

International Science Center **New Technology Photo Gallery**

Our Future Awaits

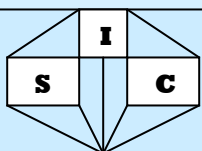


**

nuclear reactor. (Image by Rama, CC)

New Technology Marvels **Photo Gallery**

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International Science Center
New Technology Photo Gallery

New Tech
Photo
Gallery

Welcome

Welcome
to the
World of Science

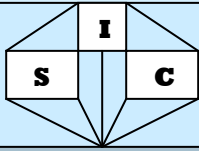
Welcome

A Resource for All Science Information

The
ISC Science Information Project
Is a joint project of participating
Individuals and Organizations
for the sole purpose of enabling
rapid access to
The World's Knowledge
In
Science, Technology and Engineering

The Project provides direct links to view science data from NASA, NOAA, DOE, EPA, DEP, DOI, NPS, USDA, ED, USGS, NIH, SI Research Centers, et al., in the governmental sector, from universities, colleges and laboratories, from technical societies around the world (AGI, AGU, GSA, NESTA, etc.), and from science, engineering and technical information available thru our international partners and the independent research and testing organizations.

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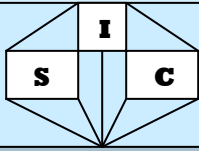
New Technology Marvels Photo Gallery

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http://www.youtube.com/watch?v=jQ-aWFYT_SU&feature=related 4.27 m
<http://www.youtube.com/watch?v=gRZzlhEuEHw&feature=related> Germany 4.22 m
<http://www.youtube.com/watch?v=mx207UXtGxg&feature=related> 6.41 m



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Welcome

World's
First
Advanced
Floating
Gas
Refinery

35,000
Tons

Welcome
to the
World
of
Science

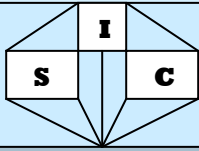
World's First Advance Floating Gas Refinery



The World's First Advance Floating Gas Refinery took 7 years from concept stage to engineering completion and further 2 years for construction. This giant refinery weighs 35,000 T and 100,000 T with the carrying vessel (Blue Marlin of Dockwise BV). Refinery was constructed in **Spain** and presently operating for one of the gas fields in **Artic Circle**. Dec. 4, 2008 <http://qualityjunkyard.com/2008/12/04/worlds-first-advance-floating-gas-refinery/>

http://culturewav.es/public_thought/30073

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Welcome

World's
Largest
Ship

Almost
1 Mile
Long

25
Stories
High

Holds
50,000
Residents

World's Largest Ship Planned **"Freedom"**



**

Freedom will be large enough to bring on more than 50,000 residents, 15,000 employees, 20,000 day guests. Taller than the highest buildings in most American cities and topped with a runway that can handle jets. Features incredible new multiple propeller concept. Designed to withstand Tsunamis.

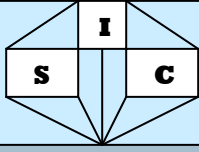
Photo Credits to: <http://qualityjunkyard.com/2009/03/22/city-at-sea-plans-for-the-worlds-largest-ship/>

Engineering The Impossible - Freedom Ship

<http://video.google.com/videoplay?docid=8962310630082930010> 28.19 m

Views nicely in small screen.

