

**Build  
Strong and  
Innovate  
Pakistan**



# **3<sup>rd</sup> INTERNATIONAL BUSINESS CONFERENCE AND EXHIBITION**

on

## **Building and Construction, Home Appliances, and Renewable Energy**

October 24-25, 2018, Hall 1, Expo Center, Lahore

### **Conference Proceedings**



**Organized by**



**University of Management  
and Technology**

## **Session: Construction and Building Management Systems**

**Moderators:** Ilyas Malik and Memoona Rashid

**Team Members:** Sarmad Salahuddin and Danyal Khizer

The session started at 12:12 pm.

Ilyas Malik started the session with a welcome note. He introduced session chair, national speakers and speaker from the industry.

### **National Speaker: Syed Imran Waheed**

Vice President/Division Head, NESPAK Lahore, Pakistan

Syed Imran Waheed is a civil engineer by profession. He did his MS in Agricultural Engineering from University of Arizona, USA. He also served NESPAK as Regional Manager, Resident Engineer, Bridge Engineer and Senior Engineer.

### **Focus**

The first national speaker Syed Imran Waheed shared an insight about construction industry and issues related to this industry in Pakistan.

He talked about the challenges for construction professionals in Pakistan. He further emphasized the benefits of BIM and suggested to make it a part of curriculum in Universities.

### **National Speaker: Dr Asim Mahmood**

President, Environmental Consultants Association of Pakistan (ECAP)

Dr Asim Mahmood did his Phd in Environmental Sciences from University of the Punjab, Lahore, Pakistan. He also served as Executive Director in Global Environmental Laboratory, Lahore.

### **Focus**

The second national speaker discussed the hazardous impacts of construction on environment. He further educated the audience about how to use the energy other than solar energy.

**Presenter 1: Mutahir Mehmood Awan, Assistant Professor, UMT**

Causes of Conflict in Construction and Alternate Dispute Resolution in Context of Pakistan

**Focus Area**

He emphasized upon the causes of conflicts in construction industry and benefits of ADR.

**Presenter 2: Aisha Khan, Student, UMT**

Occupational Health and Safety, UMT

**Focus Area**

She emphasized upon the causes of failures of health and safety measures in construction. In her view, the local construction industry lags reporting of accidents.

**Presenter 3: Arsala Hashmi, Lecturer, UMT**

An Architectural Expression of Cultural Identity-Substantiating Influence of Foreign Architects in Pakistan (Post-Independence)

**Focus Area**

She focused on the work of foreign architects in context of Pakistan and strategies they used in construction.

**Presenter 4: Huda Riaz, Lecturer, UET**

Introducing Vertical Farming Concept in Pakistan

**Focus Area**

She focused on the benefits of vertical farming.

**Question and Answer Session**

One of the student asked Dr Asim that whether heat pump is beneficial in the climate of our region or not?

**Industry Session Presentation: Nisar Mohyuddin**

Director, Diamond Jambolon Insulation

**Focus**

The speaker from the industry addressed the problems of energy crisis, carbon footprint, and GHGs. He suggested that building envelope should be insulated.

**Concluding Remarks by Session Chair**

**Session Chair: Dr Mumtaz Hassan Malik**

Dean, School of Textile Design, UMT, Lahore, Pakistan

Dr Mumtaz Hassan Malik is a textile engineer; did his masters and PhD in Textile Engineering from Technical University, Chemnitz, Germany. After completing his BS, he worked as Assistant Manager in spinning department of Kohinoor Textile Mills Limited. He served as a faculty member in NTU, Faisalabad for sixteen years.

### **Remarks**

The chair supported the first national speaker and suggested that School of Architecture and Planning can support the construction professionals by teaching BIM, etc. He appreciated Dr Asim's suggestion on energy conservation and Mutahir Mehmood Awan's presentation on ADR and stated that due to slow working of judicial system the conflicts cannot be resolved by simply adding clauses in contract.

He commented that it is mandatory for construction industry to devise policies regarding health and safety and pointed out that due to lack of time, third presenter Arsala was unable to explain the other buildings having foreign influence other than Faisal Mosque.

At the end, he appreciated the last presentation on vertical farming and emphasized the importance of it for the economy.

### **Souvenir Presentation and Group Photo**

The session ended at 01:55 pm.

**Proceedings Noted by: Memoona Rashid**

**Dated: October 24, 2018**

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## **CONFERENCE PROCEEDINGS**

**Title: Environment**

**Dated: October 24, 2018**

**Moderator: Muhammad Umair**

**Time Slot: 12:15 pm-01:45 pm \***

### **Attendees**

1. Dr Nuno Martins, Professor, University of Lisbon, Portugal (**Session Chair**)
2. Dr Obaidullah Nadeem, Professor, University of Engineering and Technology, Lahore, Pakistan (**National Speaker**)
3. Muhammad Umair, UMT, Lahore (**Moderator**)
4. Dr Muhammad Imran, Assistant Professor, Messay University, New Zealand
5. Dr Muhammad Adeel, Research Officer, London School of Economics, England
6. Malik Asghar Naeem, Head of Department, Urban and Regional Planning, NUST, Islamabad
7. Dr Farhia Tariq, Chairperson, Department of City and Regional Planning, SAP, UMT, Lahore

8. Ghulam Sarwar Sandhu, DG Planning, Capital Development Authority, Islamabad
9. Mubashir Hussain, Urban Planner, Osmani and Company, Pvt. Ltd.
10. Dr Syed Aziz Haider, Dean, Lahore Leeds University
11. Dr Saamia Saif, Director, Environmental Consultancies and Options, Lahore
12. Bilal Saghir, Research Associate, Center for Local Governance, Riyadh, KSA
13. Engineer Muhammad Nawaz, Director, Elite Environmental Solutions, Lahore
14. Ar Syed Sajjad Haider, Faculty Member, SAP, UMT, Lahore
15. Mutahir Mehmood Awan, Faculty Member, SAP, UMT, Lahore
16. Areesha Gul, Faculty Member, SAP, UMT, Lahore
17. Minahil Nawaz, Faculty Member, SAP, UMT, Lahore
18. Nida Batool, Faculty Member, SAP, UMT, Lahore
19. Students of Batch II, III, IV and V, Department of City and Regional Planning, SAP, UMT, Lahore
20. Mobeen Ahmad, Office of Technical Services, UMT, Lahore

### **Conference Proceedings**

<b>Order of Business</b>	<b>Proceedings</b>
1.	<p><b>Introduction and Welcome</b></p> <p>The moderator welcomed the session chair, national speakers and presenters, international guests, academicians, professional participants from diverse backgrounds, and students to the session track on the theme of <i>Environment</i> at the 3rd IBCE, 2018. He, subsequently, requested the session chair, national speaker and Chairperson of Department of City and Regional Planning, SAP, UMT, Lahore, to preside over the session.</p>

2.

