



राष्ट्रीय प्रौद्योगिकी संस्थान कालिकट  
NATIONAL INSTITUTE OF TECHNOLOGY CALICUT



# PROGRAM SCHEDULE


10<sup>th</sup> - 12<sup>th</sup> March, 2022



2<sup>nd</sup> International Conference on  
**MATERIALS, MECHANICS & STRUCTURES**

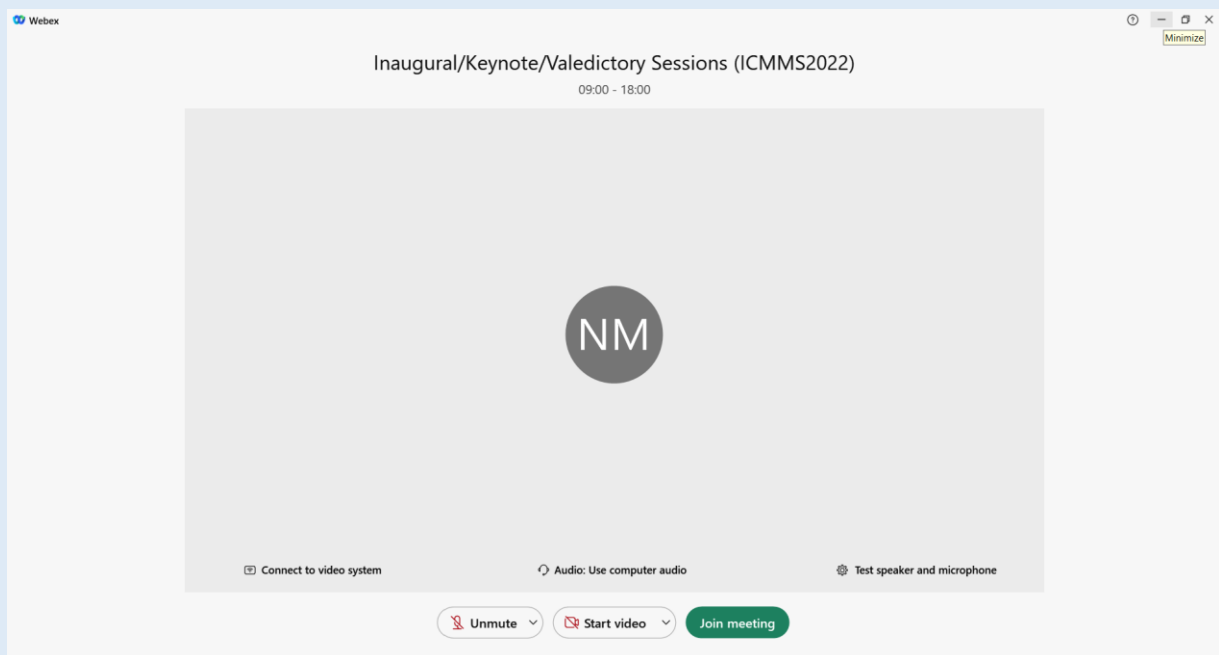


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## PROGRAM SCHEDULE

DAY 01



DATE 10/03/2022

### INAUGURAL SESSION – 09.30 Hrs to 10.15 Hrs (IST)






SESSION	SCHEDULE (IST)	ID	SESSION DETAILS
Plenary Session 1 	10.15 Hrs to 11.00 Hrs	<b>Keynote Session 01</b>	<b>Speaker: Dr. Jack W. Baker</b> <b>Title of session:</b> Performance-based engineering for simulation of regional post-earthquake recovery and resilience
Technical Paper Presentation	11.15 Hrs to 13.00 Hrs	<b>Technical Session 1 &amp; 2</b>	
<b>LUNCH BREAK – 13.00 Hrs to 14.00 Hrs</b>			
Plenary Session 2 	14.00 Hrs to 14.45 Hrs	<b>Keynote Session 02</b>	<b>Speaker: Dr. C.S. Manohar</b> <b>Title of session:</b> Bayesian methods for structural system identification: laboratory and field level investigations
	14.45 Hrs to 15.30 Hrs	<b>Keynote Session 03</b>	<b>Speaker: Dr. Roger P. West</b> <b>Title of session:</b> High strength pre-cast concrete sandwich panels for retrofitting or over-cladding
<b>BREAK – 15.30 Hrs to 15.45 Hrs</b>			
Technical Paper Presentation	15.45 Hrs to 17.30 Hrs	<b>Technical Session 3 &amp; 4</b>	

