



newsletter of the
northern chapter the Indian institute of architects

www. iianc.org

Vastu Samvad - 2011

DELHI 2011 - CENTENARY CELEBRATIONS BEGINS

This year, New Delhi, the National capital of modern day India, turns one hundred years old. On 12th December, 1911, the National Capital of the then colonized India was shifted by the British from Kolkata to Delhi. Several events and celebrations have been lined up, that involve the participation of the people of the city.

- Weekend book bazaars that feed the literary appetite of book lovers will soon be organised in the city in celebration of the hundred years since the shifting of India's capital in 1911. The bazaars will be organised by the National Book Trust.
- A Madhubani scroll etched with the Qutub Minar, the Red Fort and other iconic landmarks in Delhi is part of a mega crafts project initiated to mark the anniversary. The 6 feet by 4 feet scroll that collapses to fit into the palm of a hand, is set to be created by Madhubani artist Heera Kanth in association with city's design students after a 2-day workshop under the initiative of the non-profit Happy Hands Foundation. The project 'CapitalD' intended to be a public art installation is set to travel to various public locations in Delhi. Printed replicas of the scroll will be available as souvenir for the public. The HHF has also planned a series of events till a mega festival in December that marks the culmination of the year-long celebrations.
- The Delhi Tourism Board is organising an "Itra and Sugandhi Mela" which will host talks and lectures on perfume making, aroma therapy and other related topics.
- An organisation called the Blindboys held a photo exhibition in the streets of Pallika Bazaar showing photos of Delhi through the times.
- The Rashtrapati Bhavan will open The 'Lutyen's Gallery' which will showcase the original building plans of the Rashtrapati Bhavan and photographs showing different stages of construction.
- A public art installation will be held at the National Institute of Fashion Technology. The art exhibition will be organized in different parts of the city. Organised by the International Council for Cultural Relations, a jazz festival will be held, featuring bands from India, France, Italy, Canada, Sweden and Germany.
- The IIA also has plans to host a Mega Event in this context, the details of which shall follow soon.

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FORTHCOMING EVENTS OF INTEREST

Young Architects Festival (YAF) Contemporary Architecture-Beyond Corbusierism

Seminar in Chandigarh on 14-15-16 October, 2011.

Session - 1 Chandigarh: Tryst with Modernism.

Session - 2 Vernacular Architecture and Modernism.

Session - 3 Modern Architecture-Global

Perspective.

(more details on page - 05)

UIA 2011 TOKYO on 25 Sep - 1 Oct 2011

The 24th World Congress of Architecture is described as the "Olympics of Architecture," It is a major international architectural event that attracts around 10,000 architects, engineers, researchers and students. On the theme of "DESIGN 2050" it will provide all the participants with opportunities to discuss the future of architecture and cities.

(more details on page - 05)





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Board may or may not subscribe to the same in part or in whole.

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EDITORIAL

Dear Fellow Professionals,

Time has elapsed since this periodical last reached out to you. You may have missed us, but we sincerely hope you haven't forgotten us! We have lots and lots of news and information to catch up on...

While every effort has been put in towards making this periodical an exciting and enriching experience, we apologise for any error inadvertently made and shall ensure they never recur.

We once again invite everyone to contribute articles on issues of concern in the profession today. We also invite your valuable suggestions and views regarding this episode of the periodical and shall make all possible efforts to accommodate the same in subsequent issues.

At this stage we, the editorial team, are therefore putting in a humble effort to get this issue together, constantly striving to make this handy document find its place back on every architect's "desk (top!)" Looking forward to getting back in touch with you all.

Happy Reading!!

Ar Archana Khanna Gupta
Editor



CHAIRMAN'S MESSAGE



Dear Members

Greetings from Northern Chapter of I.I.A It is a matter of joy and hope that Vaastu Samvad is back in circulation after a very long time.

Vaastu Samvad had been our communication link for a longtime and we would like to reactivate this once again.

Our sincere apologies for not being a good communicator for some time. We look forward to your active participation in activities of the chapter, sharing your experience, knowledge, problems facing the practice and above all, jointly striving to create a Sustainable Habitat through our Profession and Institute.

At the Institute, we always strive for a better tomorrow through share and care !

CHEERS !!

Yours

In the Profession,
Ar. ABHIJIT RAY.

Snippets - Forthcoming Issue

- From the Academic Desk - Issues on Architectural Education.
- Inputs from Architectural Institutes covered under the geographical spread of The Northern Chapter.
- Student's Competitions.