3,000,000 Tons **max. speed 10 knots**



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Welcome

World's
Largest
Ship

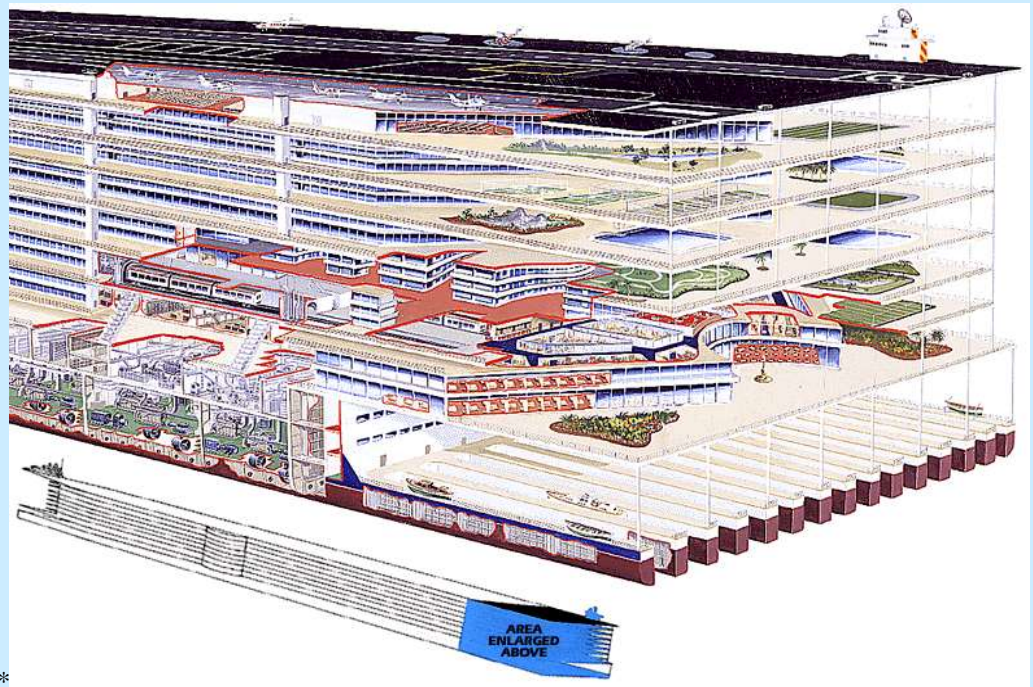
Almost
1 Mile
Long

25
Stories
High

Carries
115,000
People

Welcome to
the World of
Science

Superstructure **World's Largest Ship - Freedom**



**

It's dimensions are so colossal that it will have to be assembled at sea.

Once it's built, Freedom will circle the earth every two years.

The ship will be capable of carrying as many as **115,000** people

Her "citizens" will leave their 15-ft. by 80-ft. ocean-view apartments and board their private jets or yachts for jaunts to shore.

The traditional keel is missing because Freedom is constructed of 520 airtight steel cells. Each will measure 80 ft. tall. Depending upon its location, each will be 50 to 100 ft. wide and 50 to 120 ft. long.

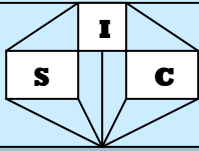
Freedom's captain will be able to simply sketch the ship's route on a touch-screen and the \$6 billion ship would find its own way.

Credits to: <http://qualityjunkyard.com/2009/03/22/city-at-sea-plans-for-the-worlds-largest-ship/>

Unique Concept Video

http://www.youtube.com/watch?v=b_YEWGoCcn0 0.58 m

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**Wärtsilä-
Sulzer
RTA96-C**

**Biggest
Engine
in the
World**

**95,000
HP**

**Welcome
to the
World
of
Science**



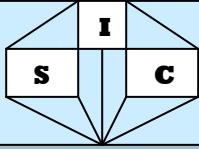
*

Wärtsilä-Sulzer RTA96-C the biggest engine in the world
2300 Tons 76 ft. long 44 ft. wide 95,000 HP 24 knots ship speed
www.youtube.com/watch?v=jXHvY-zY9hA 2.47 m

**If the Seven Wonders of the World were updated for the 21 st century, the
Wartsila-Sulzer RTA96-C turbocharged two-stroke diesel engine would be a
contender.**

<http://gcaptain.com/emma-maersk-engine/>

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Welcome

Three
Gorges
Dam

World's
Largest
Hydro-
Electric
Power
Plant

Welcome to
the World of
Science

Three Gorges Dam



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three gorges dam IbUoR 7071

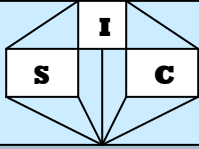
Taking shape of the largest hydroelectric power plant in the world and that too by a long shot, the Three Gorges Dam in China is not just spectacular to watch but enormous in magnitude. Generating 22.5 GW of power it will supply energy amounting to 4% of China's national needs. Creating a reservoir as large as Lake Superior, this dam will be good as a grand marvel of modern engineering by becoming the world's largest concrete structure!

