

EMTSEF 2003 SENIOR WINNERS

	Last Name	First Name	Title	Award
Biochemistry				
S-BCHM-13	Rice	Zachary	Protein Interactions Using Nano-Metallic Barcodes	BCHM 1st place, UTA promising young chemist, Navy Award, Army Award
S-BCHM-02	Cadwallader	Stephan	Designing a Modified Atmosphere Packaging for Fresh Cut Produce: A Texas Salad	BCHM 2nd place
S-BCHM-01	Snider	Brett	Time to See the Light: A Second Year Study of Hydrogen Production in <i>Chlamydomonas reinhardtii</i>	BCHM 3rd place
S-BCHM-05	Codrea	Vlad	Computational identification of co-conserved genetic elements in sequenced bacterial genomes	BCHM honorable mention
S-BCHM-15	Lafer-Sousa	Rosa	Structure-Function Analysis of the Auxilin J-Domain	BCHM honorable mention
Behavior & Social Sciences				
S-BESS-30	Li	Jian Bai	The Faces of Liars	BESS 1st place
S-BESS-21	Horton	Rachel	Gender and Rumination	BESS 2nd place
S-BESS-32	Chopra	Nandita	The Phenomenon of Phi	BESS 3rd place
S-BESS-16	Pittner	Daniel	Effects of Distraction on Vigilance	BESS honorable mention
S-BESS-33	Trinh	Nicole	Twins: Nature's Clone	BESS honorable mention
Botany				
S-BOT-20	Malhi	Jupin	Resisting Tobacco Mosaic Virus	BOT 1st place
S-BOT-21	Clay	Jessica	Rubisco in C3, C4, and CAM Plants - II	BOT 2nd place
S-BOT-11	Lavine	Jason	From Diapers To Dirt: Improving Crop Yield - Year 3	BOT 3rd place
S-BOT-03	Klinkerman	Kate	Burning Brush: An Urban Dilemma...An Agricultural Opportunity	BOT honorable mention
S-BOT-10	Hanson	Kathleen	Fractal Nature of Plant Vascular Systems	BOT honorable mention
Chemistry				
S-CHEM-01	Cao	Yu	?? An Anti-Cancer Tree ?? (Phase IV)	CHEM 1st place
S-CHEM-04	Crouch	Kegan	BUGS AWAY! A Two Year Study	CHEM 2nd place
S-CHEM-15	Gellene II	Gregory	Rational Design of a General Optical Sensor for Biological Agents	CHEM 3rd place
S-CHEM-12	Petrofes	Rachel	Got Nitrogen? The Effects of Physical Activity on Soil	CHEM honorable mention
S-CHEM-20	Kucherka	James	SLICK? SLICKER? SLICKEST?	CHEM honorable mention
S-CHEM-13	Lightbody	David	Metal Corrosion	NACE International Corrosion Society Certificate of Merit
Computer Sciences				
S-COMP-09	Thompson	Jeff	Genetic Algorithms: A New Approach to Controlled Switched Networks	COMP 1st place, Intel excellence in comp. sci. (gr. 9-12), Navy Award, Army Award
S-COMP-21	Agarwal	Pulkit	Through the Eyes of AI	COMP 2nd place
S-COMP-17	Reggio	James	The .NET Dilemma: Trading Speed for Abstraction	COMP 3rd place
S-COMP-10	Coleman	Andrew	Is It Good To Be FAT?	COMP honorable mention
S-COMP-13	Somers	Marcelo	Overclocking: The effect of increasing a computer's speed on its performance	COMP honorable mention
Earth & Space Sciences				
S-EASS-11	Piziali	Vincent	Long Distance FM Communication	EASS 1st place, Yale Award
S-EASS-15	Weiner	Candice	The Effect of Sulfur Dioxide on the Stomates of Plants Grown in Elevated and Normal Carbon Dioxide Environments	EASS 2nd place
S-EASS-05	Laramey	Robert	By Jove Again! Observing Patterns in Jovian Radio Emissions	EASS 3rd place
S-EASS-04	Merrill	Anastasia	Dinosaurs, Do They Still Walk Among Us?	Association for Women Geoscientists-Student Award for Geoscience Excellence
S-EASS-08	James	Kaitlyn	Hydrology: A Study of Creek Erosion	Association for Women Geoscientists-Student Award for Geoscience Excellence
S-EASS-10	Oncescu	Cristian	Listening to the Atmosphere: Infrasound Signatures	EASS honorable mention
S-EASS-17	Turner	Elizabeth	The Orbital Trajectories of Jupiter's Galilean Satellites	EASS honorable mention
S-EASS-01	Blumberg	Jordan	The Effects of UV-B on <i>Pyrocystis lunula</i> : Year II	Award for Best Radiation Related Project from the South Texas Chapter of the Health Physics Society

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Engineering				
S-ENG-14	Gettig	Blake	More Power To You: Boosting Fuel Economy and Reducing Emissions Through The Use of Coated Engine Parts	ENG 1st place, Herbert Hoover Pres. Library Assoc.