**Presentation by National Speaker**

**Presenter: Dr Obaidullah Nadeem**

**Topic: Challenges in the Advancement of Environmental Impact Assessment in Pakistan**

Dr Obaid presented his meticulous insight on Environmental Impact Assessment (EIA) and Environmental Protection Legislation in Pakistan in reference to his various experiences in the field in last couple of decades. He stressed upon the decentralization of functions of environmental protection agencies for better from the ground level.

Proceeding further, he elaborated various components of EIA and its practice in Pakistan. Linking up on this, he further outlined diverse challenges, and strategies for their mitigation relevant to various institutional, operational and academic domains.

His presentation ended with question and answer session.

In this session, Dr Muhammad Imran highlighted the issue of environmental assessment studies for mass transportation in Pakistan. He sought expert opinion of Dr Obaid in order to improve the assessment process of the national speaker who highlighted the recent initiatives and amendments in legislative framework.

Following Dr Imran, Dr Adeel lauded the work of Dr Obaid and opined that the legislative framework has been present in the country since ratifying international conventions in 1980s; however, the deterioration of environment could not be curtailed.

In response to this query, he divulged that environment has been on the back burner for successive governments in recent times. However, the present government with its initiatives made the mitigation of environmental and climate change issues as one of their top priorities.

The session chair, intrigued by Dr Obaid's presentation, inquired about some fundamental procedural steps in conducting EIA in Pakistan.

<p>3.</p>	<p><b>Presentation by Session Chair</b></p> <p><b>Presenter: Dr Nuno Martins</b></p> <p><b>Topic: Humanitarian Architecture: Towards a Resilient and Sustainable Practice</b></p> <p>Dr Martins thanked and appreciated the organizing committee for organizing such large scale international conference. He expressed his gratitude for the invitation to visit Pakistan and participate in this event.</p> <p>In the opening of his presentation, he lauded the initiative of the government to construct five million houses. He briefly touched upon the various relevant examples of such housing initiatives around the world and strategies to minimize the environmental cost of such programs. Further on, he shared his research interests and introduced the participants to sustainable practices in humanitarian architecture. He then shed light upon various examples of sustainable humanitarian architecture throughout Europe. The role played by designers in disaster risk reduction, rebuilding, and developmental processes were also addressed in his presentation. He outlined the various transition tools that can assist vulnerable communities and relevant methods of application. Subsequently, he talked about community involvement and action research. He concluded his talk with appreciation of all comments and suggestions.</p>
<p>4.</p>	<p><b>Presentation by Presenter</b></p> <p><b>Presenter: Dr Syed Aziz Haider</b></p> <p><b>Topic: Impact of Pollution on Environment</b></p> <p>Dr Haider’s presentation was focused on environmental degradation in various resources like air, water and soil due to various contributing factors. He also highlighted the cost of environmental degradation not only restricting to medical cost. Furthermore, he explained the various sources pollution and their impacts through our various daily activities.</p> <p>Dr Haider also highlighted the critical issues that are currently arising in Pakistan due to negligence of various stakeholders which include deforestation and water scarcity. The session was concluded with concluding remarks from Dr Haider.</p>

5.	<p><b>Presentation by Presenter</b></p> <p><b>Presenter: Dr Saamia Saif</b></p> <p><b>Topic: Importance of Environmental Impact Assessment in Construction and Building</b></p> <p>Dr Saif briefly highlighted the issues raised by Dr Obaid and taking the discussion further apprised the audience about the Environmental Protection Act of 2012. Her explanation of the legislative framework was holistic in nature outlining various components and bindings on the proponents of the projects to conduct environmental study prior initiation of the project. Her explanation of EIA process primarily catered the housing sector. The explanation was further complemented with various approval phases of an environmental study. Her presentation concluded with remarks on operational problems and their solutions.</p>
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6.	<p>The moderator thanked the presenters and apologized to three presenter listed down below whose presentation could not be conducted due to shortage of time.</p> <ol style="list-style-type: none"> <li>1. <b>Bilal Saghir</b>, Research Associate, Center for Local Governance, Saudi Arabia Topic: <b>The Climate Change Challenge: Local Government can Make a Difference</b></li> <li>2. <b>Muhammad Umair</b>, UMT, Lahore Topic: <b>Environmental Cost of Five Million Houses: Striking the Balance between Development and Environment</b> Industry Session Presentation: <b>Engineer Muhammad Nawaz</b></li> </ol>
7.	<p><b>Concluding Remarks</b></p> <p>The session was concluded with remarks from the session chair. He appreciated the effort of UMT, Lahore, for conducting the International Conference on such scale. He also appreciated the efforts of current government to take environment as a priority sector. He opines that the top down approach is more fruitful in mitigation of environmental impacts such that the collusion of state policies and grass-root efforts could not yield the desired results. He thanked the guests and appreciated the hospitality shown to him in Pakistan during his stay.</p>
8.	<p>The session was concluded with the distribution of souvenirs and certificates to the guest and presenters by Chairperson of Department of City and Regional Planning, Dr Fariha Tariq.</p>

## **Apologies**

National speaker Muhammad Arif Ibrahim could not make it to the conference due to emergency meeting called by the Provincial Minister of Government of Punjab.

**Muhammad Umair**

Moderator

## **Presenters' Biographies**

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### **Session Chair: Dr Nuno Martins**

Dr Nuno Martins completed a Masters degree in Architecture from the Faculty of Architecture of the University of Lisbon (FAUL) in 1990, a doctoral program in Urbanism from the Universidad Politecnica de Cataluña (2004) and a PhD in Architecture from the University of Beira Interior, Portugal (2012).

Since obtaining his PhD degree, he has participated in many international conferences and published 3 books, 6 chapters of books, articles in journals (10, 4 indexed, 2 ISIS&SCOPUS) and 16 full papers in proceedings in editions with international distribution and peer reviewing process as author, co-author and corresponding author, on his areas of interest: sustainable architecture, eco-urbanism, cultural landscapes, housing building residential, and urban design in development.

He has co-chaired and acted as peer reviewer and track-chair in international conferences. He has recently co-chaired for the third time the track of Sustainable Cities and Regions at the ISDRS, the International Sustainable Development Research Society, a leading conference in the area of sustainability. He participated in the set-up of two national and seven international research projects in collaboration with research centers.

