



MAHUA MUKHERJEE, PhD

Department of Architecture & Planning, IIT Roorkee.
Centre of Excellence in Disaster Mitigation and Management,
IIT Roorkee
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COA Registration No: CA/90/13407

EDUCATION

Professional Certificate Course <i>Environmental Planning & Management (E-Learning mode)</i> CEPT University, India	Nov,2010- May,2011
Post-doc research with Fulbright Fellowship Environmental Risk Management with emphasis on community seismic resiliency Architectural Engineering Department, Pennsylvania State University, USA, PA-16802	Jan-May, 2008
International Certificate course <i>Organised Self Help Housing</i> Lund University, Sweden, University of Costa Rica&Fuprovi	Jan- Feb2007
Doctor of Philosophy <i>Topic: Design Parameters for Human Settlements in a Megacity – Calcutta Case Study</i> Jadavpur University, Kolkata, India	December 2003
International Certificate course <i>International Construction Management</i> Lund University, Lund, Sweden	May 1996
Master of Engineering <i>Major: Building Science and Technology</i> University of Roorkee, Roorkee India	November 1990
Bachelor of Architecture Jadavpur University, Kolkata, India	May 1988

WORK EXPERIENCE (Teaching & Research)

15+ 2+ 4 Years in total

➤ Indian Institute of Technology, Roorkee

Professor	22 December, 2018 -till date
Head, CoEDMM	Since 6 th Feb, 2018- till date
Associate Professor	23 October 2012 -21 December, 2018
Assistant Professor	January 2005-October 2012
Lecturer	January 2003-January 2005

Responsibilities:

- Nurturing administrative, academic and professional interest of the Centre of Excellence in Disaster Mitigation and Management, IIT Roorkee
- Similar role played in the Department of Architecture and Planning, IIT Roorkee
- Create interest of the graduate and postgraduate students in issues like urban climate, structural forms, earthquake resistant design and sustainable and safe habitat design
- Extending guidance to Research Scholars and Post Graduate students' dissertations
- Contributing to Research publications on areas of interests including pedagogy
- Department Time table, Library, M.Arch Course Coordination, Examination, Building Maintenance
- Advanced Climatology Laboratory development for UG , PG and PhD. Scholars
- Conducting courses on emergent areas for students, scholars, faculty and professionals
- Sponsored and Consultancy Research

Institute Level Role:

- Coordinator- Housing Resource Centre under PMAY-HfA, 2016-19
- Institute Architect; Working member of IIT Roorkee Campus Master Plan 2030-2050 till 2014
- Member of Internal Complaints Committee for Sexual Harassment at work place 2013-17
- Chief Adviser of Himalayan Explorers' Club for 2011-12, and Staff Advisor 2007-11
- GATE and JEE Examination Question Paper Setting Team member, leader and invigilation

➤ **Birla Institute of Technology, Mesra, India**

September 2002-January 2003

Lecturer in the Department of Architecture

Responsibilities:

- Teaching undergraduate students

➤ **Smt. J.D. Birla Institute of Home Science, Calcutta, India**

July 1997-June1999

Lecturer

Responsibilities:

- Teaching students with backgrounds different from students of Architecture.
- A challenging job to teach students drafting and interiors and materials

➤ **Jadavpur University, India**

Visiting Lecturer in the Architecture Department

1996-1997

Senior Research Fellow in the Architecture Department

1991-1995

Responsibilities:

- Teaching Construction to UG students
- Research work
- Teaching Assistantship

WORK EXPERIENCE (Professional)

6 3/4 Years in total

➤ **M/s Interdesign, Calcutta**
Associate Architect

July 1999-August 2002

Details:

- Water Spa project at Jaipur, India
- Residential School at Shantiniketan, West Bengal
- Pondicherry Ashram Library renovation project
- Revival of Star Theatre, Calcutta – an entry for Conservation Competition project
- UAL Bengal- a factory complex with residences, club, temple at West Bengal.
- Competition on Renovation of Accountant General's Office for Bengal Circle (a nineteenth century colonial building), Calcutta
- Member of National level winning team at Phase I for Architectural Design entry for the proposed complex of National Small Industries Corporation, New Delhi.
- Handbook in ACAD for HINDALCO's Railway Ticket Booking Counter

➤ **M/s C E Consultants, Calcutta**
Junior Architect

1995-1997

Details:

- Renovation project for library of Viswabharati Publication House, Calcutta
- Project Architect for Prawn processing unit at Ghoshpara, South 24 Pgs, West Bengal
- Design of Commercial Complex for Zilla Parishad at Suri, Birbhum, West Bengal
- Local Hotel cum restaurant at Suri, Birbhum, West Bengal

➤ **M/s Sanyalson & Associates, Calcutta**
Trainee Architect

1990-1991

Details:

- Cooperative Housing Complex in Garia, Calcutta
- Higher Secondary School building with laboratory block for Science section, Kolkata

COURSE/ COMPETITION/ WORKSHOP/PANEL DISCUSSION ORGANISATION

- Regular Visiting Guest Lectures at CoEDMM, IIT Roorkee since 2018
- Discussion on “**Malpa Landslides**” on 18th September, 2018 Centre of Excellence in Disaster Mitigation and Management (CoEDMM), IIT Roorkee in association with INAE Disaster Risk Reduction Group.
- Workshop on **Risk and Safety Assessment of Built Environment in IIT Roorkee** on 21st March 2018, Centre of Excellence in Disaster Mitigation and Management (CoEDMM), IIT Roorkee
- Meeting on “Science and Technology for a sustainable future” on the National Science Day, 28th February, 2018, Centre of Excellence in Disaster Mitigation and Management (CoEDMM), IIT Roorkee followed by a Panel discussion on “**Role of CoEDMM in Campus Disaster Risk Reduction**”.

- Organizing Coordinator of **National Student Design Competition NSDC 2017** under PMAY, MoHUA
- Course Co-Coordinator for 3-day National Short Term Course (STC) on **Modeling Techniques For Sustainable Built Environment** in IIT Roorkee from 17th -19th March 2017
- Course Co-Coordinator for *GRIHA Council Training Programme* for students of M. Arch and MURP in IIT Roorkee during 1-2nd September, 2016
- Course Co-Coordinator for six-day National Training Programme for students of Architecture on "**Earthquake Resistant Building Design**" held in IIT Kanpur during 6-11th July 2015
- Programme Coordinator for 3- Day National Workshop on "**Research Methodologies for Sustainable Built Environment**" in IIT Roorkee during 16-18th October, 2014
- Conducted 2-day workshop on "**Thermal comfort in warm Humid Climate**" for Architecture students of Gitam University, Vishakhapatnam during 7-8 August, 2014
- Course Co-Coordinator for six-day National Training Programme for students of Architecture on "**Earthquake Resistant Building Design**" held in IIT Kanpur during 2-7th July 2012
- Programme Co-Convener for "**Disaster Mitigation Day**" organised on behalf of the Institute of Engineers (India), Roorkee Local Chapter on 12th October, 2011
- Programme Coordinator for Two-day National Training Programme on " **Sustainable Building Services Design to Mitigate Anthropogenic Hazards**" held in IIT Roorkee during 26-27 Feb, 2011
- Programme Coordinator for Two-day Training Programme on "**Sustainable Design and National Green Rating for Building: GRIHA**" held in IIT Roorkee, 4-5th December, 2010
- Organising Secretary for the National Research Conference on "**Disaster Mitigation in Housing in India: an Agenda for Future**(HDMFA2010) held during 19-20th March, 2010 in IIT Roorkee
- Programme Coordinator for Two-day Training Programme on "**Energy Efficiency and Green Rating for Building (GRIHA)**" held during 24-25 Oct, 2009
- Organising Secretary for the National Seminar on "**Research activities in Disaster Mitigation for Housing in India (HDMR 09)**" held 22-23rd August, 2009 in IIT Roorkee
- Organising Secretary for the National Seminar on "**Housing and Disaster Mitigation Efforts in India: Case-studies(HDME-09)**" held on 18th April, 2009 in IIT Roorkee
- Organised the Panel discussion on "**Resiliency, Responsibility and Research for Safer Housing**" on 18th April, 2009 as part of the National Seminar HDME-09, in association with United States Indo-American Foundation
- Coordinated for USIEF's **Outreach Programme** for Students and Faculties in IIT Roorkee, on 17th April, 2009
- Member of Organising Committee for International Conference "**Knowledge Sharing and IP Management: Evolving Strategies for Asia-Pacific**"(KIPASPA) held in January 29-31, 2009 in IIT Roorkee as an activity of IPR Cell, IIT Roorkee
- Coordinated One-week workshop on "**The Earthquake resistant building Design and Construction**", under the aegis of Ministry of Human Resources and Development, in the *National Programme for Earthquake Engineering Education* on behalf of Department of Architecture & Planning, IIT Roorkee, during 28th August to 1st September, 2006,

