

## 4<sup>th</sup> World Congress on Disaster Management – Program Agenda

**January 29, 2019**

**Time: 10:30 – 12:30**

**Inauguration of Exhibition Hall by Hon'ble Chief Minister of Maharashtra, Shri Devendra Fadnavis**

**Inaugural Session (Venue: Convocation Hall)**

**January 29, 2019**

**Time: 14:00 – 15:15**

### **Plenary Session 1**

#### **Researching Disasters: Themes & Perspectives**

Venue: Convocation Hall

*Session Chair:*

Dr. V. Thiruppugazh, Advisor, National Disaster Management Authority, India

*Session Co-Chair:*

Prof. Janki Andharia, Tata Institute of Social Sciences, Mumbai, India

*Keynote Speakers:*

Prof. Dorothy Hilhorst, ISS Hague, Netherlands

Prof. Edmund Penning-Rowsell, Middlesex University, UK

Ms. Irina Rafliana, Executive Secretary, International Centre for Interdisciplinary and Advance Research, Indonesia

**January 29, 2019**

**Time: 15:30 – 16:45**

**Special Feature Event (SFE-1)**

Mayors Panel – Emerging challenges for cities in context of disaster management and measures initiated by my city

29/1/19

15:30-16:45

VMCC  
Prof. B. Nag Auditorium

**Special Thematic Session (STS-1)**

**Next Leap to Resilience: Incubation and Innovation**

Venue: VMCC Prof. B. Nag Auditorium

*Session Chair:*

Lt. Gen N.C. Marwah, NDMA

*Session Co-chairs:*

Mr. Animesh Kumar, UNISDR

Mr. Mihir Bhatt, AIDMI

Nick Hall, Consultant, UK

*Panelists:*

Sekhar L. Kuriakose, KSDMA

Saleha Khan, Youth Champion from Mumbai

Anshu Sharma, SEEDS

Bijoy Patro, One World

Prema Gopalan, SSP-Pune

Seema Arora, CII

Ray Kancharla, Save the Children

Parallel Thematic Sessions (TS-1)								
Sr.	Session	Theme of the Session	Date	Time	Abstract No.	Total	Venue	Chair
1	1.01	Risk & Resilience: Concepts, Ideas, Tools	29-01-2019	15:30–16:45	39, 160, 223, 319, 378, 476	6	VMCC Room No. 3	Prof. Jacquleen Joseph
2	1.02	Researching Disasters: Concepts & Applications	29-01-2019	15:30–16:45	40, 74, 130, 136, 258, 415	6	VMCC Room No. 4	Dr. Chandrika Parmar
3	1.03	Disaster Risk Reduction and Sustainable Development	29-01-2019	15:30–16:45	82, 182, 193, 294, 311, 387	6	VMCC Room No. 5	Dr. Janvi Gandhi Kanakia
4	1.04	Resilience & Disaster Risk Management	29-01-2019	15:30–16:45	37, 38, 92, 199, 205	5	VMCC Room No. 11	Ms. Anu Puri
5	2.01	Coastal Risks and Resilience	29-01-2019	15:30–16:45	11, 52, 87, 106, 108, 275	6	VMCC Room No. 12	Lt. Gen. VP Singh
6	5.01	Cyclone Risk Management	29-01-2019	15:30–16:45	35, 53, 105, 248, 447	5	VMCC Room No. 13	Mr. KS Hosalikar
7	7.01	Human Induced Hazards – CBRN Hazards	29-01-2019	15:30–16:45	22, 175, 191, 226, 271	5	VMCC Room No. 14	Dr. V. Thiruppugazh
8	7.02	Fire Risk Management	29-01-2019	15:30–16:45	71, 174, 263, 281, 312, 334	6	VMCC Room No. 15	Dr. Mohammad Irshad
9	9.01	Flood Risk Management – 1	29-01-2019	15:30–16:45	277, 351, 352, 369, 442, 464	6	VMCC Lecture Hall No. 31	Prof. TI Eldho
10	9.02	Flood Risk Management – 2	29-01-2019	15:30–16:45	15, 34, 97, 114, 194, 279	6	VMCC Lecture Hall No. 32	Prof. NC Narayanan
11	9.03	Hydro-Meteorological & Other Disaster Risks	29-01-2019	15:30–16:45	157, 251, 257, 345, 358, 376	6	VMCC Lecture Hall No. 33	Ms. Irina Rafliana

**January 29, 2019**

**Time: 18:30 – 20:00**

## **Cultural Programme**

**January 29, 2019**

**Time: 20:00 – 21:30**

## **Welcome Dinner Hosted by Hon'ble Mayor of Mumbai, Shri Vishwanath Pandurang Mahadeshwar**

**January 30, 2019**

**Time: 09:30 – 10:45**

## **Plenary Session 2**

### **Strengthening governance for effective disaster risk management**

Venue: Convocation Hall

*Session Chair:*

Lt. Gen. N.C. Marwah, Member, National Disaster Management Authority, India

*Session Co-Chair:*

Prof. Amita Singh, Jawaharlal Nehru University, India

*Keynote Speakers:*

Mr. Animesh Kumar, Deputy Head, UNISDR Asia-Pacific, Bangkok, Thailand

Dr. Nivedita P. Haran, Jawaharlal Nehru University, India

Dr. K Satyagopal, Additional Chief Secretary & Commissioner of Revenue Administration, Government of Tamil Nadu, India

**January 30, 2019**

**Time: 11:15 – 12:30**

**Plenary Session 3**

**Leaving No One Behind: Inclusive Disaster Management**

Venue: Convocation Hall

*Session Chair:*

Mr. Hans Guttman Executive Director, Asian Disaster Preparedness Centre, Thailand

*Session Co-Chair:*

Dr. P.G. Dhar Chakrabarti, Advisor, Disaster Management, Initiatives and Convergence Society, Hyderabad, India

*Keynote Speakers:*

Dr. Nagesh Kumar, Head of Office, South and South-West Asia, UNESCAP South and South-West Asia, New Delhi, India

Mr. Mihir Bhatt, President, All India Institute of Disaster Management, Ahmedabad, India

Ms. Madhavi Ariyabandu, Former Deputy Chief, UNISDR Asia-Pacific, Bangkok, Thailand

**January 30, 2019**

**Time: 12:30 – 13:00**

**Special Demonstration**

**School mock disaster drill by Kendriya Vidyalaya, IIT Powai**

**January 30, 2019**

**Time: 14:00 – 15:15**

Parallel Thematic Sessions (TS-2)								
Sr.	Session	Theme of the Session	Date	Time	Abstract No.	Total	Venue	Chair
1	2.02	Strengthening Disaster Risk Governance – 1	30-01-2019	14:00-15:15	14, 57, 115, 128, 169, 185	6	VMCC Room No. 1	Prof. Rumki Basu
2	2.03	Financing Disaster Management	30-01-2019	14:00-15:15	141, 243, 393, 481	4	VMCC Room No. 2	Maj General Dr. Naresh Badhani
3	2.04	Remote Sensing and GIS for Disaster Management – 1	30-01-2019	14:00-15:15	111, 219, 353, 402, 493, 506	6	VMCC Room No. 3	Dr. Parvez Hayat
4	3.01	Gender, Age and Disaster Risk – 1	30-01-2019	14:00-15:15	222, 272, 327, 355,441, 456	6	VMCC Room No. 4	Ms. Madhavi Aryabandu
5	3.02	Disability and Disasters	30-01-2019	14:00-15:15	208, 221, 411, 278	4	VMCC Room No. 5	Dr. Madhura Nagchaudhuri
6	3.03	Gender, Age and Disaster Risk – 2	30-01-2019	14:00-15:15	124, 237, 242, 244, 341, 460	6	VMCC Room No. 11	Ms. Malini Shanker
7	4.01	Resilient Health Care System – 1	30-01-2019	14:00-15:15	104, 163, 210, 213, 333, 401	5	VMCC Room No. 12	Dr. Muzaffar Ahmed
8	4.02	Emergency Health Management – 1	30-01-2019	14:00-15:15	28, 63, 64, 364, 477, 127	5	VMCC Room No. 13	Dr. Tamorish Kole
9	4.03	Making Schools Safe in Disasters	30-01-2019	14:00-15:15	23, 30, 183, 292, 502	5	VMCC Room No. 14	Mr. Mahesh Narvekar
10	5.02	Agriculture, Livelihood and Resilience – 1	30-01-2019	14:00-15:15	274, 410, 19, 102	4	VMCC Room No. 15	Prof. T. Jayaraman
11	5.03	Protecting Animals and Fisheries in Disasters	30-01-2019	14:00-15:15	75, 335, 354, 507	4	VMCC Lecture Hall No. 31	Mr. KM Singh
12	5.04	Climate Change and Disasters – 1	30-01-2019	14:00-15:15	161, 207, 236, 307, 330	5	VMCC Lecture Hall No. 32	Col. Sanjay Srivastava
13	7.03	Professionalizing Disaster Response – 1	30-01-2019	14:00-15:15	152, 188, 211, 268, 283,288	6	VMCC	Mr. OP Singh

Parallel Thematic Sessions (TS-2)								
Sr.	Session	Theme of the Session	Date	Time	Abstract No.	Total	Venue	Chair
							Lecture Hall No. 33	

**January 30, 2019**

**Time: 15:30 – 16:45**

#### **Plenary Session 4**

##### **Resilient Health Care & Education Systems**

Venue: Convocation Hall

*Session Chair:*

Dr. Muzaffar Ahmed, Former Member, National Disaster Management Authority, India

*Session Co-Chair:*

Dr. U.K. Mishra, Member, Bihar State Disaster Management Authority, India

Mr. Lars Bernd, Chief, Risk Informed Programming & Emergency Section, UNICEF India, New Delhi, India

*Keynote Speakers:*

Dr. Nilesh Buddh, Manager Health Emergency Preparedness and IHR, World Health Organization, New Delhi, India

Mr. Ray Kancharla, Head DRR – CCA Unit, Save the Children, New Delhi, India

**January 30, 2019**

**Time: 17:15 – 18:30**

**Special Feature Event (SFE-2)**

**Innovators and startups on Disaster Management**

Venue: VMCC Prof. B. Nag Auditorium

*Jury:*

Prof. Milind Atrey, Indian Institute of Technology Bombay, India

Prof. Anand Kusre, Indian Institute of Technology Bombay, India

*Participating innovators/start-ups:*

iKuber Financial Services IMF Private Limited

Resilience Innovation Knowledge Academy

FireTweet Technologies Private Limited

YashRaj Infrastructures Private Limited

ideaForge Technology Private Limited

Appraez

Realty Automation and Security Systems Pvt.Ltd

Technorbital Advanced Materials Pvt Ltd.

Genrich Membranes Private Limited

Combat Robotics India Private Limited

Airotor Innovative Solutions Private Limited

Vedant Innotech Private Limited

AG Innovations

Green Brick Project Private Limited

Janyu Tech

**Special Thematic Session (STS-2)**

**Child-Centered Urban Resilience**

Venue: VMCC Board Room

*Session Chair:*

Nick Hall, Consultant, UK

*Panelists:*



Children and Youth Champions- Saleha Khan, Fareen, Nasreen, Indira Singh, Abrar Farooq, Ansari Asif Farooque, Samrin Shah  
 ManishThakre, Urban Strategy Initiative, SC International  
 Sarbjit Singh Sahota, UNICEF  
 Stan Klinkenberg, Save the Children, Netherlands

**Special Thematic Session (STS-3)**

**Climate Change and Disease Outbreak Probability Tool**

Venue: PC Saxena Auditorium

*Session Chair:*

Dr. Punida Kaliaperumal

*Speakers:*

Rishi Shrivastava, Central Water Commission, India (Causative factors for Kerala floods, 2018)

Ms. Sujata Saunik, Government of Maharashtra, Takemi Fellow in University of Harvard, USA

Dr. Hosalikar, Deputy Director General, India Meteorological Department, Western Zone, India

Mr. Omkar Khare, UNICEF, India

**Thematic Parallel Sessions (TS-3)**

Sr.	Session	Theme of the Session	Date	Time	Abstract No.	Total	Venue	Chair
1	2.05	Strengthening Disaster Risk Governance – 2	30-01-2019	17:15-18:30	233, 259, 262, 298, 521, 189	6	VMCC Room No. 1	Prof. Madhushree Sekhar
2	2.06	Remote Sensing and GIS for Disaster Management – 2	30-01-2019	17:15-18:30	94, 138, 217, 234, 280	5	VMCC Room No. 2	Prof. TV Vijay Kumar
3	2.07	Remote Sensing and GIS for Disaster Management – 3	30-01-2019	17:15-18:30	293, 323, 374, 459, 478	5	VMCC Room No. 3	Mr. Himanshu Shekhar Mishra /Dr. Arun Chatre

4	3.04	Children and Disasters	30-01-2019	17:15-18:30	107, 166, 186, 265, 266, 338	6	VMCC Room No. 4	Mr. Lars Bernd
5	3.05	Conflict, Displacement, Rights and related issues	30-01-2019	17:15-18:30	99, 171, 232, 321	4	VMCC Room No. 5	Prof. Avatthi Ramaiah /Dr. Kailash Gupta
6	4.04	Resilient Health Care System – 2	30-01-2019	17:15-18:30	117, 218, 381, 489, 513, 524	6	VMCC Room No. 11	Dr. Nilesh Buddh
7	5.05	Climate Change and Disasters – 2	30-01-2019	17:15-18:30	93, 95, 339, 409, 438, 482	6	VMCC Room No. 12	Dr. Anil Gupta
8	5.06	Climate Change and Disasters – 3	30-01-2019	17:15-18:30	76, 284, 337, 356, 497	5	VMCC Room No. 13	Dr. Chandan Ghosh
9	7.04	Professionalizing Disaster Response – 2	30-01-2019	17:15-18:30	81, 276, 295, 297, 304, 305,	6	VMCC Room No. 14	Mr. Mahesh Kamble
10	7.05	Professionalizing Disaster Response – 3	30-01-2019	17:15-18:30	159, 176, 291, 511,	4	VMCC Room No. 15	Prof. Manish Kumar
11	7.06	Disaster Recovery and Reconstruction	30-01-2019	17:15-18:30	21, 32, 164, 384, 404, 479	6	VMCC Lecture Hall No. 31	Dr. U K Mishra
12	7.07	Early Warning of Disasters	30-01-2019	17:15-18:30	73, 112, 122, 512, 140	5	VMCC Lecture Hall No. 32	Col. Sanjay Srivastava

**January 31, 2019**

**Time: 09:30 – 10:45**

**Plenary Session 5**

**Resilient Ecology, Agriculture & Livelihood**

Venue: Convocation Hall

*Session Chair:*

Dr. PK Agarwal, Regional Head Climate Change Agriculture and Food Security, CGIAR, New Delhi, India

*Session Co-Chair:*

Prof. T. Jayaraman, Chairperson, Centre for Science, Technology and Society, Tata Institute of Social Sciences, Mumbai, India

*Keynote Speakers:*

Mr. Simon Croxton, Director, Acutora, South Africa

Mr. Aloysius Rego, Former Executive Director, Asian Disaster Preparedness Centre, Thailand

Dr. Giriraj Amarnath, Research Group Leader, Water Risks and Disasters, International Water Management Institute, Sri Lanka

**January 31, 2019**

**Time: 11:15 – 12:30**

**Plenary Session 6**

**Disaster Resilient Infrastructure**

Venue: Convocation Hall

*Session Chair:*

Mr. Kamal Kishore, Member, National Disaster Management Authority, India

*Session Co-Chair:*

Prof. Kapil Gupta, Indian Institute of Technology Bombay, Mumbai, India

*Plenary Speaker:*

Mr. Praveen Pardeshi, Additional Chief Secretary, Government of Maharashtra, India

*Keynote Speaker:*

Prof. Tso-Chien Pan, Executive Director, Institute of Catastrophe Risk Management, Nanyang Technological University, Singapore

**January 31, 2019**

**Time: 14:00 – 15:15**

Special Feature Event (SFE-3)
<p><b>Innovative Technologies for Disaster Management</b></p> <p>Venue: VMCC Prof. B. Nag Auditorium</p> <p><i>Session Chair:</i></p> <p>Prof. Krishna P Kaliappan, Dean of Faculty Affairs, Indian Institute of Technology Bombay, India</p> <p><i>Panelists:</i></p> <p>Role of AI in disaster management: From understanding complex data to mining patterns, <i>Prof. Ajith Abraham, Director - Machine Intelligence Research Labs (MIR Labs), Scientific Network for Innovation and Research Excellence, USA</i></p> <p>Open Source GIS Based Design Support System (DSS) for Natural Disaster Management, <i>Mr. Pratul Srivastava, RMSI, India</i></p> <p>Hyper-resolution modeling and mapping of floods in near real-time, <i>Prof. Venkatesh Merwade, Purdue University, USA</i></p> <p>Cyclone web-based composite risk atlas (Web-CRA): A tool for disaster risk mitigation, <i>Dr. Sushil Gupta, RMSI, India</i></p>

Special Thematic Session (STS-4)			
Building Climate Resilience in Maharashtra	31/1/19	14:00-15:15	PC Saxena Auditorium

