

INFORMission Weekly



Editor : Sumer Sharma

10th August - 16th August 2013, Issue 13

Welcome to the Thirteenth Issue of INFORMission Weekly

The objective of this newsletter is to try and capture informative, interesting and relevant happenings from around our world and country across the week, without a focus on crime and sensationalism. The concept is that anyone can tune in on a weekly basis into a couple of pages and stay informed and updated. INFORMission Weekly will evolve in design, format medium and content as we go along. If you have any comments or feedback, do write into informission.weekly@gmail.com

Naval Supremacy



India's Automobile Industry: Growth Despite the Recession



Sindhurakshak Tragedy

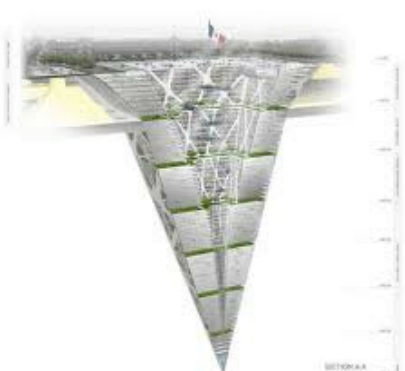


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The Future of Green Fuels: Ammonia



EARTHSCRAPER



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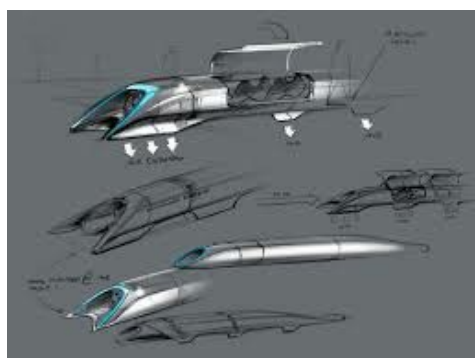


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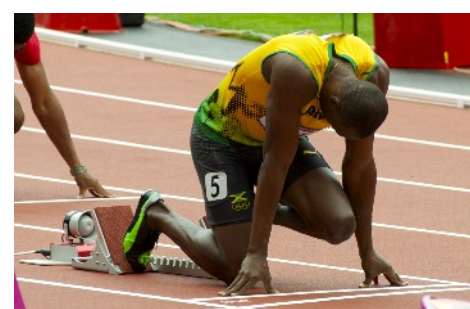


The Old Grey Wolf/ Flickr

The HyperLoop



The Lightning Bolt



A Story of.....Naval Supremacy



Its official: India is now **the world's fifth country with indigenous aircraft carrier producing capabilities**

ties, i.e., the only country in the world other than France, US, UK, and Russia that can produce its own aircraft carriers. Technically, we are the fifth country that “can” build and “has” built a carrier that is **over 40,000 tons** – a proper giant warship - in this case, the **INS Vikrant, which was inaugurated on Independence Day.** It was a very important day for the Indian navy as **aircraft carriers are extremely important, usually serving as the flagship and pride of a naval force, and in battle, providing mobile air-strike capabilities – the ability to build them is the landmark of a global superpower.** Also, once it is operational, India will become **only the third country to have more**

than one carrier in service, aside from Italy and USA, a huge military advantage for the nation. And its massive too – almost twice the size of Japan's Izumo (from our last issue) – and can fit **2 football fields on its deck!** But there was another landmark Indian naval achievement last week, almost as significant, as **India's first nuclear powered, ballistic missile (nuclear missile) launch capable submarine, the INS Arihant, went “critical”.** That means the nuclear reactor powering the submarine has passed the test, and is fully operational – India became **the sixth country to design, build and operate its own nuclear-powered and nuclear capable submarine.** It means **we can launch a nuclear missile from anywhere – land, air or sea – and possess a powerful submarine too.**



India's Automobile Industry: Growth Despite the Recession

India can take pride in the fact that **its automobile industry is continuing to grow and flourish beyond wildest hopes on the international market, despite the struggling state of its economy.** A recent report explained how 3 cars made exclusively in India for the Indian markets alone were now finding markets around the world – the **Ford Figo, Suzuki Ertiga, and Toyota Etios – 3 made in India cars being driven in Indonesia, Brazil, South Africa, and other nations** as a result of India's growing car export industry. India's exporting of cars is not new – its **exporting of**

'Made in India' cars is. And not just cars – homegrown **Mahindra & Mahindra Ltd.** has begun to



experience huge success in the tractor business **it has started in the US and around the world – recently becoming the largest**

tractor producer of tractors globally, and second largest in the US. The popularity of 'Made in India' vehicles continues to increase internationally, as locally too, the industry is booming. **Detroit was once the car capital of the world – now Chennai makes more cars –** with a number of foreign automobile giants like BMW, Mercedes, Volkswagen, etc., **establishing production plants there** and all over India. India is becoming the world's new producer and market for cars – that is something that will revolutionise the country, the industry, and the world.