- Coordinated One-week workshop during 8-12th August, 2006, Third Training of Trainers (TOT) Programme on **Earthquake Resistant Building and Construction** under the aegis of *Ministry of Home Affairs* in the National Programme for Capacity Building of Architects in Earthquake Risk Management on behalf of Department of Architecture & Planning, IIT Roorkee
- Coordinated One-week workshop on “**The Earthquake resistant structures for Architecture**”, under the aegis of Ministry of Human Resources and Development, in the *National Programme for Earthquake Engineering Education* on behalf of Department of Architecture & Planning, IIT Roorkee, during 8-12th August, 2005
- Member of organizing committee for the two-day National workshop on **IPR curriculum for Engineering and Science students** in IIT Roorkee, 18th – 19th March, 2005
- Coordinated One-week workshop in March, 2005; 2nd Training of Trainers (TOT) programme on **Earthquake Resistant Building and Construction** under the aegis of *Ministry of Home Affairs in the National Programme* for Capacity Building of Architects in Earthquake Risk Management on behalf of Department of Architecture & Planning, IIT Roorkee
- Coordinated the student competition on **Innovative Bamboo structure** during the Cognizance, 2005 the *annual Technical Festival* of IIT Roorkee, 4- 6th of March, 2005
- Coordinated One-week workshop in February, 2005 First Training of Trainers (TOT) Programme on **Earthquake Resistant Building and Construction** under the aegis of *Ministry of Home Affairs* in the National Programme for Capacity Building of Architects in Earthquake Risk Management on behalf of Department of Architecture & Planning, IIT Roorkee

INVITED LECTURE PRESENTATION

- Delivered Lecture on “**Sustainable and Resilience neighbourhood planning/design** “ in the Faculty Induction Programme on “Disaster Risk Management For Built Environment” held during 7-11 January, 2019 in MEASI, Chennai, India
- Delivered Lecture on “**Blue-Green Ecosystem Health Monitoring Techniques for Urban Risk Reduction**” in the Session on *Earth Observation for Assessing Resiliency of Ecosystem as an Instrument for Disaster Risk Reduction* during the United Nations International Conference on Space-based Technologies for Disaster Risk Reduction - "Enhancing Disaster Preparedness for Effective Emergency Response", 24-26 October 2018, Beijing, China
- Delivered Lecture on “**Green Urban Space & ‘GUC-3CC’ Framework to Mitigate Urban Climate Modifications**” at Architecture and Landscape Department of Penn State University, USA on 14th August, 2018
- Delivered Lecture on “**Blue-green network and urban infrastructure development**” at the Thematic Event on Ecosystems-based Disaster Risk Reduction in the 2018 Asian Ministerial Conference on Disaster Risk Reduction (www.unisdr.org/amcdrr2018) during 30-6 July, 2018
- Delivered Invited Lecture on “**Glocal Connect and Knowledge Share in DRR** “during the National level training programme on “Knowledge Management for Disaster Risk Reduction and Resilience (KM4DRR&R)” during 23 - 27 April 2018 , NIDM, Delhi
- Presented talk on “ **Institutional role of CoEDMM in disaster risk resilience**” at DPRI, Kyoto University, Japan at GADRI board Meeting 15 March, 2018
- Delivered Lecture on ‘**Sustainable Studio Designs**’ and ‘**Urban Risk and Research**’ in BinUCom Workshop organized by KRVIA and EU in Mumbai during 15-16th September, 2017

- Delivered Lecture on “**Urban Resource Conservation to save Energy**” in the triennial IWSA Conference on “Sustainable Development in India: Role of Science and Technology” organized by IWSA, Navi Mumbai on 2-4 December, 2016
- Delivered Key-note Lecture on “**Natural Resources for Climate responsive design**” in the workshop on “Importance of Climatology in Architecture” In SRM College, Muzaffarnagar in October, 2016
- Delivered Lecture on “**Planning and design aspects for Housing**” in the Sensitization Programme on “Good Construction Practices including Emerging Technologies for housing” organized by BMTPC in association with Government of Uttarakhand in Dehradun, Uttarakhand on 27th September, 2016
- Delivered Lecture on “**Green Resilient Urban Infrastructure**” in Sustainable and Efficient Structures in Smart Cities, organized by IIT Roorkee-NBCC R&D Centre at Greater Noida Extension Campus, IIT Roorkee on 17th September, 2016
- Lecture on “**Green, Resilient and Future City – Bhagalpur Smart City**,” in Bhagalpur Smart City Seminar, organized by Bhagalpur College of Engineering, 26-27 August, 2016
- Delivered lecture on “**Research Methods for Urban Risk Study**” on 24 June, 2016 for Global Survivability Studies Program, Kyoto University
- Delivered Lecture on “**Green, Resilient Infrastructure**” in the 7th International Conference on Water Resources and Environment Research (ICWRER2016), Kyoto TERRSA, Kyoto, Japan, June 5-9, 2016
- Delivered Lecture on “**Urban Heat Island and Research Methods**” in the SPA, New Delhi on 19th March, 2016
- Delivered lecture on “**Curative Next-Gen Urban Ecosystem**” in the Training Programme "Urban Pollution: Engineering and Strategic Planning to Combat Air Pollution" during February 8-12, 2016 at IIT Delhi on 11th February, 2016
- Delivered lecture on “**Building Science, Urban Infrastructure and Human Beings**” in the 65th GCOE-ARS Seminar Graduate school of Engineering, Uji Campus, Kyoto University on 15th Jan, 2016
- Delivered Lecture on “**Architectural Considerations and Guidelines for Earthquake Resistant Design of Buildings**,” in Patna organized by Bihar State Disaster Management Authority (BSDMA) on 27th May, 2015
- Delivered Lecture on “**Prototype design and planning of Affordable Green Housing for Doaba Region**” organized by Building materials and technology Prevention Council (BMTPC) Jalandhar, March, 2015
- Delivered Lecture on “**Prototype design and planning of Affordable Green Housing**” in Kolkata meet organized by Bengal Chamber of Commerce and Industry (BCCI) and Building materials and technology Prevention Council (BMTPC) on 23rd Dec, 2014
- Delivered lecture on “**Motivational Practices to unlocking creativity**” in Training of Trainers (ToT) program on “*Harnessing the Researcher to Promote sustainable Innovation*” organized by IPR Cell, IIT Roorkee from September 02-06, 2014
- Delivered lecture on “**Sustainable Cities and Towns in Jharkhand**” at the 1st Build Jharkhand Conference at Ranchi organised by Jharkhand Government during 30-31st October, 2013
- Delivered lecture in the 2-weeks INAE summer training on **Engineering input required for Disaster Mitigation & Management** for UG Engineering students, organised by Centre of

Excellence in Disaster Mitigation & Management and Department of Earthquake Engineering, IIT Roorkee during June 5-19, 2013

- Presented **Beyond the building: Energy efficient surrounding is future of India** in the CIB Task Group 66 Webinar on "*The Implementation of Energy Efficient Buildings Policy in India and Beyond*" organized by CIB, the Netherlands, 28 June 2012
- Delivered lecture in the SAARC Training Programme on **Techniques for Earthquake Resistant Structures for Engineers and Architects** organised jointly by SAARC Disaster Management Centre, New Delhi and Centre of Excellence for Disaster Mitigation and Management, IIT Roorkee; June 18-29, 2012.
- Delivered talk on **Connect with the Nature is Future of Urban India**, presented in National Consultation on "*Development, Construction and Dissemination of Cost Effective Technologies*" organized by BMTPC, India Habitat Centre, New Delhi, 29th May 2012
- Presented "**Town & Country planning Legislation for safety in natural hazards**" in the Advocacy Programme on "Mainstreaming DRR in Housing Sector" organized by DMMC, Dehradun on 18th Nov, 2011.
- Delivered lecture on **Design Strategies for Green Architecture** in Shivalik College of Engineering, Dehradun on 5th Nov, 2011
- Delivered lecture on **Building Construction Practices** in Shri Ram School of Architecture on 22nd October, 2011
- Faculty Resource for the National Workshop on **Earthquake Resistant Practices For Undergraduate Students of Architecture** organized by NICEE, IIT Kanpur during 4-9 July, 2011 in IIT Kanpur
- Delivered lecture on 26th May, 2011 on **Energy Efficiency and Conservation** for Officials from EEA of Ethiopia–International Training Course organised by AHEC, IITR held during 16–28 May, 2011
- Panelist in the *Advocacy Workshop on mainstreaming Urban Risk Reduction into Development Plan/ Projects/ Programme* and presented **Urban Risk Reduction in City Planning**, organized by DMMC and JNNURM, Uttarakhand, held on 19th October, 2010 in Dehradun
- Faculty Resource for the National Workshop on **Earthquake Resistant Practices For Undergraduate Students of Architecture** organized by NICEE, IIT Kanpur during 12 – 17 July 2010, IIT Kanpur
- Panelist in the *Regional Consultation Workshop on Urban Risk Reduction* and presented **Applicability of Building byelaws to Reduce Urban Risk**, organized by UNDP and DMMC, Uttarakhand, held in Nainital on 8-9 July, 2010.
- Delivered lectures on 8th and 9th June, 2010 in the **Disaster Mitigation and Management for UG Civil Engineering Students**–Summer Training Course organised by CoEDMM held during June 1-30, 2010
- Delivered lecture on 24th March, 2010 on **Balancing Urban Water Stress** in the International Short-term Training Course on "Urban Flood Modeling and Drainage Design" organised by Hydrology Department, IIT Roorkee, held during March 22-27, 2010
- Panelist in the session of **Conservation through Green Building** for the Conference **Environment Summit** on the occasion of *National Pollution Prevention Day & National Conservation Day*, being organized jointly by CII, Uttarakhand Council of Science&

Technology(**UCOST**) and Uttarakhand Environment Protection and pollution Control Board (**UEPPCB**) on 2-3 December 2009 at Dehradun, India

