

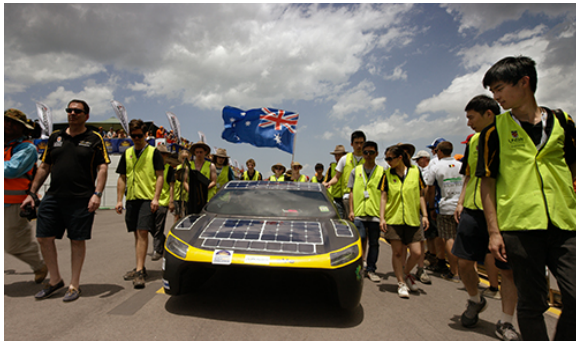


## Film Stills—Captions and Credits

Images can be downloaded here:

<http://marketing.dreambigfilm.com/images/>

All photos copyright American Society of Civil Engineers, except where noted.



### DB\_01\_SolarCarStart

Student engineering teams from around the world build sun-powered vehicles to compete in the World Solar Challenge, a 1,500-mile race across Australia to advance solar and transportation technology.



### DB\_03\_SolarCarDriver

A member of the student engineering team from Houston, Mississippi races the solar-powered car he helped build for the World Solar Challenge.



### DB\_02\_SolarCarTrack

A student engineering team from Houston, Mississippi competes in the World Solar Challenge, a solar car race across Australia.



### DB\_04\_SolarCarFinish

The engineering students from Houston, Mississippi cross the finish line of the World Solar Challenge car race.





#### **DB\_07\_China Bridge 1**

The Longjiang Bridge is the longest and highest suspension bridge in China. Spanning a distance almost equal to the Golden Gate Bridge, the Longjiang towers 900 feet above a river gorge in western Yunnan Province.



#### **DB\_08\_China Bridge 2**

Fourteen of the top 20 tallest bridges are located in China. The Longjiang Bridge is China's longest and highest suspension bridge. Spanning a distance almost equal to the Golden Gate Bridge, the Longjiang towers 900 feet above a river gorge in western Yunnan Province.



#### **DB\_09\_Shanghai Tower Sky**

On China's coast, where typhoons roar, engineers designed the Shanghai Tower with a twisting, spiral shape. Its aerodynamic design drastically reduces the impact of the wind on this 2,073-foot, 128-story structure, the second tallest building in the world.



#### **DB\_10\_Shanghai Tower Skin**

A close-up view of the Shanghai Tower's aerodynamic twist, which reduces the impact of typhoon winds on this 2073-foot, 128-story structure.



#### **DB\_11\_Shanghai Tower Sunset**

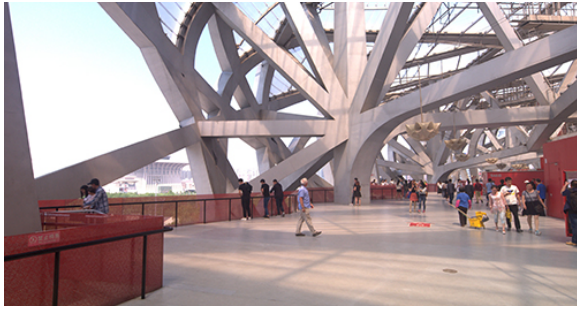
The Shanghai skyline includes the Shanghai Tower, where 16,000 people live, work and play. The skyscraper is the world's second tallest building, and its innovative design is featured in *Dream Big*.



#### **DB\_12\_Shanghai Sunrise**

On China's central coast, Shanghai engineers build ever-taller buildings to accommodate the city's 24 million residents. Its skyline includes the 2,073-ft Shanghai Tower, where 16,000 people live, work and play.





#### DB\_13\_China Birds Nest

Engineer Steve Burrows walks through the innovative design of the Bird's Nest Stadium in Beijing, China. Steel beams hide supports for the retractable roof giving the stadium the appearance of a bird's nest.



#### DB\_16\_Haiti Bridge Aerial

Engineers led by Avery Bang work on the new Chameau footbridge in Haiti. Bridges like these, built in developing countries, signal a new field of study and work called humanitarian engineering.



#### DB\_14\_Great Wall Flight

Engineer Steve Burrows studies the Great Wall of China from the air to better understand the design of this ancient marvel, which took 200 years to build and is more than 13,000 miles long.



#### DB\_17\_Haiti Bridge Crew

Engineers work on the final pieces of the Chameau footbridge in Haiti. The Chameau Bridge will provide much-needed access to schools and medical care for isolated, rural families.



#### DB\_15\_Great Wall Scenic

The Great Wall of China has endured for thousands of years. In *Dream Big*, viewers learn that in some sections of the wall, builders used sticky rice in the mortar, which enhanced its durability.