Participation Invited

Inviting contributions in the form of Suggestions, Articles, News, and Advertisements including corrections in facts stated, if any.

We also request for any corrections in the addresses/ phone nos./email ids as mentioned in the IIA Architects Directory.

Please send corrections to iiandelhi@hotmail.com

Members Who have joined Us

FELLOWS (Delhi)

Sanjay A. Kanvinde
B.K. Tanuja
Jaideep Agarwal
Gupta B. Bhushan
Ramesh C. Khosla
Jasmeet Singh
Manish Kumar Jain
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Divya Saini
Surender Singh
Mansi Trehan
Gurdip Vij

ASSOCIATES (Himachal Pradesh Center)

Twinkle Chauhan
Suman Sharma

Just Out

• Ar. Raj Rewal appointed Chairman

Ar. Raj Rewal appointed as The Chairman of The Delhi Urban Arts Commission, w.e.f. June, 2011.

• Registered Architects to Sanction Blueprints within a week

(Source - The Times Of India),

The long wait to get building plans sanctioned from the Municipal Corporation of Delhi (MCD) will soon be a thing of the past. From August, Delhiites can get their building plans sanctioned online and that too within seven working days. In a move to make the building plan sanctioning procedure hassle-free, MCD is soon going to transfer the process online, but in a phased manner.

While registering with the Corporation, architects will have to play an annual fee of INR 1,200 to the Corporation. All registered architects will then be issued a login-id through which they can upload the building plan and all the necessary documents regarding ownership.

Membership Drive

Since the strength of The Northern Chapter is limited, so on behalf of its Chairman, we request you to bring in more members to make our chapter a stronger professional body.

New members are requested to log on to <http://www.iiaindia.org/membership.shtml> and register.

INFORMATION

The New Team

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Architects Receiving Padam Shree

Name	Year
Ar. C.N Raghavendran	2011.
Ar. Nagarajan Vedachalam	2003.
Ar. Laurence Wilfred Baker	1990.
Ar. Balkrishna Vithaldas Doshi	1976.

Service Tax Rules - Update

With respect to the notification forwarded dated 31.03.2011, the new rules, offer relief to individuals, proprietor or partnership firms that provide services such as architecture, interior decoration, chartered accountancy, cost accountancy, scientific or technical consultancy and legal services.

These service providers will be required to pay tax only after they receive payment. Although the government had begun taxing of goods, it was felt only now when the government is getting ready to roll out the GST.

Rajaswa Bhawan-National Level Design Competition Results

The Department of Revenue, Ministry of Finance, held a National level Design Competition for the Rajaswa Bhawan, the National Tax Headquarters building, on a 5.65 acre plot at Kasturba Gandhi Marg in the Lutyen's Area of New Delhi.

Out of a total of 58 participants from all over the country, the first prize was awarded to Siddharth Shirur of M/s Vistaar Architects & Planners of Mumbai, the second prize to S.R. Sikka of Sikka Associates, New Delhi and the third to Manit Rastogi of Morphogenesis, New Delhi.

Tall Buildings in India - Under Construction (Source - www.ctbuh.org)

S.N	Building Name	Meters	Feet	Fl	Use
1	India Tower, Mumbai	700	2,295	126	Office / Hotel/ Resid.
2	DLF Tower - 1, Mumbai	350	1,148	90	Residential
3	DLF Tower - 3, Mumbai	350	1,148	90	Residential
4	DLF Tower - 2, Mumbai	350	1,148	90	Residential
5	Orchid Crown Tower - A, Mumbai	337	1,105	75	Residential
6	Orchid Crown Tower - B, Mumbai	337	1,105	75	Residential
7	Orchid Crown Tower - C, Mumbai	337	1,105	75	Residential
8	Orchid Heights - 1, Mumbai	328	1,076	80	Residential
9	Orchid Heights - 2, Mumbai	328	1,076	80	Residential

Important happenings in other Regions of the IIA

East

Urban Design Colloquium - The IIA West Bengal Chapter and Jadavpur University organized a two day round table on Urban Design Education on the 19th & 20th Feb, 2011

Presentation by Visiting Professional - On 22nd Feb, 2011

Ar. Utpal Mazumdar, shared a detailed experience of a the PPP (Private Public Partnership) model for development.

Sustainable Construction - IIA WB Chapter & BASF, arranged for a seminar on Sustainable Technologies in Construction on 11th Mar, 2011.