- Faculty Resource for the National Workshop on **Earthquake Resistant Practices For Undergraduate Students Of Architecture** organized by NICEE, IIT Kanpur during 06 – 11 July 2009, IIT Kanpur
- Lecture in the SAARC Course on **Earthquake Disaster Management** organised jointly by SAARC Disaster Management Centre with Centre of Excellence for Disaster Mitigation and Management, IIT Roorkee during 30th March- 4th April, 2009
- Delivered classroom lectures on *Earthquake Basics* and introduced *the software RESIST* and conducted Studio classes for the entire duration in the “**National Workshop on Earthquake Resistance Practices for Students of Architecture**” organized by NICEE, IIT Kanpur during July 3-8, 2008
- Presented the invited talk on *Global warming and Human habitation* the occasion of USEFI-EWC Alumni Meeting on '**Global warming and climate change**' organised by United State Education Foundation in India, New Delhi on June 25, 2008
- Presented the lecture on *Passive Architecture- Learning from Tradition* in the course titled as “**Environment-friendly Civil Engineering Design Programme-2006**” for the ONGC officers organized by Continuing Education Centre of IIT Roorkee during March 27-31, 2006
- Presented the invited talk on *Challenges in House construction at present in India* in the seminar “**The Changing Face of South Asia: Society, Culture and environment**”, organized by Centre for Built Environment (CBE) in collaboration with SASNET, Sweden on December 13, 2005
- Presented the Lecture on *Energy efficient building design basics, Passive Architecture and Daylighting* in the course on “**Environment-friendly Civil Engineering Design Programme-2005**” for the ONGC officers organized by Continuing Education Centre of IIT Roorkee during March 14-18, 2005
- Presented an invited talk on *Sustainable Human Habitat* on the occasion of 150th Anniversary of American Society of Civil Engineers, organized by ASCE in Kolkata, 2002.

ATTENDING TRAINING COURSES/ CONFERENCES/MEETINGS/ WORKSHOPS/ CONSULTATION

- **2019**
 - Attended Global Housing Technology Challenge (GHTC- 2019) organized by MoHUA, Government of India during 2-3rd March, 2019 as Jury Member for Potential Technologies and Processes for Incubation and Acceleration.
- **2018**
 - Attended ASTAAG (UNISDR) Meeting in Sendai, Japan from 30th November to 1st December, 2018.
 - Chaired the Session on **Earth Observation for Assessing Resiliency of Ecosystem as an Instrument for Disaster Risk Reduction** during the United Nations International Conference on Space-based Technologies for Disaster Risk Reduction - "Enhancing Disaster Preparedness for Effective Emergency Response", 24-26 October 2018, Beijing, China
 - 10th International Conference on Urban Climate, 6-10 August 2018 in City University, New York, USA,
 - The UN Conference AMCDRR 2018, 3-6th July, 2018 at Ulaanbaataar, Mongolia
 - The GADRI Board Meeting at DPRI, Kyoto University, Japan, 14-15 March, 2018

➤ **2017**

- 4th WIT International Conference on *Water and Society*, in Seville, Spain during 5-7 June, 2017
- *Sustainable Built Environment 2017* in the Department of Architecture and Planning, IIT Roorkee, 3-5 Feb, 2017, Roorkee, Uttarakhand

➤ **2016**

- Project Monitoring Committee Meeting for the Center for Building Energy Research and Development (CBERD) held on 22-23 September 2016 in Ahmedabad
- Building Bye-Laws meeting, Uttarakhand Government, Dehradun on 24th August, 2016
- MoHUPA- Housing for All Meeting in India Habitat Centre, New Delhi 12 Aug, 2016
- 7th International Conference on Water Resources and Environment Research (ICWRER2016), Kyoto TERRSA, Kyoto, Japan, June 5-9, 2016
- Project Monitoring Committee Meeting for the Center for Building Energy Research and Development (CBERD) held on 15-16 February 2016 at Hyderabad.

➤ **2015**

- 4th International Workshop on Sustainable Mountain Development during 7-9th October, 2015 in Itanagar, 2015
- National Workshop on Sustainable Built Environment (SBE) during 10-12nd April 2015 in Department of Architecture and Planning, Indian Institute of Technology Roorkee
- Indo-U.S. Joint Clean Energy Research and Development Centre (JCERDC) Centre for Building Energy Research and Development (CBERD) Third Project Monitoring Committee Meeting on 1-2 June 2015 in IIT Bombay

➤ **2014**

- Project Monitoring Committee meeting for the *Centre for Building Energy Research and Development (CBERD) project* scheduled for 29th September 2014;
- Training program for Master Trainers on ECBC at Jaipur during 12- 13th September 2014
- Workshop on Environment Friendly Siting and Site Master Planning of New Industrial Parks at Auroville, during 12-15th June, 2014

➤ **2013**

- 1st Build Jharkhand Conference at Ranchi on 30-31st October, 2013 organised by Jharkhand Government
- Syllabus Restructuring Workshop-III, Organized by Department of Architecture and Planning, IIT Roorkee in IIT Roorkee during 12-14th September, 2013
- Syllabus Restructuring Workshop-II, Organized by Department of Architecture and Planning, IIT Roorkee at Samode Palace during 13-14th August, 2013
- Workshop on frame work of common courses for B. Tech and B. Arch Program at NIT Patna on 20- 21 July 2013
- Syllabus Restructuring Workshop-I, Organized by Department of Architecture and Planning, IIT Roorkee at Greater Noida Campus, on 1st May 2013

➤ **2012**

- CIB Task Group 66 Webinar on "**The Implementation of Energy Efficient Buildings Policy in India and Beyond**" organized by CIB, the Netherlands, 28 June 2012

- National Consultation on **Development, Construction and Dissemination of Cost Effective Technologies** organized by BMTPC, held in India Habitat Centre, New Delhi, 29th May 2012

- National Conference on **Pre-Engineered & Innovative Techniques in Construction Industry**, organized by Indian Building Congress at Hotel Swissotel, Kolkata during 25-26 May 2012

➤ 2011

- International Conference on **Responding to Climate Change in the Caribbean**, held in University of London, United Kingdom, 13-14 June 2011

- Workshop on **Japan Multi-disaster: Earthquake, Tsunami, Fire & Nuclear radiation**, held in IIT Roorkee during 26-27th March, 2011

➤ 2010

- Brain Storming Workshop on **Seismic Retrofitting Policy** held on 22nd October, 2010 at Indian Institute of Technology Gandhinagar, Chandkheda, Ahmedabad

- Brainstorming session on **“Cost-effective building materials and construction technologies: problems & prospects”** organized by Building Material and Technology Promotion Council (BMPTC), India held on 27th August, 2010

- Regional Consultation Workshop on **“Urban Risk Reduction”** and organized by UNDP and DMMC, Uttarakhand, held in Nainital on 8-9 July, 2010.

- A discussion meeting on **“Housing Typologies in Earthquake prone areas”** organized by IIT Hyderabad in association with National Disaster Management Authority, New Delhi, held on 26th April, 2010 in Hyderabad.

- **International Housing Conference 2010 – “Sustainable Housing: Charting New Frontiers”** organized by Housing Development Board, Singapore Government, held during 26- 29 Jan, 2010 in Singapore.

➤ 2009

- **Environment Summit** organized jointly by CII, Uttarakhand Council of Science & Technology (**U-Cost**) and Uttarakhand Environment Protection and pollution Control Board (**UEPPCB**) on 2-3 December 2009 at Dehradun, India

- **10th APSA International Congress 2009**, CEPT, Ahmedabad, India, 24-26 Nov, 2009

- **2nd India Disaster Management Congress**, NIDM, Govt of India, Vigyan Bhawan, New Delhi, 4-6 Nov, 2009

- **GRIHA Training Programme for Evaluators & Trainers**, TERI_GRIHA, New Delhi, 2nd -4th Sept, 2009

- **Urban Sustainability and Green Buildings for the 21st Century**, UK-India Conference organised by RICS, OBU and , held at India International Centre, New Delhi on 15th May, 2009

- **Open Science Seminar** on *Climate Change and Himalayan Glaciers*, organised by TERI, held at India Habitat Centre, New Delhi on 13-14th May, 2009

➤ 2008

- **XXXVI IAHS World Congress on Housing Science**, organised by IIT Kharagpur, India, held in Kolkata during 3-7th November 2008

- USEFI-EWC Alumni Meeting on **'Global warming and climate change'** organised by United State Education Foundation in India, New Delhi on June 25, 2008

- 2008 Annual PACE Research Seminar on **“ Building Collaboration”**, held at the Pennsylvania State University, Pennsylvania, USA, on April 22-24, 2008

- **Fulbright Visiting Scholar Conference, 2008** organized by the Institute of International Education, the United States Department of State Bureau of Educational and Cultural Affairs, Washington D.C., and held in Denver, CO, USA, on April 2-5, 2008
- WISE Annual conference: VOICE 2008- a Networking Conference for Women Graduate Students in Science and Engineering, held in Pennsylvania State University, Pennsylvania, USA, March 2, 2008
- 2008 EERI Annual Meeting on the theme: **Hurricane Katrina -- Lessons For Earthquake Risk Reduction**, organized by Earthquake Engineering Research Institute, California, USA and held at New Orleans, Louisiana, USA, on February 6-9, 2008