Credit to: <http://www.gizmowatch.com/entry/20-marvels-of-modern-engineering/>

<http://www.youtube.com/watch?v=a6ioHuJOm3I>

6.59 m

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Welcome

Palm Deira **of Dubai**

World's
Largest
Man- made
Island

46.35
Million
Square
Meters

Welcome to
the World of
Science

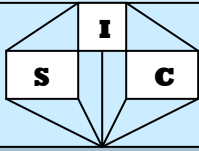
Palm Deira of Dubai



Palm Deira is the latest of Dubai's trilogy of man-made islands. This island will occupy all of 46.35 million square meters of land reclaimed from the Persian Gulf to make the **Palm Deira** the largest man-made island in the entire world. All set to be finished by the year 2013, the island will further alter the landscape of effervescent Dubai!! Credit to: <http://www.gizmowatch.com/entry/20-marvels-of-modern-engineering/>

http://www.dailymotion.com/video/x1ww8d_dubai-palm-jumeirah_tech
10.20 m

*



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Welcome

Birds **Nest**

World's
Largest
Steel
Structure

2008
Olympic
Games

Welcome to
the World of
Science

Birds Nest

2008 Olympic Games



*

birds nest h8Pf2 7071 2008

The Bird's Nest in the heart of Beijing needs little introduction to anyone, and it is one structure that has now become synonymous with the Olympic Games.

Apart from its grand, yet unique design, the stadium is the world's largest steel structure. No other man-made structure used up as much steel as the Olympic Stadium, with its intricate yet hypnotic design. That surely sets it apart in terms of being a one of a kind venue in the sporting world.

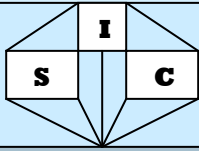
Credit to: <http://www.gizmowatch.com/entry/20-marvels-of-modern-engineering/>

Beijing Bird's Nest Amazing Construction

<http://www.youtube.com/watch?v=OQWliQx5T48> 5.07 m

<http://www.youtube.com/watch?v=JsDY1Ha83M8> 13.06 m

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Welcome

Burj-Al Arab Hotel

World's
Tallest
Operating
Hotel

Welcome to
the World of
Science

Burj-Al-Arab Hotel



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burj al arab LCgZF 7071

Tallest operational hotel in the world.

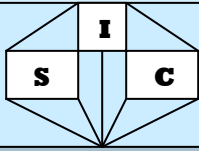
By now almost everyone knows about the Burj-Al-Arab, and if you have not heard of it or seen its picture till now, then welcome back to earth. The hotel stands at a height of 321 meters and is the tallest operational hotel in the world.

While the Rosa Tower is set to soon take away that crown, it still will not diminish the unique aura of the Burj, with its unique shape and its own artificial island. This is one hotel where you can live it up in a grand style!

Credit to: <http://www.gizmowatch.com/entry/20-marvels-of-modern-engineering/>

<http://www.youtube.com/watch?v=cKOOFOQ-OTmM> 8.32 m

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Welcome

Kingda **Ka** **Roller** **Coaster**

Tallest
fun ride
in the
world.

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the World of
Science

Kingda Ka Roller Coaster



kingdaka ride kezfx 7071

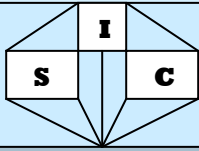
Tallest fun ride in the world.

At a **height of 456 feet**, the **Kingda Ka Roller Coaster** is **the tallest fun ride in the world**. Located in the **Six Flags Theme Park in New Jersey**, the ride will take you into a different world and even before you know it, you will be **plunging back towards earth at a speed of 128 mph**. This heart-stopping and mind-numbing ride is not just the tallest in the world but also the most exhilarating. This is a modern marvel that is just for fun and adrenaline, and that makes it our personal favorite!!

Credit to: <http://www.gizmowatch.com/entry/20-marvels-of-modern-engineering/>
<http://www.sixflags.com/greatadventure/rides/kingdaka.aspx> **0.20 sec.**

What a Ride!

