

National Engineers Week Future City Competition™

2003 Special Awards

List of Winners

1.	Best Use of Ceramics	Incorporating ceramic materials into the model and understanding their use	The American Ceramic Society (AcerS)	TEXAS (DALLAS/ FORT WORTH)	The Westwood School 14340 Proton Drive Dallas, TX 75244 972-239-8598 972-239-1028 -fax	Utopia	The name Utopia means "an ideal place." Utopia of 2107 is the height of technology. Residential communities are comprised of gardens and compost areas. Utopians travel via high-speed light rail and hybrid cars. Entertainment opportunities include a sports complex, casino, mall (9th Wonder of the World), and Landmark Lane, showing the nation's famous landmarks.	Samantha Schwendeman Meghan Mahaney Augusta Abene ---- Sheila Hamilton --teacher John Bishop --engineer -mentor
2.	Best Use of Aerospace Technology in a future city	Best Use of Aerospace Technology in a future city	The American Institute of Aeronautics and Astronautics (AIAA) National Capital Section (NCS)	PITTSBURGH	Harrison Middle School 129 Windvale Drive Pittsburgh, PA15236 412-885-7530 412-885-6766 (fax)	PROBE	Welcome to PROBE, an acronym for Pollution Revolution: Operations in Biotech Engineering. We specialize in solving industrial problems through biotechnology. Our waste treatment industry bioengineers duckweed to absorb pollution-causing nutrients from waste. Energy is produced from biomass to make ethanol to fuel our Smart Cars.	Eric Andes Justin Tomko Kelly Phillips --- Judy Morgan --teacher John Andes US Dept. of Navy --engineer mentor
5.	Best Indoor Environment	Design of Infrastructure Systems for environment that encompasses occupant comfort, productivity, energy	American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE)	ON that accommodates the most innovative systems (e.g., transportation, water and wastewater) for	Missouri Middle School 2202 Washington Street Bellevue, NE 68005 402-293-4260	Glacia	Glacia is located on the South Carolina coast, offers unlimited opportunity, high-quality living and innovative technology. Our name means "glowing ice", referring to the hydrogen fuel extracted from underwater	Meghan Hinton Casey Laski Mitchell Laski --- Susan Hester --teacher

		efficiency or air quality			402-293-4350 (fax)		methane deposits. Industrial activity centers on hydrogen power production, which is clean and inexpensive	Lt. Cmdr. Freddie Bazen United States Navy --engineer mentor
6.	Best Futuristic City	Use of futuristic engineering concepts into city's communications, energy, or transportation systems	American Society of Mechanical Engineers International (ASME International)	IOWA	Harding Middle School 4801 Golf Street NE Cedar Rapids, IA 52402 319-398-2254 319-398-2023 (fax)	Futura	"A Step Further in the World of Science." In the year 1969, man first set foot on the moon. The first words were, "One small step for a man, one giant leap for mankind." The city of Futura has taken man one-step farther. Built in the year 2079, Futura has become the envy of all other cities.	Jake Boyle Michael Caves Tyler Bertroche ---- Jean Oberbroeckling --teacher Dennis Keitel Hall and Hall Engineers, Inc. --engineer mentor
7.	Best Residential Zone	Strategic placement of residential zones that allow maximum return for quality of life issues	The Chinese Institute of Engineers/USA	OHIO	Heritage Middle School 390 N. Spring Road Westerville, OH 43082 614-797-6600 614-797-6601 (fax)	Cumulus	Like a cloud on the horizon, Cumulus rises out of the tranquil waters of the Pacific. A paradise, honoring peace and prosperity, Cumulus' founders engineered and designed the city as a refuge from world conflict. Citizens have enjoyed its many attributes, from its renowned educational modules, to its pioneering efforts in ecosystem design.	Matt Gauen Kenneth Skudder Brian Sherman ----- Linda Kelley --teacher Andrew Smith Collector Wells International --engineer mentor
8.	Best Futuristic Personal Transportation System	Creative design of innovative modes of personal transportation that are safe, clean and practical.	Ford Motor Company	FLORIDA	Epiphany Catholic School 5557 SW 84 th Street Miami, FL 33143 305-667-5251 305-667-6828 (fax)	Reconn	Reconn is a two-leveled city whose name is an acronym for the "waste-not" processes that make Reconn clean and self-sufficient: Recycle, biorEmediation, reduCe, Ocean, suN, wiNd power. Upper Reconn is a tropical ocean paradise! It is divided by waterways into 5 "gaps",	Laura Irastorza Gregory DiCarlo Mitchell Issa --- Oscar Pena --teacher Rod Rodriguez