➤ 2007

- 2-days workshop on **“Emerging Global Job Competencies”** on 25-26 March, 2007 organised by *IPR Cell, IIT Roorkee*
- 1 day Workshop on **“Developing a model for promoting Institute- Industry Linkages for IP creation and management”** on 24th Feb organised by *IPR Cell, IIT Roorkee*
- 3 1/2 weeks International Certificate course on **“Organised Self-help Housing- 2007”** in **Costa Rica** during 22nd Jan to 14th Feb, organised by *SIDA and FUPROVI*.
- One-day International Seminar on **“Housing conditions in Developing countries”** in San Jose, Costa Rica on 23rd Jan, 2007 organised by HDM, Lund University and University of San Jose, Costa Rica

➤ 2006

- One-week short-term certificate course on **“Non-linear seismic analysis of Structures”** at *IIT Kanpur, India* during 14th to 18th October
- Two-day National workshop on **“IPR curriculum for Engineering and Science students”** in *IIT Roorkee* during 18th – 19th March
- One-week workshop on **“Building High end structures in Bamboo”** at Kohima, Nagaland which was organized and supported by *the National Mission for Bamboo Application (NMBA), DST, Govt. of India* during 24th February to 2nd March
- One-week certificate course on **“Architecture for Earthquake Resistance of Buildings”** at *IIT Kanpur, India* organized by *NPEEE(National Program on Earthquake Engineering Education)* during 17th to 21st January

➤ 2004

- National workshop on **“Introducing Earthquake resistant design in architecture curriculum”** organized by *NPEEE(National Program on Earthquake Engineering Education)* at *IIT Kanpur, Kanpur* on 28-29 November.
- Meeting of **‘National Resource Institutions’** under *NPCBAERM in Ministry of Home Affairs*, North Block, New Delhi in September
- National workshop on **“Building high-end structures in bamboo”** organized by *National Mission for Bamboo Application, DST* in New Delhi in August

➤ 2003

- Three-day course on **‘Geographical Information Science’** in *IIT, Roorkee*

➤ 2002

- One week **‘8th Women’s World Congress’** held at *Makerere University, Kampala, Uganda*, July
- **IT Built International Conference – 2002**, organized by *IIT, Kharagpur, India*

- **2001**
 - Two-day workshop on '**Global Environment Facilities**' organized by *UNDP, UNEP and World Bank at Indian Institute of Management, Calcutta*
- **2000**
 - Attending Conference to present paper in '**New Millennium Housing Congress Singapore**' organised by *HD Board, Singapore*
- **1999**
 - 1-week workshop/ seminar on '**Balancing the load**', organised by *IFRTD at Colombo, Sri Lanka*
- **1998**
 - Meeting of **India Habitat Forum (INHAF)** in Banglaore, and became *one of the founder members* of the governing council of INHAF.
 - The Asian Coalition for Housing Rights (ACHR) meet on '**Building a regional direction and working process together**' in Bangkok, April 16-20.
- **1996**
 - 12 weeks Advanced International Training Programme on '**International Construction Management**' at *Lund University, Sweden* and presented a country report.
- **1994 to 1998**
 - Took part in organisation of series of International Workshops, organised by *Centre for Built-Environment, Calcutta*; on topics - **Housing Development and management, Architectural and Urban Conservation, Solar Architecture & Planning, Architecture : Future in Cities, Urban Agriculture and Sustainable Environment**
- **1991**
 - 4 weeks training programme on **New Mud Block construction and related technologies** organized by *Centre for Application of Science and Technology, Indian Institute of Science, Bangalore – 560 012, India.*

RESEARCH PROJECT

- **Translating urban spaces as strategic Energy and Water security measure**, DST-IPHEE, June 2017, PI, Grant approved: 50.92 L
- **Smart performance Roadmap for Airport Terminal Buildings**, DST-IPHEE, June-2017, Co-PI, Grant Approved: 111.38 L
- **Preparation of Standards & Specifications for Design and Planning of Affordable Innovative Green Housing**, BMTPC, New-Delhi, Grant Code: BMTPC- 742- APD dated January, 2014, Grant Amount Rs. 6.75 L. Completed
- **Documentation on Traditional Earthquake Resistant Building Technology available with SAARC Countries**, SDMC, Grant Code: SDC-703-DMC dated 25th April, 2013, Grant Amount Rs. 5.50 L. Completed
- **Surface transformation due to Urban dynamics in Institutional campuses and its Environmental impact**, UCOST, Grant Code UST-626-APD dated 8th May, 2012; Grant Sanctioned Rs. 5.63L. Completed

- **Earthquake Vulnerability and Loss appraisal for non-structural elements in the Campus Buildings: a roadmap**, DST File no. DST/23(576)/SU/2005, Co-PI- Dr. Yogendra Singh (EQD), *Completed & Report Submitted*, Project Cost: 6.50 L (appx)
- **Effects of Architectural Features on Wind Load in Buildings**, File No. UCS&T/R&D/Eng-3/06, PI : Dr. A. Gairola, under UCOST, *Completed & Report Submitted*; Project Cost: 5.69 L (appx)
- **From dawn to dusk-Transportation of Rural women to and from Calcutta metropolis:** International Research Project on behalf of Centre for Built Environment, Kolkata and supported by *International Forum for Rural Transportation and Development (ITDG) London, UK, 1997-98*; Project Cost: Rs. 40000/-

CONSULTANCY PROJECT

1. Building Regulation for Resilience in Uttarakhand, TERI, PI, Consultancy Amount 7.10 L, 2018
2. Evaluation of the “Monolithic Construction with structural stay in place CR steel specially designed formwork system Housing Technology” w.r.t. Green and Sustainability Parameters, BMTPC, PI, Consultancy Amount: 2.50L, 2017
3. Institutional Consultancy to Smart City Dehradun, 2017
4. Technical inputs for establishment of State Institute of Hydrology and water management, Bikaner; PI: Dr. N K Goel; Project No. Hyd 1009/11-12.

PUBLICATIONS (Conference Papers)

➤ National

1. Hudha, A S& Mukherjee, M 2015, ‘Creating Elderly Friendly Neighborhoods a Framework For Assessment’, *Sustainable Built Environment (SBE): proceedings of a National Conference in Department of Architecture and Planning, Indian Institute of Technology Roorkee*, 10-12nd April 2015.
2. Arora, K & Mukherjee, M 2015, ‘Insight on Lively Environment of Slum Streets: Kolkata and Mumbai’, *Sustainable Built Environment (SBE): proceedings of a National Conference in Department of Architecture and Planning, Indian Institute of Technology Roorkee*, 10-12nd April 2015.
3. Bansal, N, Mukherjee, M & Gairola, A 2015, ‘Smart Cities and Disaster Resilience’, *Sustainable Built Environment (SBE): proceedings of a National Conference in Department of Architecture and Planning, Indian Institute of Technology Roorkee*, 10-12nd April 2015.
4. Doreshor, K, Shankar, R & Mukherjee M 2013, ‘Inclusive Planning for the basic Services to Urban poor (BSUP) under JnNURM- case Study: Surat’, *Indian Cities in Transition: proceedings of the 61st National Town and Country Planners Congress*, 8-10 Feb 2013; TCPO, Ahmedabad, pp. 246-249.
5. Biradar, S, Mukherjee, M & Shankar, S 2012, ‘Sustainability Practices and Leadership in Higher Educational Institutes of India’, *Excellence in higher Education: a National Conference*, 28-30 June 2012, Department of Management Studies, Indian Institute of Technology, Delhi.

6. Bansal, N, Mukherjee, M & Gairola, A 2012, 'Sustainable Development-Crossroads at Urban Disaster Risk Management and Climate Change', *Energy Efficient Design of Buildings: Seeking Cost Effective Solutions: proceedings of a National Conference*, 6-12 February 2012, DCRUST Murthal, India.
7. Biradar, S, Mukherjee, M & Shankar, S 2012, 'Benchmarking - as a tool for sustainable buildings' *Energy Efficient Design of Buildings: Seeking Cost Effective Solutions: proceedings of a National Conference*, 6-12 February 2012, DCRUST Murthal, India.
8. Mohan, K, Flay R. G. J, Gairola, A, Mukherjee, M & Guha T 2010, 'Erosion tests for assessing wind speed amplification in the vicinity of tall buildings', *Disaster Mitigation in Housing in India- an Agenda for Future: HDMFA2010 National Research Conference*, 19-20 March 2010, IIT Roorkee.
9. Mohan, K, Gairola, A, & Mukherjee, M 2009, 'Strategies for mitigating the adverse effects of Pedestrian level winds in the vicinity of tall buildings', *Housing and Disaster Mitigation Efforts in India- Case-studies: HDME09 National Research Conference*, 18 April 2009, IIT Roorkee.
10. Mukherjee, M 2000, 'Habitat and Environment', *Emerging issues of Environmental Management: a National Conference*, March 2000, Department of Business Management, Calcutta University.
11. Mukherjee, M 2000, 'Housing, Urbanization and Environment', *Urbanization and urban Development: Past, present and future*, January 2000, Centre for Urban Economic Studies, Calcutta.