**DAY 02**
**DATE 11/03/2022**

SESSION	SCHEDULE (IST)	ID	SESSION DETAILS
Plenary Session 3 	09.30 Hrs to 10.15 Hrs	<b>Keynote Session 04</b>	<b>Speaker: Dr. Sujith Mangalathu</b> <b>Title of session:</b> Analytics-Driven Models to Support the Design and Service-Life Management of Infrastructure Systems
	10.15 Hrs to 11.00 Hrs	<b>Keynote Session 05</b>	<b>Speaker: Dr. Meher Prasad A.</b> <b>Title of session:</b> Introduction to precast concrete and experimental investigation
Technical Paper Presentation	11.15 Hrs to 13.00 Hrs	<b>Technical Session 5 &amp; 6</b>	
<b>LUNCH BREAK – 13.00 Hrs to 14.00 Hrs</b>			
Plenary Session 4 	14.00 Hrs to 14.45 Hrs	<b>Keynote Session 06</b>	<b>Speaker: Dr. N. Ganesan</b> <b>Title of session:</b> Studies on Hybrid Fibre Reinforced High Performance Concrete
	14.45 Hrs to 15.00 Hrs	<b>Keynote Session 07</b>	<b>Speaker: Dr. Sriramula Srinivas</b> <b>Title of session:</b> Reliability based safety factors for offshore wind turbines
<b>BREAK – 15.30 Hrs to 15.45 Hrs</b>			
Technical Paper Presentation	15.45 Hrs to 17.30 Hrs	<b>Technical Session 7 &amp; 8</b>	

DAY 03


DATE 12/03/2022

SESSION	SCHEDULE (IST)	ID	SESSION DETAILS
Plenary Session 5 	09.30 Hrs to 10.15 Hrs	<b>Keynote Session 08</b>	<b>Speaker: Dr. Anoop Krishnan</b> <b>Title of session:</b> Artificial Intelligence and Machine Learning for Construction Materials Modeling
	10.15 Hrs to 11.00 Hrs	<b>Keynote Session 09</b>	<b>Speaker: Dr. Pijush Samui</b> <b>Title of session:</b> Artificial Intelligence in Materials, Mechanics and Structures
Technical Paper Presentation	11.15 Hrs to 13.00 Hrs	<b>Technical Session 9 &amp; 10</b>	
<b>LUNCH BREAK – 13.00 Hrs to 14.00 Hrs</b>			
Plenary Session 6 	14.00 Hrs to 14.45 Hrs	<b>Keynote Session 10</b>	<b>Speaker: Dr. Dipti Ranjan Sahoo</b> <b>Title of session:</b> Experimental techniques for performance assessment of materials and structures.
Technical Paper Presentation	14.45 Hrs to 16.30 Hrs	<b>Technical Session 11</b>	
<b>PANEL DISCUSSION/VALEDICTORY SESSION 16.30 Hrs. to 17.00 Hrs.</b>			