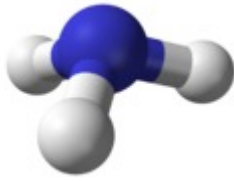
Sindhurakshak Tragedy

While mentioning India's naval triumph – it is also important to condole the **tragic loss of lives of 18 navy personnel** in the submarine tragedy off the coast of Mumbai. India's **Kilo-class submarine INS Sindhurakshak sank** off the coast of Colaba in Mumbai **after catching fire due to 2/3 explosions** in the fully armed vessel while it was docked in the harbour **post returning from repairs in Russia.** Our prayers for the families of the navy crewmen.



The Future of Green Fuels: Ammonia

Everyone who has studied high school chemistry (yes, that includes you) knows that **Ammonia is NH_3** – with three hydrogen atoms bonded with one nitrogen atom. What is interesting to note is that **it provides energy when burnt with no polluting chemicals** since the **products of burning ammonia are water vapour and nitrogen – both of which are already present in the atmosphere** and are not polluting. Actually **using ammonia as a fuel was just a dream so far** since it is **extracted from “polluting” hydrocarbons like coal and natural gas** and used up a lot of energy. However, a revolutionary



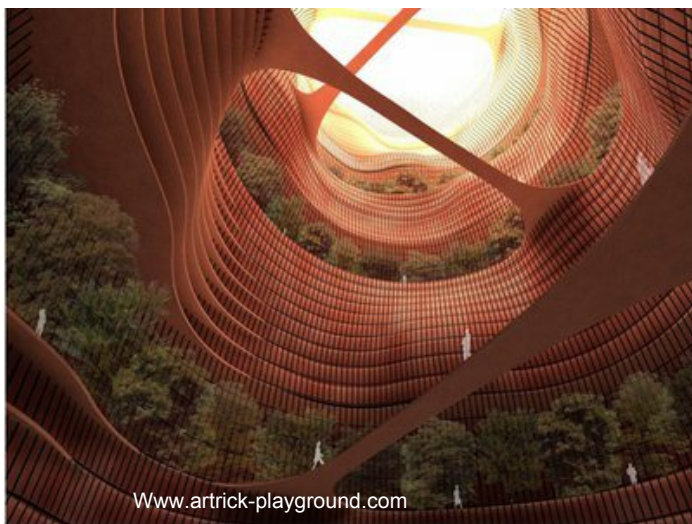
new technique discovered recently called **Solid State Ammonia Synthesis** by John Holbrook **makes ammonia out of water vapour and atmospheric nitrogen**. The technique now being commercialised by **his company NHThree** does use energy but if the energy used to create the ammonia is clean – such as a windmill or a solar plant, then **the ammonia can be used to power cars, planes and other machines**. In the past

Ammonia has been famously used to power streetcars in New Orleans, buses in Belgium and in **the X-15 Hypersonic aircraft (shown below)** which can fly at **almost 5000 km/h - Ammonia Power!** The fuel will be **completely clean** since the nitrogen and water produced **can just be released back into the atmosphere**. The **atmosphere is 79% Nitrogen** and the planet's **surface is 75% water** - all that's needed is a little clean energy to **manufacture ammonia** and **voila - we have a clean fuel to use once the dirty ones run out!**



