

Cybertecture ~ Innovating the Fabric of Mankind

Mosaicque magazine is privileged to feature **Cybertecture** a world class designer architecture firm based in Honk Kong, which has an outrageously bold vision of James Law, a decorated Young Global Leader of World Economic Forum. The underlying principle of Cybertecture is to innovate the very fabric of mankind through their designs that focus on a spirit of forward looking innovations. Cybertecture integrates technology, multimedia, intelligent systems and user interactivity to create customizable living and working spaces that focus on experience of residents.

“In the 21st Century, buildings will be different from 20th Century”, say James Law Cybertecture International, “They are no longer about concrete, steel and glass, but also the new intangible materials of technology, multimedia, intelligence and interactivity. Only recognizing this will bring a new form of architecture to light, namely a Cybertecture.”

James has designed several award winning iconic architectural projects of Cybertecture, including THE PAD building in Dubai - an intelligent residential building that is inspired by modern lifestyle technologies; THE CYBERTECTURE EGG in Mumbai - a parametrically designed office building that is entirely column-less and has strong green characteristics; THE TECHNOSPHERE building in Abu Dhabi - a 10 million square foot spherical building that mimic the ecology of the Planet Earth as a sustainable mega structure. This project was recognized with the World Architecture Award 2009 by CNBC and HSBC.

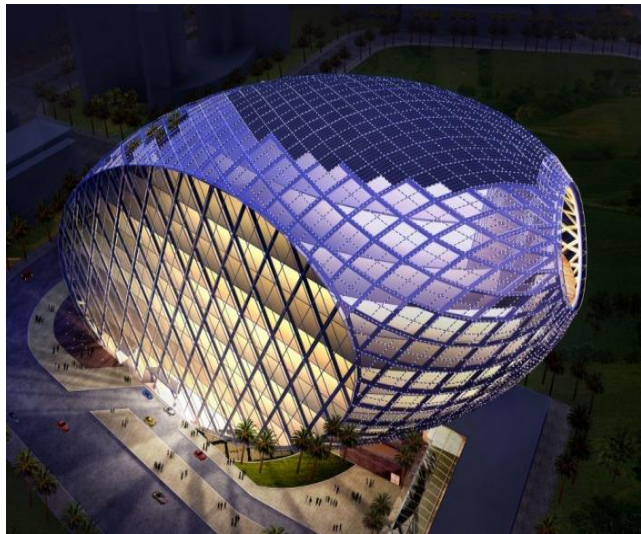
MOSAICQUE magazine is privileged to feature the internationally renowned designer-



architect James Law and the 21st century outrageously bold, visionary, eco-friendly structure the Cybertecture Egg, based in Mumbai. Cybertecture Egg, working theme is a step further with ‘cybertecture health’ – interactive features that monitor occupant’s vital health statistics, like blood pressure and weight. In keeping with the focus on health and wellness, users can customize their views with real time virtual scenery.

This smart and egg-shaped building, design features include the sky gardens, PV solar panel farms, intelligent glass facades and water recycling system. James Law has been commissioned by Vijay Associate (Wadhwa Developers) to create an office unlike any other in Mumbai, India. The 32,000 sq m egg-shaped build will accommodate 13 floors of offices and 400 parking spaces, bringing together iconic architecture, environmental design, intelligent systems, and new engineering to create an awe-inspiring landmark in the city.