## TECHNICAL PAPER PRESENTATION

**DATE**    **10/03/2022**
**TIME**    **11.15 to 13.00**

### TECHNICAL SESSION 1

<b>Theme</b> : Earthquake/Seismic Engineering <b>Meeting Number</b> : 2644 750 4826 <b>Password</b> : ICMMS2022	<b>LINK</b> 
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SCHEDULE	PAPER ID	PAPER DETAILS
11.15 Hrs to 11.30 Hrs	023	<b>Identification of the domain of significance for bidirectional analysis under seismic excitation</b> – <i>Atanu Santra*</i> , <i>Rana Roy</i>
11.30 Hrs to 11.45 Hrs	035	<b>Wavelet analysis of near-field ground motions from the MW 7.6 1999 Chi-Chi earthquake Taiwan</b> <i>Faisal Mehraj Wani*</i> , <i>Mohammed Mujtaba Moid</i> , <i>Kanigiri Chandrakanth Reddy</i> , <i>Jayaprakash Vemuri</i> , <i>Rajaram Chenna</i>
11.45 Hrs to 12.00 Hrs	050	<b>Pushover analysis of RC building frames with various pile group configuration</b> <i>Prathyusha Tenepalli*</i>
12.00 Hrs to 12.15 Hrs	059	<b>Seismic response of RCC building under column removal scenario</b> – <i>Snehal Kaushik*</i>
12.15 Hrs to 12.30 Hrs	063	<b>Investigate the effect of floating column and composite transfer beam under the influence of seismic forces</b> – <i>Amit A Kaloji*</i> , <i>Nikhil A Jambhale</i> , <i>Dr. Tejas D. Doshi</i>
12.30 Hrs to 12.45 Hrs	086	<b>Influence of bay span length on near-field seismic response of steel moment resisting frames</b> – <i>Bahubali Jayapal Kottalage</i> , <i>Muhammed Safeer Pandikkadavath*</i> , <i>Sujith Mangalathu</i>
12.45 Hrs to 13.00 Hrs	093	<b>Influence of span length on seismic mainshock – aftershock response of RC-bridges pre-exposed to scouring</b> – <i>Jithiya K. K</i> , <i>Muhammed Safeer Pandikkadavath*</i> , <i>Praveen Nagarajan</i> , <i>Sujith Mangalathu</i>

*\*Corresponding Author*



DATE 10/03/2022

TIME 11.15 to 13.00

TECHNICAL SESSION 2

Theme : Earthquake/Seismic Engineering  
 Meeting Number : 2640 253 3365  
 Password : ICMMS2022

LINK



SCHEDULE	PAPER ID	PAPER DETAILS
11.15 Hrs to 11.30 Hrs	012	<b>Use of IDA to estimate variations in drift demands of irregular RCC buildings</b> – Nidhi J. Sitapra*, Kunal P. Shukla, Dr. Tarak P. Vora, Amit J. Thoriya
11.30 Hrs to 11.45 Hrs	015	<b>Infilled steel frames subjected to seismic loads</b> – Pradeep A R*, Dr.C Rangaraj, Dr.N Jayaramappa
11.45 Hrs to 12.00 Hrs	025	<b>Consequences of sequence of motion. implications of site characteristics</b> – Arghyadeep Banerjee*, Rana Roy
12.00 Hrs to 12.15 Hrs	027	<b>Seismic performance of a RC structure exposed to high temperature</b> – Megha Mohandas*, Cinitha A, Sreejith K
12.15 Hrs to 12.30 Hrs	065	<b>Response control of base isolated structures using tuned mass dampers – A numerical study</b> Azeem M. *, Sajith A.S., P.V. Indira
12.30 Hrs to 12.45 Hrs	092	<b>Seismic performance assessment of RCS system in comparison with steel and reinforced concrete framed structure</b> – Krishna Murari *, P.C. Ashwin Kumar, Saurabh Shiradhonkar

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**DATE** 10/03/2022

**TIME** 15.45 to 17.30

**TECHNICAL SESSION 3**

**Theme** : Earthquake/Seismic Engineering, Composite Structures, Bridge Engineering  
**Meeting Number** : 2644 927 4593  
**Password** : ICMMS2022