## **National Speakers**

**Dr Obaidullah Nadeem**

Topic: **Challenges in the Advancement of Environmental Impact Assessment in Pakistan**

Dr Obaid is currently working as Professor at the Department City and Regional Planning, University of Engineering and Technology, Lahore, Pakistan. His doctoral research focused on Environmental Impact Assessment (EIA) practices in Pakistan. He has over 22 years of experience of teaching, research and consultancy with various national and international organizations. He has co-authored EIA Course Curriculum for Higher Education Institutions in Pakistan and contributed two chapters to the EIA Handbook for Pakistan. He has published more than 20 research articles on various aspects of EIA and urban planning and management. Dr Obaid also holds the honor of serving as a member of the Editorial Advisory Board of the Journal of Environmental Assessment Policy and Management, and reviewer of the some other international research journals. He is nominated by the Punjab EPA as member of the committee of experts for reviewing IEE/EIA reports of various development projects.

### **Muhammad Arif Ibrahim**

**Topic: Isolation of Indigenous Microalgae: Nitrogen/ Phosphorus Removal And Bio-Fuel Production**

Arif Ibrahim holds a post graduate degree from King Fahd University of Petroleum and Minerals in Environmental Sciences. His core area of research is production of bio-fuel from various organic substances. His research has led to the process of bio-fuel production from micro-algae existing in marine life.

### **Presenters**

#### **Dr Syed Aziz Haider**

**Topic: Impact of Pollution on Environment**

Dr Haider is an Urban Planner and currently serving Lahore Leeds University in the capacity of Dean. He obtained his Doctorate from Romania. During his long and illustrious career, he has held many managerial and academic positions at various academic institutes in Pakistan. His urban planning background is also complemented by his post graduate qualification in Business administration.

#### **Dr Saamia Saif**

**Topic: Importance of Environmental Impact Assessment in Construction Projects**

Dr Saif holds a PhD degree in Environmental Sciences and working at Environment Consultancies and Options as Director. Her experience in the field of environmental sciences spans over two decades. Environmental Impact Assessment (EIA) studies is her forte. Her studies include various housing and construction projects.

### **Bilal Saghir**

Topic: **The Climate Change Challenge: Local Governments can Make a Difference**

Bilal is an Urban Planner and Policy Researcher with experience in public, private and non-profit sectors. Currently, he is a part of research team at Riyadh-based Center for Local Governance – a pioneer Saudi think tank in the field of local governance and public policy. His interests particularly focus on the intersection of public policy and urban planning where he conducts empirical research aimed at supporting city governments in managing urban areas, localizing SDGs, and improving the quality of life. Prior to joining the Center, Bilal was associated with an urban policy unit and a consulting organization based in Pakistan. In addition, he briefly served in the local government sector as District Officer (Planning). He also contributed to a number of research projects primarily funded by Brown University and KFUPM. Bilal holds an MS degree in City and Regional Planning from King Fahd University of Petroleum and Minerals, and BSc from the University of Engineering and Technology, Lahore.

### **Industrial Representative**

#### **Engineer Muhammad Nawaz**

Engineer Muhammad Nawaz is a Chemical Engineer and Environmental Consultant. His work experience spans to almost 10 years. His firm Elite Environmental Solutions has carried out various projects related to waste water treatment with Water and Sanitation Agency.

## **Session: Tourism Potential and Heritage Conservation**

**Date: October 24, 2018**

**Time: 02:15pm**

**Moderators:** Faiqa Khilat and Ibrahim Mehmood

**Team Members:** Farah Jamil and Nasir Chaudry

**Session Chair:** Professor Balvinder Singh

**Co-chair:** Dr Saima Gulzar

### **National Speaker**

#### **Dr Ijaz Anwar, PhD in Islamic Art and Architecture**

**Dr Ijaz Anwar** is a distinguished painter of Pakistan. He was a gold medalist of University of the Punjab. He did PhD in Islamic Art and Architecture, Istanbul Technical University. Later, he taught at National College of Arts, Lahore. His watercolor paintings show the grandeur of the old buildings and the cultural life of Lahore. His major contributions include conservation of cultural properties under UNESCO Rome. He has also written several books.

### **Remarks**

He highlighted the conservation aspects regarding urban planning of ancient civilizations and explained through pictures of Harappa and Mohenjo-Daro that how the master planning of cities were done by Indus Valley Civilization.

#### **Presenter 1: Amna Khaild, Lecturer, UMT**

Sustainable Viability for Adaptive Reuse of Sikh Era Havelis in Lahore, UMT

### **Focus Area**

She discussed the benefits of the adaptive reuse of Sikh era havelis and its impact on sustainability. The researcher enhanced her research through various examples of adaptive reuse like Ramdass Haveli reused as boutique. She talked about Baltit Fort, its restoration for adaptive reuse. How these projects can be sustainable and cost saving and could benefit the authorities and policy makers in decision making process of adaptive reuse of historic monuments.

## **Presenter 2: Rimsha Imran, M Architecture, Final Year Student, UMT**

Conservation of Historic Monuments of Sujjan Singh Haveli

### **Focus Area**

She talked about materials and methods used in different periods to restore the Haveli Surjan Singh, Rawalpindi. The researcher highlighted the distinctive decorative feature of this haveli as the Kashmiri woodwork representing Hindu and Sikh faith through motifs. She discussed the stages of its conservation and restoration process sequence wise. Moreover, she also marked on the cracks and damages of the haveli.

## **Presenter 3: Umer Malik, PhD Scholar, UMT**

Calcium Hydroxide Reduction in Polymer-Modified Mortars and its Effects on their Strength, Elastic and Adhesion Properties

### **Focus Area**

He mainly talked about the innovative materials that can prolong the life of historic buildings that can make buildings intact for longer period. He explained how Polymer-modified mortars were prepared with various P/C ratios, showed the results of the flexural and tensile strength and maximum deflection and other components addition for the respective mortar. He concluded that the reduction of  $\text{Ca}(\text{OH})_2$  content in PMMs does not cause any adverse effect on the strength rather they improve.

## **Presenter 4: Faiqa Khilat, Assistant Professor, UMT**

Impact of Urbanization on Historic Monuments: The Case Study of Hasan Abdal, Pakistan

### **Focus Area**

She highlighted the historic city of Hasan Abdal, many significant and non-significant structures within the city. She talked about the haphazard growth of the town affecting the scenic and natural views of the city and the historic monuments located in it. She explained it through different historical maps of the city. She concluded with the major aspects to save the built heritage through proper conservation and restoration of the monuments and its historic zone that could add to the tourism potential of the town. Moreover, she shared planning strategies for the uplifting of historic towns.

