High School Academic Competition - Round Robin Tournament

Jump to... Ames Brookhaven Fermi Lawrence Berkeley Princeton Plasma Renewable Energy Savannah River SLAC

Ames

Ames Laboratory - Ames, Iowa - https://www.ameslab.gov/
Ames Laboratory's location on the campus of its contractor, Iowa State University, has instilled a culture of interdisciplinary science and innovation. The Lab tightly couples theory, computation and experiments to design new materials; synthesize and fabricate those materials; and perform characterization and testing at its new Sensitive Instrument Facility with its world-class characterization equipment. Invention of lead-free solder, a hybrid catalyst that more efficiently converts crops to biodiesel, and meta-materials with remarkable optical properties are just a few examples of Ames Laboratory's materials that are impacting our world.

	Team	1	2	3	4	5	6	7	8	9	Total Points	DTC Ranking
1	Pullman High School		0	0	0	0	2	2	2	0	6	7
2	BASIS Chandler (HS)	2		2	0	2	2	2	2	0	12 4th	3
3	Blue Valley North High School	2	0		0	0	2	2	2	0	8	4
4	'Iolani School (HS)	2	2	2		0	2	2	2	0	12 3rd	2
5	The Frazer School (HS)	2	0	2	2		2	2	2	0	12 2nd	1
6	Fusion Academy Cupertino (HS)	0	0	0	0	0		0	2	0	2	5
7	American Fork High School	0	0	0	0	0	2		2	0	4	9
8	Maine School of Science & Mathematics (HS)	0	0	0	0	0	0	0		0	0	8
9	Mission San Jose High School	2	2	2	2	2	2	2	2		16 1st	6

Scoring: A score of "2" means that the team to the left of the "2" beat the team above the "2"; A score of "1" means that the team to the left of the "1" tied with the team above the "1"; A score of "0" means that the team to the left of the "0" lost to the team above the "0".

DTC (Division Team Challenge): The teams within a division each solved the same problem. The team with the best answer receives a ranking of "1"; the team with the second-best answer receives a ranking of "2", etc. In case of a tie in the Round Robin Competition, the DTC ranking is used to break the tie.

Brookhaven

Brookhaven National Laboratory (BNL) - Upton, New York - https://www.bnl.gov/
BNL brings world-class facilities and expertise to advance fundamental research in nuclear and particle physics to gain a deeper understanding of matter, energy, space, and time; apply photon sciences and nanomaterials research to energy challenges of critical importance to the Nation; and perform cross-disciplinary research on climate change, sustainable energy, computation, and earth's ecosystems. The Lab's 2,750 scientists, engineers, and support staff are joined each year by thousands of visiting researchers who use the large-scale scientific facilities. BNL is operated and managed by Brookhaven Science Associates, founded by the Research Foundation for the State University of New York on behalf of Stony Brook University, and Battelle, a nonprofit applied science and technology organization.

	Team	1	2	3	4	5	6	7	8	9	Total Points	DTC Ranking
1	Madisonville North Hopkins High School		0	0	0	0	0	0	0	0	0	6
2	Pleasant Valley High School	2		2	2	0	0	0	0	2	8	4
3	Brighton High School	2	0		0	0	0	0	0	2	4	8
4	La Cueva High School	2	0	2		0	2	0	0	2	8	3
5	Brookfield Central High School	2	2	2	2		2	2	2	2	16 1st	7
6	Ladue Horton Watkins High School	2	2	2	0	0		0	0	2	8 4th	2
7	Canyon Crest Academy (HS)	2	2	2	2	0	2		0	2	12 3rd	1
8	Niskayuna High School	2	2	2	2	0	2	2		2	14 2nd	5
9	St. Croix Educational Complex High School	2	0	0	0	0	0	0	0		2	9

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Fermi

Fermi National Accelerator Laboratory (FNAL) - Batavia, Illinois - http://www.fnal.gov/
FNAL is America's particle physics and accelerator Laboratory. FNAL's vast complex of particle accelerators powers research into the fundamental nature of the universe. The flagship Deep Underground Neutrino Experiment, supported by the Long-Baseline Neutrino Facility, will be the first international mega-science project based at a DOE National Laboratory. FNAL integrates U.S. researchers into the global particle physics enterprise through its experiments and programs. The Laboratory's scientific R&D advances particle accelerator, detector and computing technology for use in science and society.