**LINK**


SCHEDULE	PAPER ID	PAPER DETAILS
15.45 Hrs to 16.00 Hrs	020	<b>Influence of parameters on the prediction of dynamic impact factor for railway bridges: A review</b> – Kasilingam Senthil*, Divyansh Tewar, Ankur Sharma, Natraj Singh
16.00 Hrs to 16.15 Hrs	031	<b>Isogeometric analysis of composite sandwich plates using equilibrium-based stress recovery procedure.</b> – Chethan J*, G. S. Pavan
16.15 Hrs to 16.30 Hrs	055	<b>Seismic behaviour of RC building with multiple soft storey considering different soil conditions</b> – Mohammadsaheb Mujawar*, Dr. Tejas D Doshi
16.30 Hrs to 16.45 Hrs	071	<b>Investigate the effect of isolation system for RC structure under seismic forces</b> Faisal Ahmad*, Nikhil A Jambhale, Dr. Tejas D. Doshi
16.45 Hrs to 17.00 Hrs	094	<b>Non-linear finite element analysis and artificial intelligence (ANN) based predictions for RC-beam members strengthened with CFRP laminates</b> – Sagnik Mukhopadhyay*, Subhashish Roy Chowdhury

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DATE 10/03/2022

TIME 15.45 to 17.30

TECHNICAL SESSION 4

Theme : Earthquake/Seismic Engineering, Tall Structures  
 Meeting Number : 2641 273 3757  
 Password : ICMMS2022

LINK



SCHEDULE	PAPER ID	PAPER DETAILS
15.45 Hrs to 16.00 Hrs	006	<b>Time-frequency analysis of strong ground motions from the 2011 Sikkim earthquake</b> – Shalin Mathew*, Mohammed Ayub Ifan, Jayaprakash Vemuri, KVL Subramaniam
16.00 Hrs to 16.15 Hrs	013	<b>A simplified incremental dynamic analysis procedure using SAP2000</b> – Nidhi J. Sitapra
16.15 Hrs to 16.30 Hrs	026	<b>A study on the effect of tank shape on the performance of tuned liquid dampers</b> – Kiran N K, Unni Kartha G*, Neeraja Nair
16.30 Hrs to 16.45 Hrs	067	<b>Effect of vertical stepped geometric irregularity on the seismic performance of buildings</b> – Aditi Parashar, Saurabh Kumar Sharma, Bikram Paul, Kushal Ghosh*
16.45 Hrs to 17.00 Hrs	072	<b>Enhancement of lateral stability of high-rise structures adopting effective lateral load resisting systems</b> – Meghashree L, Y. K. Guru prasad*
17.00 Hrs to 17.15 Hrs	077	<b>Improving resistance towards progressive collapse of RC structures subjected to seismic loads</b> – Mohamed Saqlain C K, Y. K. Guruprasad*

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**DATE**    **11/03/2022**
**TIME**    **11.15 to 13.00**
**TECHNICAL SESSION 5**
**Theme**                : Concrete Technology  
**Meeting Number** : 2641 044 7452  
**Password**            : ICMMS2022

**LINK**


SCHEDULE	PAPER ID	PAPER DETAILS
11.15 Hrs to 11.30 Hrs	007	<b>The effect on concrete strength by partially replacing cement with brick kiln dust and fly ash</b> – <i>Dubey Saurabh*, Dr. Deepak Gupta, Dr. Mainak Mallik</i>
11.30 Hrs to 11.45 Hrs	028	<b>Durability of steel-polypropylene hybrid fiber concrete</b> – <i>Hillool Chakravarty*, Sanjeev Sinha, Vavitikalva Venkataramana, Bimal Kumar</i>
11.45 Hrs to 12.00 Hrs	036	<b>High performance mortar using alternative materials – A review</b> – <i>Vikas Kumar*, Sanjay Kumar</i>
12.00 Hrs to 12.15 Hrs	091	<b>A Critical Review on Precast Concrete. Recent Development &amp; Practices in Indian Context</b> – <i>Omkar Jadhav, Pravin R. Minde*</i>
12.15 Hrs to 12.30 Hrs	096	<b>A critical review of utilization of sugarcane bagasse ash in concrete as partial replacement to cement</b> – <i>Debadrita Das*, T. Jothi Saravanan, K.I. Syed Ahmed Kabeer, Kunal Bisht</i>
12.30 Hrs to 12.45 Hrs	100	<b>Use of super absorbent polymer with GGBS in normal concrete</b> – <i>T. J. Rajeeth *, B. M. Sagar, R. Arpitha, M. S. Shashank, Manu S. Gowda</i>
12.45 Hrs to 13.00 Hrs	101	<b>Towards enhancing properties of concrete mixed with silica</b> – <i>Adnan Khan *, Moinul Haq, Tabassum Naqvi</i>