## **Industry Session Presentation: Ar Sajjad Kausar**

Deputy Director, Directorate General of Archaeology, Youth Affairs, Sport, Archaeology and Tourism Department

## **Focus**

He talked about the approach of heritage conservation in Lahore that how to conserve the monuments. He talked about the conservation of the antiquity of a monument, e. g., Chauburji Monument. He gave another example of Katas Raj temple but not focusing on the era and flavor of Sikh era. He stated that Shalimar garden, an old monument is the main issue, we try to make it completely new monument rather than to focus that people come to see the heritage part. He concluded that the approach towards conservation should be done in the proper way.

## **Session Chair: Prof Dr Balvinder Singh**

**Introduction:** Professor Dr Balvinder Singh served Guru Ramdass School of Planning, Guru Nanak Dev University, Amritsar, India, for 31 and half years. He has experience of industry and teaching around 31 years in the field of urban, regional planning and conservation of built-natural heritage as well as to the undergraduate students of architecture and law. He remained Head of the Guru Ramdas School of Planning, Guru Nanak Dev University for two terms from January 1999 to June 2002 and January 2011 to December 2013.

## **Concluding Remarks by Session Chair**

The chair highlighted the aspects of conservation. He recommended to study various conservation aspects through ICOMOS characters and contributions made by Sir Bernard Fielden as the conservation architect must surrender his imagination and originality. He appreciated the presenters work regarding conservation of built heritage and recommended to add tourist aspects in it. The tourism aspects could be more beneficial through marketing. The chair further suggested that the conservation subject should cater new areas and scientific theories now to meet up the advance research. He quoted to set right direction should be the priority in conservation of the monuments. He said that not only monuments, the urban design should be harmonized.

## **Session Co-Chair: Dr Saima Gulzar**

**Introduction:** Dr Saima Gulzar is the Chairperson of Department of Architecture, SAP, UMT. She did her PhD in historic structures of PU, Lahore, and then a postdoctoral from ETH Zurich, Switzerland. Not only she is a successful academician, she is also a renowned scholar and a researcher in the field of Architecture and Conservation. She has been successfully running the department with her dedicated faculty.

## **Concluding Remarks by Session Co-Chair**

The co-chair appreciated the concluding remarks by the session chair Prof Dr Balvinder Singh and further added the conservation scenario in Pakistan. She was also of the opinion that most of

the papers were focused on conservation techniques and tourism potential was not properly addressed. The overall session of 'Tourism Potential and Heritage Conservation' covered all aspects of art, history, urbanization and scientific approach.

### **Souvenir Presentation and Group Photo**

**Proceedings Noted by: Farah Jamil/Faiqa Khilat**

**Dated: October 24, 2018**

**Title: Housing**

**Date: October 24, 2018**

**Time: 02:45pm**

**Moderators:** Dr Fariha Tariq and Minahil Nawaz

**Session Chair:** Zaigham Mahmood Rizvi, Secretatry General, Asia Pacific Union for Housing Finance- APUHF

The session was started in the name of Allah followed by a brief address by Dr Fariha Tariq, HoD, CRP, UMT. Dr Fariha presented a model for ensuring affordable housing followed by the Department's stance regarding the issue of housing.

### **Keynote Speakers**

Zaigham Ali Rizwi, keynote speaker of the session along with national speakers Sarwar Sandhu and Asghar Nnaeem were invited to be seated on the stage.

Zaigham Rizwi delivered his presentation upon affordable housing supply. In his presentation, he laid focus upon "Role of Construction Industry, Planning and Academia." Firstly, he briefed about existing housing backlog worldwide as well as in Pakistan. He also highlighted the challenges faced by Pakistan.

During his presentation, he enlightened the audience regarding Prime Minister's initiative in housing sector along with his participation in the program. He also presented successful models from around the world in order for Pakistan to relate including India, Singapore and Thailand.

Concluding his presentation, he emphasized upon what lessons we must learn as stakeholders for meeting the low income housing demand.

Ghulam Sarwar Sandhu came forward and shared his presentation upon CDA's initiative of "Katchi Abadi Rehabilitation" as well as overall role of Capital Development Authority for housing provision. While highlighting the distinguish nature of LDA, he mentioned:

- One Window Operation
- Well Designed Rules and Regulations
- Professional and Skilled Manpower as the Most Notable Character

Moreover stress was laid upon “Alternate land resource for releasing Prime Minister 5 million housing project.” He ended his words with a recommendation to capitalize upon freshly graduating planners for generating a task force.

Dr Asghar Naeem, HoD, Urban and Regional Planning Department, NUST, was invited to present ways for harnessing potential of business for provision of affordable housing.

- Social Entrepreneurship
- Cooperate Social Responsibility Bringing
- Business at Bottom of Pyramid

These were the three foremost components of his talk.

He educated the audience through quoting successful case studies from Pakistan, regarding employee cooperatives as well as notable financing mechanism for low income housing within the country.

Rizwan ur Rehman from HUD and PHE Department, presented the role of Government in fulfilling the agenda of PM program of 5 million housing units starting with a brief problem analysis and then he extended his comments upon the role of Government so far and its loop holes.

Brief upon barriers being faced for meeting housing demand in Pakistan was followed by the recommendations regarding lessons to be learned and practiced.

Mubashir Hussain: Interactions/Remarks

- To rethink upon housing shortage, he suggested to measure housing both quantitatively and qualitatively
- There is a dire need to define homelessness, we also need to stress and work on the push and pull factors, he further suggested to stress on reorienting our planning by focusing more on vertical development (higher densities) than horizontal (less densities) development
- Expansion of big cities horizontally must be wisely reviewed/stopped
- He also condemns the idea of leap frog development and instead proposed a continuous harmonized development
- Alternate investment opportunities must be provided to people
- He favored the idea of constructed housing within site and services
- He also emphasized on apartment building/housing and going for lucrative housing solutions for Katchi Abadis

- He also stated that housing finance/loan process to be made quick, convenient and easy
- Also, incorporating reinforced and resilient construction material in housing is another aspect he called about

### **S M Imran**

- Started by thanking and appreciating the event
- Talked about housing in context of 3 segments of Pakistan with respect to income/population
- Mentioned according to statistics, on average a person/individual spends/needs 33% of his income to use on housing need
- Mortgage policy and housing finance has been the prime focus of his presentation
- Incremental housing must be forward as it is the most significant and need of element is providing affordable housing
- Quoted 18% Pakistan population are those who are developers and investors and this is a huge potential
- Stressed on a good coordination among different sectors and key stakeholders
- Concluded his speech with a saying of Nelson Mandela

### **Mutahir Mehmood: Public Private Partnership in Land Supply for Housing: A Case Study of LDA City**

- He talked about the LDA City model and explained its steps
- Followed a modified version of the same model devised by the presenter/researcher
- He emphasized on Public Private Partnership (PPP) in the housing section and shared the success factors of PPP
- He suggested that good governance and law protection is important
- He recommended in the conclusion that political intervention, awareness campaigns and making overall process investor friendly

### **Concluding Remarks: Zaigham Rizvi**

- He acknowledged the overall session context and agenda and stressed upon “doing it” the housing.