	Team	1	2	3	4	5	6	7	8	Total Points	DTC Ranking
1	University High School		2	2	2	0	2	2	2	12 2nd	2
2	Stockdale High School	0		2	2	0	2	2	2	10 3rd	6
3	Saint John's School (HS)	0	0		0	0	0	0	0	0	8
4	Hunter College High School	0	0	2		0	2	2	2	8 4th	4
5	Montgomery Blair High School	2	2	2	2		2	2	2	14 1st	1
6	Fayetteville High School East	0	0	2	0	0		0	2	4	3
7	Brookings High School	0	0	2	0	0	2		2	6	5
8	Billings West High School	0	0	2	0	0	0	0		2	7

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Lawrence Berkeley

Lawrence Berkeley National Laboratory - Berkeley, California - http://www.lbl.gov/
Berkeley Lab is charged with conducting unclassified research across a wide range of scientific disciplines. Berkeley Lab is a leader in energy conservation, designing better materials and greener buildings. Berkeley Lab designs and builds the most powerful microscopes, brightest x-ray light sources and fastest computers. Berkeley Lab was founded in 1931 by Ernest Orlando Lawrence, a UC Berkeley physicist who won the 1939 Nobel Prize in physics for his invention of the cyclotron, a circular particle accelerator that opened the door to high-energy physics. It was Lawrence's belief that scientific research is best done through teams of individuals with different fields of expertise, working together. His teamwork concept is a Berkeley Lab legacy that continues today.

	Team	1	2	3	4	5	6	7	8	Total Points	DTC Ranking
1	Ray High School		0	0	0	0	2	0	0	2	2
2	Whitney Young Magnet High School	2		2	2	0	2	0	0	8 4th	4
3	Bismarck High School	2	0		2	0	0	0	0	4	8
4	Connections Homeschool Program (HS)	2	0	0		0	0	0	0	2	7
5	West Windsor-Plainsboro High School North	2	2	2	2		2	0	2	12 3rd	6
6	New Mexico Military Institute (HS)	0	0	2	2	0		0	0	4	3
7	North Hollywood Senior High School	2	2	2	2	2	2		0	12 1st	1
8	Carmel High School	2	2	2	2	0	2	2		12 2nd	5

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Princeton Plasma

Princeton Plasma Physics Laboratory (PPPL) - Princeton, New Jersey - http://www.pppl.gov/
PPPL is a collaborative national center for plasma and fusion energy sciences. It is the only DOE Laboratory devoted to these areas, and it is the lead U.S. institution investigating the science of magnetic fusion energy. PPPL has two coupled missions. First, the Laboratory develops the scientific knowledge to realize fusion energy as a clean, safe and abundant energy source for all nations, leading development of the physics of high-temperature plasmas needed for fusion. Second, PPPL develops plasma science over its broad range of physics challenges and applications. Modern plasma physics began with the advent of the world fusion program, and continues to lead to new discoveries in the nonlinear dynamics of this complex state of matter.

	Team	1	2	3	4	5	6	7	8	9	Total Points	DTC Ranking
1	Ravenwood High School		2	0	0	0	2	2	0	2	8 4th	7
2	Valley High School	0		0	0	0	0	0	0	0	0	9
3	Clements High School	2	2		2	0	2	2	0	2	12 3rd	1
4	Twin Falls High School	2	2	0		0	0	0	0	2	6	8
5	Wayzata High School	2	2	2	2		2	2	0	2	14 2nd	4
6	Catlin Gabel School (HS)	0	2	0	2	0		0	0	0	4	6
7	Centerville High School	0	2	0	2	0	2		0	0	6	5
8	Lakeside School (HS)	2	2	2	2	2	2	2		2	16 1st	2
9	Troy High School	0	2	0	0	0	2	2	0		6	3

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Renewable Energy

National Renewable Energy Laboratory (NREL) - Golden, Colorado - http://www.nrel.gov/
NREL is the U.S. DOE's primary National Laboratory for renewable energy and energy efficiency research and development. NREL delivers impactful scientific discoveries, innovations and insights that transform clean energy technologies, systems and markets. The Lab's research focuses on engineering of energy efficiency, sustainable transportation, and renewable power technologies and provides the knowledge to integrate and optimize energy systems, delivering foundational knowledge, technology and systems innovations, and analytic insights to catalyze a transformation to a renewable and sustainable energy future.