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DATE 11/03/2022

TIME 11.15 to 13.00

TECHNICAL SESSION 6

Theme : Concrete Technology  
 Meeting Number : 2642 986 4666  
 Password : ICMMS2022

LINK



SCHEDULE	PAPER ID	PAPER DETAILS
11.15 Hrs to 11.30 Hrs	002	<b>Influence on hydration and microstructural properties of low carbon cementitious binder modified with water soluble polymer and fly ash</b> – <i>Rajesh Kumar*</i>
11.30 Hrs to 11.45 Hrs	014	<b>Evaluation of variation in parameters of reinforced concrete with the incorporation of ALCCOFINE-1203 and crimped steel fibers</b> – <i>Anshul Sharma*, and Hritick Shama</i>
11.45 Hrs to 12.00 Hrs	033	<b>Hydrophobic concrete. A review</b> – <i>Japneet Sidhu*, Pardeep Kumar</i>
12.00 Hrs to 12.15 Hrs	046	<b>Translucent concrete as a sustainable material</b> – <i>Madhulika Sinha*</i>
12.15 Hrs to 12.30 Hrs	061	<b>Potential use of clay brick dust in concrete industry. An overview</b> – <i>Abdu Salam P*, Mini Remanan</i>
12.30 Hrs to 12.45 Hrs	074	<b>Combined use of fine and coarse recycled concrete aggregates in concrete for sustainable development. A review</b> – <i>Anasuya Sahu*, Dr. Sanjay Kumar, Prof. A.K.L. Srivastava</i>
12.45 Hrs to 13.00 Hrs	099	<b>Forecasting Service Life of Concrete Structure Using Life-365 Software</b> – <i>Jayadurgalakshmi Manickam, Udhaya Kumar Thangarasu*</i>

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**DATE** 11/03/2022

**TIME** 15.45 to 17.30

**TECHNICAL SESSION 7**

**Theme** : Repair, Retrofitting and Rehabilitation, Smart Materials and Structures  
**Meeting Number** : 2644 988 4530  
**Password** : ICMMS2022

**LINK**


SCHEDULE	PAPER ID	PAPER DETAILS
15.45 Hrs to 16.00 Hrs	010	<b>A multi objective optimization framework for sustainable retrofit of Indian buildings</b> – Harshit Jain*, Albert Thomas, Tripti Singh Rajput
16.00 Hrs to 16.15 Hrs	024	<b>Structural behaviour of prestressed concrete hollow core slabs under elevated temperature</b> – Jeyashree T. M), P. R. Kannan Rajkumar*
16.15 Hrs to 16.30 Hrs	030	<b>Uncertainty quantification of structures using belief theory</b> – Sushma H Metagudda*, A S Balu
16.30 Hrs to 16.45 Hrs	073	<b>Retrofitting of RC footings subjected to settlement due to earthquake</b> – Nadeem Bilagi, Y.K. Guruprasad*
16.45 Hrs to 17.00 Hrs	075	<b>Restoration of vertical and lateral stability of a distressed RC structure adopting RC jacketing and composite structural members</b> – Rakesh A Patil, Y.K. Guruprasad*
17.00 Hrs to 17.15 Hrs	078	<b>Improved blast resistance of existing industrial building adopting global and local retrofit strategies</b> – Pratiksha U Dodamani, Y. K. Guruprasad*