Architecture Cricket Match Kolkata, Feb 2011

East

A cricket match between two teams not aspiring for the cup, replete with strategic bowling, athletic fielding and powerful knocks...

The first ever City of Kolkata Mayor's 11 vs. State of West Bengal Indian Institute of Architects 11 was held on the 18th Feb, 2011 at Chetia Agrani Club. It was a match of great enthusiasm, played with a true sporting spirit.

Mayor's 11 won the Match cheered on by a magnanimous crowd of architects, thundered on to a grand 67 in 15 overs with wickets to spare.

Golden Jubilee of Maharashtra State

West

To commemorate the occasion, The Indian Institute of Architects, Pune Centre and the Maharashtra Chapter, The along with Council of Architecture, hosted a convention in October, 2010, followed by the Architects National Congress, at Pune. The convention addressed important issues relating to the practice of the profession, in the context of recent liberalization, privatization and globalization. An exhibition showcased the works of budding architects and students of architecture. IIA also published a coffee-table book called "Maha-Architecture".



The IIA Premier League - 2011

South

The Indian Institute of Architect Kerala Chapter in association with AP, Karnataka & Tamil Nadu decided to host The IIA Premier League - 2011, National Inter Chapters Cricket Tournament. The Chapters of Andhra Pradesh, Karnataka, Tamil Nadu and Kerala confirmed their participation.

President Ar. Prafulla Karkhanis inaugurated the match on 30th April, 2011 at 8 am at Cochin.



Results Of The 2011 International Torsanlorenzo Prize

This international prize highlights completed landscape projects and promotes quality public, urban and private green spaces. Two prizes are awarded in each of the following categories: landscape design, urban green spaces, public and private gardens. The international jury was presided this year by Virginai Laboranti (Argentina), representative of the International Federation of Landscape Architects (IFLA). IIA was represented by Kongjian Yu (China).

WINNERS

Landscape Design

- 1st Prize: Tangsham Nanhu (Central Landscape Design China) Jie Hu, project leader.
- 2nd Prize: Bath and community building camaraderies in Seklerland (Romania) Ágnes Herczeg, project leader.
- Mention: Restoration of an historical Barco and its unique garden, Ariccia (Italy) Virginio Melaranci, architect, project leader

Urban Green Spaces

- 1st Prize: Centennial park in Chapulco Lagoon in Puebla (Mexico) Mario Schjetnan, architect, project leader.
- 2nd Prize: The Reinterpreted Mediterranean Landscape in Nicosia (Cyprus) Paolo L. Bürgi architect, project leader.

Private Gardens

- 1st Prize: Born in a wave in Zapallar (Chili), Niccolò Cau, architect, Ricardo Walker landscape architect.
- 2nd Prize: Cliff roof garden in Rijeka (Croatia), Natasa Tiska Vrsalovic, Srecko Andrasi landscape architects.



The Singapore Institute of Architects.

The Singapore Institute of Architects, in conjunction with the Building and Construction Authority (a statutory body of the Ministry of National Development, Singapore) and the Singapore Green Building Council (a NGO), is organizing a student competition on a green, sustainable and holistic approach towards design.

This competition is part of the International Green Building Conference to be held in Singapore in the third quarter of 2011.



The Sixth International Conference on Aluminium - INCAL 2011

This Conference is being organized from 6th to 8th December 2011 at the Hyderabad International Convention Center, Hyderabad by the AAI to bring the international aluminium fraternity together on one platform where the current issues will be discussed and ideas will be exchanged on the growth and development of Aluminium.

In conjunction with this globally important conference, an Exhibition is being organized alongside the Conference. The exhibition will focus on the state-of-the-art technologies, showcasing new technologies, processes & products and in turn enhance business.

Young Architects Festival' (YAF) - 2011

Young Architects Festival' (YAF) in Chandigarh on 14-15-16th Oct, 2011. It will include a Seminar on:

CONTEMPORARY ARCHITECTURE-BEYOND CORBUSIERISM

Session 1: Chandigarh: Tryst with Modernism

- ✓ Threat & challenges before Chandigarh/cities
- ✓ Changing Skyline and cityscape
- ✓ Growth of the City and Slums
- ✓ Re densification & Concrete Structures
- ✓ Influence of Chandigarh Le Corbusier and pierre jeanneret



Session 2: Vernacular Architecture and Modernism

- ✓ Learning from Traditional Building Cultures
- ✓ Coastal Architecture
- ✓ Hill Architecture -: Modern Designs for Seismic Safety
- ✓ Historical cities/architecture under threat



Session 3: Modern Architecture-Global Perspective

- ✓ Underground Architecture
- ✓ Modern Practices
- ✓ Disabled Friendly Architecture
- ✓ Energy and Architecture



Session 4: Futuristic Architecture

- ✓ Technology and Building Design Solutions
- ✓ Computers in Architecture
- ✓ New materials and modern vocabulary
- ✓ Influx of Foreign Multinational Architectural Corporates.