Parallel Thematic Sessions (TS-4)								
Sr.	Session	Theme of the Session	Date	Time	Abstract No.	Total	Venue	Chair
1	1.05	Kerala Flood 2018: Causes, Consequences & Response – 1	31-01-2019	14:00-15:15	85, 139, 238, 344	4	VMCC Room No. 1	Ms. Anu Puri
2	2.08	Strengthening Disaster Risk Governance – 3	31-01-2019	14:00-15:15	273, 397, 430, 470, 475, 496	6	VMCC Room No. 2	Mh Karim, Mr. Ray Kancharla
3	3.06	Building Resilience of Communities to Disasters – 1	31-01-2019	14:00-15:15	29, 125, 227, 391, 429, 491	6	VMCC Room No. 3	Mr. Mihir Bhatt

<b>Parallel Thematic Sessions (TS-4)</b>								
<b>Sr.</b>	<b>Session</b>	<b>Theme of the Session</b>	<b>Date</b>	<b>Time</b>	<b>Abstract No.</b>	<b>Total</b>	<b>Venue</b>	<b>Chair</b>
4	5.07	Agriculture, Livelihood and Resilience – 2	31-01-2019	14:00-15:15	299, 332, 343, 385, 516, 494	6	VMCC Room No. 4	Ms. Antonia Loyzaga
5	5.08	Ecology, Environment and Disasters – 1	31-01-2019	14:00-15:15	10, 16, 336, 362, 379, 451	6	VMCC Room No. 5	Dr. Dilip Pathadia
6	6.01	Resilient Infrastructure – 1	31-01-2019	14:00-15:15	26, 239, 252, 261, 315	6	VMCC Room No. 11	Mr. Jeremy Collymore
7	7.08	Professionalizing Disaster Response – 3	31-01-2019	14:00-15:15	46, 367, 503, 520, 504, 425	6	VMCC Room No. 12	Ms. Niti Mishra
8	9.04	Resilient City Planning and Strategies – 1	31-01-2019	14:00-15:15	96, 133, 340, 480, 487, 282	6	VMCC Room No. 13	Dr. Parvez Hayat
9	9.05	Urban Climate Resilience	31-01-2019	14:00-15:15	78, 346, 368, 386, 422, 498	6	VMCC Room No. 14	Prof. TI Eldho
10	9.06	Risks and Resilience of Cities – 1	31-01-2019	14:00-15:15	25, 203, 256, 270, 471, 508	6	VMCC Room No. 15	Prof. T-C Pan
11	9.07	Risks and Resilience of Cities – 2	31-01-2019	14:00-15:15	44, 229, 324, 443, 472	5	VMCC Lecture Hall No. 31	Prof. Swagata Basu
12	9.08	Earthquake Resistant Building Designs & Technology – 1	31-01-2019	14:00-15:15	42, 50, 408, 453, 473	5	VMCC Lecture Hall No. 32	Mr. Atulya Misra
13	9.11	Disaster Resistant Building Materials and Technology – 1	31-01-2019	14:00-15:15	43, 49, 56, 132, 178, 187	6	VMCC Lecture Hall No. 33	Dr. Sunil Choudhary

**January 31, 2019**

**Time: 15:30 – 16:45**

## Plenary Session 7

### Response, Relief, Reconstruction, Recovery & Development

Venue: Convocation Hall

*Session Chair:*

Mr. KM Singh, Former Member, National Disaster Management Authority, India

*Session Co-Chair:*

Air Cmde Nitin Sathe, Senior Instructor, Air Force Defence Services Staff College, Wellington (Nilgiris), Tamil Nadu, India

*Plenary Speaker:*

Dr. Krishna S. Vatsa, United Nations Development Programme, New York, USA

*Keynote Speakers:*

Air Cmde Nitin Sathe, Senior Instructor, Air Force Defence Services Staff College, Wellington (Nilgiris), Tamil Nadu, India

Ms. Antonia Loyzaga, Manila Observatory, Philippines

**January 31, 2019**

**Time: 17:15 – 18:30**

## Special Feature Event (SFE-4)

### Children, Youth, Women and Volunteers In Resilience-building

Venue: VMCC Prof. B. Nag Auditorium

*Session Chair:*

Mr. Nick Hall, Consultant, UK

*Session Co-chair:*

Saleha Khan, Youth Champion, Mumbai

*Presenters and Panelists:*

Children - Youth - Women –Champions and Volunteers: Saleha Khan + 20 Children / Youth from Mumbai

Mr. Lars Bernd / Mr. Sarbjit Singh Sahota, UNICEF, India

Ms. Prema Gopalan, Naseem, SSP, Aaishwarya Nidadavolu, Godavari Dange , Archana Mane  
 Mr. Mihir Bhat, AIDMI, Ahmedabad, India

Parallel Thematic Sessions (TS-5)								
Sr.	Session	Theme of the Session	Date	Time	Abstract No.	Total	Venue	Chair
1	1.06	Kerala Flood 2018: Causes, Consequences & Response – 2	31-01-2019	17:15-18:30	80, 420, 431, 474	4	VMCC Room No. 1	Prof. Janki Andharia
2	2.09	Strengthening Disaster Risk Governance – 4	31-01-2019	17:15-18:30	72, 142, 373, 437, 444, 514	6	VMCC Room No. 2	Dr. Ashok Matani
3	2.10	Emerging Technologies: Drones, UAV, Artificial Intelligence and other systems for DM	31-01-2019	17:15-18:30	91, 317, 318, 328, 461, 462	6	VMCC Room No. 3	Prof. TV Vijay Kumar / Mr. Sanjeev Kumar
4	3.07	Building Resilience of Communities to Disasters – 2	31-01-2019	17:15-18:30	167, 181, 287, 357, 501, 510	6	VMCC Room No. 4	Prof. Jaqueline Joseph
5	4.05	Education, Training & Multi-stakeholder engagement	31-01-2019	17:15-18:30	314, 377, 412, 421, 452, 525	5	VMCC Room No. 5	Mr. Suhas Diwase
6	5.09	Ecology, Environment and Disasters – 2	31-01-2019	17:15-18:30	120, 180, 184, 220, 253, 267	6	VMCC Room No. 11	Mr. Mahesh Kamble
7	5.10	Ecology, Environment and Disasters – 3	31-01-2019	17:15-18:30	119, 240, 395, 396, 434, 517	6	VMCC Room No. 12	Prof. Rajib Shaw
8	6.02	Resilient Infrastructure – 2	31-01-2019	17:15-18:30	33, 249, 254, 300, 301, 347	6	VMCC Room No. 13	Prof. Alok Goyal
9	9.09	Resilient City Planning and Strategies – 2	31-01-2019	17:15-18:30	27, 69, 156, 201, 216	5	VMCC Room No. 14	Prof. Jyoti Parikh
10	9.10	Resilient City Planning and Strategies – 3	31-01-2019	17:15-18:30	204, 349, 361, 366, 484, 519	6	VMCC Room No. 15	Ms. Irina Rafliana

Parallel Thematic Sessions (TS-5)								
Sr.	Session	Theme of the Session	Date	Time	Abstract No.	Total	Venue	Chair
11	9.12	Disaster Resistant Building Materials and Technology – 2	31-01-2019	17:15-18:30	255, 348, 467, 488, 499, 500	6	VMCC Lecture Hall No. 31	Prof. Meera Raghunandan

**February 1, 2019**

**Time: 09:30 – 10:45**

### Plenary Session 8

#### Disaster Resilient Businesses

Venue: Convocation Hall

*Session Chair:*

Mr. Animesh Kumar, Deputy Head, UNISDR Asia-Pacific, Bangkok, Thailand

*Plenary Speaker:*

Mr. Aslam Perwaiz, Deputy Executive Director , Asian Disaster Preparedness Center, Bangkok, Thailand

*Keynote Speakers:*

Mr. Arunaabh Mitra, Chief Continuity Office, HCL Technology Ltd, Noida, India

Mr. N. Bose Babu, Executive Director (Projects and Engineering Services ), Gujarat State Petronet Limited, Gujarat

Mr. Gaurav Arora, Head Underwriting and Claims, ICICI Lombard, Mumbai, India

Brig B.K. Khanna, Senior Consultant, FICCI, India

**February 1, 2019**

**Time: 11:15 – 12:30**

### Plenary Session 9



## Disaster Resilient Cities

Venue: Convocation Hall

*Session Chair:*

Prof. Ravi Sinha, Member, Maharashtra State Disaster Management Authority & Professor, Indian Institute of Technology Bombay, Mumbai, India

*Session Co-Chair:*

Ms. Antonia Loyzaga, Manila Observatory, Philippines

*Keynote Speakers:*

Prof. Rajib Shaw, Chairman, UNISDR Science and Technology Advisory Group & Professor, Keio University, Japan

Prof. Jyoti Parikh, Executive Director, Integrated Research and Action for Development IRADe, India

Mr. Mahesh Narvekar, Director, Disaster Management, Municipal Corporation of Greater Mumbai, India

**February 1, 2019**

**Time: 14:00 – 15:15**

### Special Feature Event (SFE-5)

Media and Disaster Management	01/2/19	14:00-15:15	VMCC Prof. B. Nag Auditorium
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### Special Thematic Session (STS-5)

Resilient Businesses	01/2/19	14:00-15:15	PC Saxena Auditorium
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<b>Parallel Thematic Sessions (TS-6)</b>								
<b>Sr.</b>	<b>Session</b>	<b>Theme of the Session</b>	<b>Date</b>	<b>Time</b>	<b>Abstract No.</b>	<b>Total</b>	<b>Venue</b>	<b>Chair</b>
1	2.11	Earthquake Risk Management	01-02-2019	14:00-15:15	67, 308, 375, 427, 454	5	VMCC Room No. 1	Dr. Pramod Kumar
2	5.11	Drought Risk Management – 1	01-02-2019	14:00-15:15	134, 264, 269, 365, 407, 435	6	VMCC Room No. 2	Dr. Simon Croxton
3	5.12	Drought Risk Management – 2	01-02-2019	14:00-15:15	445, 466, 468, 518	4	VMCC Room No. 3	Mr. Sarbjit Singh Sahota
4	5.13	Landslide Risk Management – 1	01-02-2019	14:00-15:15	54, 83, 202, 214, 247, 250	6	VMCC Room No. 4	Dr. Bijon Kumar Mitra
5	5.14	Landslide Risk Management – 2	01-02-2019	14:00-15:15	310, 313, 440, 522, 523	5	VMCC Room No. 5	Prof. Ambrish Mahajan
6	8.01	Business Practices – BCP & CSR	01-02-2019	14:00-15:15	36, 113, 206, 296, 350	5	VMCC Room No. 11	Mr. Sanjeevan Joshi
7	9.13	Earthquake Resistant Building Designs & Technology – 2	01-02-2019	14:00-15:15	170, 246, 225, 428, 439	5	VMCC Room No. 12	Prof. Rajib Shaw
8	9.14	Managing Risks of Urban Flood	01-02-2019	14:00-15:15	51, 260, 322, 419	4	VMCC Room No. 13	Prof. Kapil Gupta

**February 1, 2019**

**Time: 16:00 – 18:00**

**Concluding Session**

## 4<sup>th</sup> World Congress on Disaster Management – Parallel Thematic Session Details

### **Thematic Session - 1.01: Risk & Resilience: Concepts, Ideas, Tools [29-01-2019; 15:30–16:45]**

**Session Chair: Prof. Jacquleen Joseph (Tata Institute of Social Sciences, India)**

**[VMCC Room No. 3]**

Know Your Risk: Build Your Roadmap to Resiliency [Paper No. 39]

*Ashley Samonisky (Vision Planning and Consulting, LLC), Andrew Estrain (Vision Planning and Consulting, LLC), Michael Scott Phd (Eastern Shore Regional GIS Cooperative (ESRGC)), Zachary Baccala (Exaspatial Risk Management, LLC), Deepa Srinivasan (Vision Planning and Consulting, LLC)*

An Assessment of Social Vulnerability to Disasters: A Comparative Study of Garhwal and Kumaon Divisions in Uttarakhand

[Paper No. 160]

*Desh Deepak Singh (University Of Allahabad)*

Quick and effective solution by using UAV (Drone) in Disaster's [Paper No. 223]

*Dr. Mukta Girdhar (Lemontechnosoft), Ramesh Chandra Padhi*

The interplay of social and economic factors affecting the vulnerability of communities to natural disasters – Case study of Kuttanad district, India [Paper No. 319]

*Souresh Cornet (Amrita Vishwa Vidyapeetham), Renjith Mohan (Amrita Vishwa Vidyapeetham (Amrita University))*

Conceptualising 2R's: Risk and Resilience of Mumbai [Paper No. 378]

*Garima Khera (Tata Institute of Social Sciences)*

Combating Cosmic Disasters : The Future We Want

[Paper No. 476]

*Devashish De (Tata Institute of Social Sciences)*

### **Thematic Session - 1.02: Researching Disasters: Concepts & Applications [29-01-2019; 15:30–16:45]**

**Session Chair: Dr. Chandrika Parmar (SP Jain University, India)**

**[VMCC Room No. 4]**

Always at Odds? - Hazard Mitigation and Historic Preservation [Paper No. 40]

*Ashley Samonisky (Vision Planning and Consulting, LLC), Andrew Estrain (Vision Planning and Consulting, LLC), John Benhart Phd (Indiana University of Pennsylvania), Michael Scott Phd (Eastern Shore Regional GIS Cooperative (ESRGC)), Emily Eig (EHT Tracerics), Stephanie Foell (WSP USA), Deepa Srinivasan (Vision Planning and Consulting, LLC)*

Landslide Investigation Using Electrical Resistivity Tomography: a non-invasive Technique [Paper No. 74]

*Philips Omowumi Falae (CSIR-Central Building Research Institute, Roorkee), Debi Prasanna Kanungo (CSIR-Central Building Research Institute, Roorkee), P.K.S Chauhan (CSIR-Central Building Research Institute, Roorkee), Rajesh Kumar Dash (CSIR-Central Building Research Institute, Roorkee)*

Researching Disaster from a Cultural Perspective: Insights into Disaster Meaning-Making  
[Paper No. 130]

*Sara Talitha Merkes (Disaster Research Unit, Freie Univeristät Berlin)*

Developing a Methodology for Estimation and Mapping of Air Pollution Disaster Risk Based on Social Vulnerability

[Paper No. 136]

*Gouri Nair (Tata Institute of Social Sciences), Mohammed Irshad (Tata Institute of Social Sciences)*

Irrational Cultural Binds in the Wake of Recent Natural Disasters in South India [Paper No. 258]

*Rohith Unnikrishnan (Pondicherry University), Eldhose Varghese (Pondicherry University)*

Significance of Hazard and Vulnerability Attributes for Drought Risk in Meteorological, Governance and Socio-geographical Contexts: Study of Bundelkhand region, Indi

[Paper No. 415]

*Neha Gupta (Institute of Earth Science, Department of Geology, Bundelkhand university, Jhansi), M.M. Singh (Institute of Earth Science, Department of Geology, Bundelkhand university, Jhansi), Anil Kumar Gupta (National Institute of Disaster Management, Division of Environment & Climate Risk Management, New Delhi)*

**Thematic Session - 1.03: Disaster Risk Reduction and Sustainable Development [29-01-2019; 15:30–16:45]**

**Session Chair: Dr. Janvi Gandhi Kanakia (Tata Institute of Social Sciences, India)**

**[VMCC Room No. 5]**

Sustainable Development Goals and Disaster Risk Reduction: Targets and Challenges for India [Paper No. 82]

*Himanshu Shekhar Mishra (New Delhi Television)*

Disaster Risks and Sustainable Development [Paper No. 182]

*Maj Gen Naresh Badhani (DMICS)*

Linking Disaster Risk Reduction with Sustainable Development Goals

[Paper No. 193]

*Prof Mondira Dutta (ICSSR Senior Fellow at the Special Centre for Disaster Research, Jawaharlal Nehru University, New Delhi)*

Mainstreaming of Disaster Risk Reduction in Development Projects in India:Nexus between Policy Proclamation and Implementation [Paper No. 294]

*Akanksha Pandey (JTSDS, Tata Institute of Social Sciences (TISS), Mumbai), Janvi Gandhi Kanakia (JTSDS, Tata Institute of Social Sciences (TISS), Mumbai), Janki Andharia (JTSDS, Tata Institute of Social Sciences (TISS), Mumbai)*

Disasters in Bangladesh: Natural Disasters, Resilience, Vulnerability, Livelihoods & Sustainable Development [Paper No. 311]

*Prof. Dr. Akbaruddin Ahmad (Policy Research Centre.bd, A Civil Society Think Tank), Mr. Touhid Alam (Policy Research Centre.bd, A Civil Society Think Tank)*

Mainstreaming DRR and Sustainable Development in India [Paper No. 387]

*Binod Kumar (Bhim Rao Ambedkar College), Binod Kumar (Bhim Rao Ambedkar College)*

**Thematic Session - 1.04: Resilience & Disaster Risk Management [29-01-2019; 15:30–16:45]**

**Session Chair: Ms. Anu Puri (UNICEF, New Delhi, India)**

**[VMCC Room No. 11]**

Development of a layman's tool for participatory vulnerability assessment using fuzzy logic: A step towards building individual resilience [Paper No. 37]

*Repaul Kanji (Gujarat Institute of Disaster Management), Jeevan Madapala (Indian Institute of Technology Roorkee), Sangeeta P (Indian Institute of Technology Roorkee)*