							each providing special city services.	--engineer mentor
9.	Best Communication s System	Efficient and accurate	The Institute of Electrical and Electronics Engineers-USA (IEEE-USA)	PHILADELPHIA	Drexel Hill Middle School 3001 State Road Drexel Hill, PA 19026 610-853-4580 610-853-4585 (fax)	Octavia	In the year 2002, engineers devised a plan for a futuristic city that would exploit nature's most powerful wonders. The city was named Octavia after Marco Polo's mythical spider web city. Building began in the Bay of Fundy. The city was divided into sections including: Metalia, Aquatica, Geminata, and Acadia.	Philip Crone Marina Kec Rachel McKlondon ---- David Granger --teacher William Waldron Cingular Wireless --engineer mentor
10	Best use of automation and control in city systems and services	Streamline city operating systems through automation	ISA -The Instrumentation, Systems, and Automation Society (ISA)	MILWAUKEE	St. Mary Parish School 9553 W. Forest Home Ave. Hales Corners, WI 53130 414-425-3100 414-425-6270 (fax)	Luminescence	Our city, Luminescence, offers an enjoyable, quality lifestyle for its citizens. We are committed to excellent education and a strong infrastructure that is attractive to businesses, all in an environmentally friendly way. In our city, we have many recreational areas such as a breathtaking forest preserve, great parks, and a spectacular marina.	Philip Deisinger Justin Panhans Abby Stemper --- Jeannette Van Hecke --teacher Matthew Panhans, PhD Chairperson, Milwaukee School of Engineering (MSOE)
11	Best Use of Information Technology	Best integrated approach to electronic delivery of information and services.	National Aeronautics and Space Administration (NASA)	TEXAS (HOUSTON)	Atascocita Middle School 18810 West Lake Houston Parkway Humble, TX 77346 281-641-4600 281-641-4617 (fax)	Rhiannon	Named after the Goddess of transformation, wisdom, rebirth, and the moon, Rhiannon is a space-based city located in the permanent sunshine and permanent shadows of Shackleton Crater at the Lunar South Pole. Rhiannon achieves its great wealth by exporting energy to Earth.	Matthew Clifford Christina Tamayo Mark Thompson --- John Baron --teacher John Medler Schlumbergr, Indigo Pool.com

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12	Best Engineering Education, Research and Development	Best Engineering Education, Research and Development	National Science Foundation (NSF)	BUFFALO	Nativity of Our Lord School 4414 S. Buffalo Street Orchard Park, NY 14127 716-662-7572 716-662-2195 (fax)	Ciudad del Suelo	Welcome to Ciudad del Suelo. The city is located 200 feet below the earth's surface in North Dakota, United States. The reason for locating the city under ground is that in the year 2200, the ozone layer is very near depletion. The Plexiglas roof is tinted for ultraviolet protection but it also allows for natural sunlight to enter the city.	Michael Coverley Jeremy Blas Patrick Raab ---- Charlotte Tahk --teacher Stanley J. Blas SJB Services --engineer mentor
13	Protecting Public Health and Safety through Competent and Ethical Engineering Practices	Community encouragement and enforcement of engineering practice standards and a code of ethics.	National Society of Professional Engineers (NSPE)	NEW YORK CITY, NY	Valley Middle School 71 Oak Street Oakland, NJ 07436 201-337-8185 201-405-1237 (fax)	Puviaq Iniqpak	Puviaq Iniqpak, Bay City, is a port city located on the coast of Victoria Island, Canada. In the near future, factors such as global warming caused the ice around the latitude of Puviaq Iniqpak to melt, opening the Northwest Passage searched by the explorers of the 16th and 17th centuries.	Josh Skelley Owen Quinlan Matt Cha --- Judith Vihonksi --teacher Michael McNally McNally Engineering --engineer-mentor
14	Most Innovative Power Generation System	Creative concept for producing power for the city.	Navy Nuclear Propulsion Program	OKLAHOMA	First Lutheran School 1104 N. 4 th Street Ponca City, OK 74601 580-762-4243 580-762-4243 (fax)	Sky City	Sky City contains three distinct zone areas: residential, industrial, and commercial. The residential area is separated from the industrial by commercial. There are cameras located in each zone to monitor the entire city on a 24-hour basis. Water cannons, which are controlled by the fire department, are mandatory in all newly constructed high-rise buildings.	Eric Brunkow Wilford Collins Dylan Powell ---- Pamela Belzer --teacher Randy McDaniel --engineer mentor