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DATE 11/03/2022

TIME 15.45 to 17.30

## TECHNICAL SESSION 8

**Theme** : Construction and Building Materials, New Technologies in Structural Design & Construction

**Meeting Number** : 2641 423 2154

**Password** : ICMMS2022

LINK



SCHEDULE	PAPER ID	PAPER DETAILS
15.45 Hrs to 16.00 Hrs	017	<b>Tensile and ball indentation response of AM350 steel at room temperature</b> – S.C.S.P. Kumar Krovvidi*, J. Ganesh Kumar, Sunil Goyal, G.V. Prasad Reddy, M. Vasudevan, S. Raghupathy
16.00 Hrs to 16.15 Hrs	032	<b>Experimental investigations on the uniaxial tensile behavior of carbon textile reinforced geopolymer mortar</b> – Anjana Elsa Alexander*, A. P. Shashikala
16.15 Hrs to 16.30 Hrs	039	<b>Influence of dry lime sludge on the physico-mechanical &amp; microstructural properties of low carbon cementitious composites exposed at elevated temperature</b> – Chandra Shekhar Sharma, Rajesh Kumar*
16.30 Hrs to 16.45 Hrs	053	<b>Benefit cost analysis of 3D printed concrete building</b> – Najeeb Manhanpally*, Suman Saha
16.45 Hrs to 17.00 Hrs	081	<b>Variability in the compressive strength of paving blocks using waste plastic</b> – Jyoti Prakash Giri, Monalisa Priyadarshini*, Ruchismita Mahakhud
17.00 Hrs to 17.15 Hrs	083	<b>Durability properties of geopolymer concrete from fly ash and GGBS</b> – Srividya. T*, Kannan Rajkumar P.R.
17.15 Hrs to 17.30 Hrs	085	<b>Mechanical strength optimization of geopolymer concrete pavement blocks</b> – Debjit Mitra Roy*, Piyali Sengupta, Satadru Das Adhikary

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**DATE** 12/03/2022

**TIME** 11.15 to 13.00

**TECHNICAL SESSION 9**

**Theme** : Concrete and Masonry Structures  
**Meeting Number** : 2642 059 4569  
**Password** : ICMMS2022

**LINK**


SCHEDULE	PAPER ID	PAPER DETAILS
11.15 Hrs to 11.30 Hrs	008	<b>Numerical modelling of an unreinforced masonry wall with central window opening</b> – Ruthviz Kodali*, Faisal Mehraj Wani, Tariq Anwar Aquib, Jayaprakash Vemuri
11.30 Hrs to 11.45 Hrs	021	<b>Analytical study of reduced beam section under cyclic behavior</b> – Jafla T K *, Vishnu T Unni
11.45 Hrs to 12.00 Hrs	022	<b>Universal grey number systems for uncertainty quantification</b> – Akshay kumar*, A S Balu
12.00 Hrs to 12.15 Hrs	037	<b>Comparison study of concrete constitutive models in ABAQUS for evaluating impact force under low velocity impact loading</b> – K Senthil*, Rachit Sharma
12.15 Hrs to 12.30 Hrs	058	<b>Application of V-D strut model for analysis and design of multi-story confined masonry buildings</b> – Bonisha Borah*, Hemant B. Kaushik, Vaibhav Singhal
12.30 Hrs to 12.45 Hrs	098	<b>A short review of innovation in autonomous car in combination with mechanical and electronics</b> – Sahil Negi, Kulwant Singh*, Anuj Kumar Sehgal
12.45 Hrs to 13.00 Hrs	102	<b>Long-Span Through-Beam RCS System for Fast Construction of Industrial Buildings In Low Seismic Zones</b> – M. Adil Dar*, Abhishek Verma, Sze Dai Pang and Jat-Yuen Richard Liew