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Welcome

Viaduc de **Millau** **Bridge**

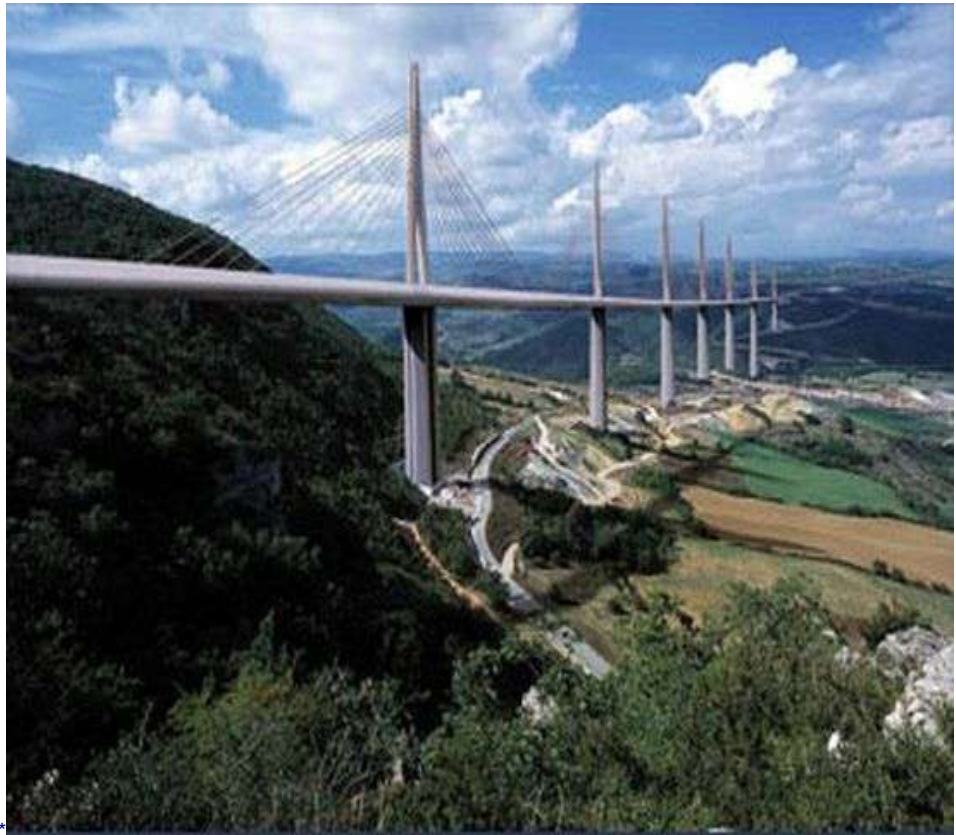
World's
Tallest
Suspension
Bridge

1,132 feet

343 meters

Welcome to
the World of
Science

Viaduc de Millau Bridge



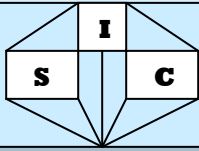
** worlds tallest suspension bridge j5LN 7071

Clouds often form underneath it.

The Bridge above the Clouds - France

Stretching higher than the Eiffel Tower, the Viaduc de Millau Bridge is a marvel of art and architecture that caught the eye of even flamboyant French President Jacques Chirac. Stretching across southern France's Tarn River Gorge, it is 1.6 miles (2.6 kilometers) long and soaring to 1,132 feet (343 meters) at its highest point, it is the tallest bridge in the world. Built by the firm that also built the Eiffel Tower, its spectacular presence bowls over one and all! Credit to: <http://www.gizmowatch.com/entry/20-marvels-of-modern-engineering/> <http://www.jitourism.com/the-highest-and-most-beautiful-bridge-in-the-world-le-viaduc-de-millau-of-bridge-with-the-construction-of-the-most-amazing/>

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Welcome

Akashi **Kaikyo** **Bridge**

Longest
Suspension
Bridge
in the
World.

4 Miles

Welcome to the
World of
Science

Kashi Kaikyo Suspension Bridge **Japan**



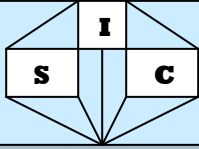
*
akashi bridge longest suspension bridge UMErX 7071

Longest suspension bridge in the world.

The **Akashi Kaikyo** Suspension Bridge is the **longest suspension bridge in the world** and is a spectacular visual delight. It apparently took **2 million workers 10 years** to construct the bridge, **181,000 tons of steel** and **1.4 million cubic meters of concrete**. The **four-mile bridge** links the **island of Awaji** and the mainland **city of Kobe**. This is probably one man-made marvel that even the Japanese are proud about and look at in awe!

Credit to: <http://www.gizmowatch.com/entry/20-marvels-of-modern-engineering/>

<http://natgeotv.com/ca/big-bigger-biggest/videos/the-akashi-kaikyo-bridge> 1.58 m
Incredible Nat Geo [bridge comparison around the world.](#)



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Welcome

Hangzhou **Bay** **Bridge**

Longest
Road
Bridge
in the
World.

36 Km

Welcome to the
World of
Science

Hangzhou Bay Bridge **China**



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largest road bridge Af5SZ 7071

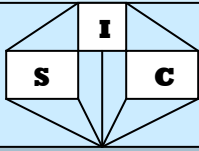
Longest road bridge in the world.