➤ **International**

1. Mukherjee, M., Madapala, J., Satheesh, A. and Mandal, A., *Performance-oriented Integration of Blue-Green Infrastructure in Indian Smart City Proposals*, Proceedings of 10th International Conference on Urban Climate, 6-10 August 2018 in City University, New York, USA
2. Mukherjee, M., *Blue-Green Network and Urban Infrastructure Development*, in the Thematic Event on Ecosystem-based DRR in the UN Conference AMCDRR 2018, 3-6th July, 2018 at Ulaanbaatar, Mongolia
3. De, B & Mukherjee, M 2017, 'Determining Optimal Orientation for a Residential Neighbourhood in Warm Humid Climate', *Proceedings of International Conference Sustainable Built Environment 2017 in the Department of Architecture and Planning*, IIT Roorkee, 3-5 Feb, 2017, Roorkee, Uttaranchal.
4. Arora, K & Mukherjee, M 2017, 'Analyzing Roof zone Convective Cooling with respect to variation in Openings of Parapet', *Proceedings of International Conference Sustainable Built Environment 2017 in the Department of Architecture and Planning*, IIT Roorkee, 3-5 Feb, 2017, Roorkee, Uttaranchal.
5. De, B & Mukherjee, M 2016, 'Impact of Canyon Design on Thermal Comfort in Warm Humid Cities: A Case of Rajarhat-Newtown, Kolkata, India', *Proceedings of 4th Annual international*

Conference on Countermeasures to Urban Heat Island, National University of Singapore, 30 May- 1 June 2016, Singapore.

6. Mukherjee, M., Roy, U. K., Biswas, A., Arora, K., De, B. and Srivastava, A. (2016) 'Changing paradigms of Affordable Housing in Independent India', in *3rd Residential Building Design & Construction Conference* - March 2-3, 2016 at Penn State, University Park PHRC, pp. 12–28
7. Mukherjee, M 2016, 'Next-gen Urbanization' in the *Bi-Lateral Seminar on Kyoto University Initiative for Strengthening Collaboration between India and Japan*, 14 January 2016, Kyoto, Japan.
8. Mukherjee, M 2015, 'Disaster Risk Reduction and Sustainability' In *4th International Workshop on Sustainable Mountain Development*, 7-9 October 2015, Itanagar, India.
9. Pawar, A. S, Mukherjee, M,& Sahu, S 2015, 'Assessing thermal behaviour of LULC from micro-meteorological measurements'. In the *Proceedings of 3rd Annual International Conference on Advances in Architecture and Civil Engineering*, pp. 562–571. doi:10.5176/2301-394X_ACE15.44
10. De, B & Mukherjee, M 2014, 'Urban Physics for tomorrow's Urban Design', In the *proceedings of 30th International PLEA Conference in CEPT University*, December 2014, Ahmedabad, India.
11. Rajendran, L P, Mukherjee, M & Chani, PS 2013, 'Symbolic Manifestations of Socio-cultural Identity in Vernacular Architecture: A Case Study of Agraharam Housing in Triplicane; South India', In the *proceedings of International Conference on CULTHIST '13, organized by DAKAM (Eastern Mediterranean Academic Research Center) and hosted by MSGSU (Mimar Sinan Fine Arts University)*, 24-25 October 2013, Istanbul, Turkey.
12. Mukherjee, M 2013, 'Urban India: Challenges for green Infrastructure', in the *proceedings of CESB 2013 International Conference on Sustainable Building and Refurbishment for next generations, organized by Czech Technical University in Prague in association with the CIB*, 26-28 June 2013, The Netherlands.
13. Bansal, N, Mukherjee, M&Gairola, A 2013, 'Urban Risk Management', in the *proceedings of International Conference on Challenges in Disaster Mitigation and Management organized by Centre of Excellence in Disaster Mitigation and Management, Indian Institute of Technology Roorkee*, 15-17 February 2013, Roorkee, Uttarakhand.
14. Mukherjee, M 2012, 'Ushering Changes in Indian Cities', In the *International Symposium "Cities under Change" organized by The Centre for Built Environment in Kolkata (Calcutta), India*, 17-19 October 2012, Kolkata, India.
15. Mohan, K, Mukherjee, M Gairola A, & Kwatra, N 2012, 'Assessing the impact of landscape elements in mitigating adverse pedestrian level winds in the vicinity of tall buildings', in the *proceedings of International Conference on Advances in Architecture and Civil Engineering (AARCV 2012) at M S Ramaiah Institute of Technology*, 21-23 June 2012, Bangalore, India.
16. S. Nitya, Mukherjee, M 2012, 'Tensile Fabric Roof Structures', in the *proceedings of International Conference on Advances in Architecture and Civil Engineering (AARCV 2012) at M S Ramaiah Institute of Technology*, 21-23 June 2012, Bangalore, India.

17. Bansal, N, Mukherjee, M & Gairola, A 2012, 'Compact Development as Land Use Planning Tool for Urban Disaster Management', in the *Proceedings of REAL CORP 2012- RE-MIXING THE CITY – Towards Sustainability and Resilience?*, 14-16 May 2012, Tagungsband-Schwechat, Austria, pp. 132-139
18. Mukherjee, M 2011, 'Adaptive Planning Approach for the Caribbean Islands' Habitat' in the *proceedings of International Conference on Responding to Climate Change in the Caribbean in London*, 13 – 14 June 2011, UK.
19. Mukherjee, M 2011, Role of plants in mitigating Adverse wind effects and improving the Air-quality in the vicinity of Tall Buildings: *proceedings of US-India Conference cum workshop on Air-quality and Climate Research*, 14-16 March, 2011, Hyderabad.
20. Mukherjee, M 2010, Advocating Passive Design through Rating Mechanism: *proceedings of International Housing Conference on "Sustainable Housing: Charting New Frontiers"*, Housing Development Board, 26- 29 January, 2010, Singapore.
21. Mukherjee, M 2009, Vegetative roof option for Eco-cities: *proceedings of 10th APSA International Congress 2009, CEPT*, 24-26 November, 2009 Ahmedabad.
22. Mukherjee, M 2009, Climatic Resiliency for Indian Cities: *proceedings of 2nd India Disaster Management Congress, NIDM, Govt of India, Vigyan Bhawan*, 4-6 Nov, 2009, New Delhi.
23. Mukherjee, M 2009, A critical evaluation of green roofs for rating systems, Urban Sustainability and Green Buildings for the 21st century: *proceedings of UK-India Conference*, 15 May 2009, New-Delhi.
24. Mukherjee, M, Mohan K., & Gairola A 2009, Emerging Sustainable Green Technologies for tall buildings, Urban Sustainability and Green Buildings for the 21st century: *proceedings of UK-India Conference*, 15 May 2009, New-Delhi.
25. Mukherjee, M 2008, Housing Research Agenda: Global experience vs. National Action required in India: *proceedings of XXXVI IAHS World Congress on Housing Science*, 3-7 November 2008, Kolkata.
26. Mukherjee, M, John A D & Gairola A 2008, Wind loads on overhangs in Gable-roof: *proceedings of International Conference on Wind and Structures*, June 2008, Korea.
27. Mukherjee, M, Mukherjee, & Snigdha S 2007, Multi-criteria analysis of a building envelope: *proceedings of Third International Ar.Tec. Conference on "The Building Envelope: A complex design"* 2007, Italy.
28. Mukherjee, M 2006, Securing Non-structural Elements: *proceedings of 13th Symposium on Earthquake Engineering (13SEE)*, 18-20 December, 2006, Department of Earthquake Engineering, IIT Roorkee.
29. Mukherjee, M 2006, Daylight transmission through optic fiber cables: *proceedings of 4th Hawaii International Conference on Arts and Humanities*, 11-14 January, 2006, Hawaii International Conferences in Honolulu, Hawaii.

30. Mukherjee, M 2005, Design of Sustainable habitat in a flood-prone zone: *proceedings of MPMD-2005, Monitoring, Prediction and Mitigation of water related disaster*, 12-15th January, 2005, Disaster Prevention Research Institute, Kyoto University, Japan.
31. Mukherjee, M 2004, Urban Safety: for the city dwellers, by the city dwellers in Asian Megacities: *proceedings of New Technologies for Urban Safety of Megacities in Asia*, 18-19 October, 2004, IIT Kanpur and ICUS(Tokyo, Japan), Kanpur.
32. Mukherjee, M 2004, Water, Habitat and Sustainability: *Proceedings of APHW 2004 Conference, AOGS & APHW*, July 2004, Singapore.
33. Mukherjee, M 2003, Impact analysis using information technology for new intervention in existing sustainable settlement: *proceedings of ISEIS'2003 Conference, International Society for Environmental Information Sciences*, September 2003, Regina, Canada.
34. Mukherjee, M 2003, An urban Water project –in hot & arid region of Jaipur, India: *proceedings of APHW 2003 Conference, 3rd Water World Forum, Disaster Prevention Research Institutes (DPRI)*, March 2003, Kyoto University, Japan.
35. Mukherjee, M 2002, Urban employment for rural women- gains & challenges: *proceedings of 8th Women's World Congress*, July 2002, Makerere University, Kampala, Uganda.
36. Mukherjee, M 2002, Women, Habitat & Environment: *proceedings of 8th Women's World Congress*, July 2002, Makerere University, Kampala, Uganda.
37. Mukherjee, M 2002, Road connectivity, Village planning and sustainability: *proceedings of International Workshop on the Pradhan Mantri Gram Sadak Yojana (PMGSY), ORFRTD & IFRTD (UK)*, February 2002, Bhubaneswar, India.
38. Mukherjee, M 2002, Information Technology for Sustainable Habitat: *proceedings of IT Built International Conference – 2002*, January 2002, IIT Kharagpur, India.
39. Mukherjee, M 2001, Other side of the sustainable development: *proceedings of XXIX IAHS World Congress on Housing*, May 2001, International Association for Housing Sciences, Ljubljana, Slovenia.
40. Mukherjee, M 2000, Habitat, Environment and Community in Cities: *proceedings of International Housing Conference 2000 (IHC 2000)*, May 2000, Housing Development Board, Singapore.
41. Mukherjee, M 2000, Housing for sustainable and humane cities – Calcutta Case Study: *proceedings of CITIES 2000*, April 2000, University of Santo Tomas, Manila, Philippines.
42. Mukherjee, M 2000, A model for community services in Housing Complex: *proceedings of XXVIII IAHS World Congress on Housing*, April 2000, International Association for Housing Sciences, Abu Dhabi, UAE.
43. Mukherjee, M 2000, Strategic Leadership in Community Property Management: *proceedings of CIB W70 Brisbane Symposium 2000*, June 2000, Queensland University of Technology, Brisbane, Australia.