Modelling the outburst flood from Lhonak Glacial Lake of Sikkim Himalaya for GLOF risk assessment using GIS and HEC-RAS [Paper No. 38]

*Nazimul Islam (University of Leeds)*

Soil Erosion Modelling and its impact on Landslide vulnerability - A Correlation Study On Rampur Tehsil, Himachal Pradesh [Paper No. 92]

*C Prakasam (Chitkara University), Aravinth R (Chitkara University), B Nagarajan (Indian Institute Of Technology, Kanpur)*

Identification of Groundwater Potential Zones using Gis- Drought Mitigation Measure: A Case Study of Gangavalli, Salem District [Paper No. 199]

*Dr.Prakasam C (Chitkara University), Saravanan Ravindran (Chitkara University)*

Landslide hazard zonation using object based image analysis for Chenab valley in Jammu and Kashmir, India [Paper No. 205]

*Abhijit Patil (Department of Geography, Shivaji University Kolhapur), Bidyut Bhadra (RRSC Jodhpur, India), Sachin Panhalkar (RRSC Jodhpur, India)*

**Thematic Session - 1.05: Kerala Flood 2018: Causes, Consequences & Response – 1 [31-01-2019; 14:00-15:15]**

**Session Chair: Ms. Anu Puri (UNICEF, India)**

**[VMCC Room No. 1]**

Disaster within a disaster: Social vulnerability of Adivasis in times of floods [Paper No. 85]

*Ashique Vadakkuveetil (Central University of Tamilnadu), Ashish Kumar (Central University of Tamilnadu), Leo George (Central University of Tamilnadu), Sandip Mondal (Central University of Tamilnadu), Dinabandhu Mahata (Central University of Tamilnadu)*

Hydrological Study of August 2018 Kerala Floods

[Paper No. 139]

*Abby Varghese (Department of Geography, Central University of Tamil Nadu), Meera Nair M.S (Department of geography, University of Madras Department of geography, University of Madras)*

Fishermen: The Biggest Heroes Of Kerala Floods 2018 – A Case Study On Effective Utilization Of Local Resources In Disaster Response [Paper No. 238]

*Prem G Prakash (Tata Institute Of Social Sciences, Mumbai), S Lakshmi (Tata Institute Of Social Sciences, Mumbai), Vishnu Mohan (Tata Institute Of Social Sciences, Mumbai)*

Medical Camps as a relief to disaster: case study from the Kerala Floods, 2018 [Paper No. 344]

*Renjith Mohan (Amrita Vishwavidyapeetham (Amrita University))*

**Thematic Session - 1.06: Kerala Flood 2018: Causes, Consequences & Response – 2 [31-01-2019; 17:15-18:30]**

**Session Chair: Prof. Janki Andharia (Tata Institute of Social Sciences, India)  
[VMCC Room No. 1]**

Role of volunteers In building Disaster Resilience: Learnings from Kerala Floods of August 2018 [Paper No. 80]

*Renu Raj (Indian Administrative Service/ Government )*

Kerala Flood 2018 – Lessons for Mitigation and Management

[Paper No. 420]

*T.I. Eldho (IITB)*

“Virtual Community and Youth Support in Acute Kerala Floods; Distribution of Food Nutrition Health & Wash Materials” – Case Study [Paper No. 431]

*Ashwin Mathew (Department of Social Work, Amrita School of Engineering -Coimbatore, Amrita Vishwa Vidyapeetham, India), Suja Kuttappan (Department of Social Work, Amrita School of Engineering -Coimbatore, Amrita Vishwa Vidyapeetham, India)*

Collaborative Governance for Disaster Management during Kerala Floods 2018: Linking Academic Institutions, Civil Society and Government in Alappuzha, Kerala

[Paper No. 474]

*Narayanan Nc (CTARA, IIT Bombay), Sridhar A (IGNOU (CANALPY Project)), Nithin Benjamin (Kerala Institute of Local Administration), Jibin Louis (Kerala Institute of Local Administration), George Fernandez (CANALPY)*

**Thematic Session - 2.01: Coastal Risks and Resilience [29-01-2019; 15:30–16:45]**

**Session Chair: Lt. Gen VP Singh (Indian Army (Retd.))  
[VMCC Room No. 12]**

Gaps and Challenges of Coastal Risk Governance in India: A Meta-Analysis [Paper No. 11]

*Karumaju L N Sridhar Achari (VNIT), Sameer Deshkar (VNIT), Shruthi Dakey (VNIT), Manish Kulkarni (VNIT)*

Understanding Coastal Erosion and Human Well-Being: A Study of Mousuni Village, West Bengal [Paper No. 52]

*Sharanya Chattopadhyay (Tata Institute of Social Sciences)*

Study the changes in Coastal Regulation Zone rules and spatially analyze the effects on coastal areas with the help of Remote Sensing and GIS: A case study from the East coast of India [Paper No. 87]

*Sindhuja Kasthala (Indian Institute of Technology, Bombay), Inamdar A (Indian Institute of Technology, Bombay), Parthasarathy D (Indian Institute of Technology, Bombay)*

Impact of Coastal Regulation Zone Violation on Coastal Environment

[Paper No. 106]

*Souvik Chatterjee (Jadavpur University), Gupinath Bhandari (Jadavpur University)*

Bangladesh Coastal Zone: A Legal Analysis

[Paper No. 108]

*N. Nabila Hoque (British School of Law)*

Assessing Vulnerability of Coastal Community to Climate Induced Hazards: A Case of Kerala, India

[Paper No. 275]

*Shyni Anilkumar (National Institute of Technology Calicut )*

**Thematic Session - 2.02: Strengthening Disaster Risk Governance – 1 [30-01-2019; 14:00-15:15]**

**Session Chair: Prof. Rumki Basu (Jamia Milia Islamia University, India)**

**[VMCC Room No. 1]**

Vulnerability of The State of Mizoram, India to various natural hazards [Paper No. 14]

*Lalrokima Chenkual (Disaster Management & Rehabilitation Department, Gov't of Mizoram)*

Strengthening Governance for Effective Disaster Risk Management in India [Paper No. 57]

*Bhaskara Rao Mulam (Rajiv Gandhi University of Knowledge Technologies (RGUKT) , IIIT R K Valley)*

STRENGTHENING GOVERNANCE FOR EFFECTIVE DISASTER RISK MANAGEMENT

[Paper No. 115]

*Vivek Saurav (NMIMS University Mumbai), Richa Kashyap (NMIMS University Mumbai)*

Strengthening Risk Governance for Mainstreaming Disaster Risk Reduction: Experiences from Osmanabad Pilot Project

[Paper No. 128]

*Mandar Vaidya (RedR India), Sinu Chacko (RedR India)*

From disaster management plans to disaster risk reduction plans: A concept note on spearheading paradigm shift in India

[Paper No. 169]

*Repaul Kanji (Gujarat Institute of Disaster Management), Ankur Srivastava (Risk and Resilience Institute, Indian Institute of Technology Delhi), Jeevan Madapala (Indian Institute of Technology Roorkee)*

Political Ecology of Disasters: Bangladesh Perspectives

[Paper No. 185]

*Mahfuzul Haque (PRC.bd)*

**Thematic Session - 2.03: Financing Disaster Management [30-01-2019; 14:00-15:15]**

**Session Chair: Maj General Dr. Naresh Badhani (Indian Army (Retd.))**

**[VMCC Room No. 2]**

Financing: Strengthening Disaster Risk Management in Kerala [Paper No. 141]  
*Sheena Philip (Bharata Mata College), Swetha Lakshmy (Bharata Mata College)*

Budgetary Insu-Resilience: A Sustainable and Disaster Resilience for all GDP losses Countries [Paper No. 243]  
*Gajadhar Choudhary (Trinity World University)*

Application of digital interfaces for humanitarian relief fundraising [Paper No. 393]  
*Dr. Sneha Krishnan (London school of Hygiene and Tropical Medicine, London), Dr. Indra Mohan (Chatrapati Sahuji Maharaj University, Kanpur), Deepshikha Purwar (University of Twente)*

Macroeconomic Aftermath of Natural Disasters: Evidences From India  
[Paper No. 481]  
*Vikrant Panwar (Indian Institute of Technology Roorkee (IIT-R)), Subir Sen (Indian Institute of Technology Roorkee (IIT-R))*

**Thematic Session - 2.04: Remote Sensing and GIS for Disaster Management – 1 [30-01-2019; 14:00-15:15]**

**Session Chair: Dr. Parvez Hayat (Former DGP Jharkhand & Former ADGP BPR & D, Ministry of Home Affairs)**  
**[VMCC Room No. 3]**

Remote Sensing based flood inundation mapping and crop damage assessment in the Beas basin of Punjab, India  
[Paper No. 111]  
*Sashikant Sahoo (Punjab Remote Sensing Centre, Govt. of Punjab, Ludhiana), Priyonath Adhikary (Punjab Remote Sensing Centre, Govt. of Punjab, Ludhiana), Pradeep Litoria (Punjab Remote Sensing Centre, Govt. of Punjab, Ludhiana), Brijendra Pateriya (Punjab Remote Sensing Centre, Govt. of Punjab, Ludhiana)*

Spatial Identification of Flood Areas using Temporal AMSR-2 Data [Paper No. 219]  
*Venkata Sai Krishna Vanama (IITB), Y. S. Rao (IITB)*

Monitoring terrestrial resources using Sentinel-2 satellite data for natural resource management – a case from Hiran basin, Gujarat, India [Paper No. 353]  
*Rahim Dobariya (Aga Khan Agency for Habitat)*

Using satellite data to monitor infrastructure resilience  
[Paper No. 402]  
*Michael Anthony (Sarmap SA), Giulia Tessari (Sarmap SA)*

Use of Sentinel-1 Synthetic Aperture Radar Imagery for flood mapping during Kerala Floods 2018  
[Paper No. 493]  
*Hemlata Bharwani (India Meteorological Department), Brahma Prakash Yadav (India Meteorological Department), Mruntunjay Mohapatra (India Meteorological Department), Shibin Balakrishnan (India Meteorological Department)*

Leveraging Geo-Spatial Technology Platform to Strengthen effective Disaster Management & Risk Reduction  
[Paper No. 506]



Seema Joshi (GM & Head – Technology & Solutions, Esri India)

**Thematic Session - 2.05: Strengthening Disaster Risk Governance – 2 [30-01-2019; 17:15-18:30]**

**Session Chair: Prof. Madhushree Sekhar (Tata Institute of Social Sciences, India)**

**[VMCC Room No. 1]**

Legal Regime on Disaster Management in India [Paper No. 189]

*Dr Suresh V Nadagoudar (P.G.Department of Law, Bangalore University, Bangalore, presently Registrar KSRDPR University, Gadag)*

Commencement of Change [Paper No. 233]

*Prasad Sankpal (Collector office Kolhapur Maharashtra)*

Empowering Local Government Institutions in Disaster Preparedness and Risk Reduction [Paper No. 259]

*Gireesan K (Rajiv Gandhi National Institute of Youth Development, Sriperumbudur, Tamil Nadu)*

Strengthening the Governance through Government to Government (G2G) framework to better communicate among government agencies for Effective Disaster Risk Management in Nepal [Paper No. 262]

*Shyan Kirat Rai (IIT Bombay), Krithi Ramamritham (IIT Bombay), Arnab Jana (IIT Bombay)*

Rain Basera – a reflection of balance of power between executive and judiciary [Paper No. 298]

*Priya Akash Sondhi (School of Law, Ansal University, Gurgaon)*

Disaster Governance and Effective Disaster Management In India [Paper No. 521]

*Dr. Lalit Varma (Department of General Administration & National Integration Department Government of Uttar Pradesh)*

**Thematic Session - 2.06: Remote Sensing and GIS for Disaster Management – 2 [30-01-2019; 17:15-18:30]**

**Session Chair: Prof. TV Vijay Kumar (Jawaharlal Nehru University, India)**

**[VMCC Room No. 2]**

Geo-Spatial analysis of Disaster Management in Greater Mumbai : Perceptions and expectations of the Locals [Paper No. 94]

*Pallavi Bagewadi (University of Mumbai), Dr. Dipti Mukherji (University of Mumbai)*

Identification of Flood Vulnerable Zone in Thrissur District of Kerala using Time Series Sentinel Data [Paper No. 138]

*Arun Prasad Kumar (Department of Geography, Central University of Tamil Nadu, Thiruvavur, Tamil Nadu), Abby Varghese (Department of Geography, Central University of Tamil Nadu, Thiruvavur, Tamil Nadu), Sulochana Shekhar (Department of Geography, Central University of Tamil Nadu, Thiruvavur, Tamil Nadu)*

Flood Inundation Mapping of Kosi River and Probable Remedial Measures by Remote Sensing and GIS [Paper No. 217]

*Sampa Paik (Jadavpur University), Gupinath Bhandari (Jadavpur University)*

Earthquake Displacement Mapping using Interferometric Synthetic Aperture Radar Data [Paper No. 234]

*Divya Sekhar Vaka (Indian Institute of Technology Bombay), Rao Y. S. (Indian Institute of Technology Bombay)*

Change detection based burnt area mapping using freely available Sentinel-2 images [Paper No. 280]  
*Suresh Babu K. V (International Institute of Information Technology, Hyderabad), Venkata Sai Krishna Vanama (IIT Bombay), Ridhika Aggarwal (United Nations University Institute For The Advanced Study of Sustainability, Tokyo, Japan)*

**Thematic Session - 2.07: Remote Sensing and GIS for Disaster Management – 3 [30-01-2019; 17:15-18:30]**

**Session Chair: Himanshu Shekhar Mishra (New Delhi Television)**

**Session Co-Chair: Dr. Arun Chatre (Former Executive Director, Nuclear Power Corporation, India) [VMCC Room No. 3]**

Soil Desertification Severity Modeling in Dharmapuri District of Tamil Nadu using Microwave Remote Sensing Techniques [Paper No. 293]

*Dr. Shoba Periasamy (SRM)*

LiDAR based Land-Water Boundary Identification during Floods [Paper No. 323]

*Susheel Balasubramaniam (Indian Institute of Science, Bangalore), Abhishek Kashyap (Indian Institute of Science, Bangalore), Sachin Shrivastav (Indian Institute of Science, Bangalore), Rudrashis Majumder (Indian Institute of Science, Bangalore), Sai Abhinav N (Tata Consultancy Services), Debasish Ghose (Indian Institute of Science, Bangalore)*

GIS based Relational Weather Forecasting System (RWFS) at Taluka level. [Paper No. 374]

*Nongmaithem Bragy Singh (Tata Institute of Social Sciences, Mumbai), Hari Krishna Dv (Tata Institute of Social Sciences, Mumbai), Abhishek Banerjee (Tata Institute of Social Sciences, Mumbai), Rajnish Ranjan (Skymet Weather Services Pvt. Ltd)*

Adaptive Capacity Assessment of a Region against Flood Vulnerability Using GIS and Remote Sensing [Paper No. 459]

*Aishwarya Narendr (Indian Institute of Technology Kharagpur), Sutapa Das (Indian Institute of Technology Kharagpur), Bharath H. Aithal (Indian Institute of Technology Kharagpur)*

Re-locatable Aerostat System for Swift Deployment of Communication Equipment in Disaster Struck Zones

[Paper No. 478]

*Chetan Dusane (Aerospace Engineering Department, Indian Institute of Technology Bombay), Pratik Rindhe (Aerospace Engineering Department, Indian Institute of Technology Bombay), Rajkumar Pant (Aerospace Engineering Department, Indian Institute of Technology Bombay)*

**Thematic Session - 2.08: Strengthening Disaster Risk Governance – 3 [31-01-2019; 14:00-15:15]**

**Session Chair: Dr. M H Karim (Kharazmi University, Tehran)**

**Session Co-Chair: Mr. Ray Kancharla (Head, DRR – CCA Unit, Save the Children, India)**

**[VMCC Room No. 2]**

Leveraging Existing Institutional Capacities For Strengthening Disaster Management: A Study On The Potential Of Indiapost [Paper No. 273]

*Prem G Prakash (Tata Institute Of Social Sciences, Mumbai)*

Dam Governance and Federalism in India: A Critique [Paper No. 397]

*Manika Kamthan (Symbiosis Law School)*

Need for Specialized Human Resource Support in the arena of Disaster Management in the Government Sector – A case study of the Maharashtra Disaster Risk Management Program [Paper No. 430]

*Shreedutt Kamat (Government of Maharashtra)*

Geospatial Knowledge as Resilience Factor in Fisher Communities

[Paper No. 470]

*Sumit Sen (IITB)*

Disaster Management Act, 2005: Ambiguity & Silences

[Paper No. 475]

*Janvi Gandhi (Tata Institute of Social Sciences), Shreedutt Kamat (Govt of Maharashtra)*

Turnaround of Disaster Management in Bihar: A critical appraisal

[Paper No. 496]

*Dr.Sunil Kumar Chaudhary (Bihar State Disaster Management Authority Bihar, Patna)*

**Thematic Session - 2.09: Strengthening Disaster Risk Governance – 4 [31-01-2019; 17:15-18:30]**

**Session Chair: Dr. Ashok Matani (Government College of Engineering, Amravati, India)**

**[VMCC Room No. 2]**

When humans saved the God's Own Country: A case study of Community participation in disaster relief [Paper No. 72]