You are requested to send the abstract of not more than 350 words of the sub theme with direct relevance to the main theme by 15th June;2011. The sub theme should be clearly depicted on the abstract. Please send the abstract as [Surname]. doc file. Acceptance of abstracts shall be intimated by 15 th July, 2011. Selected authors shall be invite to submit their full length paper by 31st August 2011. All the participants are requested to email their abstracts/papers at: yafchd2011@gmail.com or send by post to the Chapter's office at the

following Address:-

Indian Institute of Architects Chandigarh-Punjab
Chapter SCO 53-55, Third Floor
Sector 17-D, Chandigarh-160017
Ph.: 0172-2722466/2711931

- *The Northern Chapter of IIA requests all members to participate in this festival to make it a success.*
- *The Northern Chapter purpose to subsidies early bird registrants @ 50% of the registration fee.*

UIA2011 TOKYO - The 24th World Congress of Architecture

To be held from (Sept 25, Sun to Oct 1, Sat) 2011, hosted by the International Union of Architects (UIA) and the UIA2011 TOKYO Japan Organizing Board (JOB). The main theme is **“DESIGN 2050”-Beyond Disasters, through Solidarity, towards Sustainability.**

With “DESIGN 2050” as their key concept, architects once again have the opportunity to lead the world forward by creating a new “charter” to embody this commitment. The intent is to merge together the wisdom and technology of people everywhere to create a future vision of the world of 2050.

The Sub themes are “Environment”, “Culture” and “Life” Many IIA members are attending the same.

Invitation To First UIA Online Webinar Presentation

The first UIA CPD Webinar is scheduled to be broadcast on Thursday 15th of September at 18:00 Paris, France time.

Your members can join us from the comfort of their own desks for a live, online presentation on the 2009 World Building of the Year - 'Mapungubwe Interpretation Centre' - a building on the site of an ancient civilization in Limpopo (South Africa), which is also designed to highlight the fragility of the environment.

Presented by Peter Rich, world renowned architect and 2010 Gold Medallist of the South African Institute of Architects, this Webinar will give attendees insight into the design and creation of the Mapungubwe Interpretation Centre - which won the World Building of the Year Award in 2009.

UIA have agreed that each Member Section will receive 20% of the net income* generated from its members' attendance. We therefore urge you to distribute the attached Webinar invitation to all your individual members to ensure maximum attendance. To make this as convenient as possible, we have provided you with HTML, Rich Text and Plain Text email formats – please select the one/s most applicable to the manner in which you normally distribute your emails.

This is the first Webinar resulting from a UIA initiative to promote the benefits of its CPD Quality Label using Webinars as a delivery channel. We would appreciate your support as we feel that UIA Quality Labelled Webinars will be of great benefit to your individual members.

We encourage all Member Sections to distribute this very exciting invitation to all their own members, as we know that they will enjoy it and they will be able to engage with Peter Rich directly on line straight after the presentation.

Archifest' 11

Singapore Institute of Architect is organizing Archifest'11 from 3 October 2011 to 28 October 2011, at National Library Building, Singapore.

SIA is pleased to welcome interested members and friends to be part of the ArchiFest, through Exhibitions, Public Talks, Career Talks, Collaborations, Presentations, Open House, Workshops, Parties, Fringe Activities and Product Launches.

(for more details please log on to www.sia.org.sg)

World Architecture Festival From 2 - 4 Nov 2011 A Focal Event for Architects & Interior Designers

Announcing an event that embraces the breadth of international architectural excellence, with 500 + entries from 65 countries. Some of the most influential, innovative and stimulating individuals and practices today will share their inspiration at the World Architecture Festival, Barcelona. A gathering that will also enable face-to-face engagements with prospective clients, suppliers & manufacturers.