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DATE 12/03/2022

TIME 11.15 to 13.00

## TECHNICAL SESSION 10

**Theme** : Fluid-Structure Interaction, Structural Dynamics, Structural Stability, Structural Mechanics  
**Meeting Number** : 2644 954 1258  
**Password** : ICMMS2022

LINK



SCHEDULE	PAPER ID	PAPER DETAILS
11.15 Hrs to 11.30 Hrs	016	<b>Influence of geometric parameters in self-damping efficiency of rectangular liquid storage tanks</b> <i>P Nimisha*, B R Jayalekshmi, Katta Venkataramana</i>
11.30 Hrs to 11.45 Hrs	018	<b>Numerical simulation for design improvement in diffuser of multistage centrifugal pump</b> – <i>Bhushan R. Rode*, Ruchi Khare</i>
11.45 Hrs to 12.00 Hrs	048	<b>Effect of cyclic pressure on sealing behaviour of spiral wound gasket in flange joint</b> – <i>N. Rino Nelson</i>
12.00 Hrs to 12.15 Hrs	066	<b>Response of dynamic wind load on high rise building supported on raft and piled raft foundation using different outrigger system</b> – <i>Kiran A Mayacharya*, Dr. Tejas D. Doshi, Dr. V. D. Gundakalle</i>
12.15 Hrs to 12.30 Hrs	080	<b>Investigations with blast wave simulators</b> – <i>Kaviarasu Kannan*, Shyam Sundar, Alagappan Ponnalagu</i>
12.30 Hrs to 12.45 Hrs	082	<b>The overview and application of generalised beam theory in buckling analysis of thin-walled structures</b> – <i>Aparna Baburaj*, Vijaya Vengadesh Kumar Jeyapragasam</i>
12.45 Hrs to 13.00 Hrs	097	<b>A Porous Metal Constitutive Model Applicable for Wide Range of Stress Triaxialities</b> – <i>Suranjit Kumar*, M. K. Sama, P. K. Singh, J. Chattopadhyay</i>

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**DATE** 12/03/2022

**TIME** 14.45 to 16.30

**TECHNICAL SESSION 11**

**Theme** : Performance-Based Design, Underground Structures, Geotechnical engineering  
**Meeting Number** : 2641 000 2096  
**Password** : ICMMS2022

**LINK**


SCHEDULE	PAPER ID	PAPER DETAILS
14.45 Hrs to 15.00 Hrs	003	<b>Montmorillonite content of expansive soils and its relationship with swelling and consistency properties</b> – P. Sreekanth Reddy*, Bijayananda Mohanty, B. Hanumantha Rao
15.00 Hrs to 15.15 Hrs	005	<b>Computational modelling of wind flow in an urban environment. A case study Navi Mumbai</b> – Vigneshwaran Rajendran*, Sivasubramanian J
15.15 Hrs to 15.30 Hrs	034	<b>Numerical analysis of geosynthetic reinforced soil wall using fly ash as backfill material under dynamic loading</b> – Kunjan Saikia*, Shantanu Patra
15.30 Hrs to 15.45 Hrs	052	<b>Monitoring loading effects of construction steel structure using piezo transducer for electro-mechanical impedance techniques</b> – Lukesh Parida *, Sumedha Moharana
15.45 Hrs to 16.00 Hrs	076	<b>Experimental And Numerical Studies on The Effect of Built-In Gradient on Rigid Pavements</b> – Priya Grace Itti Eipe*, Nazeer M, Reebu Zachariah Koshy
16.00 Hrs to 16.15 Hrs	087	<b>Engineering behaviour of glaciolacustrine varved clays. A review</b> – Deepali Anand*, Arindam Dey, Ravi K
16.15 Hrs to 16.30 Hrs	090	<b>Construction methodology and challenges of self-drilled micro-pile foundation</b> – Suhas Tayade*, Yogeshwar Navandar

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## Organizing Secretaries

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**Dr. Muhamed Safer P.**  
Assistant Professor  
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1961 - 2022

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