



Schedule For IMMM 2017



INAUGURATION

Venue For Conference- College Of Engineering, Trivandrum

Day 1, July 13,2017 Inaugural Function

8.30 am -9.30 am	Registration Venue : Seminar Hall 3, Room No: A 117 (Ground Floor, Main Building) – Dept. of Mechanical Engineering
9.30 am -11.00 am	Inauguration and keynote address : Dr. Unnikrishnan Nair, Prof. IIMK Venue : CETAA Hall
11 am -11.30 am	Tea Break
11.30 am – 12:30 pm Venue :CE Seminar Hall 2	Er. Jose Kurian Team Leader, CDM Smith India, consultant to Govt. of Kerala Topic : Standardisation and its impact on the Society
12:30 pm – 01:30 pm	Lunch 1st floor, Diamond Jubilee Hall
1.30 pm – 2.15 pm Venue :CE Seminar Hall 2	Prof. G. V. Rao, Former Professor and Head Cept of Civil Engg. IIT Delhi Topic : Geosynthetics for Pavements

Day 1, 13 July 2017, Thursday

Session 01/a (Parallel Sessions)
Venue: CE Seminar Hall 1
Time : 02.30 pm – 04:30 pm
Chair 1: Dr. R. Ramesh Kumar
Chair 2: Dr.Jiji Anna Varghese
Session Manager: Dr. Deepa Raj

STRUCTURAL ENGINEERING

<i>Code</i>	<i>Title</i>	<i>Author(s)</i>
47	Effect of Natural Rubber Latex in Concrete With CEtakaolin Admixture	Nibin Gafoor M Dr.Beena P R
60	Bond Strength of Coconut Shell Aggregate Concrete by Pull Out test	Sujatha A Yashida Nadir
68	Shear Flexural Behaviour of High Strength Concrete Beams	Anjana A Chandran Dr Girija K
71	Effect of Notch-Depth Ratio On Fracture Properties of Light Weight Self Compacting Concrete Beams	Ansu Anna Abraham Jayaprakash Jain K.G.
88	Effect Of Fine Aggregate on Shear Fracture Parameters of High Strength Concrete	Jayasree K V Safeer K P Prof . Prebhakumari K S
96	Effect of outrigger on seismic performance of Tall Buildings	Nayana Benny Saji K P
98	Buckling Analysis of Functionally Graded Plate Using Higher Order Shear Deformation Theory	Swathikrishna S Dr. Beena K. P.
118	Foamed Concrete using Waste Materials -A Review	Sajan Jose Dr.Mini Soman Dr. Sheela Evangeline Y.
124	Experimental Investigations on Concrete with Cement Partially Replaced With Water Treatment Plant Sludge	Riju V Prof.Jiji Jacob
17	Structural performance of HFRC Beams strengthened using GFRP	Ayswarya K.S
06:30 pm – 09:30 pm	Grand Gala Dinner, Hotel Residency Tower, Statue Jn, Thiruvananthapuram	

Day 1, 13 July 2017, Thursday (Parallel Sessions)

Session 01/b
Venue: CE Seminar Hall 2
Time : 02.30 pm – 04:30 pm
Chair 1: Dr. G V Rao
Chair 2: Dr. Satyakumar M
Session Manager: Prof. Sayida M K

