxicologist, or working in the field of physics.

Team Coach — Twiggs Seymore ▲ attended Buffalo State College and majored in environmental geo-science with a minor in chemistry. He was employed as a rubber and plastic chemist with the TRICO Corporation and later as an environmental chemist with Ecology and Environment, Inc. He taught Earth science and chemistry at the UB Upward Bound Program and has taught chemistry and biology for the UB STEP Program. Presently, he tutors students of color at the Buffalo Prep Program and students from UB Biomedical STEP Program. The research, discoveries, and achievements of George Washington Carver, Dr. Charles Drew, and Dr. Albert Einstein are the three he considers most influential in the area of science.

SCIENCE

Ward Melville High School — East Setauket, New York

Brookhaven National Laboratory



Left to right, Back row: Bob Spira (Coach), Front row: Stephen Bohlman, Rebecca Yu, Rachel Yu, Preya Shah, Yang Li

Team Coach — *Bob Spira* holds a B.S. in physics and math. He has a Master's in science education and an advanced graduate diploma in School District Administration. He teaches physics at the high school and at SUNY Stony Brook. He considers electricity, vaccinations, and nuclear energy to be the most important scientific discoveries. He likes to fish, bike, camp, garden, and play all sports. He enjoys golf and is coach of the Varsity golf team.

deam Members — Stephen Bohlman is a senior. → **1** Yang Li, a junior, is Varsity captain of the Academic Team, news editor of the student newspaper, a member of French Honor Society, and the student representative to the district wellness committee. In science, his favorite subjects are astronomy, earth science, and atomic physics. He plays the violin and is an avid artist and prose writer. Sophomore Preva Shab is an avid musician who finds her own voice by composing music, singing, and playing oboe and violin for the past seven years. She is a member of the Academic Team, Science Olympiad, Math Team, and FBLA. She has enjoyed participating in AMC, AIME, New York State and American Math League, science fairs, Leadership conference, Quiz Bowl, and Cablevision's TV show "The LI Challenge." Her involvement in Latin, French, music, math, business, and science has earned her several awards, including a gold

metal at the National Science Olympiad. In her leisure time, Preya likes to draw, volunteer, and play tennis. Senior *Rui Hui (Rachel) Yu* has traveled to many parts of the world, including Australia and Sweden, before coming to the United States a little over five years ago. At school, her favorite subjects have always been the sciences, from biology in ninth grade to physics in her junior year. However, she prefers chemistry over the other sciences so far, in part because she finds exploding reactions more intriguing than watching magnetic cars rambling down a metal track. In her spare time, Rachel enjoys reading fiction books, mostly ones not related at all to science. *Rui Zhi (Rebecca) Yu*, a senior, is secretary of Spanish Honor Society and an active member of the Science Olympiad and Math and Academic Teams. She is an InTEL Semifinalist and National Merit Finalist. She has gone to the NYSSMA All State convention for the violin and is a member of the Varsity tennis team. Her favorite subjects in school are math, physics, and chemistry, but she has a strong aversion to biology. In her free time, she enjoys reading non-science related books and has elaborate plans to take over the world.

2007

National Science Bowl® Program

Westford Academy — Westford, Massachusetts

Boston University

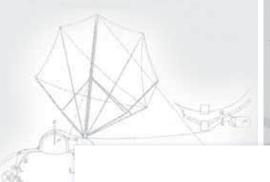
Team Members — Andrew Geng is a senior. June Geng is a sophomore. Reena Joubert is a sophomore. Jessica Lin is a junior. Vivek Reddy is a junior. Among his many interests are martial arts, tennis, science, and just hanging out with his friends. One day he hopes to be a M.D. and work for "Doctors Without Borders." Vivek feels that he is a very fortunate student, however, because of the excellent academic opportunities that are available to him in the comfortable town of Westford, MA. In reality, there are several thousand students in our nation and millions more in the world that are subject to poor academic environments and long to be in a better place. Thus, he urges those who are interested in academics, and making the world a better place, to also engage in community outreach programs that stress the importance of academics.



Left to right: Leslie Garland (Coach), June Geng, Andrew Geng, Reena Joubert, Jessica Lin, Vivek Reddy, Rose Manning (Coach)

¹eam Coach — *Leslie Garland* **■** graduated from Bryn Mawr College with a degree in chemistry, then went on to get her Ph.D. in physical chemistry from UCLA, studying kinetics. When she moved back to Massachusetts after working for several years in the college and research environment in Georgia, she decided to teach high school because she had found that aspect of her career most satisfying. The three scientific ideas she thinks most impacted our understanding of the world around us are: Dalton's atomic theory, quantum mechanics, and Newton's theory of gravity. Outside of science and teaching, her hobbies are reading mysteries, watching classic movies, and enjoying the outdoors.

SCIENCE



Woodrow Wilson Senior High School — Washington, District of Columbia

Howard University

Photo Not Available

Team Coach — Angela Benjamin is the coach of the Woodrow Wilson Senior High School Science Bowl Team.

Team Members — *Joseph Elsherbini* is a senior. *Malick Kebe* is a senior who loves math, especially Brower's fixed point theorem. He is captain of the Math Team and he participates in Science Bowl; recycling; the school's newspaper; *It's Academic*; Architecture, Engineering, and Construction mentoring program; Mock Trial; and AAU basketball. *Patricia Liverpool* is a sophomore. *Anh Nguyen* is a senior who enjoys math and science as well as many other subjects, such as history. For the past few years, Anh has been the captain of the Ultimate Frisbee Team and the Science Bowl Team, and a member of the *It's Academic* Team and Programming Team. Anh will be

attending Princeton University in fall 2007 and majoring in engineering along with a minor in international affairs. *Daniel Poore* is a senior. He loves math and computer science, and spends much of his free time doing one of the two. He is on the Debate Team, Math Team, Go Club, *It's Academic* Team, and Science Bowl Team, and he is a co-captain of the Ultimate Frisbee Team. Since the school's computer science teacher left last year, he joined another student in teaching the AP Computer Science class. He also participated in the AMC Math Competition series, going as far as the USAMO three times and making MOP twice.

2007

National Science Bowl® Program