EARTHSCRAPER

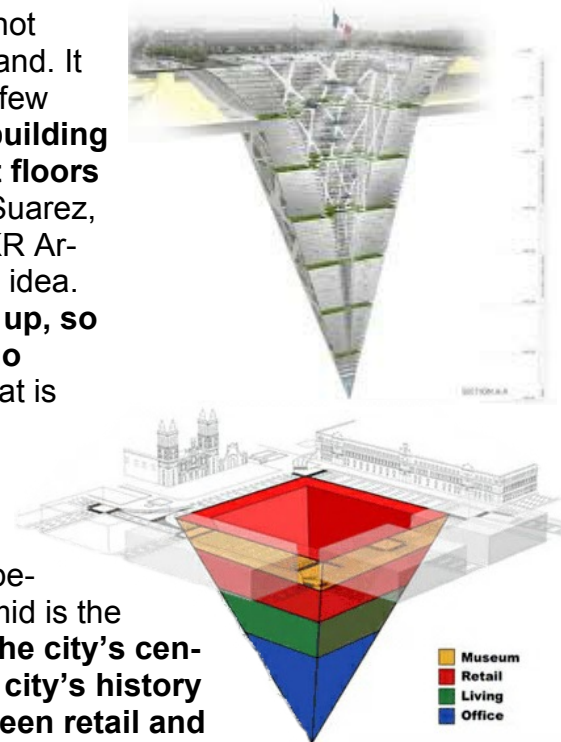
Karjaaride Korrastamine/Picasa



Www.artrick-playground.com

Mexico City does not have a lot of free land. It also has a quite a few height limits - **no building can be over eight floors tall**. So, Esteban Suarez, co-founder of BNKR Arquitectura had this idea. **They couldn't go up, so they decided to go down instead**. That is what the '**Earthscraper**' is about. When it comes to the shape of the

building, there's nothing that special. It is only a pyramid, after all. Albeit, **an upside-down, underground pyramid**. The base of the pyramid is the highest part. It will be the surface. The structure is to be built **under the city's central plaza**. The first ten floors are to be **a museum dedicated to the city's history** and its artifacts while the next **twenty floors are to be divided between retail and housing**. The bottom half of thirty five floors will be office space - **a total of 65 floors underneath**. The inverted pyramid will have **a central void to allow for some much needed natural light and ventilation**. There will be **plants and trees in 'earth lobbies'** which have the purpose of **improving air quality**. **Renewable energy could be generated by a turbine powered from collected groundwater - its green, too**. It may even have its own metro station so that the plaza doesn't get too crowded and the underground metro system might pass through it. This is **an idea that could truly revolutionize architecture and it might even redefine the term 'tall'**. For all we know, a whole 'Earthline' will exist soon.



Massacre in Cairo The Battle For Egypt Begins

Whether the Muslim Brotherhood's forceful removal from power (see Issue 7) **was a people's revolution or a military coup, there is no longer any doubt about its nature**, and the future it has laid out for troubled Egypt. For, on Thursday, **the military showed their true colours in a horrific massacre in Cairo that left**



almost 150 dead, according to reports, as similar clashes all along the Nile left between 500 and 1000 Egyptians dead in the last few days. Most of these were Muslim Brotherhood (the democratically elected Islamist party which was removed from power in July by the army & secular liberals, followed by the military arresting its members and banning it completely) supporters – protesting the military “coup de tat”, but many were **general Egyptians – shocked when Egypt's troublesome, ruthless army came back into power with popular support.** Was it a coup? – Yes, it was, but a popular **coup, supported by Egypt's moderates, secularists, democrats, and liberals, who felt that the Brotherhood's unpopular Islamist policies were oppressing Egypt's people.** But they seemed to forget that this was **the same army, police and judiciary that ruthlessly killed and oppressed Egypt**



under tyrannical dictator Hosni Mubarak, who have, for years, dealt in assassinations and coups, who should have been deposed along with the dictator – but survived as remnants of the old regime. And they turned their back on the supporters by **declaring a state of emergency** – it sounds like nothing – but was **the weapon Mubarak used to**

keep control and absolute power for 30 years, and it is a depressing sign that the army will do the same. The **resignation of Vice President Mohamed ElBaradei, one of the premier moderates of the army installed interim government, following the atrocities, shows decline of moderate support for the army – and little hope for democracy.** Some Brotherhood leaders have vowed peaceful retaliation, but already **many have promised to take up arms to avenge the killings, and related Islamist factions have begun a full blown insurgency in North-East Egypt – a sign of the battle to come.** The army's **stupidly brutal reaction continues to reduce its support, while increasing sympathy for the Brotherhood has divided Egypt straight down the middle.** Just like Syria, **the moderates are being choked in a worsening conflict between military dictators and violent Islamists.**

Premier League KickOff: Your Who's Gone Where Guide

The English Premier League is resuming today - all the football fans - you may go crazy.....now. The table alongside tells who's gone where this transfer season for the big EPL clubs. The return of Essien to Chelsea after a year at Real Madrid under loan is another significant development, while a few more changes could take place before the transfer window ends

Your Favourite Club	It's New Manager	Hi Profile New Players	Arriving From Where	Letting go of
Chelsea	Jose Mourinho	Schurrle Ginkel Schwarzer Cuevas	Bayer Leverkusen Arnhem Free O Higgins	Benayoun Ferreira Hilario Malouda
Manchester United	David Moyes	Varela	Penarol	Scholes
Manchester City	Manuel Pellegrini	Fernandinho Navas Negredo Jovetic	Shakhtar Donetsk Sevilla Sevilla Fiorentina	Tevez Toure Bridge Macon
Arsenal		Sanogo	Auxerre	Arshavin Denilson
Liverpool		Alberto Aspas Mignolet Toure	Sevilla Celta Vigo Sunderland Man City	Carragher Carroll Shelvey Downing
Tottenham Hotspur		Soldado Paulinho Chadli	Valencia Corinthians Twente	Gallas Dempsey Caulker