What to watch out for at WAF:

- Awards Ceremony
- Thematic Exhibition
- Live Presentations
- Product Showcase
- Seminar and Keynote Program

(for more details please log on to www.worldarchitecturefestival.com)

RECOGNITIONS



The IIA Madhav Achawal Gold Medal, 2010

The **IIA Madhav Achawal Gold Medal**, an award presented for Life Time Contribution to the field of Architectural Education this year goes to Ar. Prof. Manjeet Rai Agnihotri, an extremely respected academician, activist, teacher and guru, based in New Delhi.

After his Masters in Town Planning and Urban Design at West Germany, Prof. Agnihotri worked there on the Development Plan for Munich. On his return to New Delhi in the year 1963, he joined the School of Planning and Architecture, where he now has a huge fan base. He served the institution in various capacities as Dean, Head of the Department of Architecture, Dean of Studies, Chief Coordinator Research and Development. In 1999, he became Emeritus Professor there. S.P.A. founded the Center for Advanced Studies in Architecture under his leadership, with research priorities in Bio climatic Architecture, Heritage Studies and Natural Disaster Mitigation. He continuously worked with his students via elective courses, outreach programs and extension activities especially in remote hilly areas. His efforts were rewarded when in 1991 he was invited by the I.G.S.S.S. to work for the rehabilitation of Uttarkashi after the earthquake. With his group of students and volunteers, he worked tirelessly in a similar manner at Kumaon, Latur and Bhuj as well. Prof. Agnihotri has also been a jury member for a number of design competitions as also has been on the election committees for faculty members at various universities in India and Nepal.



The IIA Baburao Mhatre Gold Medal, 2010

The **IIA Baburao Mhatre Gold Medal**, an award presented for Life Time Contribution in the field of Architecture this year goes to Ar. Dulal Mukherjee, a highly talented and respected architect based in Kolkata. His works include buildings housing, offices and commercial complexes, institutions, interior works, resorts and, restoration and reuse projects as well as several landscape projects. He has won a number of prestigious design competitions the most recent being the State Legislative Assembly at Dispur, Assam. He also contributed to urban development with his proposal for the upliftment of Laldighi and Curzon Park, Dalhousie, and the Rabindra and Subhash Sarovar, Kolkata. Ar Dulal Mukherjee has been the Chairman of the West Bengal Chapter of the IIA for 3 terms now, as also represented the IIA as an official delegate at SAARCH, Dhaka, 2006. He is also the founder Chairman of the IIID, Kolkata Chapter.

He has been a jury member for a number of design competitions and is also on the jury for thesis students at the Bengal Engineering College, IIT Kharagpur, Jadavpur University and the Science University, Shibpur.

He is already the recipient of the IIA Dharamasthala Manjunatheshwara Award for his outstanding contribution to semi rural architecture. For the Don Bosco church at Kalyani, West Bengal, he was awarded the JIA Project Award, and Society Design Interiors awarded him for outstanding contribution to the profession. He was also conferred the Lifetime achievement award by the CSTI (Construction Source India) and CNBC in 2009.

Safe Reuse of Treated Wastewater in Large Residential Estates



Ar. Subir Paul, presented a Poster titled: "Safe Reuse of Treated Wastewater in Large Residential Estates" at the Stockholm International Water Institute, Stockholm (SIWI) during 5-11 September 2010 – his visit was sponsored by SIWI.

The paper presented a concept for an experimental prototype of 'On-site sewage treatment' to generate a colorless and odorless water at Project Level that shall not be mixed with potable water but used for toilet flushing, landscape irrigation and fire fighting (non-potable applications) etc. through a separate water circuit. Successful concept shall save about 50% of potable water consumption (used in toilet flushing in addition to landscaping) in the residential sector that forms 80% of gross water demand in cities, reduce quantity of waste water discharge and help improve water quality in lakes and rivers and also improve management/ disposal of excreta reducing health risk of the poor. The proposed treatment has no electro-mechanical equipments and does not need any power.

The concept gains special significance in the light of target set by the task force under the 'National Water Mission' by the Central Water Commission, Ministry of Water Resources, Government of India – for effecting 20% higher efficiency in water use in all the sub-sectors including Industry, Agriculture and DOMESTIC. This is in view of imminent water stress likely to be faced by India and the entire tropical developing world due to climate change and global warming. Water conservation and safe Reuse of Treated Waste water through on-site treatment is also of significant interest in Built Environment in the context of Environment Impact Assessment (EIA) and Green Buildings. The government has initiated several statutory measures making it MANDATORY TO REUSE OF TREATED WASTE WATER THROUGH ON-SITE TREATMENT IN ALL LARGE PROJECTS and the National Building Code 2005 now permits use of more than one grade of water (with appropriate safe guards) in a project. But no model/ models are made available for adoption by projects/ Architects/ Public Health Engineers/ Builders etc.