*Yamini Meduri (Vignana Jyothi Institute of Management), Jayashree V (Vignana Jyothi Institute of Management)*

Resilient Universities for Resilient Communities

[Paper No. 142]

*Jeremy Collymore (University of the West Indies)*

“QUAD”- Lense On Objective Diplomacy And Challenges In Front Of India [Paper No. 373]

*Mahesh Misal (Tata Institute of Social Sciences)*

Man-made Disaster, NATO-led and UN-authorized International Mission and Reconstruction Efforts: the Resilience of Afghanistan and the Role of the U.S. and Canada

[Paper No. 437]

*Pooja Gopal (Jawaharlal Nehru University)*

Governance Innovation for inclusion of “At Risk” population in post disaster recovery: The case of Kerala

[Paper No. 444]

*Anu Puri (Unicef India Country Office), Janki Andharia (JTSDS-TISS), Job Zachariah (Unicef India)*

Regional Circular and Ecological Sphere Concept for Sustainable Resource Management and Collective Resilience of Urban and Rural: Lessons from Japan [Paper No. 514]

*Bijon Kumer Mitra (Institute for Global Environmental Strategies (IGES)), Rajib Shaw (Keio University), Junichi Fujino (Keio University), Atsushi Watabe (Keio University), Tomoko Takeda (Keio University)*

**Thematic Session - 2.10: Emerging Technologies: Drones, UAV, Artificial Intelligence and other systems for DM [31-01-2019; 17:15-18:30]**

**Session Chair: Prof. TV Vijay Kumar (Jawaharlal Nehru University, India)**

**Session Co-Chair: Mr. Sanjeev Kumar (Jawaharlal Nehru University, India)**

**[VMCC Room No. 3]**

Artificial Intelligence based Disaster Response System [Paper No. 91]

*Rabindra Lamsal (Jawaharlal Nehru University), T. V. Vijay Kumar (Jawaharlal Nehru University)*

Searching for Survivors in a Flood Scenario using UAVs and Ground Based Observers [Paper No. 317]

*Rahul Ravichandran (Indian Institute Of Science), Sai Abhinay N (Indian Institute Of Science), Debasish Ghose (Indian Institute Of Science), Kaushik Das (Indian Institute Of Science)*

Detection and Tracking of Land-Water Boundary in Flooded Region using UAV based Images [Paper No. 318]

*Sachin Shriwastav (Indian Institute of Science, Bangalore), Debasish Ghose (Indian Institute of Science, Bangalore)*

Drones: A Crucial Tool for Disaster Management [Paper No. 328]

*Ankit Mehta (IdeaForge Technology Pvt. Ltd.), Amit Thokal (IdeaForge Technology Pvt. Ltd.), Primrosetina M (IdeaForge Technology Pvt. Ltd.)*

Design and Fabrication of Mini Kinematic Legged Robot for Critical and Rescue Conditions [Paper No. 461]

*Kaja Bantha Navas Raja Mohamed (Sathyabama Institute of Science and Technology)*

Intelligent Decision Support System for Disaster Managers using Machine Learning

[Paper No. 462]

*Yovan Felix A (Sathyabama Institute of Science and Technology)*

**Thematic Session - 2.11: Earthquake Risk Management [01-02-2019; 14:00-15:15]**

**Session Chair: Dr. Pramod Kumar (Jawaharlal Nehru University, India)**

**[VMCC Room No. 1]**

Seismic Microzonation Studies of Srinagar, Garhwal (India) [Paper No. 67]

*Pradeep Kumar Singh Chauhan (CSIR-Central Building Research Institute, Roorkee (Uttarakhand)), Abha Mittal (CSIR-Central Building Research Institute, Roorkee (Uttarakhand)), Gayatri Devi (CSIR-Central Building Research Institute, Roorkee (Uttarakhand)), Zamir Ahmad (CSIR-Central Building Research Institute, Roorkee (Uttarakhand))*

Integrated geological and geoinformatics based Seismic hazard Zonation for South Andaman region and Development of Web based ANDMNSEISMOIS tool [Paper No. 308]

*Ramamoorthy Sivakumar*  
(SRM), *Snehasish Ghosh (SRM)*, *S S Sridhar (SRM)*

Risk Communication, Risk Perception and Seismic Resilience Pathway Analysis: Post 2015 Gorkha Earthquake, Nepal [Paper No. 375]

*Girinath Reddy Munagala Venkata (Tata Institute of Social Sciences)*, *Shibu K Mani (Christ University)*, *Jacquleen Joseph (Tata Institute of Social Sciences)*

A Framework on Site-Specific Probabilistic Seismic Hazard Assessment of Tabung Haji Hotel and Convention Centre in Kuching, Sarawak, Malaysia

[Paper No. 427]

*Raudhah Ahmadi (Universiti Malaysia Sarawak, Malaysia)*, *Azrin Ahmad (Universiti Malaysia Sarawak, Malaysia)*, *Ahmed Faysal Abdullahi (Dhofar University, Salalah)*, *Imtiyaz Akbar Najjar (Universiti Malaysia Sarawak, Malaysia)*

RADIUS – An Advocacy tool for earthquake risk mitigation

[Paper No. 454]

*Sushil Gupta (RMSI, Noida)*

**Thematic Session - 3.01: Gender, Age and Disaster Risk – 1 [30-01-2019; 14:00-15:15]**

**Session Chair: Ms. Madhavi Aryabandu (Former Deputy Head, UNISDR Asia-Pacific, Bangkok, Thailand)**

**[VMCC Room No. 4]**

Linking relief, recovery and development: advancing theory through gender analysis [Paper No. 222]

*Sneha Krishnan (London School of Hygiene & Tropical Medicine)*

HEAT WAVES AND THEIR IMPACT ON WOMEN: the case of women worker's in the streets of Mumbai.

[Paper No. 272]

*Rashika Saini (Tata Institute of Social Sciences)*

A Gender Perspective on Disaster Risk Reduction [Paper No. 327]

*Sowmya K (IIT Bombay)*

Gender based training approach for disaster management in Palghar District. [Paper No. 355]

*Vivekanand Kadam (Collector Office Palghar)*

Human Trafficking in the Aftermath of a natural Disaster [Paper No. 441]

*Shahiza Irani (Tata Institute of Social Sciences)*

“A TRAIL OF SUBDUED ECHO IN THE MOUNTAINS” A Study of Disaster Risk Perceptions Affixed to 2013 Himalayan Tsunami in Rudraprayag District, Uttarakhand

[Paper No. 456]

*Aditi Sharma (Naropa Fellowship)*

**Thematic Session - 3.02: Disability and Disasters [30-01-2019; 14:00-15:15]**

**Session Chair: Dr. Madhura Nagchaudhuri (Tata Institute of Social Sciences, India)**

**[VMCC Room No. 5]**

Disaster Preparedness among Persons with Disabilities with disabilities in Kerala [Paper No. 208]  
*Joe George (Kerala State Disaster Management Authority)*

Inclusion of Physically and Mentally Challenged Persons in Disaster Risk Reduction and Management [Paper No. 221]  
*Priti Pohekar (Rajarshi Shahu Mahavidyalaya, Latur (Autonomous))*

Disability Inclusive Disaster Preparedness: How accounting for Disability could be beneficial for everyone [Paper No. 278]  
*Vinay Suhalka (Indian Institute of Technology Bombay, Mumbai)*

Safeguarding people with disability at Kumbh Mela (the festival of the sacred Pitcher) [Paper No. 411]  
*Kakoli Saha (School of Planning and Architecture, Bhopal, India), Rachna Khare (School of Planning and Architecture, Bhopal, India)*

**Thematic Session - 3.03: Gender, Age and Disaster Risk – 2 [30-01-2019; 14:00-15:15]**

**Session Chair: Prof. Madhushree Sekhar (Tata Institute of Social Sciences, India)**

**[VMCC Room No. 11]**

Silent Voices: A study of post flood situation of older persons in Kerala, their specific Capacities, Vulnerabilities and Needs [Paper No. 124]

*Dibyashree Datta (RedR India), Sinu Kallupurayidam (RedR India)*

'If land is in her name, she will run away..' : A mixed methods approach to chronic undernutrition in impoverished areas of Odisha [Paper No. 237]

*Sneha Krishnan (London School of Hygiene & Tropical Medicine)*

Impact of hydro-meteorological disasters in sickness and mortality of elderly people: a literature review [Paper No. 242]

*Aline Viana (ENSP-FIOCRUZ/RJ), Carlos Freitas (CEPEDES - FIOCRUZ/RJ)*

Mortality impact of two major disaster in elderly people: a brazilian case study [Paper No. 244]

*Aline Viana (ENSP-FIOCRUZ/RJ), Carlos Freitas (CEPEDES - FIOCRUZ/RJ)*

Women Hygiene and Sanitation during and after the Kuttanad Flood [Paper No. 341]

*Renjith Mohan (Amrita Vishwavidyapeetham (Amrita University))*

Aging Kerala during Flood Disaster in August, 2018

[Paper No. 460]

*Biju Mathew (HelpAge India)*

**Thematic Session - 3.04: Children and Disasters [30-01-2019; 17:15-18:30]**

**Session Chair: Mr. Lars Bernd (Chief, Risk Informed Programming & Emergency Section, UNICEF India, New Delhi, India)**

**[VMCC Room No. 4]**

Children, Education & Disaster Risk Reduction - Investing towards a risk resilient future [Paper No. 107]

*Naghma Firdaus*

Looking beyond disasters: Reflections on Impact of Disasters and Resilience among Children affected by floods in Ernakulam, Kerala.

[Paper No. 166]

*Reny Rajan (Bharata Mata School of Social Work), Akhil Kuriakose (Bharata Mata School of Social Work), Tony Tom (Bharata Mata School of Social Work)*

Experiences and prospective for addressing child malnutrition through Community Based Management of Children with Acute Malnutrition (CMAM): Case Studies of Rajasthan and Odisha

[Paper No. 186]

*Sarita Sundari Rout (University of East Anglia, Norwich & TISS), Anu Bothra (Researcher , NCDS)*

Child Risk Impact Analysis (Child-Centered DRR And CCA) [Paper No. 265]

*Lars Bernd (UNICEF), Sarbjit Singh Sahota (UNICEF)*

Multi-sectoral assessment of Disaster Risk and Impact on Children in India – new evidence on the underreported impact of disasters on child development [Paper No. 266]

*Lars Bernd (UNICEF)*

Social and psychological Impacts of Natural Disaster on Children during 2018 Kerala Floods [Paper No. 338]

*Renjith Mohan (Amrita Vishwavidyapeetham (Amrita University))*

**Thematic Session - 3.05: Conflict, Displacement, Rights and related issues [30-01-2019; 17:15-18:30]**

**Session Chair: Prof. Avatthi Ramaiah (Tata Institute of Social Sciences, India)**

**Session Co-Chair: Dr. Kailash Gupta (The International Emergency Management Society, India Chapter)**

**[VMCC Room No. 5]**

Forced to flee: A review of Literature on Disaster Induced Displacement and Women [Paper No. 99]

*Sonu Tewari (Tata Institute Of Social Sciences)*

Practice in a Policy Vacuum-Exploring the Indian State's Response to Internal Displacement from Conflict Since 1990

[Paper No. 171]

*Paul George (RedR India)*

UNOSOM :Changing Spectrum of Conflict [Paper No. 232]

*Devashish De (Tata Institute of Social Sciences)*

Taking everyone on board [Paper No. 321]

*Amélie Yan-Gouiffes (Social Responsibility Strategist & Speaker Humanitarian)*

**Thematic Session - 3.06: Building Resilience of Communities to Disasters – 1 [31-01-2019; 14:00-15:15]**

**Session Chair: Mr. Mihir Bhatt (All India Institute of Disaster Management, India)  
[VMCC Room No. 3]**

Role of Social Capital in building Disaster Resilience [Paper No. 29]

*Akanchha Singh (Jawaharlal Nehru University), Akanchha Singh (Jawaharlal Nehru University)*

Vulnerable Settlements and Responses Corollary to Natural Disasters

[Paper No. 125]

*Govind N (Pondicherry Central University), Lakshmi K (Pondicherry Central University)*

Community Participation in Railway Disasters a Case Study [Paper No. 227]

*Manoj Sharma (Indian Railways), Satyanarayan D (Western Railways), Jude Aldons (Western Railways)*

Integrated health, Social & Economic impacts of Disaster and Assessment & Awareness on Disaster management in Uttar Pradesh [Paper No. 391]

*Prof Sandeep Tiwari (King George's Medical University Lucknow), Dr Rajeev Misra (King George's Medical University Lucknow), Miss Tatheer Fatima (King George's Medical University Lucknow), Dr Shashi Mala Tiwari (King George's Medical University Lucknow)*

Community Resilience and Disaster Management in India: A Study of Fishers in Odisha

[Paper No. 429]

*Swarna Tripathy (Utkal University)*

Natural Disaster and Community Resilience: A framework on Assessment Models

[Paper No. 491]

*Pratima Sarangi (Sri Sri University)*

**Thematic Session - 3.07: Building Resilience of Communities to Disasters – 2 [31-01-2019; 17:15-18:30]**

**Session Chair: Prof. Jaqueline Joseph (Tata Institute of Social Sciences, India)  
[VMCC Room No. 4]**

Location of Most Vulnerable Houses to Cyclone in Coastal India through Cloud Computing Technology [Paper No. 167]

*Sasikala K (CSIR- Structural Engineering Research Centre , Chennai), Dr. Harikrishna P (CSIR- Structural Engineering Research Centre , Chennai), Dr. Thamarai Selvi S (Anna University, Chennai)*

TNSMART- A Web-GIS based decision support system for strengthening Disaster Management in Tamil Nadu

[Paper No. 181]

*Dr. Korlapati Satyagopal (Revenue Administration Disaster Management & Mitigation Department, Chennai), Mr. Itesh Dash (Regional Integrated Multi hazard Early Warning System for Africa & Asia, Klong Laung Pathumthani , Thailand), Dr. Jothiganesh Shanmugsundaram (Regional Integrated Multi hazard Early Warning System for Africa & Asia, Klong Laung Pathumthani , Thailand)*

Developing Climate Resilience using Nature Based Solutions (NbS) [Paper No. 287]



*Shalini Dhyani (National Environmental Engineering Research Institute (CSIR-NEERI)), Anil K Gupta (National Environmental Engineering Research Institute (CSIR-NEERI)), Muralee Thumarrukudy (National Institute for Disaster Management (NIDM)), O (United Nations Environment Programme International Environment)*

Chance dependency syndrome in Disaster prone Masses [Paper No. 357]  
*Ambrish Pandey (Indian Railway)*

Predictors of disaster preparedness amongst households: a study from Delhi, India  
[Paper No. 501]  
*Dr. Rahul Sharma (Dept. of Community Medicine, UCMS & GTB hospital), Dr. Vikas Kumar (Dept. of Community Medicine, UCMS & GTB hospital), Dr. Dinesh Raja (Dept. of Community Medicine, UCMS & GTB hospital)*

Barriers to social sustainability in Humanitarian Supply Chain Management in the Indian context  
[Paper No. 510]  
*Priyanka Saini (IIT Roorkee), Rajat Agrawal (IIT Roorkee)*

**Thematic Session - 4.01: Resilient Health Care System – 1 [30-01-2019; 14:00-15:15]**

**Session Chair: Dr. Muzaffar Ahmed (Former Member, National Disaster Management Authority, India)**  
**[VMCC Room No. 12]**

India's Response To Healthcare Needs In The Backdrop Of Calamities And Outbreaks: Building Resilient Healthcare System [Paper No. 104]  
*Abhijeet Mishra (Amity University Noida), Anuranjika Mishra (Indira Gandhi National Open University)*

Evaluation of Frequency, Causes of Inappropriate Attendance to the Emergency Departments and Relationship to Overcrowding in Trabzon Province  
[Paper No. 163]  
*Abdülkadir Gündüz (Black Sea Technical University), Murat Topbaş (Black Sea Technical University), Ayla Gürsoy (International Cyprus University), Ozgür Tatlı (Black Sea Technical University), Özgen Gönenç Çekiç (Fatih State Hospital), Hava Semra Vuran (Fatih State Hospital), Perihan Şimşek (Black Sea Technical University), Mustafa Çiçek (Fatih State Hospital)*

Readiness and Response to an internal disaster incident: A real time assessment of OR Fire [Paper No. 210]  
*Raman Sharma (PGIMER, Chandigarh), Ashok Kumar (PGIMER, Chandigarh), Vipin Koushal (PGIMER, Chandigarh)*

Integrated Approach to Disaster Relief through Psychosocial Care [Paper No. 213]  
*Divya Kanchibhotla (Sri Sri Institute for Advanced Research, Art of Living)*

Expeditious Response to Epidemics: The Chronicle of Nipah in Kerala [Paper No. 333]  
*Ashique Vadakkuveetil (Central University of Tamilnadu), Salih Madathil (Government Medical College Thrissur), Leo George (Central University of Tamilnadu), Dinabandhu Mahata (Central University of Tamilnadu), Ashish Kumar (Central University of Tamilnadu), Sandip Mondal (Central University of Tamilnadu), Rohini Venugopal Menon (Jamia Millia Islamia), Monib Ahmad*

Predictions of Disease Spikes induced by Climate Variability: A pilot real time forecasting model project from Maharashtra, India