GEOTECHNICAL AND TRANSPORTATION ENGINEERING

<i>Code</i>	<i>Title</i>	<i>Author(s)</i>
9	Prioritisation of Low Volume Roads using Fuzzy Multi Criteria Decision Making	Susan Rose, Binu Sara Mathew and Kuncheria Isaac
41	Investigation on Effects of Nano Particles on Performance Of HMA Mix	Shaz F and Dr.Loui T R
45	Level of Compliance of Seat Belt usage in Selected Cities of Kerala	Sanjay Kumar V S Suby Charles Wilson K C
77	Feasibility Analysis for Waterway Development – A Case Study of Canals in Thrissur, Kerala	Sabitha N M, Sreedevi B G and Sanjay Kumar V S
89	Level of Service of Urban Roads Based on User Perception	Aparna V and Salini S
100	Identification of Critical Inter Arrival Time at Signalized Intersections	Praveen P S and Ashalatha R
138	Durability Study on Coir Geotextiles Embedded in Different Pavement Conditions	Akhila Vijayan Sheela Evangeline Y. Ajin Krishna
148	Effect of coir geotextiles under eccentric loading conditions in cohesive soil	Kavya M S Dr K Balan
163	Study on the coir geotextile reinforced flexible pavements using DCP	Jayachandran M. C., Sheela Evangeline Y., G .V. Rao, Sayida M. K. and Akhila Vijayan
79	A study on surrogate measures of safety and their application in mixed traffic conditions	Anna Charly Tom Mathew

06:30 pm – 09:30 pm

Grand Gala Dinner, Hotel Residency Tower, Statue Jn, Thiruvananthapuram

Day 2, July 14, 2017, Friday (Parallel Sessions)

Session 02/a
 Venue: CE Seminar Hall 1
 Time : 9:30 am-10:30 am
 Chair 1: Dr. Gopu R. Potty
 Chair 2: Dr. Wilbert R.
 Session Manager: Dr. Shibu A

HYDRAULICS ENGINEERING

<i>Code</i>	<i>Title</i>	<i>Author(s)</i>
5	Comparison of statistical downscaling techniques for rainfall prediction	Jany George Letha J and Jairaj Pg
23	RIVER TRAINING –A CASE STUDY	Pallavur Krishnamurthy Suresh, V Ponraj and Chandran Prabakar
76	Analysis of Trend of Precipitation Data: A Case Study of Tiruchirappalli City, Tamil Nadu	Surendar Natarajan and Nisha Radhakrishnan
158	Developing Drought Severity-Duration-Frequency Curves for Kerala, India Using Bivariate Copulas	Adarsh S, Karthik S, Shyma M, Prem G Das, Shirin Parveen At and Sruthy Narayan
169	Downscaling of precipitation for Bharathapuzha river basin in Kerala	Lini R Chandran and Jairaj P G

10.30 am -10.45am

Tea Break

PLENARY LECTURE

10.45-11.30 am

Dr. Gopu R. Potty, University of Rhode Island, Narragansett, RI 02879 USA
gpotty@uri.edu

Topic: Remote Sensing using Surface Wave Techniques

12:30 pm- 02:00 pm

Lunch
 Diamond Jubilee Hall

Day 2, July 14, 2017, Friday

Session 02/b
Venue: CE Seminar Hall 2
TiCE : 9:30 am-10:30 am
Chair 1: Dr. P. Vinod
Chair 2: Dr. N. Unnikrishnan
Session Manager: Dr. Bindu J.

GEOENVIRONMENTAL ENGINEERING -1

<i>Code</i>	<i>Title</i>	<i>Author(s)</i>
3	Geotechnical Utilisation of Biosolids in Trivandrum; A Feasibility Study	Sajna S Ajitha B Bhaskar Kannan K
72	Design of Amended Marine Clay Liner	Meenu S Nair Ajitha A R Dr. Chandrakaran S Dr. Sheela Evageline Y.
103	Utilization of waste from KMML as landfill liner	Neha Joy and Aswathy Sasikumar
105	Cracking Behaviour Of Amended Clay Liners Under Different Environmental Conditions	Neethu K, Ajitha A R Dr. Sheela Evageline Y.
10.30 am - 10.45am	Tea Break	
PLENARY LECTURE		
10.45-11.30 am	Dr. Gopu R. Potty, University of Rhode Island, Narragansett, RI 02879 USA gpotty@uri.edu Topic: Remote Sensing using Surface Wave Techniques	

Day 2, July 14, 2017, Friday

Session 03/b

Venue: CE Seminar Hall 2

TiCE : 11:30 am-12:30 pm

Chair 1: Dr. Syam Prakash

Chair 2: Dr. Sheela S.

Session Manager: Dr. Deeparaj S.