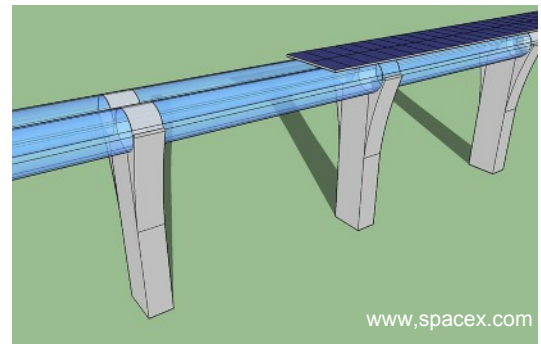
on 2nd September. Major battles still raging are for David Luiz (Chelsea vs Barcelona), Gareth Bale (Tottenham vs Madrid), Wayne Rooney (United vs Chelsea), and Luiz Suarez (Liverpool vs Arsenal). We look forward to an exciting pre World Cup season - United without Ferguson - anything could happen. Don't miss - kickoff today!

The HyperLoop

Elon Musk, the famous founder and CEO of **SpaceX** (the private space flight company) and other crazy new ventures, **who aims to send 80,000 people to Mars and set up a SpaceX Mars colony** has again been making news with his very futuristic yet **undeniably amazing idea for superfast travel - "the Hyperloop"**. A new form of transportation that would

enable travel at almost supersonic speeds, cost less to build than high speed rails and would be cheaper than air travel. Elon Musk just a few days ago revealed diagrams and theory about the "Hyperloop"-which in his own words was just short of actual teleportation. To describe it **vaguely consists of floating**

pods inside a special transportation tube – as the picture depicts. What is kind of amusing is that **Musk is so busy running his companies Tesla &**



SpaceX – that the Hyperloop design and concept has actually been revealed as an open source with Elon Musk quoted **"Somebody Please build this"** –seeing Musk's track record of success with "seemingly crazy ideas" –one can safely say that the "Hyperloop" **won't be "hypothetical" for very long!**

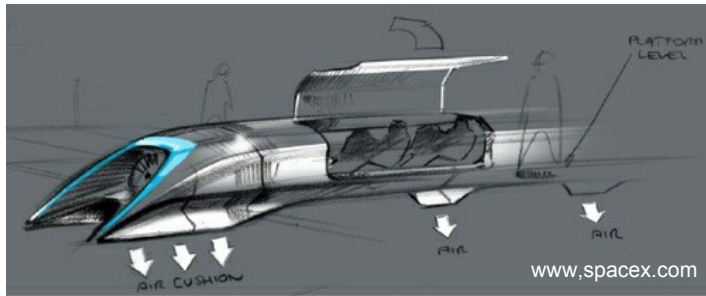


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The Lightning Bolt

Usain Bolt – the indomitable, the invincible, 100m & 200m world record holder bagged another couple of golds at the Athletic World Championship in Moscow. It was spectacular to see Bolt run as he did in 2009, **effortlessly reclaiming the title - so far ahead of any other man - simply a joy to watch**, whether you enjoy athletics or not. At the end of his rainy 9.77 second 100m run, **a bolt of lightning arced across the sky, as the other one flew across the line - both captured by one insane snap** - selling for lakhs now. Crazy, right?



Nick Webb/ Flickr

Leaders to Know Dalai Lama

His Holiness, the Dalai Lama, **is the spiritual leader of the Tibetan People** – he is the 14th Dalai Lama (Head Monk) . He was declared the political ruler of Tibet in 1950 at the young age of 15 - but unlike the Supreme Ayatollah or the Pope, he **was never born with any cross border power or influence - he has earned his place in the world.** In 1959 he was **forced to escape into exile in India**, when the Chinese troops suppressed the Tibetan uprising. He has since then been living Dharamsala in Northern India. He was the **winner of the Nobel Peace Prize** in 1989, in recognition of his non violent campaign for over 40 years to end Chinese domination of Tibet. The Dalai Lama is recognised as a **respected world icon/leader**, consistently labouring to obtain democracy for his people in Tibet - **never giving up on his principles of universal respect for all, non-violence and peace.**



Jan Michael Ihl/jmi.cc