[Paper No. 401]

*Sujata Saunik (Government of Maharashtra, India), Yusuf Kabir (Unicef, Mumbai), Omkar Oniel Khare (Unicef, Mumbai)*

**Thematic Session - 4.02: Emergency Health Management – 1 [30-01-2019; 14:00-15:15]**

**Session Chair: Dr. Tamorish Kole**

**[VMCC Room No. 13]**

Multi-Dimensional Approaches in Sri Lanka: National Policy on Disaster Management in Action [Paper No. 28]

*Md Zahir Ahmed (Northwest Normal University, China), H. D. M. Kaushalya Geethamali (University of Sri Jayewardenepura, Sri Lanka), Syed Ahmed Ali (Policy Research Centre.bd)*

International Experience on Building Emergency Care in Humanitarian Crisis [Paper No. 63]

*Dr Punidha Kaliaperumal (Emergency Physician & Disaster Medicine Specialist)*

Emergency Department (ED) Preparedness for Disasters [Paper No. 64]

*Dr. Tamorish Kole (Chair, Institute of Emergency Medicine, Medeor Hospitals, Delhi NCR, India)*

Tying Down the Monster: Kerala's Medico-Socio-Cultural Response to the Nipha Outbreak [Paper No. 127]

*Eldhose Varghese (Research Scholar, Dept. of Anthropology, Pondicherry University), Dr Jesurathnam Devarapalli (Associate Professor, Dept. of Anthropology, Pondicherry University)*

Fighting preventable diseases: vaccination schemes for refugees in the 10 major host-countries [Paper No. 364]

*Julia Steinle (UN Major Group Children and Youth)*

The Outbreak of the Infectious Diseases with special reference to Public Health Agency of Canada [Paper No. 477]

*Dr.Devi Roy (School of International Studies, Jawaharlal Nehru University (JNU), New Delhi)*

**Thematic Session - 4.03: Making Schools Safe in Disasters [30-01-2019; 14:00-15:15]**

**Session Chair: Mr. Mahesh Narvekar (Municipal Corporation of Greater Mumbai, India)**

**[VMCC Room No. 14]**

Climate change agenda in education & school curriculum. Comprehensive School Safety Approach. [Paper No. 23]

*Brigadier Vinod Dutta (Former Secretary, Defence Crisis Management Group (Disaster Management))*

Restructuring disaster education framework in India: The way forward [Paper No. 30]

*Pragati Pandey (Disaster Management In School Education), Pragati Pandey (National Institute Of Educational Planning And Administration)*

Importance of Disaster Management Education in School Curriculum through collaborative teaching and learning

[Paper No. 183]

*Manish Kumar Shukla (Swami Vivekanand University)*

Multi Hazard Disaster Management Planning for Safer School [Paper No. 292]

*Poornima S (Shrishti Matriculation School, Vellore), Ganapathy Pattukandan Ganapathy (Vellore Institute of Technology (VIT), Vellore)*

Integrated and Sustainable Risk Reduction in Education Sector- A practical approach towards home-to-home safety of school children.

[Paper No. 502]

*Nakul Kumar Tarun (Super Highway Lab Private Ltd), Tanushree Verma (SDMA, Delhi)*

**Thematic Session - 4.04: Resilient Health Care System – 2 [30-01-2019; 17:15-18:30]**

**Session Chair: Dr. Nilesh Buddh (WHO, India)**

**[VMCC Room No. 11]**

Posttraumatic Growth and Natural Disasters: A Systematic Review of Literature.

[Paper No. 117]

*Vikas Sehra (Centre for the Study of Regional Development (CSR), Jawaharlal Nehru University, New Delhi)*

Disasters and exemplified vulnerabilities in a cramped Public Health Infrastructure in India [Paper No. 218]

*Baljeet Kaur (Tata Institute of Social Sciences, Mumbai)*

A Framework for Strengthening Primary Health Care in Developing Countries During Disasters [Paper No. 381]

*Naveen Krishna Alla (Indian Institute of Technology, Bombay), Arnab Jana (Indian Institute of Technology, Bombay)*

Effect of an intervention on knowledge among nurses regarding their role in disaster management: A tertiary care centre study

[Paper No. 489]

*Mahendra Kumar (PGIMER, Chandigarh), Shweta Talati (PGIMER, Chandigarh), Anil Kumar Gupta (PGIMER, Chandigarh)*

Knowledge among Nursing trainees on Zika virus disaster preparedness. [Paper No. 513]

*Vasundhara S Nair (National Institute of Mental Health and Neurosciences), Kasi Sekar (National Institute of Mental Health and Neurosciences), Priya Treasa Thomas (National Institute of Mental Health and Neurosciences)*

Search, Rescue And Evacuation: Psychology, Criminology And Victimology Perspectives [Paper No. 524]

*Rikza Imtiyaz (Centre Of Disaster Management, Department of Geography, Jamia Millia Islamia)*

**Thematic Session - 4.05: Education, Training & Multi-stakeholder engagement [31-01-2019; 17:15-18:30]**

**Session Chair: Mr. Suhas Diwase (Government of Maharashtra, India)**

**[VMCC Room No. 5]**

Public Education as a Human Rights Tool towards creating Resilient India [Paper No. 314]

*Dr. Kamlesh Kumar (Tata Institute of Social Sciences)*

The Role of Public Entrepreneurs in building Resilience to Disasters [Paper No. 377]

*Suchita Awasthi (Tata Institute of Social Sciences), Dr. Jacquleen Joseph (Tata Institute of Social Sciences)*

Governmental and Non-Governmental Collaborative Efforts in Disaster Management: An Experience from Uttarakhand

[Paper No. 412]

*Aditi Tyagi (Sri Sri University, Cuttack, Odisha), Aditi Tyagi (Sri Sri University, Cuttack, Odisha)*

Theoretical Framework using Gamification for stakeholder engagement in disaster operations

[Paper No. 421]

*Abhishek Behl (Indian Institute of Technology Bombay), Pankaj Dutta (Indian Institute of Technology Bombay)*

Disaster Education Among Children: A Study to assess awareness on disaster Education in School going children in Kashmir(J&k.)

[Paper No. 452]

*Rameez Sudhan (Department of Education), Aaliya Beigh (J&K State Disaster Management Authority (JKSDMA))*

Role of Psychologists in Disaster Management and Building Resilience [Paper No. 525]

*Ravindra Kumar (DRDO), Vipin Kumar Sharma (DRDO), Jainendra Kumar Jain (Thapar Institute of Engineering and Technology Patiala Punjab India)*

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**Thematic Session - 5.01: Cyclone Risk Management [29-01-2019; 15:30–16:45]**

**Session Chair: Mr. KS Hosalikar (India Meteorological Department, India)**

**[VMCC Room No. 13]**

Human Behavioural Features and Disaster Resilience .An Analysis based on Cases of Cyclone Survivors in Orissa [Paper No. 35]

*Ipsita Dash (Birla Global University), Niranjana Sahoo (Xavier Institute of Social Service)*

Vulnerability Assessment and Restoration of Cyclone Damaged Trees in GITAM University Campus at Visakhapatnam [Paper No. 53]

*Mohan Kotamraju (GITAM , Visakhapatnam)*

Role of Multipurpose Cyclone Shelter as a Disaster Resilient Infrastructure in Digha Dadanpatrabar Coastal Belt, West Bengal

[Paper No. 105]

*Sripurna Kanjilal (Jadavpur University), Gupinath Bhandari (Jadavpur University)*

Gaja Cyclone: Post Disaster Recovery and Vulnerability Assessment [Paper No. 248]

*Divya Rajeswari Swaminathan (Central University of Tamil Nadu), K Balasubramani (Central University of Tamil Nadu), Leo George (Central University of Tamil Nadu), Abinaya V (Central University of Tamil Nadu)*

Beyond Zero Causality: Learning from Titli Cyclone Odisha

[Paper No. 447]

*Debabrata Patra (ActionAid)*

**Thematic Session - 5.02: Agriculture, Livelihood and Resilience – 1 [30-01-2019; 14:00-15:15]**

**Session Chair: Prof. T. Jayaraman (Tata Institute of Social Sciences, India)**

**[VMCC Room No. 15]**

Disaster preparedness for standing crops and irrigation water drought [Paper No. 19]

*Rajiv Gupta (Birla Institute of Technology and Sciences, Pilani, Rajasthan), Soumya Kar (Birla Institute of Technology and Sciences, Pilani, Rajasthan)*

Assessment of agricultural drought in Alwar (Rajasthan) using Vegetation Condition Index (VCI) and Standardized Precipitation Index (SPI)

[Paper No. 102]

*Dr. Harish Samaria (University Of Rajasthan)*

Homestead farming: A heritage system to enhance resiliency in the era of climate vulnerability [Paper No. 274]

*Jitendra Sundaray (ICAR- Central Institute Of Freshwater Aquaculture)*

Resilient Agricultural Practices- A case of Ujjain District, Madhya Pradesh, India

[Paper No. 410]

*Ayush Garg (Government of M.P), Kakoli Saha (School of Planning and Architecture, Bhopal)*

**Thematic Session - 5.03: Protecting Animals and Fisheries in Disasters [30-01-2019; 14:00-15:15]**

**Session Chair: Mr. KM Singh (Former Member, National Disaster Management Authority, India)**

**[VMCC Lecture Hall No. 31]**

Pacific White shrimp *Penaeus vannamei* for climate resilient aquaculture and livelihood [Paper No. 75]

*Saraswathy R (ICAR-Central Institute of Brackishwater Aquaculture), Muralidhar M (ICAR-Central Institute of Brackishwater Aquaculture), Rajesh R (ICAR-Central Institute of Brackishwater Aquaculture), Balasubramanian C.P. (ICAR-Central Institute of Brackishwater Aquaculture), Jose Antony (ICAR-Central Institute of Brackishwater Aquaculture), Vijayan K. K (ICAR-Central Institute of Brackishwater Aquaculture)*

'Inclusion of Animals in Disaster Management' [Paper No. 335]

*Priyanka Tajane (Tata Institute of Social Sciences, Mumbai)*

Disaster Management and Preparedness for Farm Animals and Livestock [Paper No. 354]

*Naresh Kumar Kakker (Lala Lajpat Rai University Of Veterinary And Animal Sciences, Hisar, Haryana)*

Disaster Risk Reduction Strategies for Animals

[Paper No. 507]

*Hansen Thambi Prem (World Animal Protection), Dr Akash Maheshwari (World Animal Protection)*

**Thematic Session - 5.04: Climate Change and Disasters – 1 [30-01-2019; 14:00-15:15]**

**Session Chair: Col. Sanjay Srivastava (Climate Resilient Observing- Systems Promotion Council)**

**(CROPC)**

**[VMCC Lecture Hall No. 32]**

Climate Change and Macroeconomic Stability of India

[Paper No. 161]

*Jeevan Madapala (Indian Institute of Technology Roorkee), Priyanka Aggarwal (Indian Institute of Technology Roorkee)*

Building Climate Resilience in Maharashtra [Paper No. 207]

*Naman Gupta (Action on Climate Today), Prutha Vaze (Action on Climate Today)*

Analysis of street workers perception towards heatwave effects on their livelihood and health.”

[Paper No. 236]

*Karishma Raj (TISS)*

Climate Change Extremities fury invincible : Challenges and Gaps in weather surveillance and dissemination to masses Challenges [Paper No. 307]

*Sanjay Srivastava (Climate Resilient Observing-Systems promotion Council), Thomas Prasad (Tata Consultancy Services)*

Effect of Temperature Dynamics and Subsequent Changes in Vegetation Coverage on the Vulnerability of Indian Sundarban Region [Paper No. 330]

*Papia Guha (Jadavpur University), Pritam Aitch (Jadavpur University), Gupinath Bhandari (Jadavpur University)*

**Thematic Session - 5.05: Climate Change and Disasters – 2 [30-01-2019; 17:15-18:30]**

**Session Chair: Dr. Anil Gupta (National Institute of Disaster Management, India)**

**[VMCC Room No. 12]**

A Resilience Approach for Changing Climate and Bio-diversity in Coastal Villages of Nellore District, Andhra Pradesh (India) [Paper No. 93]

*Chandan Kumar (Save the Children India), Priyanka Sharma (Bank of Baroda)*

Significance of individual behaviour and perceptions in climate change adaptation: A systematic literature review [Paper No. 95]

*Shiva Sai Kiran Pothula (Indian Institute of Science)*

Impact of Anthropogenic Climate Change in Desertification: In context of Impoverishment and Migration [Paper No. 339]

*Mehul Padharia (Gujarat State Disaster Management Authority)*

Hydrological and ecological impacts of changing climate and land use/ land cover to mitigate extreme/disaster events in a Western Ghats river basin, India

[Paper No. 409]

*Rakesh Kumar Sinha (IDP in Climate Studies, Indian Institute of Technology Bombay, India), T. I. Eldho (Department of Civil Engineering, Indian Institute of Technology, Bombay, India)*

Climate change: Regional vs global change and challenges ahead

[Paper No. 438]

*Deepika Swami (Indian Institute of Technology Bombay), Devanathan Parthasarathy (Indian Institute of Technology Bombay)*

Impact of climate Changes on the Socio- Economic Status of Odisha: Issues and Policies

[Paper No. 482]

*Malini Sethi (Noida International university)*

**Thematic Session - 5.06: Climate Change and Disasters – 3 [30-01-2019; 17:15-18:30]**

**Session Chair: Dr. Chandan Ghosh (National Institute of Disaster Management, India)**

**[VMCC Room No. 13]**

Anthropogenic Activities Impact on Surface Water Spread of Semi-Arid Region, Madhya Pradesh, India

[Paper No. 76]

*Abhishek Banerjee (Tata Institute of Social Sciences, India), Kamleshwar Pratap (WAPCOS, Ministry of Water Resources, New Delhi, India)*

Role of public perception in climate change in India [Paper No. 284]

*Vaishnavi Kapoor (Tata Institute of Social Sciences), Vandana Yadav (Tata Institute of Social Sciences)*

Study and Analysis of Upper Ocean Heat Content (UOHC) and its relation with Cyclone Intensification

[Paper No. 337]

*Vijendra Sambhalwar (Tata Institute Of Social Sciences, Mumbai)*

Geo-informatics in drought vulnerability assessment-a case study of south-western part of Purulia

District [Paper No. 356]

*Madhurima Chakraborty (Tata Institute of Social Sciences)*

Climate Change, Disasters and Security Issues, Concerns and Implications For India

[Paper No. 497]

*Dr.Sunil Kumar Chaudhary (Bihar State Disaster Management Authority Bihar, Patna)*

**Thematic Session - 5.07: Agriculture, Livelihood and Resilience – 2 [31-01-2019; 14:00-15:15]**

**Session Chair: Ms. Antonia Loyzaga (International Advisory Board, Manila Observatory, Indonesia)**

**[VMCC Room No. 4]**

Agriculture Management by using technology on PPP mode through Viability Gap Funding(VGF)

[Paper No. 299]

*Sanjay Srivastava (Climate Resilient Observing- Systems Promotion Council (CROPC))*

Overcoming the Barriers in Advancing Food-Energy-Water (FEW) Nexus Agenda at Local Level: Focus on Urban-Rural Dichotomy [Paper No. 332]

*Vibhas Sukhwani (Keio University), Rajib Shaw (Keio University)*

Assessing Risks Associated with Various Stakeholders of Grape Supply Chain Management that Arises due to extreme weather events. [Paper No. 343]

*Priyanka Tajane (Tata Institute of Social Sciences, Mumbai)*

Food Security Assessment at Household Level in Rudraprayag District of Uttarakhand [Paper No. 385]

*Priyanka Tyagi (Department of Geography, Kumaun University, Nainita), Ravindra K. Pande (Department of Geography, Kumaun University, Nainita)*

Multivariate statistical analysis of big data sets for agricultural related disaster management [Paper No. 494]

*Hemlata Bharwani (India Meteorological Department), S.M. Veerabhadrapa (Amity Institute of Geoinformation and Remote Sensing, Noida), Mruntunjay Mohapatra (India Meteorological Department)*

Disaster preparedness for Standing Crops and Irrigation Water during Drought Spells [Paper No. 516]  
*Rajiv Gupta (BITS Pilani), Soumya Kar (BITS Pilani)*

**Thematic Session - 5.08: Ecology, Environment and Disasters – 1 [31-01-2019; 14:00-15:15]**

**Session Chair: Dr. Dilip Pithadia (Pithadia Foundation, India)**

**[VMCC Room No. 5]**

Investigating into Socio-Ecological Systems for Gaining Resilience in Rural Settlements [Paper No. 10]  
*Shruthi Dakey (Visvesvaraya National Institute of Technology), Sameer Deshkar (Visvesvaraya National Institute of Technology)*

Assessment of Green Vegetation Cover and Terrain, a Case of Imphal District, Manipur, India [Paper No. 16]

*Vickyson Naorem (Centre of Excellence in Disaster Mitigation and Management, Indian Institute of Technology Roorkee), Mahua Mukherjee (Centre of Excellence in Disaster Mitigation and Management, Indian Institute of Technology Roorkee), Atul Kumar (Department of Architecture and Planning, Indian Institute of Technology Roorkee)*

Applying Socio-Ecological Perspective for Fostering Resilience in Rural Settlements of Melghat Region [Paper No. 336]

*Vibhas Sukhwani (Keio University), Sameer Deshkar (Visvesvaraya National Institute of Technology (VNIT), Nagpur)*

Integrated Management of the Ecosystems towards Sustainable Development in Senapati District, Manipur [Paper No. 362]

*Salew Lohra (Tata Institute of Social Sciences, Mumbai)*

Risk Perception of Tourists towards the destination Prone to Natural Disasters: A Case Study of Uttarkashi-Gangotri Area [Paper No. 379]

*Taniya Bhatt (Tata Institute of Social Sciences), Saumya Kumar (Tata Institute of Social Sciences)*

Environmental degradation & Potential threat– A case study of Ambur, TamilNadu.