In the end, souvenirs and certificates were presented to the delegates and presentation.

## **Session: Interior and Advanced Materials**

**Date: October 24, 2018**

**Time: 04:30pm**

**Moderators:** Ayesha Malik and Saad Mujahid

**Session Chair:** Muhammad Qanbari

	Session	Time	Presenters' Topics	Introduction
	<b><u>Interior and Advanced Materials Started</u></b>	04:30 pm	<b><u>Moderators</u></b>  <u>Saad Mujahid and Amir Jamal</u>	Assistant Professors, UMT
1.	<b><u>Session Chair</u></b>	05:00 pm-05:15 pm		
	<b>Mohammad Qanbari</b>		Speed of technology and development Population analysis for business innovation Technology analysis Sustainable design, design based on people needs Students can start business and become entrepreneurs through this course the right time for change is when you face adversity	<b>Representer, Educator and Content Creator, International Federation of Inventers Association (IFIA), Isfahan, Iran</b>  Mohammad Qanbari has education in Architecture and Urbanism, University of Ashrafi Isfahani, Isfahan. Currently, he is Manager, Educator of Creativity and Entrepreneurship, Industrial Management Organization, Isfahan. He has organized many exhibitions regarding innovation He is a researcher, innovator and educator at the same time has participated in many research works and won many awards.
2.	<b><u>Co-Chair</u></b>			
	<b>Dr Saima Gulzar</b>			CoD SAP, UMT
3.	Presenters	-	-	-
a	<b><u>National Speaker</u></b> <b>Dr Sadia Farooq</b>	05:15 pm-05:25 pm	Role of Interior Environment in Exacerbating Atopic Eczema	Supervisor, HEC
b	<b>Zahid Tauqeer Ahmed</b>	05:25 pm-05:37 pm	Low Energy Passive Cooling Strategies Developed for Building Interior in Hot Climates	Assistant Professor, UMT
c	<b>Farhana Amjad</b>	05:37 pm-05:50 pm	Interiors and Advance Materials	Lecturer, LCWU
d	<b>Anka Zaheer</b>		The Role of Design Innovation and Environment in Child Development	Lecturer, NCBA&E

e	<b>Ayesha Malik</b>		Study of Impact of Light in Mosque	Assistant Professor, UMT
f	<b>Alvina Fatima</b>		The Benefits of Green Roofs	Assistant Professor, UMT
g	<b><u>Industrial Presenter</u></b> <b>Adnan Sohaib</b>		Materials	CEO, Decorum
4.	Concluding Remarks by Session Chair			
5.	Souvenir Presentation and Group Photo	05:50 pm-06:15 pm		

DAY 2 (October 25, 2018)

## **Session: Architecture Education**

**Moderators:** Zahid Tauqeer Ahmed and Usman Muhammad Buksh

### **Session Chair: Prof David Cotterrell**

**Professor of Fine Art, Sheffield Hallam University**

Prof David Cotterrell is Professor of Fine Art, Sheffield Hallam University, London. He has several publications in different commissions and exhibitions through years of intense work. He has won numerous awards from different organizations with all the research he has done while presenting his research work at different universities. His main field of expertise is Art and Design.

#### **Remarks**

He focused on:

- Defensive architecture
- Role of architect which must be social, responsive and sensitive
- The buildings and cities must respond to the communities amongst them
- Architecture should be structural and social

#### **Focus**

##### **Remarks by Chair**

- Note of thanks
- Presentation of Kamil Shab linked to the message of chair wants to deliver.

### **National Speaker: Dr Shama Ambrien**

Dr Shama Ambrien is an Assistant Professor at University of Engineering and Technology and Acting Chairperson of the Department of Architecture. She completed her PhD from University of Liverpool, UK. She has a vast experience in the field of Architecture. She is an active member of Pakistan Council of Architects and Town Planners, Associate Member of Institute of Architects Pakistan and member of Architectural Humanities Research Association, UK. She has also rendered her services as technical expert for construction of silos for the Government of Punjab.

#### **Focus**

- How student feedback mechanisms work in school of architecture and how it can effectively taken and implemented
- Outcome-based education

## **National Speaker: Muhammad Tahir Khan Khalidi**

Currently, Tahir Khan is an Assistant Professor at Superior University and CEO of Meta Construction Design Company while being as accomplished Architect and Interior Designer with over 18 years of experience working on a variety of projects ranging from a residential housing to recreational facilities.

He has professional membership of Institute of Architects, Pakistan (IAP), Lahore Chamber of Commerce and Industry (LCCI), Pakistan Green Building Council, and Lifetime member of Pakistan Council of Architects and Town Planners (PCATP).

### **Focus**

- Integrating sustainability in architecture education
- Importance of design process in imparting architecture education
- Sustainability should not be taught as theory subject
- Contextual
- Hypothetical project and sites
- Collaboration with experts

## **Presenter 1: Dr Najma Kabir, CoD USA**

Historical Development of Architectural Education in Pakistan and Current Challenges

## **Presenter 2: Danyal Khyser, Lecturer, UMT**

Globalization and its Impact on the Architectural Identity of Lahore

## **Presenter 3: Zahid Tauqeer Ahmed, Assistant Professor, UMT**

Effects of Globalization on the Sociocultural Fabric and the Built Environment of Pakistan

## **Presenter 4: Usman Muhammad Buksh, Assistant Professor, UMT**

A Comparative Study of Domes of Contemporary Jamia Mosques and Mughal Historical Mosques of Lahore

## **Industry Session Presentation: Kamil Khan Mumtaz**

Deputy Director, Directorate General of Archaeology, Youth Affairs, Sport, Archaeology and Tourism Department

### **Focus**

- Corporate culture negating the sustainable built environment

### **Concluding Remarks by Session Chair**

#### **Souvenir Presentation and Group Photo**

**Proceedings Noted by:** Zahid Tauqeer Ahmed and Usman Muhammad Buksh

#### **Session: Transportation, Mobility and Logistics**

**Date:** October 25, 2018

**Time:** 09:00 am-11:45 am

**Venue:** Hall 1, Expo Center

**Moderators:** Areesha Gul, Nida Batool Sheikh

**Session Chair:** Dr Muhammad Imran

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The session of **Transportation, Mobility and Logistics** started with the introduction of all speakers by the moderators, **Areesha Gul** and **Nida Batool Sheikh**.