There is something about bridges that we just cannot get enough of. It is just the scientific knowledge and the engineering skill involved in building them that makes them stand out as **technical pieces of art**. The Hangzhou Bay Bridge is the **longest road bridge in the world** and another Chinese marvel that made it to our list. **The £840 million Bridge**, measuring **36km**, spans Hangzhou Bay to link China's financial hub and the port city of Ningbo to the south. The fact that it is **anchored in waters that are 60 meters deep in places** and yet is so solid and spectacular makes it a feat of **accomplishment indeed!**

Credit to: <http://www.gizmowatch.com/entry/20-marvels-of-modern-engineering/>

<http://www.bbc.co.uk/news/world-asia-pacific-13976281> 1.03 m

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ISC New Tech Photo Gallery

Welcome

**CERN
LHC.**

**Largest
Particle
Accelerator
in the
World.**

**Welcome to the
World of
Science**

CERN LHC



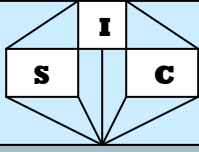
hc idbYQ 7071

CERN's Large Hadron Collider gives us the ability to change our understanding of the world around us and give us the reasons of our own existence, **CERN's LHC** is for now the most spectacular and important technological marvel modern science has created. The **particle accelerator** is now in operation, and the **large construction 17 miles in circumference** will surely make the coming two decades the most exciting for modern physicists. It's truly amazing creation that could answer the questions about the creation and existence of this universe itself!

Credit to: <http://www.gizmowatch.com/entry/20-marvels-of-modern-engineering/>

<http://www.youtube.com/watch?v=s9XotvwgnaY> 5.43 m

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International Science Center **New Technology Photo Gallery**

ISC **New Tech** **Photo** **Gallery**

Welcome

PAN **STARRS** **-1**

Largest
Digital
Camera
in the
World.

Welcome to the
World of
Science

Pan STARRS-1



Worlds largest digital camera mudCH 7071

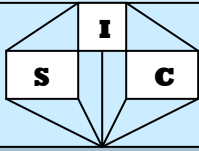
Built at Manoa's Institute for Astronomy in Honolulu at the University of Hawaii, the largest digital camera has been installed on the Pan STARRS-1 telescope on Haleakala, Maui. This digital wonder along with the telescope will form one of the most powerful observatories on the planet and will monitor the cosmos constantly. Credit to: <http://www.gizmowatch.com/entry/20-marvels-of-modern-engineering/>

Supermassive Black Hole Caught Shredding a Star

Caught by NASA's Galaxy Evolution Explorer and

Pan STARRS-1

http://www.nasa.gov/mission_pages/galex/galex20120502.html



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New
Tech.
Matrix

Auto
Factory
of the
Future

Welcome
to the World of
Science

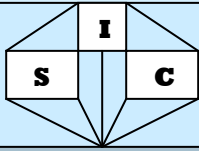
Factories of the Future
VW Factory
in
Downtown Dresden



You may assist in building your own car in this factory!

<http://www.youtube.com/embed/nd5WGLWN1IA?rel=0>

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International Science Center New Technology Photo Gallery

New Tech. Matrix

Inflatable Bridges

Welcome to the World of Science

Inflatable Bridges

University of Maine and Maine DOT



Replacing Our Nation's Decaying Bridge Infrastructure

Step 1: UNPACK IT

Workers unroll a 32-foot-long carbon fiber tube, inflate it with an air pump, and set it on a frame that bends it into an arch.

Step 2: SET UP

Builders set each 70-pound arch into place by hand and then screw corrugated sheets of fiber-reinforced polymer resin across the top of the arches. These sheets transfer the weight of the cars and trucks to the arches.

Step 3: FILL the Arches Workers fill the hole in the top of the arches with concrete.

Step 4: PAVE IT Several days later, the bridge is covered with sand and paved. The entire process, including the demolition of the old bridge, takes just 11 working days.

<http://www.compositesworld.com/articles/bridge-cost-cut-with-inflatable-arches>

http://www2.umaine.edu/aewc/images/stories/web_uploads/pop_sci.pdf

Bridge-in-a-Backpack



AEWC

Advanced Structures & Composite Center

http://www.nesmea.uconn.edu/pdf/09_frp_arches-dagher.pdf

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