Copyright: Sophy Ru



#### DB\_018\_Haiti Girls

Haitian schoolgirls are among the first to walk across the newly built Chameau Bridge in Haiti. The bridge was built by the non-profit group Bridges to Prosperity, led by Avery Bang, which brings the benefits of engineering to developing countries.





#### DB\_19\_Haiti Thanks

Engineer Avery Bang celebrates with local Haitian families who will benefit from the new Chameau Bridge. Avery is the head of the non-profit group Bridges to Prosperity, which has built more than 200 bridges in impoverished countries.



#### DB\_20\_Falkirk Side

A bird's eye view from the top of the Falkirk Wheel: a rotating boatlift in Scotland. The Falkirk uses the same amount of energy as a washing machine and is designed to last 200 years.



#### DB\_21\_Falkirk Wide

Innovative engineers designed the Falkirk Wheel in Scotland, which moves boats between two different levels of canals. It is the only rotating boat lift of its kind in the world.



#### DB\_22\_Falkirk Dock

The Falkirk Wheel, a rotating boatlift in Scotland. Lead architect Tony Kettle used a Lego model to demonstrate the mechanism to clients and funders.



#### DB\_23\_Freddy Angelica

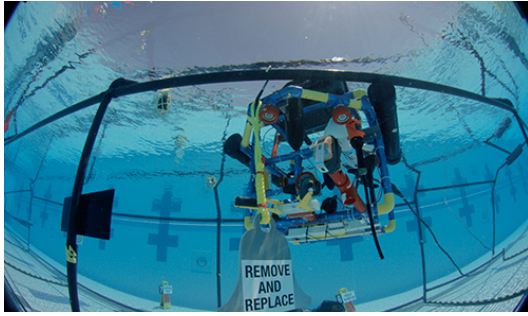
Fredi Lajvardi, head of the Robotics Team at Carl Hayden High School in Phoenix, Arizona, with Angelica Hernandez, whose robotics team unexpectedly beat MIT during an underwater robot competition.



#### DB\_24\_Robot Prep

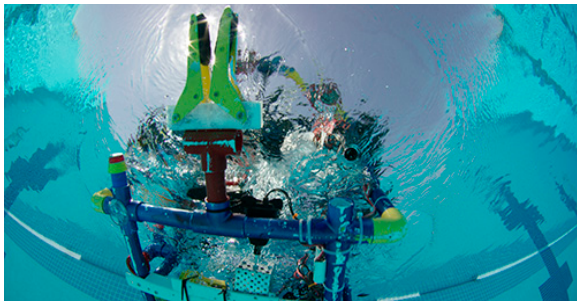
Engineer Angelica Hernandez mentors students from her former Phoenix high school as they prepare to enter a robotics contest.





#### **DB\_26\_Robot Pool Task**

"Stinky" the robot completes a task during an underwater robot competition. The team of high school engineers at Carl Hayden High School in Phoenix, Arizona surprised everyone with their robot and their ingenuity.



#### **DB\_25\_RobotStinky**

"Stinky" the Robot competes in an underwater robotics competition. The team of high school engineers at Carl Hayden High School in Phoenix, Arizona surprised everyone with their robot and their ingenuity.



#### **DB\_27\_Menzer Classroom**

*Dream Big* delves into the inspirational story of civil engineer Menzer Pehlivan, who as a young girl experienced a devastating earthquake in Turkey. Here, Menzer uses everyday items to demonstrate to children how engineers design and build earthquake-proof structures.



#### **DB\_28\_Menzer Coaster**

Engineer Menzer Pehlivan and a group of children enjoy a ride on a roller coaster; a feat of engineering that brings fun and thrills to people everywhere.



#### **DB\_29\_Ivanpah**

The Ivanpah Solar Electric Generating System is the largest solar thermal power plant in the world. Located in the Mojave Desert, the Ivanpah deploys 173,500 heliostat mirrors and has a gross capacity of 392 megawatts. Engineers in the clean tech industry look for ways to use renewable energy to help build a more sustainable future.



#### **DB\_30\_Golden Gate Aerial**

An engineer performs a routine inspection of the Golden Gate Bridge in San Francisco, California. The Golden Gate is a suspension bridge designed by a team of engineers in the 1930s. Up until 1964, it was the longest suspension bridge in the world.





### **DB\_31\_China BTS**

The MacGillivray Freeman film crew shoots atop an ancient world wonder, the Great Wall of China, for a scene in *Dream Big: Engineering Our World*.

*Dream Big: Engineering Our World* is a MacGillivray Freeman film in partnership with the American Society of Civil Engineers, presented by Bechtel Corporation.