The moderators invited the session chair **Dr Muhammad Imran** along with other national speakers and industrial experts to the stage.

The presenters were also introduced to the audience.

- The session commenced with the worthy remarks and expert presentation of the session chair **Dr Muhammad Imran**, Associate Professor/Program Coordinator, Resource and Environmental Planning Program School of People, Environment and Planning Massey University, New Zealand. Dr. Imran acknowledged the conference, session speakers and audience. He also presented his work on **Socio-Political Tensions in Bus Rapid Transit (BRT) Development in Low-Income Asian Cities.**

In his presentation, Dr Imran talked about the following:

- Socio contextual issues regarding BRT
- Socio political issues regarding BRT
- The three core objectives of BRT, i.e., environmental, social and economic sustainability
- Sustainable transport options for low income
- Motorization policies and condition
- Weak and poor quality of public transport and road infrastructure
- Example of Jakarta BRT

While concluding his presentation, he stressed on adopting more sustainable travel options like walking and public transport. The presentation concluded with a holistic question answering session and was greatly appreciated by the house.

The moderator then invited the first national speaker **Dr Amer Aziz**, Associate Professor/Director Quality Enhancement Cell, University of Engineering and Technology, Lahore, to the rostrum for his presentation.

- Dr Amer Aziz talked on **Active Spatial Fabrication; A Way Forward for Sustainable Transportation and Mobility.**

In his presentation, Dr Amer talked about the following:

- The unrelenting vehicles-miles, sprawling cities as challenges to traditional planning
- Active land use planning which comprises of mixed land uses which reduces the needs of mobility
- LOS of public spaces and open spaces
- Uncontrolled increase in app based taxis
- Inconsistent mass transit system
- Principles of sustainable transport approach

Dr Amer concluded his presentation, while discussing the environmental concerns regarding transportation which was followed by a question and answer session from the audience.

Following the presentation of Dr Amer Aziz, the moderator then invited the national speaker and industrial expert, **Dr Ather Ashraf**, Project Director, FERRP.

- Dr Athar presented Integrated Planning and Development for Smart Cities.

In his presentation, Dr Athar Ashraf talked about:

- The concept of smart cities
- The integrated Planning and Development Model
- The spatial data
- Modeling of urban expansion and outline development plan
- Project planning and project monitoring
- Highlighted the PC1, PDWP and SMDP

The presentation was concluded by an effective question and answer session.

The moderator then welcomed and invited the industrial expert for the session, **Muhammad Zubair**, Town Planner, Defence Housing Authority (DHA).

- Zubair expressed his worthy remarks and shared his expertise in the subject of urban planning and transport. He appreciated the efforts of the organizing committee and acknowledged the overall agenda of the IBCE. He further laid stress on the need and importance of transport and planning in our cities by making them more livable and sustainable for our future generation.

His remarks were concluded and followed applaud from the house.

After this moderator initiated with inviting the presenters one by one for their presentation.

- The first presenter was **Muhammad Zubair**, Town Planner, Shehresaaz. He presented in his work on **Through Visual Improvement to Lahore Development Revamping Route of Lahore Sightseeing Bus**

During his presentation, he talked about the following:

- Tourism as an important sector having an impact on development of country's economy
- The main benefits of tourism, i.e., income creation and generation of jobs
- The tourism industry in Pakistan is underdeveloped and mentioned the status of Lahore's sightseeing bus
- The potential for tourism in Lahore was also explored and how improvement can be made

This session concluded with an effective question and answer session.

The moderator then invited the next presenters **Quratulain Ayaz**, Urban Planner, and **M Usman Sheikh**, Transportation Engineer, Parsons Intl., to present their work on **Critical Review and Analysis of BRT System of High Density Metropolises of Pakistan**

- In this presentation, they talked about:
  - The implications of increased urbanization and increased vehicles on roads
  - The need to reducing these effects by provision of BRT and other Mass Transit options
  - An evaluation of the newly inducted BRT corridors in three Pakistani cities, namely Islamabad, Lahore and Multan
  - As per ITDP ranking method was highlighted which composed of two broader categories, design and operational deduction scores
  - In Scoring by ITDP Lahore Metro and Islamabad Pindi metro got 52 and 64 (Basic BRT) whereas in scores under study these secured 63 and 69 scores respectively making both bronze
  - In Design scores a decrement was made notable
  - Infrastructural and ‘Quality of service and passenger information system’ and ‘Integration and access’ difference of scores (between ITDPs and study’s scores) were also discussed
  - Lahore green line BRT and Islamabad Rawalpindi BRT was ranked as ‘Bronze’ and Multan BRT as ‘Silver’

This session concluded with an effective question and answer session.

The next presenter **Hamza Tariq**, Transportation Engineer, was invited to present his work on **GIS Based Destination Accessibility Via Public Transport.**

- During his presentation, he talked about the following:
  - Accessibility as one of the governing performance evaluation parameters for public transport
  - A case study of Speedo bus service was presented using ArcMap for measuring accessibility
  - The excel of digital mapping use as a measure of both distance and time based accessibility
  - Two criterions were developed for measuring the accessibility of destinations through public transport. One based on number of routes accessible and the other based on the access time (time needed to reach the destination from bus stop through walking)
  - Total accessibility score was sum of scores of both criterions
  - Various conclusions were made based on the results

In the end, recommendations for future work were also given.

The moderator invited the next presenter **Abdul Basit**, Transportation Engineer, Habib Construction, presented his work on **Evaluation of Factors Causing Road Accidents: A Case Study of Lahore.**

- During his presentation, he talked about the following:
  - The traffic conditions of Lahore have deteriorated with time causing an immense increase in the number of road accidents in the recent years
  - Raised questions on the safety of people on roads
  - Different studies have been carried out to recommend an effective solution for this issue. Similarly, this study also presents the results of a quantitative overview of road safety issues in Pakistan which was carried out and shared in the presentation
  - The analysis of the current research has revealed the major causes of the accidents on the road in the city of Lahore

The presentation was concluded with conclusions and recommendations.

The moderator invited the last presenters of the session **Musharaf Muzaffar and Ayesha Ghiyas**, Urban Planners, to present their work on **Retrofitting of University Campus-A Case Study of University of Management and Technology, Lahore**

- In their presentation, they talked about:
  - Importance of urban design in context of educational institutes in Pakistan
  - The intense level of activity generating notable blockage on the campuses roads and in their vicinity with focusing on UMT
  - A systematic approach and modern techniques for UMT Lahore as case study, for achieving sustainable, accessible, safer and secure environment. Systematic planning approaches for the segregation and dissociation of the various transport modes (including auto, cars, bicycle, and pedestrians) outside the University of Management and Technology, Lahore Campus have been scrutinized
  - The interflow of pedestrian and motor traffic with intensive congestion outside the campus
  - Transportation surveys including traffic count surveys, pedestrian and parking surveys and user perception regarding campus retrofitting and transportation framework

The overall findings of the research include the retrofitting and development strategy for UMT reflecting the components of planning (mobility, accessibility, safety, security and sustainability).