[Paper No. 451]

*Malathy J (VIT, Vellore)*

**Thematic Session - 5.09: Ecology, Environment and Disasters – 2 [31-01-2019; 17:15-18:30]**

**Session Chair: Mr. Mahesh Kamble (Tata Institute of Social Sciences, India)**

**[VMCC Room No. 11]**



Wetlands and Urban Cities: A study on how wetlands in Chennai could make the city resilient to floods  
[Paper No. 120]

*Abby Varghese (Central University of Tamil Nadu), Gayathri Mohan (St. Mary's College, Kerala),  
Midhun M.P. (Central University of Tamil Nadu)*

Innovative practices of minimizing vehicular air pollution in Indian automobile sector towards disaster avoidance in smart cities

[Paper No. 180]

*Dr Ashok Matani Matani (Mechanical Engg Dept, Govt. College of Engineering, Amravati)*

Blending green bio fuels in aviation industries towards pollution prevention towards avoiding disasters in metro cities

[Paper No. 184]

*Dr Ashok Matani (Government College Of Engineering, Amravati)*

Impact of Wastewater from Outfalls of River Ganga on Germination Percentage and Growth Parameters of Bitter gourd(*Momordica charantia* L.) - A slow onset Disaster [Paper No. 220]

*Sayanti Kar (Jadavpur University), Amitava Ghosh (Asutosh College), Pritam Aitch (Jadavpur University), Gupinath Bhandari (Jadavpur University)*

Deepor Beel Wetland: threats to ecosystem services. their importance to dependant communities and possible management measures [Paper No. 253]

*Jekulin Lipi Saikia ( Indo-Global Social Service Society)*

Air pollution – the importance of addressing growing health risks linked to ambient and indoor air pollution as part of the Sendai's engagement to address climate related risks [Paper No. 267]

*Lars Bernd (UNICEF)*

**Thematic Session - 5.10: Ecology, Environment and Disasters – 3 [31-01-2019; 17:15-18:30]**

**Session Chair: Prof. Rajib Shaw (UNISDR & Keio University, Japan)**

**[VMCC Room No. 12]**

Reducing the risk of manmade disasters for resilient critical infrastructure [Paper No. 119]

*Dhillon Pps (IIT Roorkee)*

Startegies for the Management of Wetlands: Case Study of Vembanad Wetland in Western Coast of India [Paper No. 240]

*Vishnu Mohan (Tata Institute of Social Sciences)*

Currency notes waste utilization as resources inventory towards preventing environment degradation in developing economies [Paper No. 395]

*Dr. S. K. Doifode (Government College of Engineering, Amaravati), O (Government College of Engineering, Amaravati), Dr Ashok Matani (Government College of Engineering, Amaravati), Premesh Premesh P. Bhatkar (Government College of Engineering, Amaravati), Ashish Mali Mali (Government College of Engineering, Amaravati), N.S.Mattani Mattani (Vivekanand Institute of Technology, VESIT, Mumbai, India)*

Blending methanol as renewable fuel in automobiles towards cleaner environment in Indian metros [Paper No. 396]

*Dr Ashok Matani (Government College of Engineering, Amaravati), Dr. S. K. Doifode (Government College of Engineering, Amaravati), Ankush Bhishnurkar (Government College of Engineering, Amaravati), Mahak Matani (Government College of Engineering- Shivajinagar, Pune), Mohd. Sohail Ansari (Government College of Engineering, Amaravati)*

Waste Management for Resilient City - Comparison of Pre & Post Disaster Concerns  
[Paper No. 434]  
*Bindu Aggarwal (Indian Red Cross Society)*

Biopolymers: An Emerging tool for Environmental Safety, Climate Change and Sustainable Development Perspective [Paper No. 517]  
*Vartika Agarwal (University of Lucknow), Pallavi Somvanshi (TERI), Prof Gauri Saxena (University of Lucknow)*

**Thematic Session - 5.11: Drought Risk Management – 1 [01-02-2019; 14:00-15:15]**

**Session Chair: Dr. Simon Croxton (Acutora, South Africa)**

**[VMCC Room No. 2]**

Chronological History of Changes in Drought Relief Measures in India  
[Paper No. 134]

*Kanchan Kumar (Tata Institute of Social Sciences), Jacquleen Joseph (Tata Institute of Social Sciences)*

Title Real Time Monitoring for Drought Prediction in Maharashtra [Paper No. 264]

*Yusuf Kabir (UNICEF), Lars Bernd (UNICEF)*

Analyzing the water balance for drought prone regions of Marathwada, India [Paper No. 269]

*Richa Dhawale (Indian Institute of Technology, Kharagpur), Saikat Paul (Indian Institute of Technology, Kharagpur), Jeeno George (Indian Institute of Technology, Kharagpur)*

Understanding Community Well-Being in the Context of Droughts: A Paradigm Shift from Trauma to Development [Paper No. 365]

*Jacquleen Joseph (Tata Institute of Social Sciences), Girinath Reddy Munagala Venkata (Tata Institute of Social Sciences)*

A Resilient Plan for Water Resources Management to Mitigate Risk of Drought & Flood

[Paper No. 407]

*Anant Patel (Nirma University)*

Drought Response and Relief by “Jaldoot Express”: A Case study of Latur Drought 2016

[Paper No. 435]

*Sakeb Osmani (Collector Office, Latur), Pramod Patil (School of Management Sciences, SRTMUN Subcentre Latur)*

**Thematic Session - 5.12: Drought Risk Management – 2 [01-02-2019; 14:00-15:15]**

**Session Chair: Mr. Sarbjit Singh Sahota (UNICEF, India)**

**[VMCC Room No. 3]**

How long will we like a good drought? Perspectives and alternatives to address drought in Odisha

[Paper No. 445]

*Debabrata Patra (ActionAid)*

Framework for Drought Vulnerability Analysis: Micro-level Study of selected villages in Datia and Lalitpur Districts, Bundelkhand Region

[Paper No. 466]

*Sreeja Nair (UNDP), Anil K Gupta (NIDM, MHA), Mahendra Singh Nathawat (IGNOU)*

Mainstreaming Drought Resilience in Development : Case study of Bundelkhand Special Package

[Paper No. 468]

*Sreeja Nair (UNDP), Anil K Gupta (NIDM, MHA), Mahendra Singh Nathawat (IGNOU)*

Geoinformatics In Drought Vulnerability Assessment-A Case Study Of South Western Part Of Purulia Dist. West Bengal [Paper No. 518]

*Madhurima Chakraborty (Tata Institute of Social Sciences), Ramesh Veerapan (Tata Institute of Social Sciences)*

**Thematic Session - 5.13: Landslide Risk Management – 1 [01-02-2019; 14:00-15:15]**

**Session Chair: Dr. GP Ganapathy (Vellore Institute of Technology, India)**

**[VMCC Room No. 4]**

Landslide Hazard Zonation (LHZ) of Lawngtlai District, Mizoram, India using Remote Sensing And GIS [Paper No. 54]

*Lalrokima Chenkual (Disaster Management and Rehabilitation)*

Stability analysis of Rarang landslide, NH-22, Himachal Pradesh, India [Paper No. 83]

*Amitansu Pattanaik (DTRL, Defence Research & Development Organisation), Arjun Gaur (Dept of Civil Engineering, Galgotias University, Greater Noida), Deepak Thapliyal (Dept of Civil Engineering, Delhi Technical campus, GGSIPU, Greater Noida)*

Slope Stability and Rockfall Hazard Analysis of two Vulnerable Railway Sites in Maharashtra [Paper No. 202]

*Ashish Juneja (Indian Institute of Technology Bombay)*

Landslide mitigation for Sustainable hill slope ecosystem using soil bio engineering techniques- A new direction for Indian vulnerable Indian hill slopes [Paper No. 214]

*Gobinath R (S R Engineering College), Ganapathy G.P. (Vellore Institute of Technology), Sangeetha G (Vellore Institute of Technology), Raja G (Karur Engineering College, Karur), Prasath E (Karur Engineering College, Karur)*

Debris slide hazard modeling for better risk information in data scarcity region: A study in lower Mandakini Valley, India [Paper No. 247]

*Somnath Bera (Tata Institute of Social Sciences, Mumbai), Habib Ali Mirdda (Jamia Millia Islamia University, New Delhi)*

Landslide Risk Assessment in parts of Higher Himalaya, Uttarakhand: A post Kedarnath Disaster approach using Earth Observation Inputs [Paper No. 250]

*Pankaj Kumar (Indian Institute of Technology Bombay), Shovan Lal Chhattoraj (Indian Institute of Technology Bombay), Sweta Kumari (Indian Institute of Remote Sensing Dehradun), Bhavana Ghildiyal*

*(Indian Institute of Remote Sensing Dehradun), Pk Champaty Ray (Indian Institute of Remote Sensing Dehradun), Anupam Mital (National Institute of Technology Kurukshetra)*

**Thematic Session - 5.14: Landslide Risk Management – 2 [01-02-2019; 14:00-15:15]**

**Session Chair: Prof. Ambrish Mahajan (Central University of Himachal Pradesh)  
[VMCC Room No. 5]**

Towards sustainable soil stabilisation by utilising CCR in treatment of expansive soils [Paper No. 310]  
*Ashish Juneja (Indian Institute of Technology Bombay), Shrikant Shinde (Indian Institute of Technology Bombay)*

Prediction of Soil Mass Flow During Landslides using Viscous Parameters [Paper No. 313]  
*Ashish Juneja (IIT Bombay), Sayali Belwadikar (Rajarambapu Institute of Technology, Islampur), Dhananjay Patil (Rajarambapu Institute of Technology, Islampur)*

Linking hazards of landslide and urban flood in North-East Himalayan region  
[Paper No. 440]  
*Tanaya Sarmah (Indian Institute of Technology Kharagpur), Sutapa Das (Indian Institute of Technology Kharagpur)*

Landslide Susceptibility Assessment using Analytic Hierarchy Process and Frequency Ratio methods along NH 1D from Sonamarg to Kargil, J&K, India [Paper No. 522]  
*Aadil Manzoor Nanda (Department of Geography & Regional Development, University of Kashmir), Zahoor Ul Hassan (Department of Geography & Regional Development, University of Kashmir), Pervez Ahmed (Department of Geography & Regional Development, University of Kashmir), T. A Kant (Department of Geography & Regional Development, University of Kashmir)*

Slope Stability Analysis along NH 1D from Sonamarg to Kargil, J&K, India: Implications to Landslide Risk Reduction. [Paper No. 523]  
*Aadil M Nanda (Department of Geography & Regional Development, University of Kashmir), Maqbool Yousuf (Department of Civil Engineering, National Institute of Technology, Srinagar), Fayaz A Lone (Department of Geography & Regional Development, University of Kashmir), Pervez Ahmed (Department of Geography & Regional Development, University of Kashmir), T. A Kant (Department of Geography & Regional Development, University of Kashmir)*

**Thematic Session - 6.01: Resilient Infrastructure – 1 [31-01-2019; 14:00-15:15]**

**Session Chair: Mr. Jeremy Collymore (jeremy.collymore@cavehill.uwi.edu)  
[VMCC Room No. 11]**

Resilient Infrastructure in Himalayan region - A need, not a luxury [Paper No. 26]  
*Ambrish Mahajan (Central University of Himachal Pradesh), Praveen Kumar (Central University of Himachal Pradesh), Pawan Kumar (Central University of Himachal Pradesh)*

Performance Based Design of a Disaster Resilient Infrastructure [Paper No. 239]  
*Selvi Rajan (CSIR-Structural Engineering Research Centre, Chennai), Abrar Bashir (SRM)*

Is Infrastructure at Tourist Places in Madhya Pradesh is Disaster Resilient? [Paper No. 252]  
*Vandana Sharma (Devi Ahilya Vishwavidyalaya, Indore), Vivek Sharma (Devi Ahilya Vishwavidyalaya)*

Post-Flooding Infrastructure Resiliency; An Endless Fight [Paper No. 261]  
*Nurashikin Mohammed (The University of Manchester, United Kingdom)*

Deep Tunnelling for Underground Storage in Jointed Rock Mass [Paper No. 315]  
*Ashish Juneja (IIT Bombay), Vijay Kiran Kota (IIT Bombay)*

**Thematic Session - 6.02: Resilient Infrastructure – 2 [31-01-2019; 17:15-18:30]**  
**Session Chair: Prof. Alok Goyal (Indian Institute of Technology Bombay, India)**  
**[VMCC Room No. 13]**

Hydrologic considerations in dam safety [Paper No. 33]  
*Umesh Chaube (Sri Vaishnav Vidyapeeth University)*

Risk, Resilience and Cost Benefit Assessments of a Retrofitted Highway Bridge Subjected to Multihazard [Paper No. 249]  
*Dinesh Kumar Devendiran (IIT BOMBAY), Swagata Banerjee (IIT BOMBAY)*

Identifying urban road-segments that are critical to network resilience [Paper No. 254]  
*B. K. Bhavathrathan (Indian Institute of Technology Palakkad), Gopal Patil (Indian Institute of Technology Bombay)*

Interdisciplinary Mapping and Analysis of Threats to Storm Water Drainage System in Mumbai: Role of Policies, Institutions, and Governance in Making Cities Resilient [Paper No. 300]  
*Arpit Arora (Indian Institute of Technology Bombay), Subodh Wagle (Indian Institute of Technology Bombay)*

Lightning detection, alert, capacity building, protection and safe grid management system [Paper No. 301]  
*Sanjay Srivastava (Climate Resilient Observing- Systems Promotion Council CROPC)*

Design of Resilient Water Distribution Networks Considering Future Changes in Water Demand [Paper No. 347]  
*Swati Sirsant (IIT Bombay), M Janga Reddy (IIT Bombay)*

**Thematic Session - 7.01: Human Induced Hazards – CBRN Hazards [29-01-2019; 15:30–16:45]**  
**Session Chair: Dr. V. Thiruppugazh (National Disaster Management Authority, India)**  
**[VMCC Room No. 14]**

Disaster specific approaches – Nuclear, Biological & Chemical Disasters [Paper No. 22]  
*Brigadier Vinod Dutta (Former Secretary, Defence Crisis Management Group (Disaster Management))*

Procedure for Seismic walk-down of an industrial plant handling hazardous chemicals, so as to avoid/reduce the release of the hazardous gases and/or liquid chemicals to the environment and the public [Paper No. 175]  
*Arun Chhatre (NPCIL)*

Biological Disasters: Prevention and Management [Paper No. 191]

*Shiv Jamwal (JK Police)*

CBRN Incident Management [Paper No. 226]

*Ram Athavale (Ministry of Defence (Army), Government of India)*

Peril of Uranium Mining- An Emerging Disaster: A Case Study of East Singhbhum, Jharkhand [Paper No. 271]

*Priya Namrata Topno (Tata Institute of Social Sciences, Mumbai)*

**Thematic Session - 7.02: Fire Risk Management [29-01-2019; 15:30–16:45]**

**Session Chair: Dr. Mohammad Irshad (Tata Institute of Social Sciences, India)**

**[VMCC Room No. 15]**

Assessment of Industrial Hazard, Vulnerability and Risk for off-site Emergency Planning and Response - A simulated study on the environs of Indane (Liquefied Petroleum Gas) Bottling Plant using RS & GIS North Guwahati, Assam, India. [Paper No. 71]

*Mutum Somorjit Singh (North Eastern Space Applications Centre, Umiam), Jenita Nongkynrih (North Eastern Space Applications Centre, Umiam)*

Lessons Learned from the failures of various industrial equipment as collected from the industries affected by Earthquakes in India and other countries

[Paper No. 174]

*Arun Chhatre (NPCIL)*

Urban Fire Risk Assessment [Paper No. 263]

*Ar. Priya Singh (Visvesvaraya National Institute of Technology, Nagpur), Dr. Chandra Sabnani (Visvesvaraya National Institute of Technology, Nagpur), Dr. Vijay Kapse (Visvesvaraya National Institute of Technology, Nagpur)*

Optimization of Travel Time in Fire Rescue Operations by Floating Fire Engines [Paper No. 281]

*Parth Loya (IIT Bombay), Arnab Jana (Center for Urban Science and Engineering, IIT Bombay), M N. Sharath (IIT Bombay), Nagendra R Velaga (IIT Bombay)*

Numerical studies on development of fires inside the large size enclosure [Paper No. 312]

*Deepak Sahu (Department of Chemical Engineering, Dr. B.R. Ambedkar National Institute of Technology, Jalandhar), Jaspreet Chawla (Department of Chemical Engineering, Dr. B.R. Ambedkar National Institute of Technology, Jalandhar), Sangeeta Garg (Department of Chemical Engineering, Dr. B.R. Ambedkar National Institute of Technology, Jalandhar)*