S-ENG-07	James	Timothy	Efficiency of Electromagnetic Propulsion	ENG 2nd place
S-ENG-17	Ho	Madelyn	Nanoscopic Control of Protein Organization	ENG 3rd place, Material science award
S-ENG-15	Price	Blake	The Lift Assist	ENG honorable mention
S-ENG-23	Rodenbeck	Kyle	Solar Efficiency aided by Tactical Reflection	ENG honorable mention
S-ENG-08	Mueller	Eric	Icing is Such a Drag: Aerodynamic Effects of Ice Accretion on Wings at Multiple Angles of Attack	Eastman Kodak Award, Air Force Research Lab Century of Flight
S-ENG-32	Erkes	James	Skyhawk Down	American Institute of Aeronautics and Astronautics Excellence Award
Environmental Sciences				
S-ENVS-03	Singh	Manmohan	Houston Smog 3: Lungs Weep Through Proteins	ENVS 1st place, EPA Award
S-ENVS-30	Jackson	Megan	Wet 'N' Wild A 2nd Year Study	ENVS 2nd place, Stockholm water prize, EPA Award
S-ENVS-17	Clark	Colin	Against The Wind II	ENVS 3rd place, EPA Award
S-ENVS-04	Mims	Sarah	Smoke Bugs: Fungal spores are transported in smoke from biomass fires	ENVS A + M Young ecologist (\$150), EPA Award
S-ENVS-07	Raj	Sean	Bottled Water: How Safe Is It?	ENVS honorable mention, EPA Award
S-ENVS-26	Garner	Alissa	Smoking Pollution Solution	ENVS honorable mention, EPA Award
Gerontology				
S-GER-07	Shinkawa	Tami	Lycopene In Vitro Testing	GER 1st place
S-GER-09	Stuifbergen	Emily	Slowing Down	GER 2nd place
S-GER-10	Mangat	Jasdeep	The Effect of Calorie Restriction Upon Lifespan	GER 3rd place
S-GER-11	Qunibi	Danna	The effect of Telomere length in Hutchinson-Gilford cell lines	GER honorable mention
Mathematics				
S-MATH-10	Khachatryan	George	The Topology of Distance: Asymmetric Functions	1st place award, Army Award, Navy Award
S-MATH-08	Matteson	Andrew	GENERALIZED EXPANSIONS OF THE FIBONACCI SEQUENCE AND THEIR CONVERGENTS	2nd place award
S-MATH-11	Axtell	Andrea	When Direction Vanishes - Walking Straight or in Circles	3rd place award
S-MATH-09	Little	David	Graph Theory	honorable mention
S-MATH-01	Chai	Alice	Data Detectives: A Second Year Study of CRC Generator Polynomials: 32 Bit	honorable mention
Medicine & Health				
S-MED-24	Ghosh-Choudhury	Triparna	Effect of Fish oil on breast cancer: a second year study	MED 1st place
S-MED-07	Hong	Julian	Restraining Restenosis: Combating Vascular Disease-	MED 2nd place
S-MED-23	Kahn	Harrison	Reproductive Timing Affects Offspring Hardiness	MED 3rd place
S-MED-03	Xu	Risheng	Characterization of Live Oak Pollen Allergens - II	MED honorable mention
S-MED-27	Garcia	Patrick	Hyperglycemia Vs. Immune Response	MED honorable mention
Microbiology				
S-MICR-13	Li	Stephen	How Does Glucose Affect Cell Culture?	MICR 1st place, In Vitro Biology Award
S-MICR-04	DeSai	Sohum	Efficiency of DNA Entry and Expression in the Nucleus Compared to the Cytoplasm	MICR 2nd place
S-MICR-07	Hartman	Laura	The Quest for a magic Bullet	MICR 3rd place
S-MICR-01	Romeo	Richard	The Effect of Bee Propolis on Aerobic and Anaerobic Bacteria	MICR honorable mention