The session approached towards its end. The moderators invited again the session chair, Dr Muhammad Imran to conclude the session with his worthy remarks.

**Dr Imran** appreciated the input achieved from all presentations of speakers and presenters. He further suggested few recommendations on how the transport sector can be improved in our country.

The whole session was then followed by souvenir and certificate distribution to our distinguished guests and presenters for which the **Dr Fariha Tariq** HoD CRP Department, HoD CRP Department, and **Mubashar Hussain**, CEO, Osmani and Company, to the stage.

The session ended successfully with a group photograph, followed by Tea and Lunch break.

## **Session: Energy Efficient Architecture**

**Moderators:** Beenish Mujahid and Najam ul Haq

**Team Members:** Seemin Aslam and Allah Ditta

**Dated:** October 25, 2018

**Time:** 11:00 am

**Session Chair: Dr Arfin Khan Lodhi**

Currently, he is working as a Research Professor at Texas Tech University, Lubbock, Texas and Professor, School of Science, UMT, Lahore.

He has written more than 250 research papers and author of many books. He is Al Khwarzami Laureate (1989). He received US flag flown on the US capitol building, Washington, in 2014. He did lot of research on renewable energy projects.

### **Remarks**

Dr Arfin Khan Lodhi appreciated the speakers and highlighted the following three points:

1. Global warming is mainly due to human interventions and the major concern of present day world. Globally, we need motivated individuals to cope with the situation. He suggested that the hydel energy can be a viable option
2. Proper insulation, incorporation of false ceiling and retrofitting of existing buildings can save energy up to 40%
3. He concluded with thanks and said that we should design by considering wind (wind catcher) and sun orientation and available natural resources

**Dr Sabahat Alamgir**

She is Chairperson of the Department of Product and Industrial Design, UET, Lahore, since June, 2014. Prior to that, she served Architectural Engineering and Design Department as Professor.

She also has worked with Rawalpindi Development Authority and Pakistan Public Works Department, Islamabad. She participated in different national and international conferences and published more than 35 research papers and supervised many undergraduate and master's theses. Her research interest lies in Energy Efficient Architectural Planning.

### **Focus**

She stated that the design is a core issue and energy consumption can be reduced to 70% by applying energy efficient building design and construction techniques. She gave an overview of global warming and its consequences, challenges of rapidly growing population and architect's role in construction sector and subsequent occupation that consumes almost 48-50% of energy. She emphasized the importance of building orientation, fenestration pattern, insulation and building envelop design. She concluded by saying that we can save energy and resources by considering energy efficient design and 'right' material selection.

### **Ar Zahid Javaid Raja**

He is Managing Director/Principal Architect of Tech Zone Consultants in Lahore. He served Department of Architecture, UET, Lahore, as a Lecturer and C & W Department, Government of Punjab as Deputy Director and retired from Government service as Chief Architect Punjab. He got training in various fields abroad as well as in Pakistan.

His presentation topic was '**Architectural Design of Office Building for Punjab Energy Department in Lahore-A Proposal.**'

### **Focus**

He demonstrated his 8 Kanal, 6 storey building project in Johar Town, Lahore; built on the concept of green architecture. He presented some examples of 'green buildings' from Malaysia, India and Europe. He emphasized the importance of site analysis and green architecture elements. He mentioned that roof and terrace gardens, water harvesting system, passive techniques, and provision of atrium are vital in high rise green building design. He concluded by comparing the energy efficiency of his project with traditional buildings. He requested government, professionals and authorities to encourage construction of green building in Pakistan.

### **Prof Dr Arif Khan**

He has served as Chairman, Department of Architectural Engineering and Design, UET, Lahore.

His presentation topic is ‘**Effective Role of Academia in Energy Efficient Architecture.**’

### **Focus Area**

He gave an overview of the current situation regarding energy efficient architecture, identification of prevailing problems and available opportunities. He emphasized on six aspects to build energy efficient architecture in the region. They are:

1. Awareness in the society
2. Training of faculty/teachers/mentors
3. Related Research
4. Courses on energy efficiency
5. Linking academia with industry
6. Integration of professionals working in this field.

### **Presenter 1: Amna Iqbal, Assistant Professor, Superior University**

‘Slum Redevelopment for Low Cost Shelters by Using Energy Efficient Techniques’

### **Focus Area**

She introduced the present condition of slums across the world particularly in Lahore. She proposed bamboo construction for the China scheme slum near Ring Road, Lahore. She highlighted the importance of spatial design, use of renewable energy resources and bio-gas digester.

### **Presenter 2: Fareeha Malik, Lecturer, UMT**

‘Sustainable Building Design for the Region of Southern Punjab: A Case Study of Bahawalpur Dwellings’

### **Focus Area**

She said that sustainable building design can improve building comfort and performance in the region of Southern Punjab. Before starting construction; she suggested studying the current situation there and adapt to advance research methodologies. She proposed some sustainable design strategies and emphasized on the significance of climatic study on design process, use of sun shading devices and central courtyards. By giving examples of dwellings from Bahawalpur; she concluded that how we can build sustainable and affordable houses in that particular region.

### **Presenter 3: Hafiz Saeed, Lecturer, University of Lahore**

‘Retro Fitting of Existing Houses for Energy Efficiency in Lahore Pakistan’

### **Focus Area**

He claimed that retrofitting of existing buildings for energy efficiency could be a workable option. Insulation of building (walls and roof) and proper building envelop can significantly reduce energy load.

**Industry Session Presentation: Hafiz Mujib ur Rehman, CEO, Sustainable Design Solutions**

Ar Mujib ur Rehman graduated in Architecture from University of Engineering and Technology, Lahore, Pakistan in 1996. He has 22 years experience in Pakistan, Middle East and North America ranges from small scale residential units to mega scale complexes. He worked with 'HOK' a Global Architectural Design firm for 8 years. He became LEED A.P from Canadian Green Building Council in 2007. He started his own practice in 2011 in Pakistan. His sustainable design practice has received LEED Gold and Silver certifications in projects from USGBC.

**Focus Area**

He emphasized on the sustainable design approaches for the construction of energy efficient buildings. He mentioned that site selection, site analysis and passive design approaches are equally important. He recommended the use of insulation materials, LEED certification of buildings and recycling or reuse of building materials.