44. Mukherjee, M 1999, From dawn to dusk-Transportation of Rural women to and from Calcutta metropolis: *proceedings of International Forum for Rural Transport and Development*, 1999, London, U.K.
45. Mukherjee, M 1997, Construction in India Housing Scenario: *proceedings of International Constructional Management-1996,LCHS*,1997, Lund, Sweden.
46. Mukherjee, M 1996, A survey work in housing Elements: *proceedings of Housing Development and Management*,1996, Centre for Built Environment, Calcutta, pp. 165-171.

PUBLICATIONS (Journals Papers)

1. Mukherjee, M. and Takara, K. (2018) 'Urban green space as a countermeasure to increasing urban risk and the UGS-3CC resilience framework', *International Journal of Disaster Risk Reduction*, Volume 28, June 2018, Pages 854-861
2. De, B. and Mukherjee, M. (2018) 'Optimisation of canyon orientation and aspect ratio in warm-humid climate: Case of Rajarhat Newtown, India', *Urban Climate*. Elsevier, Vol. 24, pp. 887-920, 2018
3. De, B. and Mukherjee, M. (2017) 'Optimizing Street Canyon Orientation for Rajarhat Newtown, Kolkata, India', *Environmental and Climate Technologies*, 21(1), pp. 5–17. doi: 10.1515/rtuect-2017-0012, ISSN-2255-8837
4. Memari, A, Solnosky, R & Mukherjee, M 2015, 'Comparative Study of Various Wall Systems' Performance Attributes in Different Environmental Conditions', *International Journal of Architecture, Engineering and Construction*, vol. 4, no. 2, pp. 64-79.
5. Pawar, A. S, Mukherjee, M, & Shankar, R 2015, 'Thermal Comfort Design Zone Delineation for India Using GIS', *Building and Environment*, vol. 87, pp. 193-206.
6. Mukherjee, M 2014, 'Eco-Environmental Factors in Green Roof Application in Indian Cities', *Journal of The Institute of Engineers(India): Series A*, Springer Publication, vol. 95, issue 3, pp. 137-142
7. Khwairakpam, D, Shankar,R & Mukherjee, M 2014, 'Evaluation of Urban Renewal Projects under Jnnurm-Case Study Surat City', *International Journal of Current Research*, vol. 6, issue 06, pp. 7242-7246
8. Mukherjee, M, Sahu, S & Pawar, A 2014, 'Urban Heat Island Investigation- Techniques and methods so far', *Architecture – Time Space & People*, vol. 14, issue 3, pp. 16-22
9. Khwairakpam, D, Shankar,R & Mukherjee, M 2014, 'Rural Infrastructure Development through Community based Social Organization: Case Study-AwangSekmai village in Manipur', *Journal of North East India Studies*, vol. 4, no. 1
10. De, B & Mukherjee, M 2014, 'Strategies and Challenges for Energy Efficient Retrofitting: Study of Empire State Building', *Journal of The Institute of Engineers(India): Series A*, Springer Publication, vol. 94, issue 4, pp. 251-256
11. Khwairakpam, D, Shankar, R & Mukherjee, M 2013, 'Municipal Solid Waste Scenario in Urban Areas: Case Study of Imphal, Manipur', *Research Journal of MDKG, TJ-MDGL*, vol. 2, no. 2, pp. 1-12
12. Bantanur, S, Mukherjee, M & Shankar, R 2012, 'Sustainability practices in Institutions of Higher Educational Campuses in India', *Kashi Journal of Social Sciences*, vol.2, pp. 254-260

13. Mohan, K, Flay, R, Gairola, A, Mukherjee, M & Kwatra, N 2012, 'Role of landscape elements in ameliorating adverse pedestrian level winds in the vicinity of tall buildings', *Bonfiring International Journal of Industrial Engineering and Management Sciences*, vol. 2, no. 4, pp. 41-50
14. Bansal, N, Mukherjee, M & Gairola, A 2012, 'Cities at growing risks', *The Journal of the Indian Institute of Architects*, vol. 77, issue 10, pp. 21-22
15. Mukherjee, M 2012, 'Architecture is a 24X7 learning process', Special issue on All about Architecture Education in India, *Architecture – Time Space & People, Premier Annual Edition*, pp. 49
16. Bansal, N, Mukherjee, M & Gairola, A 2012, 'Urban Risk Reduction – basics of Sustainability', *Abacus*, vol. 7, no. 1, pp. 38-45
17. Bantanur, S, Mukherjee, M & Shankar, R 2012, 'Ushering in an Era of Campus Sustainability- helping reducing the carbon footprint literally', *The Journal of the Indian Institute of Architects*, vol. 77, issue 9, pp. 24-28
18. Mukherjee, M & Singh, V 2012, 'Energy Efficient Lighting in Shopping Malls', *Architecture – Time Space & People*, vol. 12, issue 9, pp. 32-37
19. Mukherjee, M 2012, 'Emergent Sustainable Site Management- Lean Construction', *Indian Building Congress, on "Pre-Engineered Buildings & Innovative Techniques in Construction Industry"*, vol. XIX, no. 1, pp. 157-162
20. Mukherjee, M & De, B 2012, 'One more Chance on Energy Efficient Retrofit', *Architecture – Time Space & People*, vol. 12, issue 5, pp. 39-43
21. Mohan, K, Gairola, A, Mukherjee, M & Kwatra, N 2011, 'Metamorphosis of tall Buildings in India: A Wind Engineering perspective', *Abacus*, vol. 6, no. 1, pp. 33-40
22. Mukherjee, M & Mukherjee, S 2011, 'Library Design at Crossroad: obsolescence or a phoenix', *Architecture – Time Space & People*, vol. 11, issue 9, pp. 36-42
23. Mukherjee, M & Baburaj, A 2011, 'Next Gen Learning Environments', *Architecture – Time Space & People*, vol. 11, issue 9, pp. 16-23
24. Mohan, K, Flay, R, Gairola, A & Mukherjee, M, 2010, 'Mitigating adverse pedestrian level winds in the vicinity of tall buildings', *Abacus*, vol. 5, no. 2, pp. 60-70
25. Kumar, V & Mukherjee, M 2009, 'Scope of Building Information Modeling (BIM) in India', *Journal of Engineering Science and Technology Review*, vol. 2, issue 1, pp. 165-169
26. John, A.D., Gairola, A & Mukherjee, M 2009, 'Effect of boundary wall on low-rise buildings', *Journal of Wind and Engineering*, vol. 6(1), pp. 10-18
27. Singh, A, Mukherjee, M, & Shankar, R 2009, 'A rational for incorporating green roof in GRIHA rating', *Architecture- Time, Space & People*, vol. 9, issue 6, pp. 30-33
28. Mathew, P, Mukherjee, M, & Gupta, V 2009, 'The performance of Intelligent Buildings in India', *Journal of Institute of Engineers (India)*, vol. 90, pp. 26-30
29. Mukherjee, M & Sanyal, S 2007, 'Envelope of a building', *Architecture- Time, Space & People*, vol. 7, issue 11, pp. 18-24
30. Mukherjee, M 2007, 'Vernacular Tourist village at Toupheema, Nagaland', *Journal of Institute of Engineers (India), Architectural Engineering Division*, vol. 88, pp. 18-22
31. Mukherjee, M 2007, 'Self Help Reconstruction after earthquake and its different stages', *The Journal of the Indian Institute of Architects*, vol. 72, issue 3, pp. 30-32

32. Mukherjee, M 2006, 'Consequence of Earthquake Damage on Non-structural Elements- an overview', *Journal of Institute of Engineers (India), Civil Engineering Division*, vol. 87, pp.15-20
33. Mukherjee, M 2006, 'Illuminating Architectural Space with Fibre optics', *Journal of Institute of Engineers (India)*, vol. 87, pp. 20-23
34. Mukherjee, M 2006, 'Industrial campus- Utkal Asbestos Limited, West Bengal', *Architecture + Design*, vol. XXIII, no. 7, pp. 130-131
35. Mukherjee, M, Poptani, K & Shankar R 2005, 'Participatory models in urban development', *Institute of Town Planners' India Journal*, vol. 2, no. 3, pp. 58-63
36. Mukherjee, M 2005, 'The SusTLE- a sustainable approach to enhance the contributions of disaster mitigation in settlement development', *International Journal of Emergency Management*, vol. 2, no. 3, pp. 163-175
37. Mukherjee, M 2003, 'Impact Analysis Using Information Technology for New Intervention in Existing Sustainable Habitat', *International Society for Environmental Information Sciences, Environmental Informatics Archives, ISEIS Publication Series Number P002*, pp. 53-69
38. Mukherjee, M 1992, 'Thermal Comfort in Building Design', *The Journal for the Association of Engineers, INDIA*, vol. 67, pp. 13-16