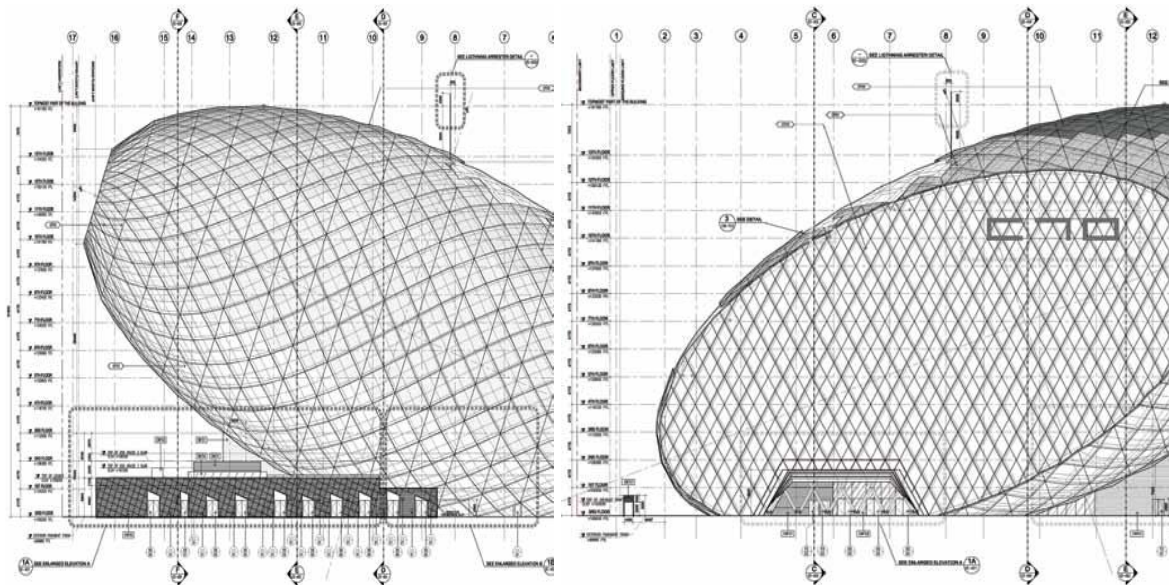
The concept was inspired, according to the designers, by considering the world as an ecosystem allowing life to evolve. This intelligent world egg is self-contained, nestled in the heart of an organism. Elements of the design and intelligence systems will work together to give the building's inhabitants the 'best space to work in'. And this includes monitoring their health. Within the building, there will be a series of innovative systems such as 'cybertecture health' in the washroom which is designed to keep track of the inhabitant's health including blood pressure and weight. The data collected may be retrieved and sent to a doctor if deemed necessary.



Cybertecture Egg building has used dia-grid, thanks to the external skeletal structure generated strong structural system, the ground plate and has used wide range of column less flexibility - a mastery of the traditional vertical buildings. The developers have used building materials that has given 15 active savings.

The oblong office building incorporates passive solar design to decrease heat gain and lower energy loads. An elevated garden also moderates temperatures by using natural vegetation to assist with cooling the building envelope. The Cybertecture Egg will use solar photovoltaic panels and rooftop wind turbines to generate onsite electricity. Water conservation will be managed with a greywater recycling system that will harvest water for irrigation and landscaping.

The Cybertecture Egg consists of the following state of art technology:



1. Orientation of the building: The building is ideally positioned; sunlight and heat are gained most to minimize the sun.

2. Sky Gardens: Building has green areas of shade against the sun to provide oxygen to refresh, and for the people to rest. These gardens cool the back of the building and act as water conversion filters for wet areas beds.

3. PV Solar Panel Farms: Building has solar photovoltaic cells integrated in the facade, thus solar energy alternative electrical supply is provided.

4. Smart Glass Facade: The building's glass solar facade is state of art, blending various shades and glass.

5. Water Recycling System: Building encompasses drinking water recycling, rainwater recovery system, waste water purification systems, filtration and wetland cell system as a combination. With these systems in place the building achieves 20 percent effective recycling rate.

6. Groundwater Cooling: Building has deep underground reservoir placing underground cooling system, providing natural underground cooling system

7 Intelligent Building Management System: The Building Management System is made in such as way that it uses less energy or more residents in place reduce energy use targets.

It is hoped this building will act like a “jewel” for the new Central Business District of Mumbai, and will be a worthy neighbour to other esteemed buildings in the district.

James Law also mentor’s Young Architects Program, which is for Young Students who inspire to be architects.



James Law Profile:

James is the founder of design firm James Law Cybertecture. He is a Young Global Leader of the World Economic Forum; a Council Member of World Economic Forum Global Agenda Council on Design & Innovation; Board Member of the Hong Kong Design Center and twice nominee for the Asian Innovation Award.

James is a qualified architect who graduated from the Bartlett School of Architecture, University College London. He practiced in Japan and UK before founding his own company in 2001 in Hong Kong to develop designs of Cybertecture encompassing future city planning, architecture, interiors and products all focused with a spirit of forward looking innovation.

James has also designs and manufactures his own product line including THE CYBERTECTURE MIRROR, a bathroom mirror that uses a combination of screen and glass technology to augment your reflection with useful applications including exercise, health monitoring and information. This product won the Thomas Edison Award 2012 and a Design for Asia Award 2011 and is shortlisted for the Asian Innovation Award 2012.

Aside from running his company, James teaches as a visiting Adjunct Professor at KAIST, Korea; and is an occasional TED Talk speaker.