**Souvenir Presentation and Group Photo**

**Proceedings Noted by:** Seemin Aslam/Allah Ditta

**Dated:** October 25, 2018

**Session:** Sustainable Infrastructure, Planning and Development

**Moderator:** Mutahir Mehmood Awan

**Date:** October 25, 2018

**Time:** 02:45 PM

**National Speaker 1:** Erum Ashfaq, Manager, Urban Planning, Infrastructure Development Authority Punjab (IDAP)

**Topic:** Cultural Heritage as an Engine of Economic Growth (for Small Towns of Pakistan)

- History is main magnet to enhance cultural tourism
- Cultural heritages relation with economy and regional development
- Internationally it is termed as economic growth strategy

- Equally contributes to the economy by attracting tourists, promotes tourism as well as employment opportunities
- Highlights the importance of heritage so as to become identity & belongings of the nation
- It must be an ethical as well as legal obligation on the people to conserve cultural heritage
- Cultural heritage welcomes its cultural tourist
- Relates examples with India & Europe that converted their heritage sites into restaurant
- This should be the part of economic strategic plan to generate economy

**National Speaker 2:** Farhan Abbas, Manager, GIS, Infrastructure Development Authority Punjab (IDAP)

**Topic:** Use of Technology in Planning and Development (Business Intelligence, 3D Printer, Mixed Reality Hololens and Aerial Mapping with UAVs)

- Described relationship between use of paper and technology
- Their environmental impacts as well
- Also detailed out the role of power apps, i.e., IDAP software
- Business intelligence (BI) & decision support system
- Power business intelligence is GIS supported tool and mobile application
- Potential of above-mentioned apps is as follows:
  - 3D printing
  - Video demonstration of 3D printing
  - 3D printing for showing physical models of housing
  - Virtual reality
  - Aerial mapping

**National Speaker 3:** Dr Atif Aslam, Assistant Professor, University of Engineering and Technology, Lahore

**Title:** Job Housing Balance and Accessibility Determinants of Sustainable Urban Travel

- Explained the relationship between urban form characteristics
- Data not available on employment opportunities at neighborhood level

- Job housing balance is **inversely** proportional to the travel time and use of motorized vehicles
- Mixed land use development is same **inversely** proportional to the commuting distances.
- Promote mix land uses development
- Review zoning by laws
- Promote workability
- Focus on integrated mass transit

**Presenter 1:** Khurram Fareed, CEO, ShehrSaaz Pvt. Ltd.

**Title:** Introduction of Affordable Housing and other Associated Issues

- 1.2 billion people lack affordable housing
- Pakistan is 6<sup>th</sup> populated country in the world
- Projection of housing gap on the basis of statistics
- Described relationship between urbanization and housing shortages
- State bank identified shortage of 10 billion houses in the country
- Listed out misconceptions associated to affordable housing
- Discussion on housing policy that it must be revised accordingly
- Challenges involved in 5 million housing program are:
  - Financial
  - Institutional
  - Constitutional
- Discussed housing policy that it may revise accordingly. (National Housing Policy, 2001)
- Focused on energy efficient homes
- Highlighted the slums as potential land
- Slums regeneration
- Promoted vertical development
- Reviewed rules and regulations
- Financial reforms

**Presenters 2:** Nida Batool and Areesha Gul, Lecturers, SAP, UMT

**Title:** Comparative Study of Garden City, UK and Model Town, Lahore

- Comparative study of Welwyn Garden City in Hertfordshire-United Kingdom and Model Town in Lahore, Pakistan
- Highlights the principles
  - Self-governance
  - Environmental sustainability
  - Productivity

**Presenter 3:** Shafaat Nawaz, Assistant Director Town Planning, LDA

**Title:** Learning Lessons from Comparative Urban Governance and Suggesting Approaches for Pakistan

- Multi-level governance approach
- Complexities of urban development disturbs urban governance system
- Always confusion between government and governance
- Development of New York is based on **clientelist** approach
- Round table task in Germany: **corporatist** approach
- Bureaucratic family relates with **managerial** approach
- **Populistic** approach links with community

**Industry Session Presentation: *Panel Discussion with LDA Officials***

**Nadeem Akhtar Zaid, Chief Town Planner, LDA**

- We should preserve our heritage
- We can add more buildings in historical sites
- LDA put their efforts to incorporate such checks

**Munawar Abdullah, CEO Imptrax**

- We must have to move towards vertical development or high-rise buildings to accommodate as much people as we can
- We don't take care of our specialized group of people, we don't have hospitals for them
- IT can be used to for efficient infrastructure
- Explains ideas about studio apartments for bachelors
- Take care of special citizens
- Head towards E-Commerce

**Ayesha Mutahir, Director Town Planning, LDA**

- Highlighted the significance of sustainability
- LDA has done some amendments in master plan of Lahore
- In the same way, working on E-Governance system
- LDA similarly in favor of automated processing of building plans by registered architects by the authority
- Promoted vertical development as well

**Session Title: Conference Concluding Session**

**04:30 pm to 06:15 pm**

**Session Chair:** Dr Sheikh Abdo Bin Muhammad Ibrahim Ateen

Director General  
Muslim World League  
Makkah

**Moderators:** Architect Dr Saima Gulzar and Khalil Arbi

04:30 pm to 04:40 pm	Dr M Yusuf Awan Dean, School of Architecture and Planning, UMT
04:40 pm to 04:50 pm	Dr Muhammad Aslam Rector UMT
04:50 pm to 05:15 pm	Dr Sheikh Abdo Bin Muhammad Ibrahim Ateen Director General, Muslim World League, Makkah

05:15 pm to 05:35 pm	Abid H K Shirwani DG UMT
05:35 pm to 06:15 pm	Souvenir Presentation and Group Photo

The closing ceremony of the 3rd IBCE 2018 was attended by leading professionals, architects and industrialists who exchanged their experiences and research to enlighten the general public as well as professionals representing private and government bodies during the conference. The IBCE 2018 provided a premier interdisciplinary platform to present and discuss the most recent trends, innovations, and burning issues concerning practical challenges related to building and construction, home appliances, and renewable energy. **Dr Sheikh Abdo Bin Muhammad Ibrahim Ateen**, Director General, Muslim World League, Makkah, graced the closing ceremony as a chief guest. The occasion was also graced by the presence of **Ibrahim Hasan Murad**, President, ILM Trust, **Abid H K Shirwani**, DG UMT and Chief Organizer IBCE, **Dr Muhammad Aslam**, Rector UMT, **Dr M Yusuf Awan**, Dean SAP, **Muhammad Aslam Mughal**, Senior Town Planner, and **Syed Irshad Ali Burney**, Dean, Art and Design, Superior University.

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