PUBLICATIONS (Chapter in Books)

1. *Urban Employment for Rural Women - Gains and Challenges*, Unpacking Globalization: Markets, Gender and Work, Linda Lucas (ed), Department of Women's and Gender Studies, Makerere University, Uganda, 2005, pg 173-178.
2. *Habitat and Environment*, Issues in Sustainable Development, R. Khasnabis (ed), Department of Business Management, Calcutta University, Calcutta, 2003, pg181-188
3. *From dawn to dusk-Transportation of Rural women to and from the metropolis – Calcutta, India*, Balancing the Load- Women, Gender and Transportation, P. Fernando & G. Porter (ed), International Forum for Rural Transport and Development, published by Zed Books, London, U.K. 2002, pg 225-234

EDITING

1. *Disaster Mitigation in Housing in India*, Pre-Conference Proceeding Publication, Editor, Vol. I & II, The Centre of Disaster Mitigation and Management, 2010
2. *Lecture Notes for Training of Practicing Architects in earthquake Risk management*, Ed. Board: Shankar R., Mukherjee M., Chani P. S. and Gupta I., Department of Architecture & Planning, IIT Roorkee, Project No. MOH-154/APD/413, 2007

PUBLICATIONS (Miscellaneous)

Mukherjee, M 2017, 'Knowing your client: Residents of Rental Housing', Nirmaan Sarika, October 2017, BMTPC, MoHUA

Mukherjee, M 2016, Housing for Aspirant Future India: *to mark the occasion of the World Habitat Day on 'Housing At the Centre'*, Nirmaan Sarika, October 2016, BMTPC, MoHUPA

Mukherjee, M 2012, Seismic Safety of Non-structural Elements: *for Course Manual of SAARC Training Programme on 'Techniques for Earthquake Resistant Structures for Engineers and*

Architects', organised jointly by SAARC Disaster Management Centre, New Delhi and Centre of Excellence for Disaster Mitigation and Management, IIT Roorkee; June 18-29, 2012

MEMBERSHIP OF PROFESSIONAL BODIES

- Council of Architecture India (CA/90/13407)
- International Council for Research and Innovation in Building and Construction (CIB), Netherlands (past member)
- The Association of Engineers (A/251)
- Centre for Built-Environment, India
- Fulbright Alumni Association
- ISET, IIT Roorkee

PROFESSIONAL ENGAGEMENTS

- National Committee member for developing course material for earthquake resilient design studio for NDMA, 2018
- Member, Research Committee, Department of Architecture, School of Planning and Architecture, New Delhi, 2018-20
- Member, BoS, Department of Architecture, Central University of Rajasthan, 2017-19
- Coordinating National Student Design Competition as part of Housing for All, 2017
- Member, UGC Visit to Symbiosis International and DY Patil Institute as AICTE nominee, 2017
- IIT Roorkee Advisory Consultancy to MDDA for Smart City Dehradun, 2017
- Member, BoS, Department of Architecture and Planning, Maharaja Ranjit Singh Punjab Technical University, Bathinda, 2016-18
- Faculty Selection Committee, NIT Patna, February 2016
- Ph.D. Thesis Review for candidates from IIT & NITs in 2015 (One) and 2018 (Two)
- Member, Board of Studies, Department of Building Engineering and Management, School of Planning and Architecture, New Delhi, 2014-16
- Expert Committee member for designing Course curriculum of B.Arch course for Indira Gandhi Delhi Technical University for Women, New Delhi, October, 2014
- Panel Expert for B. Arch Program course at NIT Patna on 20- 21 July 2013
- Project Monitoring Member for the Consortium on Center for Building Energy Efficiency Research & Development (CBERD) Project under Joint Clean Research and Development Center (JCERDC), Indo-US S&T Forum, 2013-2018

INSTITUTE RESPONSIBILITIES

- Head, CoEDMM, IIT Roorkee
- Coordinator- Housing for All Mission in IIT Roorkee 2016-19
- ICC Committee Member 2014-17
- Institute Architect 2012 -2014
- Member of Faculty Board of Center of Excellence in Disaster Mitigation and Management, IIT Roorkee since 2008
- Chief Advisor to Himalayan Explorers' Club, IIT Roorkee, during January 2012- March, 2013 and Staff adviser to HEC since 2006-2011

- Member of Library Advisory Committee of IIT Roorkee during 2006-2013
- Member of Working group on Intellectual Property Rights (IPR) Cell for IIT Roorkee 2004-2014
- Member of Executive Committee of Staff Club, IIT Roorkee for 2009-11
- Member of the Sports section for the year of 2004-05

MISCELLANEOUS

- *Ex-Research Associate & past Joint Secretary* of Centre for Built Environment (CBE) [a voluntary professional NGO] joined in 1994 and carried out researches on transport, human habitat, gender etc, organized and took part in several International and national
- Avid traveler to different corners of India, especially in Himalayas and in Sunderban and abroad
- Interested in Films, Photography and Books

U.G. THESIS GUIDANCE

1. International centre for music, Tiruvananthapuram, Kerala, **Deovrat Dwivedi**, B.Arch. 2017-18
2. Trauma centre and Super Specialty hospital, Lucknow, **Shreshth Jaiswal**, B.Arch. 2017-18
3. Global IT Park, Neemrana, **Divyae Mittal**, B.Arch. 2016-2017
4. International Convention cum Exhibition Centre, Dwarka, New Delhi, **Niketa**, 2016-2017
5. Science City, Allahabad, Uttar Pradesh, **Vishal Kesarwani**, B.Arch. 2015-2016
6. Maritime Museum, Mumbai, **Rajat Ashok Parmar**, B. Arch. 2015-2016
7. The Nest: Luxury Retirement Homes, Bhopal, **Nishi Jain**, B. Arch. 2015-2016
8. Fortis Jindal Hospital, Raigarh, Chhattisgarh, **Chainika Das**, B. Arch. 2014-15.
9. Indian Institute of Information Technology, Design & Manufacturing, Jabalpur, **Harshil Mehta**, B. Arch. 2014-15.
10. Mixed Use Development, UlweNmsej, **Rohan Goyal**, B. Arch. 2014-15.
11. Indian Institute of Management Ranchi, Ranchi, Jharkhand, **Srishti Shubh**, B. Arch. 2014-15.
12. Centre for Indian Music Experience, Bangalore, **G. Anirudh**, B. Arch. 2013-14
13. Minto Hall Campus Re-development Bhopal, **Rahul Ranjan**, B. Arch. 2013-14
14. Integrated Commuter Terminal at Secunderabad Railway Station Hyderabad, **Kasoju Karthik**, B. Arch. 2013-14
15. National Institute of Fashion Technology, Raebareli (U.P.), **Aditi Garg**, B. Arch. 2012-13
16. Center for Tribal Study and Research, Nagpur, **Deepak Parashar**, B. Arch. 2012-13
17. 5 Star Hotel, Gurgaon, **Nishchal Agarwal**, B. Arch. 2012-13
18. The Grand Hotel, Chandigarh, **Gagandeep Sandhu**, B. Arch. 2012-13
19. Rejuvenation of Dhanushkodi, Dhanushkodi Town, Rameswaram Island, **Paras Pathak**, B. Arch. 2012-13
20. Doon Medical College, Dehradun, **Kshitiz Agarwal**, B. Arch. 2011-12
21. International Convention Centre Thiruvananthapuram, Kerala, **Sreekanth P. S.**, 2011-12
22. 5 Star Hotel, Jaipur, **Krati Agrawal**, B. Arch. 2011-12
23. Oceanarium, Kochi, **R. S. Jayakrishnan**, B. Arch. 2011-12
24. Kolkata Museum of Modern Art, **Ankit Singh**, B. Arch. 2010-11
25. Habitat Center, Panchkula, **Gaurav Mangla**, B. Arch. 2010-11
26. Finance District, Gurgaon, **Praveen Kumar**, B. Arch. 2009-10
27. Hilton Hotel @ DLF Cyber City, Hyderabad, **Ali Asgar Kanchwala**, B. Arch. 2009-10
28. Nirvama IT Building, Gurgaon, **Vikash Kumar**, B. Arch. 2008-09
29. D. B. Centre, Mumbai, **Abhishek Sinha**, B. Arch. 2008-09
30. Reliance Mall, Indore, **Vaibhav Goyal**, B. Arch. 2008-09
31. Integrated School for Disabled Children, Sector-40, Noida, **Rahul Bansal**, B. Arch. 2007-08.
32. City Mall at Dhanbad, **Kritiman Keshri**, B.Arch. 2007-08

33. Socio-Culture Centre Dwarka, Delhi, **Vinit Kumar Jain**, B.Arch.2007-08
34. Sports Pavilion cum Commercial Complex in Kolkata, **Rajeev Ranjan**, B.Arch. 2006-07
35. Escalina - The rushing eminence (A Five Star Hotel), **Shalien Kishore**, B.Arch. 2006-07.
36. The Eco Resort, Kashid, **Ankur Anil**, B.Arch. 2006-07.
37. Group Housing, Greater Noida, **Charu Vashishtha**, B. Arch. 2005-06.
38. University of Kota, Learn Inspire Change, **Gaurav Singh**, B.Arch.2005-06.
39. College for Engineering Sciences & Technology, Lucknow, **Abhishek Sharma**, B.Arch 2005-06
40. Model Destined for a New Future...Inhabited Bridge on D-N-D Expressway, Noida, **Vaibhav Jain**, B.Arch,2004-05
41. Teaching Hospital at IFTM, **Divyangshu Sharma**, B.Arch., 2004-05
42. Australian High Commission in New Delhi, India, **A.R.Abhay Kumar**, B.Arch.2004-05.
43. Bio-diversified Software Technology Park, Combatore, **Ajeet Kumar Gupta**, B. Arch. 2004-05
44. National School of Drama, **Awanish Rathore** , B.Arch,2003-04.
45. The Vedic Village Reincarnate: Spa Resort Shikharpur, Greater Kolkata, **Asim Kumar**, B.Arch,2003-04
46. Agastya International School...Transforming potential into reality, **Neeraj Kumar**, 2003-04