Another Technical Paper by Ar. Subir Paul, titled: "Non-competitive Water Source for Restoration of Keoladeo National Park – Bharatpur" has been accepted for presentation at the 35th Water Engineering & Development Center (WEDC) International Conference, Loughborough, UK. - to be held between July 4-7, 2011.

Ar. Subir Paul
(CEO, 'Studio of Modern Abode'
& Visiting Faculty,
School of Planning & Architecture, New Delhi.)

Humour !!!



- Why was work on the Chimney delayed ?
- Because the Contractor was at home with the flue.
- What do geometry obsessed architects drink ?
- Tea Square
- What do door & Window manufacturers spread on their toast ?
- Jamb.
- Why was architect so uncomfortable ?
- Because of tight briefs.





Introduction to Sustainable Architecture

The world is in the midst of a disturbing period of population growth, growing consumption and environmental degradation. From global warming to biodiversity loss to patterns of sprawling land consumption, the environmental trends are dire.

Cities are embedded in a natural environment. Urban green – parks, trees, green infrastructure etc. – are not only essential to the physical and mental wellbeing of urban residents, but they also cleanse the air, provide shade, cool the city, hold water and support biodiversity.

Urban green is the lungs of a city that provide a healthy environment. A healthy city means that the basic environmental conditions - air, soil, water, purified water, etc. is in order and under control. The healthy city has minimized traffic and recreational accidents, and provides easy access and opportunities for physical activity. A healthy city is designed to be a beautiful experience for people to move in.

Buildings:

In developed countries, residential and commercial buildings account for nearly 40% of all carbon emissions and consume as much as 73% of electricity.



These statistics are hardly surprising when we realize that the average person in the developed world spends more than 90% of his or her time indoors. In a world that is rapidly developing and modernizing, sustainably-constructed and efficiently-used buildings are needed to ensure a sustainable future.

This not only entails cutting back on the energy use of lighting, ventilation, heating, cooling, appliances, but also requires us to reconsider the means by which we build and the material resources we use in construction. Every day, buildings are made with unnecessarily high energy demands, wasteful means of consuming fresh water, and inconsiderate methods of obtaining building materials

Energy:

Most of the world's energy is used in cities. Local transport, electricity supply, home living, services provision and manufacturing crucially depend on fossil fuels. In the last 50 years, fossil fuel combustion has increased nearly five times.

In a world in which climate change is becoming an ever-growing concern and in which oil and other fossil fuels are becoming scarce resources, we need to find other ways to power our cities.

Cities need to provide a variety of renewable energy-resources for energy supply to their citizens, like, wind power, solar energy, biomass, geothermal energy, wave power, insulation and cooling and fuel cell technology..

Water:

Today, more than 50% of the world's population lives in cities. As a result competing demands from domestic, commercial, industrial and agriculture are putting enormous pressure on freshwater resources.

Cities are going deeper into ground water sources and further to surface water sources, at costs - including environmental costs - which are clearly unsustainable.

Sustainable urban planning involves looking at water supply, urban storm water management, urban waste water management and the amenity value of water.

To poor cities, sufficient water and sanitation may be the main issue. To wealthier cities, water management may be more related to clean water and the creation of an attractive green and blue urban environment.

Transport:

Cities are shaped by transport and hence sustainable transport – good transit, walkability and cycling facilities help shape sustainable cities. During the past fifty years, there has been an exponential growth in transport of both people and goods. The number of motorized road vehicles has surpassed more than 800 million worldwide and are still growing.

Cities need to provide alternative modes of transport as well as limit the massive use of fossil fuel based transport. It must be an easy choice for people to leave their cars and instead move by foot, bicycle or public transportation. These activities further improve people's fitness, mental and social welfare

Green architecture, or green design also called eco-design, eco-friendly architecture, earth-friendly architecture, environmental architecture, or natural architecture, is an approach to building that minimizes harmful effects on human health and the environment.

The "green" architect or designer attempts to safeguard air, water, and earth by choosing eco-friendly building materials and construction practices as well as enhancing efficiency and moderation in the use of materials, energy, and development space.

Most simply, the idea of sustainability, or ecological design, is to ensure that our actions and decisions today do not inhibit the opportunities of future generations; rather we leave behind a legacy of a healthy and clean environment for them.



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