Emergency Preparedness Plan for Explosives Processing Area [Paper No. 334]

*V S H Ramachandra Raju Vegiraju (Satish Dhawan Space Centre, ISRO, Sriharikota, A.P), Ramesh Kumar R (Satish Dhawan Space Centre, ISRO, Sriharikota, A.P), Subbananthan T (Satish Dhawan Space Centre, ISRO, Sriharikota, A.P)*

**Thematic Session - 7.03: Professionalizing Disaster Response – 1 [30-01-2019; 14:00-15:15]**

**Session Chair: Mr. OP Singh (Director General of Police, UP, India)**

**[VMCC Lecture Hall No. 33]**

Intervention of Armed Forces in Operational and Non Operational Scenario

[Paper No. 152]

*Rhythm Mathur (Tata Institute of Social Sciences)*

Effectiveness of TOT Workshop on Psychosocial Care in Disaster Management for National Disaster Response Force Personnel

[Paper No. 188]

*Aravind Raj Elangovan (National Institute Of Mental Health And Neuro Sciences), Ajinder Walia (National Institute Of Mental Health And Neuro Sciences), James Ranjith (National Institute Of Mental Health And Neuro Sciences), Rajamanikandan S (National Institute Of Mental Health And Neuro Sciences), Sekar K (National Institute Of Mental Health And Neuro Sciences)*

Social Media: A Helping Platform in Emergencies and Disaster Management- A Case Study Based on Mumbai Rain, 201 [Paper No. 211]

*Puja Banerjee (Mumbai University)*

What role does mentoring have on the long term success of Emergency and Disaster Organizations? An empirical study [Paper No. 268]

*Attila Hertelendy (Georgetown University)*

Professionalising Disaster Management and need for Civilian Response Teams [Paper No. 283]

*Rajeshwari Kori (Government of Maharashtra, Home Department, Special 8)*

Assessing the accessibility of an urban area considering road closure probabilities aftermath of an earthquake [Paper No. 288]

*Arpan Paul Singh (Indian Institute of Technology, Kharagpur), Shankha Pratim Bhattacharya (Indian Institute of Technology, Kharagpur), Sumana Gupta (Indian Institute of Technology, Kharagpur)*

**Thematic Session - 7.04: Professionalizing Disaster Response – 2 [30-01-2019; 17:15-18:30]**

**Session Chair: Dr. Sekhar Kuriakose (Kerala State Disaster Management Authority, India)**

**[VMCC Room No. 14]**

Addressing Disaster Risk Reduction Through Urban Planning: A Pro-Active Approach [Paper No. 81]

*Vandana Singh (School of Planning and Architecture Bhopal), Sheuli Mitra (School of Planning and Architecture Bhopal)*

Utilising Online Social Media for Coordinating Post-Disaster Relief in Indian Cities [Paper No. 276]

*Moumita Basu (UEM Kolkata, IEST Shibpur), Saptarshi Ghosh (Indian Institute of Technology Kharagpur), Arnab Jana (Indian Institute of Technology Bombay)*

Search, Rescue and Evacuation: Psychology, Criminology and Victimology Perspectives [Paper No. 295]

*Rikza Imtiaz (Jamia Millia Islamia)*

Search Resue & Evacuation : Present Status & Future Needs [Paper No. 297]

*Colonel Bhasker Gupta (Indian Army)*

Use of 'Green Corridor' for timely transportation of Response Agencies for effective Disaster Response in Urban Areas [Paper No. 304]

*Medha Gadgil (Government of Maharashtra), Shreedutt Kamat (Government of Maharashtra)*

Crowd Management of Gangasagar Mela by High technology and capacity building of institution  
[Paper No. 305]  
*Sanjay Srivastava (Climate Resilient Observing Systems Promotion Council)*

**Thematic Session - 7.05: Professionalizing Disaster Response – 3 [30-01-2019; 17:15-18:30]**  
**Session Chair: Prof. Manish Kumar (Indian Institute of Technology Bombay)**  
**[VMCC Room No. 15]**

A framework for prioritizing evacuation in a cyclonic event  
[Paper No. 159]

*Amarjeet Kumar (IIT Khargapur), Saikat Paul (Indian Institute of Technology Kharagpur)*

Robust and Effective Disaster Response force to Enhance Disaster Resilience in India [Paper No. 176]  
*Brigadier Kamal Singh Chauhan Retd (University Of Jammu )*

DeepDisasterNet: High-Performance Computing Driven Rapid Disaster Response Network [Paper No. 291]

*Abhishek Potnis (Indian Institute of Technology Bombay), Surya Durbha (Indian Institute of Technology Bombay), Rajat Shinde (Indian Institute of Technology Bombay), Pankaj Tarone (Indian Institute of Technology Bombay)*

Role of Armed and other Forces during Disasters [Paper No. 511]

*Dr. Parvez Hayat (Jamia Millia Islamia University, New Delhi)*

**Thematic Session - 7.06: Disaster Recovery and Reconstruction [30-01-2019; 17:15-18:30]**  
**Session Chair: Prof. Santosh Kumar (National Institute of Disaster Management, India)**  
**[VMCC Lecture Hall No. 31]**

Post-Disaster crisis in Education sector: How best can we resolve [Paper No. 21]

*Ashraf Al Deen (PRC.bd and Member NAPSIPAG)*

Disaster Resilient Infrastructure in Power Utility [Paper No. 32]

*Mr Asoke Chakraborty (CESC Ltd, Risk & Disaster Wing, 2A Lord Sinha Road, Kolkata), Mr Sukanta Basu (CESC Ltd, Risk & Disaster Wing, 2A Lord Sinha Road, Kolkata)*

Post-disaster perception and needs for housing recovery after the 2015 Nepal Earthquake

[Paper No. 164]

*Rupesh Shrestha (TH Köln - University of Applied Science, Kathmandu Valley Preservation Trust), Alexander Fekete (TH Köln - University of Applied Science, Kathmandu Valley Preservation Trust), Simone Sandholz (United Nations University – for Environment and Human Security (UNU-EHS))*

Post Disaster: Analysis on Rebuilding the Livelihood [Paper No. 384]

*Abinaya V (Central University of Tamil Nadu), Divya Rajeswari Swaminathan (Central University of Tamil Nadu)*

Structuring Participation in post disaster housing reconstruction- Case Study of 2013 Uttarakhand Floods

[Paper No. 404]



*Niti Mishra (Tata Institute of Social Sciences)*

Comprehensive understanding of critical human infrastructure leads to sustainable disaster recovery: Case studies from successful Flooding Resilience, Earthquake- Tsunami disaster emergency response and Post-Hurricane damage assessment

[Paper No. 479]

*Gunjan Shetye (Black & Veatch Pvt Ltd), Tushar Kulkarni (Black & Veatch Pvt Ltd), Kedar Bhuskute (Black & Veatch Pvt Ltd), Vinit Priyadarshi (Black & Veatch Pvt Ltd)*

**Thematic Session - 7.07: Early Warning of Disasters [30-01-2019; 17:15-18:30]**

**Session Chair: Col. Sanjay Srivastava (Climate Resilient Observing- Systems Promotion Council (CROPC))**

**[VMCC Lecture Hall No. 32]**

Landslide Risk Assessment in India: Recent Trends and Future Challenges [Paper No. 73]

*Rajesh Kumar Dash (CSIR-Central Building Research Institute,Roorkee), Debi Prasanna Kanungo (CSIR-Central Building Research Institute,Roorkee), Philips Omowumi Falae (CSIR-Central Building Research Institute,Roorkee)*

Early Warning Systems in the Era of Climate Change

[Paper No. 112]

*Jeremy Collymore (University of the West Indies)*

Development of High Wave Alert/Warning Mapping for the Indian peninsular coastline using Geographical Information System [Paper No. 122]

*Meera Nair M.S (University of Madras), Abby Varghese (Central University of Tamil Nadu)*

Deployment of Onsite Earthquake Early Warning System

[Paper No. 140]

*Bijender Goel (Terra Techcom Pvt Ltd)*

Early Warning System: A Step towards Effective Response [Paper No. 512]

*Tanushree Verma (Delhi Disaster Management Authority.)*

**Thematic Session - 7.08: Professionalizing Disaster Response – 4 [31-01-2019; 14:00-15:15]**

**Session Chair: Ms. Niti Mishra (Tata Institute of Social Sciences, India)**

**[VMCC Room No. 12]**

Planning for Disasters: What Managers and Supervisors Need to Know [Paper No. 46]

*Sanjay Sehgal (Smartpro Foundation)*

Development of A Device for Rescue Operation in Borewell Accidents [Paper No. 367]

*Tapash Kalita (Assam don Bosco University), Priyanuj Mahanta (Assam don Bosco University), Sourav Sonowal (Assam don Bosco University), Abhishek Khongia (Assam don Bosco University), Surjya Tanti (Assam don Bosco University), Maruk Alam Aziz (Assam don Bosco University)*

Escalating the Effect of Search Rescue and Evacuation in Disaster by Information Provisioning

[Paper No. 425]

*Bharathi Ramudu (CAIR DRDO), Malay Nema (CAIR DRDO), Lakshmish Nayak (CAIR DRDO), Ambily P (CAIR DRDO), Pawan Sah (CAIR DRDO)*

Role of Armed Forces in Disaster Management in India: What Does this Mean in the Context of Specialised Institutions & Response Forces (NDRF&SDRFS) created by the DM Act of 2005 [Paper No. 503]

*Mr. Shajahan Avadi (TERI- The Energy Resources Institute of India), Dr Rajiv Seth (Disaster Management)*

Amphibious Construction in Kerala: Translational Engineering Perspective

[Paper No. 504]

*Nanma Gireesh (Translational Research and Professional Leadership Centre, Government Engineering College, Barton Hill, Trivandrum), Dr. Suja R (Translational Research and Professional Leadership Centre, Government Engineering College, Barton Hill, Trivandrum)*

Disaster Management In Mines Using Standard Operating Procedures (Sops) [Paper No. 520]

*Dr. S. K. Sharma (IIT BHU), A. K. Jain (IIT BHU)*

**Thematic Session - 8.01: Business Practices – BCP & CSR [01-02-2019; 14:00-15:15]**

**Session Chair: Mr. Sanjeevan Joshi (AIIISG, India)**

**[VMCC Room No. 11]**

CSR Practices and Disaster Risk Reduction: A Critical Observation from Medium Scale Industries [Paper No. 36]

*Dr. Niranjana Sahoo (Xavier Institute of Social Service, Ranchi)*

Disasters as Teachable Moments: The 2017 Events in the Caribbean. Lessons for Business Contingency and Continuity Planning

[Paper No. 113]

*Jeremy Collymore (University of the West Indies)*

Resilient businesses [Paper No. 206]

*Naman Gupta (Action On Climate Today), Prutha Vaze (Action On Climate Today)*

Leveraging on Corporate Social Responsibility to Build Disaster Resilience in Urban Areas: Opportunities and Perspectives [Paper No. 296]

*Bhagyashree Patil (CSR Study Unit, IIT Bombay), Pawan Kamble (CSR Study Unit, IIT Bombay), Satish B Agnihotri (Head CTARA and CPS, PI CSR Study Unit, IIT Bombay)*

Business Recovery in Disaster Management [Paper No. 350]

*Vandana Yadav (Tata Institute Of Social Sciences)*

**Thematic Session - 9.01: Flood Risk Management – 1 [29-01-2019; 15:30–16:45]**

**Session Chair: Prof. TI Eldho (Indian Institute of Technology Bombay, India)**

**[VMCC Lecture Hall No. 31]**

Evaluation of Floods in Chennai and Kerala (Part I) [Paper No. 277]

*Manoj Pokkiyarath (Amrita Vishwa Vidyapeetham), Abhirami A (Amrita Vishwa Vidyapeetham), Arvind M (Amrita Vishwa Vidyapeetham), Bishu R.R (University of Nebraska-Lincoln)*

Eroding Lives of the Musahars: Lived Experiences in the Context of Flood and River-Bank Erosion [Paper No. 351]

*Siji Chacko (Tata Institute of Social Sciences)*

Assessing Suitability of TRMM precipitation data for flood forecasting of Upper Tungabhadra sub-basin in India [Paper No. 352]

*Saswata Nandi (Indian Institute of Technology Bombay), M Janga Reddy (Indian Institute of Technology Bombay)*

The Kosi Flood 2017 and its impact on the livelihood of Daily Wage Worker in Arariya District [Paper No. 369]

*Santosh Kumar (Tata Institute Of Social Sciences)*

Examining the performance of flash flood guidance model over West coast of India [Paper No. 442]

*Hemlata Bharwani (India Meteorological Department), Brahma Prakash Yadav (India Meteorological Department), Mruntunjay Mohapatra (India Meteorological Department), Kanduri Jayaram Ramesh (India Meteorological Department)*

Flood resilient study for Ahmedabad City using GIS and hydrological model [Paper No. 464]

*Anant Patel (Nirma University)*

**Thematic Session - 9.02: Flood Risk Management – 2 [29-01-2019; 15:30–16:45]**

**Session Chair: Prof. NC Narayanan (Indian Institute of Technology Bombay, India)**

**[VMCC Lecture Hall No. 32]**

Assessment of Green Vegetation Cover and Impervious Surface for Shaping the Future with Reference to Kakching, Manipur, India [Paper No. 15]

*Vickyson Naorem (Centre of Excellence in Disaster Mitigation and Management, Indian Institute of Technology Roorkee), Mahua Mukherjee (Centre of Excellence in Disaster Mitigation and Management, Indian Institute of Technology Roorkee), Atul Kumar (Department of Architecture and Planning, Indian Institute of Technology Roorkee)*

Deficiencies in Flood Damage Assessment and possible Improvements [Paper No. 34]

*Umesh Chaube (Sri Vaishnav Vidyapeeth University, Indore)*

Flood Resilient Land Use Planning Process for Flood Vulnerabilities [Paper No. 97]

*Sujith Sourab Guntoju (School of Planning and Architecture, New Delhi)*

Coastal Flood Vulnerability in India.

[Paper No. 114]

*Vikas Sehra (Centre for the Study of Regional Development (CSRD), Jawaharlal Nehru University, New Delhi)*

Disaster Risk Reduction State Machinery and Community Responses A Study of Aftermath of Srinagar floods (2014) in Jammu & Kashmir [Paper No. 194]

*Bupinder Zutshi (Centre for the Study of Disaster Studies, Jawaharlal Nehru University, New Delhi)*

Mitigation Strategies for Flooding Disasters [Paper No. 279]

*Dhanashri Mirajkar (D Y Patil School of Architecture, Ambi, Pune)*

**Thematic Session - 9.03: Hydro-Meteorological & Other Disaster Risks [29-01-2019; 15:30–16:45]**

**Session Chair: Ms. Irina Rafliana (International Center for Interdisciplinary and Advance Research, Indonesia)**

**[VMCC Lecture Hall No. 33]**

Evolution of India's Response to Cyclones and Drawbacks and Capacity Building Measures

[Paper No. 157]

*Jeevan Madapala (Indian Institute of Technology Roorkee)*

Surface Mining, Mountain top Removal (MTR) and Community Well – Being: A study of remote mining villages in Odisha [Paper No. 251]

*Ipsit Mohanty (Tata Institute Of Social Sciences)*

Lessons from Cyclones-A General insight and appraisal of Cyclonic importance factor [Paper No. 257]

*Santhosh Kumar Baswa (Department of Civil Engineering, GITAM-Visakhapatnam), Balaji K.V.G.D*

*(Department of Civil Engineering, GITAM-Visakhapatnam), Chandan Kumar Patnaikuni (Department of Civil Engineering, GITAM-Visakhapatnam)*

Game-Theoretic Model based Resource Allocation During Floods [Paper No. 345]

*Rudrashis Majumder (Indian Institute of Science), Rakesh R Warier (Indian Institute of Science),*

*Debasish Ghose (Indian Institute of Science)*

Chir Pine and the Forest Fire Menace - Uttarakhand [Paper No. 358]

*Hari Krishna D V (Tata Institute of Social Sciences), Taniya Bhatt (Tata Institute of Social Sciences), J P*

*Maithani (Alaknanda Ghaati Shilpi Federation)*

A systematic way to derive potential impact area to cyclones for EWS using technologies and near real-time meteorological observations, a case study from individual disaster management agency

[Paper No. 376]

*Rahim Dobariya (Aga Khan Agency for Habitat)*

**Thematic Session - 9.04: Resilient City Planning and Strategies – 1 [31-01-2019; 14:00-15:15]**

**Session Chair: Dr. Parvez Hayat (Former DGP Jharkhand & Former ADGP BPR & D, Ministry of Home Affairs)**

**[VMCC Room No. 13]**

Linking parameters for extracting design brief under Climate Change for Urban Resilience Planning

[Paper No. 96]

*Sujith Sourab Guntoju (School of Planning and Architecture, New Delhi)*

Scrutinizing strategies for urban resilience and disaster risk reduction

[Paper No. 133]

*Theresa Zimmermann (Disaster Research Unit, Freie Universität Berlin), Martin Voss (Disaster Research Unit, Freie Universität Berlin)*

Community well-being disrupted by recurrent floods in U.P. [Paper No. 282]

*Vandana Yadav (Tata Institute of Social Sciences)*

Resilient Cities and Human Settlements [Paper No. 340]