P.G. DISSERTATION GUIDANCE

1. Green interventions to mitigate the effect of Urban heat Island, **Jagrati Sehgal**, M.Tech., 2018
2. Strategic management of water in urban India, **Khadse Aishwarya Prashant Vaishali**, M.Arch., 2018
3. Integrating Green Infrastructure into Urban Development for Resilience, **Bhavana Garg**, M.Tech, 2017
4. Standardization Techniques in Bamboo based Construction, **Vandana Jaiswal**, M.Arch, 2017
5. Effect of Vegetation on Microclimate of Residential Blocks, **Sana Javaid**, M. Arch., May 2016
6. Affordable Housing: Synergies Between Affordability and Resource Conservation, **Anukrati Srivastava**, M. Arch., May 2016
7. Climate Aspects of Heatwave: Heatwave Risk Assessment and Abatement, **Vandana Singh**, M. Tech., May 2016
8. Elderly Friendly Neighborhood Design, Kochi, Kerala, **Hudha Abdul Salam**, M. Arch., 2015
9. Green Learning Spaces in Institutional Campuses, **Venus Kashyap**, M. Arch., May 2015
10. Social-Interactive Spaces in Campus Accommodation; **Alka Kumari**, M. Arch., June 2014
11. Sustainable Campus Mobility Through Transportation Demand Management; **Dibin Rasool K. S.**, M. Arch., June 2014
12. Influence of Landscape in Outdoor Thermal Comfort; **Shatabdi Mahanta**, M. Arch., 2014
13. Impact of Surface Transformation on Microclimate: A GIS Based Approach; **Robin Agarwal**, M. Tech., June 2014
14. Study of Urban Heat Island in A Campus; **Sonam Sahu**, M. Tech.,June 2014
15. Multi-hazard Vulnerability of Vernacular Buildings in Bihar; **Satyanshu Kumar**, M. Tech.,2014
16. Redevelopment of SurajKund Sports Market, Meerut; **Shashank Dikshit**, M. Arch., 2013
17. Strategic Development of Energy Efficient and Comfortable Envelopes for Sustainable Campus Buildings; **Sheikh Zuhaib**, M.Arch., 2013
18. Energy Efficient Retrofit Options for Institutional Buildings in India, **Bhaskar De**, Arch., 2012
19. Design Criteria for Energy Efficient Shopping Mall in India, **Vandana Singh**, M.Arch., 2012
20. Design Guidelines for Modern Library Building, **Sreenita Mukherjee**, M. Arch., June 2011
21. Design Criteria for Learning Spaces in Technical Institutions, **Aiswarya Shylaja Baburaj**, M. Arch., June 2011

22. Revitalization of Fort Area in Tripunithura, Kerala, **Deepthi Kuriachan**, M. Arch. June 2010
23. Tensile Fabric Roof Structures-An-Architectural Approach, **S. Nithya**, M. Arch., June, 2010
24. Optimal Location of Service Cores in Medium Rise Buildings, **Atul Tegar**, M. Tech., 2010
25. Architectural and Structural Analysis of Green Roofs, **Nidhi Aggarwal**, M. Tech., June 2010
26. Design Guidelines for Green Roof Systems for Composite Climate in India, **Arpita Singh**, M. Arch., June 2009
27. Reviewing the scope of the Building Information Modelling (BIM) for Indian scenario, **Vinoth J. Kumar**, 2009
28. Analysis of Services in High rise Building, **Aaditya Sanyal**, M.Tech, 2009
29. Performance Analysis of Intelligent Buildings, **Praveen Mathew**, M.Tech, 2008
30. Design Guidelines for Sustainable Water Management in Housing, **Farheen Bano**, Arch. 2008.
31. Assessment of structural stability of Historical masonry Structures, **A. Eswaran**, Tech, 2007
32. Relevance of Traditional Architecture in the Modern Context, **Lakshmi Priya R**, M. Arch., 2007
33. Embodied Energy Audit: A Tool for Sustainable Construction, **Rashmi S. Tijare**, M.Arch. 2007
34. People's Participation in Urban Development, Case Study: Traffic Management at Daryaganj, Delhi, **Kavita Poptani**, MURP, June, 2005.

PhD GUIDANCE

Completed:

1. Effects of Architectural features on Wind Load in Buildings, **Alok David John**, 2009
2. Study of Pedestrian Level Wind Environment in the vicinity of tall buildings, **K. Mohan**, 2012
3. Sustainability Assessment of Higher Educational Residential Campuses, **Shaila Bantanur**, 2014
4. Multi Hazard Urban Risk Management, **Neha Bansal**, 2015
5. Evaluation of Urban Renewal Projects under JnNURM for Sustainable Urban Development in India, **Doreshor Khwairakpam**, 2015
6. Climatography Model for Sustainable Urban Built Environment, **Pawar Aniruddha Subarao**, 2017
7. Optimization of Orientation and Canyon Aspect Ratio for a City in Warm Humid City, **Bhaskar De**, 2018

Ongoing:

8. Enhancing ventilation through Lattice Architecture, **Kapil Arora** (Ongoing)
9. Inclusion of Third Age in Urban Space through Virtual and Physical Wayfinding, **Saptarshi Kolay** (Part-time, Ongoing)
10. Daylighting Standards, **Ankit Bhalla** (Part-time, Ongoing)
11. Impact Analysis of Bluespace on Urban Heat Island, **Aditya Rahul** (Ongoing)
12. Sustainable Urban water management in Hill Towns- a case of Dharamshala, Himachal Pradesh, **Sandeep Sharma** (QIP, Ongoing)
13. Urban Flood Resilience: a case study of Gurugram, **Jeevan Madapala** (Ongoing)
14. Implication of Heatwaves on Urban Heat Island and Microclimate, **Siva Ram Edupuganti** (Ongoing)
15. Urban Resilience to Floods, **Vickyson Naorem** (Ongoing)
16. Planning strategies for blue-green infrastructure, **Arjun Satheesh** (Ongoing)

17. Dynamics of Groundwater and Urban Landuse, **Vivekanand Tewari** (QIP, Ongoing)
18. UHI characterization with relation to Urban canopy parameters and energy balance, **Atul Mandal** (Ongoing)

INSTITUTES VISITED

In India:

2019	January	MEASI, Chennai
2018	September August	School of Architecture, SPA Delhi NIDM, Delhi
2017	April August September	Symbiosis International University, Pune D Y Patil University, Navi Mumbai Kamla Raheja VIA, Mumbai School of Planning Delhi
2016	Feb March August September November December	IIT Delhi, NIT Patna, IIIT Hyderabad SPA New Delhi Bhagalpur College of Engineering CEPT Ahmedabad SRM College, Muzzafarnagar, UP IWSA, Navi Mumbai
2015	July June May February	IEST, Shibpur IIT Kanpur IIT Bombay, Mumbai DCRUST, Murthal, Haryana BSDMA, Patna VNIT Nagpur
2014	December October September August July, May February	SPA New Delhi Indira Gandhi Delhi Technical University for Women, New Delhi CEPT- Ahmedabad Gitam University, Vishakhapatnam NIT Patna DCRUST, Murthal, Haryana
2013	July	NIT Patna
2012	July	IIT Kanpur
2011	November October July	Shivalik Engineering School Shriram College of Architecture, Muzaffarnagar IIT Kanpur
2010	December July January	IIT Gandhinagar , Ahmedabad IIT Kanpur Department of Architecture, Andhra University, Vishakapatnam
2009	July	IIT Kanpur

June	Ayojan School of Architecture, Jaipur
May	GianiZail Singh College of Engineering & Technology, Bathinda, Punjab
2006 & 2007	School of Architecture& Landscape, SMVDU, Kakrial, J&K

Abroad:

2018	Nov-Dec	Tohoku University, Japan
	October	Beijing Normal University, China
	August	City College, USA
		Penn State University, USA
		Illinois Institute of Technology, USA
	March	Kyoto University, Japan
2017	June	Seville, Spain
2016	Jan, April-June	Kyoto University, Japan
	April, June	Tokyo University, UN University Tokyo
2013	June	Czech Technical University, Prague
2011	June	University College of London, UK
2010	January	National University of Singapore, Singapore
	June	University of the Witwatersrand, Johannesburg, South Africa
2008	Jan-May	Penn State University, USA (As Fulbright Fellow)
2007	Feb-March	San Jose, Costa Rica

COUNTRIES VISITED

Bangladesh, China, Costa Rica, Czech Republic, Denmark, France, Japan, Mongolia, South Africa, Singapore, Spain, Sri Lanka, Switzerland, Sweden, Thailand, Uganda, United Kingdom, United States of America

DECLARATION

I hereby declare that information provided in this resume is true to the best of my knowledge.

Mahua Mukherjee