S-MICR-18	Le	Dat	Study of Bacteriocin Produced by Lactococcus lactis	MICR honorable mention
Physics				
S-PHYS-03	Wang	Benjamin	Control of Structural Vibration	PHYS 1st place
S-PHYS-02	Burger	Megan	Crystals: Fire & Ice (A Study of Thermoelectric Semiconductors)	PHYS 2nd place
S-PHYS-11	Hutcheson	Vanessa	Popcorn Perfection II	PHYS 3rd place
S-PHYS-09	Boykin	Tyler	Melonite & Martensites: A Study of Ferritic Nitrocarburizing	PHYS honorable mention, Air Force Research Lab Century of Flight Award, Outstanding Materials Science Project
S-PHYS-13	Shafer	Julie	Evaporation Rates, Do Factors Affect It?	Honorable Mention

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Team Life Science				
S-TMLF-01	Aramburu	Jason	Induction of Age-Related Resistance in Plants Through Abiotic Stress	TMLF 1st place, Army Award, Navy Award
S-TMLF-01	Mangat	Mandeep	Induction of Age-Related Resistance in Plants Through Abiotic Stress	TMLF 1st place, Army Award, Navy Award
S-TMLF-03	Boss	Lindsey	Modern Vs. Nature phase II	TMLF 2nd place
S-TMLF-03	Lee	Jessica	Modern Vs. Nature phase II	TMLF 2nd place
S-TMLF-05	Sillence	Thomas	Use of Oleander extract as a deer repellent	TMLF 3rd place
S-TMLF-05	Crandall	James	Use of Oleander Extract as a Deer Repellent	TMLF 3rd place
S-TMLF-13	Jimenez	Lucy	A Four Year Study of Nematicides: Finding A Solution for an Agricultural Crisis	TMLF honorable mention
S-TMLF-13	Pedroza	Cesilia	A Four-Year Study of Nematicides: Finding a Solution for an Agricultural Crisis	TMLF honorable mention
S-TMLF-22	Kim	Connie	By What Mechanism Do Sarcomeres Adapt to Distraction?	TMLF honorable mention
S-TMLF-22	Brandon	January	By What Mechanism Do Sarcomeres Adapt During Distraction?	TMLF honorable mention
Team Physical Science				
S-TMPH-14	Slowey	Alison	Sand Ripple Formations	TMPH 1st place
S-TMPH-14	Slowey	Shane	Sand Ripple Formations	TMPH 1st place
S-TMPH-09	Fontenot	Myranda	Ethanol as an Alternative Fuel	TMPH 2nd place
S-TMPH-09	Hart	Amanda	Ethanol as an Alternative Fuel	TMPH 2nd place
S-TMPH-09	Hadley	Kreg	Ethanol as an Alternative Fuel	TMPH 2nd place
S-TMPH-07	Czenkusch	Kevin	What is the Best Mapping Algorhythm	TMPH 3rd place
S-TMPH-07	Sanjar	Adam	What is the Best Mapping Algorhythm	TMPH 3rd place
S-TMPH-07	Elson	John	What is the Best Mapping Algorhythm	TMPH 3rd place
S-TMPH-01	Lopez	Paul	A Straight Flight To The Top: Phase Two	TMPH honorable mention
S-TMPH-01	Wagner	David	A Straight Flight to the Top: Phase Two	TMPH honorable mention
S-TMPH-02	Gloyna	Scott	Build a House of Straw	TMPH honorable mention
S-TMPH-02	Nelson	Bernie	Build a House of Straw	TMPH honorable mention
S-TMPH-02	Wilds	Jackson	Build a House of Straw	TMPH honorable mention
Zoology				
S-ZOO-05	Burrows	Russell	The Buzz on Bees: The Effects of Alcohol Inhibitors and Inducers on the Associative Learning of the Apis mellifera A third year study	ZOO 1st place, Army Award
S-ZOO-14	Navarre	Michael	HERBAL TENDENCIES	ZOO 2nd place