STRUCTURAL ENGINEERING 2

<i>Code</i>	<i>Title</i>	<i>Author(s)</i>
104	Cyclic Behavior Of Hybrid Fibre Reinforced Concrete Column	Abhijith N Vijayan Sunitha S
135	Analytical Investigation On Effect Of Shear Friction. A Critical Issue In Accelerated Construction Of Smart Bridge Superstructures	Geetha M P Girija K
146	Numerical Study On The Effect Of Near-Field Blast Explosion On RCC Columns	Ann M Biju, AthulyaSreesa E K, DevikaRemesh, Rinsa K and Anusree A
155	Rehabilitation Of RC Short Columns Using Ferrocement Jacketing	Jebin Mohan Dr. Mini Soman
156	Development Of Foamed Concrete Building Blocks Using Quarry Dust	Mini Soman, Revathy Ks, Milan Thottathil, Rahul Ar, Jose Joseph and Aparna Vs
12:30 pm- 02:00 pm	Lunch Diamond Jubilee Hall	

Day 2, July 14, 2017, Friday

GEOTECHNICAL ENGINEERING 2

Session 03/a

Venue: CE Seminar Hall 1

TiCE : 11:30 am-12:30 pm

Chair 1: Dr. Jimmy Thomas

Chair 2: Er. Venkatraman

Session Manager: Prof Ajitha A R

<i>Code</i>	<i>Title</i>	<i>Author(s)</i>
61	Effect Of Addition Of 3d Inclusions On Bearing Capacity Of Soil	Hema M Dr Unnikrishnan N
85	Investigation Of The Behaviour Of Coir Geocell-Anchorage System Under Static Loading	Aswathi Menon , Dr. M. S. Girish
82	Prestressed Reinforced Soil By Coir Geotextiles	Parvathi K, Dr. P. K. Jayasree
132	Geotechnical Application Of An Industrial Waste Stabilized Using Coir Fiber And Cement	V S Sarath, Dr. K.Balan
70	Influence of Inclined Lateral Load on Uplift Behaviour of Pile Group	Shibina Kannolimal , Dr. Ajitha B. Bhaskar
12:30 pm- 01:30 pm		Lunch Diamond Jubilee Hall

Day 2, July 14, 2017, Friday

GEOTECHNICAL ENGINEERING 3

Session 04/a

Venue: CE Seminar Hall 1

TiCE : 2:30 pm-3:30 pm

Chair 1: Dr. Mariamma Joseph

Chair 2: Dr. Jayamohan J.

Session Manager: Prof. Manju G.S.

Code	Title	Author(s)
58	Bio-enzyme Stabilisation of Kaolinitic Clay	Elsa Joseph Sayida M. K.
90	Model studies on footing in sand fills over soft clay and inclusion of skirts	Neelima P Bindu J
97	Effect of coarse grained cushion on the behavior of pile draft foundation	Aswathy Ramesh Bindu J
99	Strength development and carbon footprint evaluation of kaolinite clay stabilized by fly ash geopolymer	Padmakumar C Jayasree P K Leema Peter Sabith K
165	Effect of fin shape on the behavior of Piles under Combined Loading conditions	Rekha Ambi Jayasree P.K. Unnikrishnan N.
175	Static Pile Load Test Inversion	Gopu R Potty Aron Bradshaw Suresh S Krishnankumar U
180	Study on Flyash Stabilized Dredged Material from Koyilandy Harbour	Jaya V
181	Land Use or land cover (LU/LC) Changes of Killiar River Basin, Thiruvananthapuram, Kerala, India : A Geospatial Approach	Sabu Joseph Rahul R Sukanya S
50	Studies on Reed Bamboo as Micropile	Nithya S

Day 2, July 14, 2017, Friday

PLENARY LECTURE

1.30-2.15 Pm

Er. M. Venkataraman Geosynthetics & Geotechnical Consultant

Topic: River and Coastal protection using Geosynthetics for Indian Environment

GEOENVIRONMENTAL ENGINEERING 2

Session 04/b

Venue: CE Seminar Hall 2

Time : 2:30 pm-3:30 pm

Chair 1: Dr. K.Balan

Chair 2: Dr. Usha Thomas

Session Manager: Prof. Sayida M.K.