	Team	1	2	3	4	5	6	7	8	Total Points	DTC Ranking
1	Stargate Charter School (HS)		0	0	0	0	0	0	0	0	6
2	University Preparatory School (HS)	2		0	0	2	0	2	0	6	4
3	Enloe High School	2	2		2	2	2	0	2	12 1st	1
4	Farmington High School	2	2	0		2	2	2	2	12 2nd	5
5	Baton Rouge Magnet High School	2	0	0	0		0	0	2	4	2
6	James Clemens High School	2	2	0	0	2		2	2	10 3rd	7
7	North Allegheny High School	2	0	2	0	2	0		2	8 4th	3
8	Mississippi School for Math and Science (HS)	2	2	0	0	0	0	0		4	8

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Savannah River

Savannah River National Laboratory (SRNL) - Aiken, South Carolina - http://srnl.doe.gov/
The multi-program SRNL puts science to work to provide practical, cost-effective solutions for environmental cleanup, nuclear security and clean energy. As the National Laboratory for DOE's Environmental Management program, SRNL applies its expertise across the DOE complex. Its unique facilities include labs for studying the processing and handling of radioactive materials, field demonstration sites for evaluating environmental cleanup technologies, labs for ultra-sensitive measurement and analysis of radioactive materials, and the Nation's only radiological crime investigation laboratory.

	Team	1	2	3	4	5	6	7	8	Total Points	DTC Ranking
1	Amarillo High School		2	2	2	2	2	2	0	12 2nd	6
2	Lincoln East High School	0		2	0	0	0	2	0	4	4
3	Oklahoma School of Science and Math (HS)	0	0		0	0	0	2	0	2	7
4	Naperville North High School	0	2	2		0	0	2	0	6	2
5	The Westminster Schools (HS)	0	2	2	2		0	2	0	8 4th	1
6	Ward Melville Senior High School	0	2	2	2	2		2	0	10 3rd	3
7	Transmountain Early College High School	0	0	0	0	0	0		0	0	8
8	Davidson Academy (HS)	2	2	2	2	2	2	2		14 1st	5

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SLAC

SLAC National Accelerator Laboratory - Menlo Park, California - https://www6.slac.stanford.edu/
SLAC pursues transformative research on some of the most important scientific questions and technology challenges within the mission of the DOE using cutting-edge accelerator facilities and light sources. Founded in 1962, SLAC has evolved into a multipurpose lab with research programs in materials, chemical, biological and energy science, matter in extreme conditions, cosmology and technology development. SLAC's mission leverages the Lab's intellectual capital, unique relationship with Stanford University, and location within Silicon Valley to: 1) innovate, develop, and operate world-leading accelerators, light sources and scientific tools; 2) deliver transformative chemical, materials, biological, and fusion energy science enabled by our unique facilities and define their direction; 3) perform use-inspired and translational research in energy; and 4) define and pursue a frontier program in particle physics and cosmology.

	Team	1	2	3	4	5	6	7	8	Total Points	DTC Ranking
1	Lexington High School		2	2	2	2	2	2	2	14 1st	1
2	American Heritage Schools, Palm Beach (HS)	0		0	2	2	2	2	0	8 4th	2
3	Thomas Jefferson High School for Science and Technology	0	2		2	2	2	0	1	9 3rd	3
4	Morgantown High School	0	0	0		2	0	0	2	4	6
5	Kelly Walsh High School	0	0	0	0		0	0	0	0	8
6	Lakeside High School	0	0	0	2	2		0	0	4	4
7	BASIS San Antonio - Shavano Campus (HS)	0	0	2	2	2	2		0	8	5
8	Centennial High School	0	2	1	0	2	2	2		9 3rd	7

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