15	Best Manufacturing Zone	Strategic placement of industrial zones that allow maximum return for quality of life issues.	Society of Manufacturing Engineers (SME)	ST. LOUIS, MO	Nipher Middle School 700 South Kirkwood Road Kirkwood, Mo. 63122 314-213-6180 314-213-6178 (fax)	Carero	Welcome to Carero, "The City of Crystal Waters". Located on the Caribbean coast of Venezuela, over 1,000,000 residents enjoy a wonderful view of the Orinoco River as it flows through the heart of our city. It has the most reputable hospitals on the continent, the lowest taxes in Venezuela, and an efficient transportation system.	Cait Hafer Roger Alessi Rebecca Peterson --- Mary Jo Brown --teacher William Gillispie WHG Consulting, Inc. --engineer mentor
16	Best Transportation System	Creative design of transportation system that allows both mobility and transport of goods and services	U.S. Department of Transportation - Federal Highway Administration (USDOT-FHWA)	WASHINGTON STATE	Lakeview Christian Homeschool Cooperative 420 169 th Street South Spanaway, WA 98387 253-531-2113	Charbah Oasis	The year is 2500; the ozone layer has been decimated and the world's natural resources are dwindling. As a result we have been forced to take refuge within the earth itself. Charbah Oasis is a self contained, viable city built in the depths of a mountain with several large biospheres externally located.	Jeffrey Coleman Chris Pyke Elizabeth Jones --- Tanya Begg --teacher Randy Johnson --engineer mentor
17	Excellence in Systems Integration	Demonstration of excellence in the design of integrated systems of people, material, information equipment and energy.	The Institute of Industrial Engineers (IIE)	CALIFORNIA (SOUTHERN – Los Angeles)	Jefferson Middle School 823 Acacia Avenue Oceanside, CA 92054 760-757-6060 760-757-5791 (fax)	Bioside	Bioside is an ideal, revitalized city located in the former area of Oceanside, California. Bordering the coastline of the Pacific Ocean, Bioside has a population of 650,000 in the year 2214. Bioside's ultimate goal is to implement clean, efficient, and innovative technologies.	Katie Bueche Christina Carabajal Karen Taylor ---- Erik Mateljan --teacher No engineer mentor of record
18	Best Model	Best physical scale model at National Finals	Lockheed Martin	LOUISIANA	St. Thomas More School 11400 Sherbrook Dr. Baton Rouge, LA 70815 225-275-2820	Nereid	NEREID (Nautical Educational Region Engineered In Depths). Located six hundred meters beneath the clear, cool waters of the Strait of Florida, Nereid is a bustling city of the	Colette Burke Stephen Demouy Julie Love ---

					225-275-0376 (fax)		twenty-fourth century protected by a self-healing plastic dome. Educated in the excellent school systems, over one million inhabitants work and play in this water wonderland.	Shirley Newman --teacher Tony Arikol, P.E Professional Engineering Consultants Corp. --engineer mentor
19	Special Judges Award	Special recognition by National Finals Judging team for best effort	United Engineering Foundation	MINNESOTA	Cook County Middle School Box 1030 Grand Marais, MN 55604 218-387-2273 218-387-9746 (fax)	Aspen Bay	Aspen Bay in the year 2294 is named for its Aspen lined bay, which includes a seaport that enhances commerce, a marina, and residential areas with bay views. With genetically engineered trees to take pollutants from the air and genetically engineered bacteria distributed throughout factories, homes, and in the water, we have eliminated pollution using biotechnology.	David Ege Jeffrey Plahuta Cody Smith ----- Kaye Tavernier --teacher Hyla Napadensky