*Simran Pal Kaur (Tata Institute of Social Sciences, Mumbai), Goutham Raj Konda Jangam (Tata Institute of Social Sciences, Mumbai)*

Historical Review of the Idea and Notion of Resilience: A Policy Evaluation Perspective in Urban India [Paper No. 480]

*Piyush Kumar (IIT)*

Flood Management in Indian Cities: Challenges and New Paradigms [Paper No. 487]

*Shyni Anilkumar (NIT Calicut), Pavatharani Paul (NIT Calicut)*

**Thematic Session - 9.05: Urban Climate Resilience [31-01-2019; 14:00-15:15]**

**Session Chair: Prof. TI Eldho (Indian Institute of Technology Bombay, India)**

**[VMCC Room No. 14]**

The Degradation of Urban Environment in Mulund, Mumbai – Identifying the gaps in Residents' Expectation and Policy Implementation [Paper No. 78]

*Sujayita Bhattacharjee (University of Mumbai)*

Transport emissions reduction: building resilient neighbourhood [Paper No. 346]

*Sushibala Nambram (Indian Institute of Technology Bombay), Arnab Jana (Indian Institute of Technology Bombay), K Narayanan (Indian Institute of Technology Bombay)*

Heat stress and urbanisation pattern in Megacity- Mumbai: Towards climate - resilient urban policies [Paper No. 368]

*Surabhi Mehrotra (Indian Institute Of Technology Bombay, Mumbai), Ronita Bardhan (Indian Institute Of Technology Bombay, Mumbai), Krithivasan Ramamritham (Indian Institute Of Technology Bombay, Mumbai)*

Adapting Urban Forests to Climate Change [Paper No. 386]

*Prof. Shweta Suhane (Institute of Architecture & Planning Nirma University Ahmedabad Gujarat)*

A Rational Methodology to Evaluate Resilience of a city Impacted by Disaster: Emphasis on Transportation Infrastructure [Paper No. 422]

*Shagun Mittal (Indian Institute of Technology Tirupati), Krishna Prapoorna Biligiri (Indian Institute of Technology Tirupati)*

An Effective and Way Forward Approach for Road Safety Acquisition of Knowledge – Correlative Study for Patna

[Paper No. 498]

*Dr.Sunil Kumar Chaudhary (Bihar State Disaster Management Authority Bihar, Patna)*

**Thematic Session - 9.06: Risks and Resilience of Cities – 1 [31-01-2019; 14:00-15:15]**

**Session Chair: Prof. T-C Pan (Nanyang Technological University, Singapore)**

**[VMCC Room No. 15]**

Assessment of life satisfaction in slum rehabilitation housing in developing countries [Paper No. 25]  
*Bangkim Kshetrimayum (Indian Institute of Technology Bombay), Ronita Bardhan (Indian Institute of Technology Bombay)*

Role of Indian town planning schemes for earthquake resilience [Paper No. 203]  
*Kartiki Pataskar (Visvesvaraya National Institute of Technology), Amit Deshmukh (Visvesvaraya National Institute of Technology)*

Delhi's Urban Governance, Human Settlements and Access to Civic Services: Smart City or Urban Disaster? [Paper No. 256]  
*Dr. Rumki Basu (Jamia Millia University)*

Towards a framework to use public open spaces for disaster resilience and post disaster recovery in the South-Asian context [Paper No. 270]  
*Divya Subramanian (Indian Institute of Technology Bombay), Sneha Krishnan (LSHTM), Arnab Jana (Indian Institute of Technology Bombay)*

Earthquake Hazard Risk Vulnerability Analysis (HRVA) of Navi Mumbai  
[Paper No. 471]  
*Rohan Shinde (IITB), Ravi Sinha (IITB), Mahendra Meena (NDMA)*

Technological Interventions to Make Urban Transport Reliable Evacuation Transport in case of Natural Disaster [Paper No. 508]  
*Veer Singh (Shuttl), Nakul Kumar Tarun (Shuttl)*

**Thematic Session - 9.07: Risks and Resilience of Cities – 2 [31-01-2019; 14:00-15:15]**

**Session Chair: Prof. Swagata Basu (Indian Institute of Technology Bombay, India)**

**[VMCC Lecture Hall No. 31]**

Role of Media in Disasters / Disaster reporting [Paper No. 44]  
*Mrs. Malini Shankar (Digital Discourse Foundation)*

A Grid Connected PV Module with MPPT and VSC [Paper No. 229]  
*Umakant Tivari (National Institute of Technology Agartala), Joyashree Das (National Institute of Technology Agartala)*

Mainstreaming Disaster Risk Reduction in Development planning: a case of Mumbai [Paper No. 324]  
*Mahesh Kamble (JTSDS, TISS)*

Assessment of Seismic Risk in Important Buildings [Paper No. 443]  
*Ajay Kumar Sinha (NIT Patna), Saket Kumar (NIT Patna), Anukriti Sinha (SJSU)*

Earthquake Disaster Risk Profile of Mumbai  
[Paper No. 472]

Rohan Shinde (IITB), Ravi Sinha (IITB)

**Thematic Session - 9.08: Earthquake Resistant Building Designs & Technology – 1 [31-01-2019; 14:00-15:15]**

**Session Chair: Mr. Atulya Misra (Revenue and Disaster Management, Tamil Nadu Government, India)**

**[VMCC Lecture Hall No. 32]**

Time Period formula for symmetrical Reinforced Concrete building in seismic analysis [Paper No. 42]  
*Prakash Sangamnerkar (Madhya Pradesh Housing and Infrastructure Development Board Bhopal), Prabhat Kumar Soni (Sagar Institute of Research Technology and Science Bhopal), S. K. Dubey (Maulana Azad National Institute of Technology Bhopal)*

Inelastic analysis of High Rise Building under earthquake forces [Paper No. 50]  
*Prabhat Kumar Soni (Sagar Institute of Research Technology and Science, Bhopal (M.P)), Prakash Sangamnerkar (Madhya Pradesh Housing and Infrastructure Development Board, Bhopal (M P) ), S.K. Dubey (Maulana Azad National Institute of Technology, Bhopal (MP))*

Cost-effective base-isolation systems for earthquake-resilient structures  
[Paper No. 408]

*Awanish Kumar (Indian Institute of Technology Bombay), Aditya Jhunjhunwala (Indian Institute of Technology Bombay), Siddharth Keshan (Indian Institute of Technology Bombay), Farbod Pakpour (University of Toronto), Ravi Sinha (Indian Institute of Technology Bombay), Constantin Christopoulos (University of Toronto)*

A Rapid Visual Survey of Buildings in Shillong City, Meghalaya, India  
[Paper No. 453]

*Sushil Gupta (RMSI, Noida)*

Seismic Fragility of RC Frame Buildings with Material Variation  
[Paper No. 473]

*Ashish Sapre (Indian Institute of Technology - Bombay), Ravi Sinha (Indian Institute of Technology - Bombay)*

**Thematic Session - 9.09: Resilient City Planning and Strategies – 2 [31-01-2019; 17:15-18:30]**

**Session Chair: Prof. Jyoti Parikh (Former Member, Prime Minister's Advisory Council on Climate Change, India)**

**[VMCC Room No. 14]**

Increasing Vulnerability to Disasters in Lal Dora areas in Delhi: A Study in Administrative Accountability and Disaster Governance [Paper No. 27]

*Natasha Goyal (Jawaharlal Nehru University, New Delhi)*

Influence of land use and household location impact on disaster risks in informal settlements: A case study in Kolkata City, India [Paper No. 69]

*Dinabandhu Mahata (School of Earth Sciences, Department of Geography, Central University of Tamil Nadu), Sulochana Shekhar (School of Earth Sciences, Department of Geography, Central University of Tamil Nadu)*

Mainstreaming City Resilience into Indian Master Plan making process, A toolkit based framework approach

[Paper No. 156]

*Sujith Sourab Guntoju (SPA, New Delhi)*

Towards smart and sustainable cities: Demonstrating the role of ICT in the context of fire events in Indian cities, A Case of Mumbai [Paper No. 201]

*Vaibhav Kumar (IIT Bombay), Shyan Kirat Rai (IIT Bombay), Krithi Ramamritham (IIT Bombay), Arnab Jana (IIT Bombay)*

Sustainable and Disaster Resilient Urban Development, India: A Comparative study of 10 cities to draw lesson for South Asia [Paper No. 216]

*Rohit Magotra (Integrated Research and Action for Development, IRADe, Delhi), Jyoti Parikh (Integrated Research and Action for Development, IRADe, Delhi), Moumita Shaw (Integrated Research and Action for Development, IRADe, Delhi), Asha Kaushik (Integrated Research and Action for Development, IRADe, Delhi)*

**Thematic Session - 9.10: Resilient City Planning and Strategies – 3 [31-01-2019; 17:15-18:30]**

**Session Chair: Ms. Irina Rafliana (International Center for Interdisciplinary and Advance Research, Indonesia)**

**[VMCC Room No. 15]**

Role of Urban-Rural linkages in overall resilience of the region: An Indicator based assessment [Paper No. 204]

*Manish Kulkarni (Visvesvaraya National Institute of Technology), Sameer Deshkar (Visvesvaraya National Institute of Technology), Shruthi Dakey (Visvesvaraya National Institute of Technology), Karumoju L N Sridhar Achari (Visvesvaraya National Institute of Technology)*

Modern Social change and Rapid urbanization: Its Causes and challenges on Disaster Risk Management [Paper No. 349]

*Kanagaraj Saminathan (Dept. of Social Work, Amrita School of Engineering, Coimbatore, Amrita Vishwa Vidyapeetham)*

Hazard and Vulnerability Assessment of Urban centers in Kerala, case study of Thiruvananthapuram and Thrissur [Paper No. 361]

*Nidhin Davis K (Kerala State Disaster Management Authority), Parvathy S (Kerala State Disaster Management Authority), Pradeep G S (Kerala State Disaster Management Authority)*

An analysis of night shelters (Rain Basera) in the context of Sustainable Development Goal 13 (Target 13.1) [Paper No. 366]

*Priya Akash Sondhi (School of Law, Ansal University, Gurgaon), Akash Sondhi (TERI SAS, Vasant Kunj, New Delhi), Astha Mehta (School of Law, Ansal University, Gurgaon)*

Vanishing Aravallis and its impending threat to Disaster

[Paper No. 484]

*Gaurika Chugh (Researcher, Special Centre for Disaster Research, Jawaharlal Nehru University)*

Waste Management for 'Resilient Cities' - Comparison of Pre & Post Disaster Concerns [Paper No. 519]



*Bindu Aggarwal (Indian Red Cross Society), Anil Gupta (National Institute of Disaster Management)*

**Thematic Session - 9.11: Disaster Resistant Building Materials and Technology – 1 [31-01-2019; 14:00-15:15]**

**Session Chair: Dr. Sunil Choudhary (Bihar State Disaster Management Authority, India)  
[VMCC Lecture Hall No. 33]**

Study as per IS Code provisions for safe and economical structural steel sections [Paper No. 43]  
*Prabhat Kumar Soni (Sagar Institute of Research Technology and Science, Bhopal), Prakash Sangamnerkar (Madhya Pradesh Housing and Infrastructure Development Board, Bhopal), S.K. Dubey (Maulana Azad National Institute of Technology, Bhopal)*

Wind force analysis for typified designs of steel roof trusses [Paper No. 49]  
*Prabhat Kumar Soni (Sagar Institute of Research Technology and Science, Bhopal (M.P)), Prakash Sangamnerkar (Madhya Pradesh Housing and Infrastructure Development Board, Bhopal (M P)), S.K. Dubey (Maulana Azad National Institute of Technology, Bhopal (MP))*

Role of Bamboo in Post Disaster Reconstruction: Potentiality and Challenges [Paper No. 56]  
*Kankana Narayan Dev (Indian Institute of Technology Guwahati), Amarendra Kumar Das (Indian Institute of Technology Guwahati)*

Design and Analysis of Sliding Segmental Retaining Wall [Paper No. 132]  
*Pranali Handge (SNJB's LSKBJ COE, Chandwad, Maharashtra), Madhur Gujrathi (SNJB's LSKBJ COE, Chandwad, Maharashtra), Ankita Chobharkar (SNJB's LSKBJ COE, Chandwad, Maharashtra), Babalu Jagtap (SNJB's LSKBJ COE, Chandwad, Maharashtra), Samiksha Ghogare (SNJB's LSKBJ COE, Chandwad, Maharashtra), Dr. Y. L. Bhirud (SNJB's LSKBJ COE, Chandwad, Maharashtra)*

Plastics wastage resources inventory utilization in road construction industries towards disaster avoidance in smart cities

[Paper No. 178]  
*Dr Ashok Matani Matani (Mechanical Engg Dept, Govt. College of Engineering, Amravati)*

Demodulation of Risk Management in Construction Projects

[Paper No. 187]  
*Mh Karim (Kharazmi University, Tehran), Me Karim (Adelaide University, Australia), Za Hashemi (University of S&B, Iran)*

**Thematic Session - 9.12: Disaster Resistant Building Materials and Technology – 2 [31-01-2019; 17:15-18:30]**

**Session Chair: Prof. Meera Raghunandan (Indian Institute of Technology Bombay, India)  
[VMCC Lecture Hall No. 31]**

Cyclic Mobility Assessment using CPT and DMT [Paper No. 255]  
*Pradnya Singbal (IIT Bombay), Naresh Kumar Singam (IIT Bombay), Santiram Chatterjee (IIT Bombay), Deepankar Choudhury (IIT Bombay)*

Understanding, Analysing and Strategising to Reduce the Contribution of Glass Buildings in the Urban Heat Island Effect [Paper No. 348]

*Niqat Patel (Aga Khan Agency For Habitat India )*

Building design strategies to mitigate flooding disasters

[Paper No. 467]

*Dhanashri Mirajkar (D Y Patil School of Architecture, Ambi, Pune)*

Percentage Increase in Strength of a RC Column after Reinforced Concrete Jacketing

[Paper No. 488]

*Ajay Kumar Sinha (NIT Patna), Praveen Anand (NIT Patna)*

Role of Civil Engineers in Disaster Mitigation

[Paper No. 499]

*Dr.Sunil Kumar Chaudhary (Bihar State Disaster Management Authority Bihar, Patna)*

Capacity Building for Earthquake, Cyclone & Flood Resistant Construction: A Revolutionary Mitigation Approach

[Paper No. 500]

*Dr.Sunil Kumar Chaudhary (Bihar State Disaster Management Authority Bihar, Patna)*

**Thematic Session - 9.13: Earthquake Resistant Building Designs & Technology – 2 [01-02-2019; 14:00-15:15]**

**Session Chair: Prof. Rajib Shaw (UNISDR & Keio University, Japan)**

**[VMCC Room No. 12]**

Pre-Engineered Steel-Foam Concrete Composite Panels for Seismic-Resistant Low Rise Buildings

[Paper No. 170]

*Prabha P (Senior Scientist, CSIR-Structural Engineering Research Centre, CSIR Campus, Taramani, Chennai), Palani G.S (Chief Scientist, CSIR-Structural Engineering Research Centre, CSIR Campus, Taramani, Chennai), Lakshmanan N (Former Director, CSIR-Structural Engineering Research Centre, CSIR Campus, Taramani, Chennai)*

Prevention of Liquefaction Disaster Using Novel and Eco-Friendly Approach [Paper No. 225]

*Aishwarya T (IIT BOMBAY), Ashish Juneja (IIT BOMBAY)*

An Improved CSMM Based Simulation Model for Analysis of Rc Panels under Cyclic Shear Loading

[Paper No. 246]

*Vijay Kumar Polimeru (IIT Bombay), Arghadeep Laskar (IIT Bombay)*

Seismic Resilience Assessment of Code-conforming Reinforced Concrete Moment Frame Buildings

[Paper No. 428]

*Prakash S Badal (IIT Bombay), Ravi Sinha (IIT Bombay)*

Seismic Performance Evaluation of Moment Resisting Reinforced Concrete Frame Building

[Paper No. 439]

*Deepa Tomar (IIT Bombay)*

**Thematic Session - 9.14: Managing Risks of Urban Flood [01-02-2019; 14:00-15:15]**

**Session Chair: Prof. Kapil Gupta (Indian Institute of Technology Bombay, India)**

**[VMCC Room No. 13]**

A review on urban flood occurrence and flood mitigation measures [Paper No. 51]

*Pranay Pawar (Veer mata Jijabai Technological Institute), Abhaykumar Wayal (Veer mata Jijabai Technological Institute)*

Urban Flood Risk Analysis, Its Impacts and Assessment of Flood control measure [Paper No. 260]

*Mayank Kumar Singh (Visvesvarya National Institute of Technology Nagpur), Amit Deshmukh (Visvesvarya National Institute of Technology Nagpur)*

Planning of Alternative Street Routes in Urban Areas during Floods [Paper No. 322]

*Abhishek Kashyap (Indian Institute of Science, Bangalore), Debasish Ghose (Indian Institute of Science, Bangalore)*

Flood Hazard and Vulnerability Assessment of a Mega Urban Coastal City: A Case Study

[Paper No. 419]

*P.E. Zope (Indian Institute of Technolgy Bombay, Mumbai), T.I. Eldho (Indian Institute of Technolgy Bombay, Mumbai)*