<i>Code</i>	<i>Title</i>	<i>Author(s)</i>
6	Stabilisation of Marine clays by MICP: Optimum Reagent Concentration and Treatment Duration	Kannan K .
11	Effect of Particle Size and Confining Pressure on Shear Strength Parameter of Alluvial Rockfill Material	Nimbanna Honkanadavar, Sandeep Dhanote and Sanjeev Bajaj
19	Effect of Lime Stabilization on Quarry Muck	S R Fathim Shan, Kiran Anand, Aiswarya Nair G M, Hareeth S Nair and K Balan
28	Effect of Salt Content on the Engineering Properties of Bentonite	Uddayan Pratap Singh and Rakesh Kumar Dutta
36	Experimental Study on the Mechanical Properties of Limestone Following High Temperature Preparation	Aali Pant Narendra Kumar Samadhiya
37	Prediction of leakage rate through the composite liner due to geomembrane defect using artificial neural network	Suman Kumari and Rakesh Kumar Dutta
42	Biocementation of Soil supplemented with Eggshell and Sporosarcina pasteurii	Bindu J, Aishwarya Shaji, Neethu M.V, Snehapoornima P.V, Thasleema P, Vijimol V and Kannan K
46	A framework for prediction of compaction parameters in standard Proctor tests	N Sreelekshmy Pillai G Vinod P

Day 3 ,July 14,2017, Saturday

Venue: CE Seminar Hall 2	09:30 am- 9:50 am	Plenary Lecture by Er. Amruth Chand, M/s Mecafferri India Pvt. Ltd. Senior Lecturer Mechanical Engineering, Curtin University, Malaysia Topic: Mixed Convection and Surface Radiation Heat transfer in thermal-energy conversion devices
	09.50-10.20 am	Dr. P.K Suresh, Principal, Meenakshi Sundararajan College of Engineering Topic : Hydraulic Modelling for coastal protection structure

ENVIRONMENTAL ENGINEERING

Session 05/b
Venue: CE Seminar Hall 2
TiCE : 10:30 am-12.45 pm
Chair 1: Dr. Jasmine I.
Chair 2: Dr. George K. Varghese
Session Manager: Dr.Lea Mathew

<i>Code</i>	<i>Title</i>	<i>Author(s)</i>
7	Depletion of Ground Water Quality in Disposal Sites of Salem, Tamilnadu	U Indirapriyadharshini,R Santhosh Kumar andS Venkatesan
25	Biogas Generation from Domestic Waste Along With Carbon Sequestration	Malini Gayathri, Kishan Kumar, Lisanth Krishnan and Ranjith Kumar
69	Evaluation of Thermal Comfort of a Green Building During Post Monsoon Season and Winter Season: A Comparative Study	Theres Charly and Shibu K
80	Permeability study of modified forms of sewage sludge suitable for temporary landfill cover material	Vinitha V N Latha P Dr. Jaya V
81	Removal of Zinc And Copper From Aqueous Media Using Iron Nanoparticles	Anuranjana Jaya Jg and Vijayan N
83	REMOVAL OF ANIONIC SURFACTANT FROM WASTE WATER USING IMMOBILISED PSEUDOMONAS SP.	A S Lekshmisree
86	Prediction of Vehicular Exhaust Emission for Thiruvananthapuram City	Reshma S Kumar and Swarnalatha K
164	Polysulfone chitosan membrane for the removal of nitrate and phosphate from fertilizer wastes	Krishnaveni S and Dr. Meera V
128	Electrocoagulation and Electrodeionization process for daily wastewater treatment using copper electrode.	Gopika G L K Mophin Kani
74	Development of clay-glass-sand blended light weight aggregate using sewage sludge as filler	Sujith V Kuruvila Sumi S Swarnalatha K
03:00 pm – 04:30	Valedictory Function Talk by Dr. Suresh Das Executive Vice President, KSCSTE & Principal Secretary S & T Dept	