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Fellow, Wings World Quest
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29th Annual Regional Local Road
Conference
Rapid City, South Dakota
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Wind, Pyramids, Obelisks & Beer
and Its Relevance to Modern Road
Construction

All Truth Passes Through 3-Phases:

First, it is ridiculed.
Second, it is violently opposed.
Third, it is accepted as self-evident.

Schopenhauer

My Challenge

- Manual labor?
- Sand?
- Ramps?
- Hydraulics?

Current Theories

- Ramps
- Levers
- Manual Labor
- Aliens
- Harmonic Sound Waves
The Monuments of Antiquity

- Obelisks - 40 to 455 tons
- Pyramid stones: 2.5 tons to 70 tons
- Stonehenge, Malta, Easter Island, and pyramids and massive stone structures of South America

Mind vs. Brute Force
This is how the pyramid was made: like a set of stairs, which some call battlements and some call altar steps. When they had first made this base, they then lifted the remaining stones with levers made of short timbers, lifting them from the ground to the first tier of steps, and, as soon as the stone was raised upon this, it was placed on another lever, which stood on the first tier, and from there it was dragged up to the second tier and on to another lever. As many as there were tiers, so many were the levers; or it may have been that they transferred the same lever, if it were easily handelable, to each tier in turn, once they had got the stone out of it.

*Herodotus, 484c - 424 c BC*

“Give me six hours to cut down a tree, and I'll spend the first four sharpening the axe”.

Abraham Lincoln

The Vikings

What was Available?

- Sand
- Nile
- Wind
The Climate

- Inundation
- Several windy seasons

Ed Teets, NASA

At the request of Uther Pendragon, Merlin brought these stones "in a whirl-wind one night out of Ireland."

Egyptians were credited with inventing the sail, usually made of reinforced flax.
Kites
- June 1997 Smithsonian profiled a kite festival in Washington, D.C.
- One kite, shaped like an Octopus, had a 2,000 pound (one ton) pull.
- Trilobite Kite, 7 tons in a 5mph wind
- Lift and Pull

The Cedars of Lebanon
- Strong
- Flexible
- Easily split into lengths

Rope & Line
Ropes were of flax, hemp, papyrus, or esparto grass
Are they symbols or ... are they tools?
Ancient Pulleys

The pulleys were used to lift heavy loads. In ancient times, the single pulley could be used to lift an object at a single angle of degree. It could be used to slowly, gradually, lift an object such as a rock or a heavy statue. The ancient Egyptians used a pulley, or a series of pulleys, to lift heavy objects. They would have used a series of pulleys to lift heavy objects, such as statues or building materials. The pulley was a simple machine that allowed for the lifting of heavy objects with less force.
Pulley or Gear?
Core Team

- Dr. Mory Gharib, Professor of Aeronautics, California Institute of Technology
- Daniel Correa, L.D, Universidad del Sol, Cuernavaca, Mexico
- Emilio Castano Graff, Graduate Student, California Institute of Technology
- Dr. Elizabeth Barber, Occidental College
- Troy Chaput, Ironworkers Union
- Edward Harrison Van O'Linda II
- Edward Teets, NASA Meteorologist
- Dr. Leland Shapiro, Pierce College
- Dr. Nabi, Pierce College
- Mark and Melanie Cripe

Is the Wind Theory Feasible?

450-ton obelisk (100 feet tall)

*Slave* Method:
- 6,500 workers, 3000-foot ramp, several days.

*Charlton Heston Method* (aka Sand Pit Method)
- 3,400 workers, 3000-foot ramp, 5 hours.

Kite Method
- 16 workers, 8 kites, 48 pulleys, 120-foot tower, 6 hours.

Dr. Mory Gharib, Caltech
Unsteady Force

- We noticed the huge advantage that unsteady forces could give us during our field tests.
- This inspired us to take the first step toward antiquity — to test in the wind tunnel a simple land-sail-type kite designed specifically to produce unsteady force spikes.

Wind Tunnel Tests

Test Results
History Channel
Documentary
Trailer
Flying Pyramids
Soaring Stones

Twenty years from now you will be more disappointed by the things that you didn't do than by the ones you did do. So throw off the bowlines. Sail away from the safe harbor. Catch the trade winds in your sails. Explore. Dream. Discover.

Mark Twain

Perma-zyme
(active ingredient enzymes)

- Mix the ground thoroughly with water
- Mix the Perma-zyme with water and mix with the soil.
- Compact the ground
- Wait three days

Budweiser

- Permazyme Ground **119.6** pounds per cubic foot (compacted with 11-ton roller)
- Beer-treated Ground **110.6** pounds per cubic foot (compacted by six kid’s feet)
- Native Ground **102.8** pounds per cubic foot (non-compacted)

Permazyme Ground
119.6 pounds per cubic foot (compacted with 11-ton roller)

Beer-treated Ground
110.6 pounds per cubic foot
(compacted by six kid’s feet)

Native Ground
102.8 pounds per cubic foot
(non-compacted)
Is Beer Literally the Foundation of Civilization?

- Budweiser pad
- Yeast pad
- Water pad
- Beer and Yeast Pad

Coors

- Native Ground: 112.7 pcf
- (pounds per cubic foot)
- Ground Mixed with Water and Compacted: 114.8 pcf
- Ground Mixed with Beer and Water and Compacted: 121.2 pcf
Maximum density of native soil 132pcf

Beer treated soil relative compaction: 91.8%

Water treated pad relative compaction: 87%

Native ground relative compaction: 85.3%

Typical grading and earthwork guidelines relative compaction requirements: 90%

Transporting 2-Ton Stone

Stone at Beginning of Ramp

Mid-way!
Positioning

Perfectly Placed

Nylon Traction Sail: July 2004
Cannon Balls
Scepter or Chisel?
Wings World Quest Expedition Flag #11

Wonders of the Wind

North Dakota Roads
- Bakken Formation
- Oil and water trucks battering the dirt roads
- Gravel vs. Permazyme

North Dakota News Video
Wildrose in April 2012 with no grading since September 2011.

Landing Strip, Minot ND
- Haul Roads
- County Roads
- Fire Roads
- Driveways
- Feed Lots
- Equipment Yards
- Airstrips
- Potato Sheds
- Ponds

Can we use this idea for other monuments?

- Megaliths of Malta
- Easter Island
- Stele of Ethiopia
- Stonehenge
- Temple Mount
- Central America
- South America

Mars by Carl Conkle

Mars by Gregg Miller
Cal Poly Pomona
Gary McGavin

- 106-ton true pyramid
- 53 2-ton pyramid stones
- Collaboration with:
  - Cethys University, Tijuana,
  - University del Sol, Cuernavaca
  - Precast/Pre-stressed Concrete Manufacturers Association of California
Moving the 2-Ton Stone Video

Discoveries
- Wind as an engine of construction
- Symbols with distant origins as tools
- Beer as a soil stabilizer
- River rocks as natural ball bearings
- Carvings on the pedestal of the Central Park Obelisk
- Constant unsteady force

Soaring Stones

Thus, the task is not so much to see what no one yet has seen, but think what no one yet has thought about that which everyone sees.

Schopenhauer