S-ZOO-21	Varavadekar	Rita	The Caffeinator	ZOO 3rd place
S-ZOO-17	Skrivanek	Sarah	Ant Archy	ZOO honorable mention
S-ZOO-11	Pollard	Melissa	Chewing Gum \$1.09, Potato Chips \$1.75, Living a Healthy Life, Priceless	ZOO honorable mention, Most promising young biologist

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Lockheed Awards				
S-GER-11	Qunibi	Danna	The effect of Telomere length in Hutchinson-Gilford cell lines	Lockheed Display Award
S-ENG-07	James	Timothy	Efficiency of Electromagnetic Propulsion	Lockheed 1st place
S-EASS-11	Piziali	Vincent	Long Distance FM Communication	Lockheed 2nd Place
S-MATH-01	Chai	Alice	Data Detectives: A Second Year Study of CRC Generator Polynomials: 32 Bit	Lockheed 3rd Place
Scholarships				
UT Southwestern				
S-MED-24	Ghosh-Choudhury	Tripama	Effect of Fish oil on breast cancer: a second year study	UT Southwestern Medical School Scholarship for \$5000
TAMU-Commerce				
	Dominguez	Lizzette		TAMU-Commerce State Science Fair Award (Scholarship)
	Weiner	Candice		" "
	Garcia	Perla		" "
	Kachman	Katrina		" "
	Chai	Alice		" "
	Little	David		" "
	Liang	Valerie		" "
	Boykin	Tyler		" "
	De Leon	Natalie		" "
	Bosquez	Lupe		" "
Texas Tech				
S-EASS-12	Camacho	Linda	Novae In M-31 2nd Year Study	Texas Tech University Mathematics, Science and Technology Award for \$10,000
S-BOT-10	Hanson	Kathleen	Fractal Nature of Plant Vascular Systems	Texas Tech University Mathematics, Science and Technology Award for \$10,000
S-MATH-09	Little	David	Graph Theory	Texas Tech University Mathematics, Science and Technology Award for \$10,000
S-ENVS-04	Mims	Sarah	Smoke Bugs: Fungal spores are transported in smoke from biomass fires	Texas Tech University Mathematics, Science and Technology Award for \$10,000
UTA Awards				
S-ENVS-04	Mims	Sarah	Smoke Bugs: Fungal spores are transported in smoke from biomass fires	Deans Award- For Most Significant Scientific Breakthrough
S-PHYS-03	Wang	Benjamin	Control of Structural Vibration	Deans Award
S-GER-07	Shinkawa	Tami	Lycopene In Vitro Testing	Deans Award
S-COMP-17	Reggio	James	The .NET Dilemma: Trading Speed for Abstraction	Presidents Award
S-MATH-08	Matteson	Andrew	Generalized expansions of the Fibonacci sequence and their convergents	Presidents Award
S-CHEM-15	Gellene II	Gregory	Rational Design of a General Optical Sensor for Biological Agents	Presidents Award
S-ENG-17	Ho	Madelyn	Nanoscopic Control of Protein Organization	Presidents Award
GRAND PRIZE AWARDS				
S-MATH-10	Khachatryan	George	The Topology of Distance: Asymmetric Functions	Best of Fair
S-BCHM-13	Rice	Zachary	Protein Interactions Using Nano-Metallic Barcodes	Grand Prize Life Science
S-COMP-09	Thompson	Jeff	Genetic Algorithms: A New Approach to Controlled Switched Networks	Grand Prize Physical Science
S-TMLF-01	Aramburu	Jason	Induction of Age-Related Resistance in Plants Through Abiotic Stress	Grand Prize Teams
S-TMLF-01	Mangat	Mandeep	Induction of Age-Related Resistance in Plants Through Abiotic Stress	