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International Events

Precast in Mass Construction of Real Estate & Infrastructure Projects | 18 September 2021

ASCE India Section Western Region (ASCE IS WR) in association with the Builders' Association of India (BAI) jointly organized a Webinar on Precast in Mass Construction of Real Estate & Infrastructure Projects on 18th September 2021.

The moderator of the program welcomed the patron of the event – **Dr. K. N. Gunalan**, Past President, ASCE 2020, Convenors – **Dr. Anand Gupta**, BAI, and **Er. Ravindra J. Ringshia**, President, ASCE IS WR to deliver their welcome address. **Dr. Elias B. Sayah**, Region 10 Director, ASCE graced the occasion with his presence. A technical talk of the virtual webinar was delivered by **Dr. Mustafa Mashal, Ph.D., P.E., M.ASCE**, Professor, Idaho State University.



Key Takeaways:

1. Elaborated on the definition of precast concrete according to the **American Concrete Institute (ACI)** in comparison with concrete supported with illustrations of precast concreting yards in USA
2. Role of high strength concrete in casting precast concrete and its benefits was explained and introduced to the **Precast/Prestressed Concrete Institute (PCI)**
3. Explained about several precast elements & illustrated sample precast connections
4. Presented the images of some of the recent structural products of total precast offices proving that it can be architectural & structural
5. Defined the High Performance Structure, High Performance Precast, its attributes and benefits to the participants

Webinar
Precast in Mass Construction of Real Estate and Infrastructure Projects
 Saturday September 18, 2021 - 1800 hr onwards (IST) on Zoom



Er. Ravindra J Ringshia
 ME-Civil, USA
 President, ASCE-ISWR
 Past Secretary, ASCE- ISWR
 Past Secretary, ASCE-India Section
 Past Treasurer, ASCE-ISWR
 Past Treasurer, ASCE-WIIG

Let's Start

Webinar
Precast in Mass Construction of Real Estate and Infrastructure Projects
 Saturday September 18, 2021 - 1800 hr onwards (IST) on Zoom



DR. ELIAS B. SAYAH, UAE
 Region 10 Director, ASCE
 President and CEO-sayah engineering mena, Abu Dabhi, UAE.

Webinar
Precast in Mass Construction of Real Estate and Infrastructure Projects
 Saturday September 18, 2021 - 1800 hr onwards (IST) on Zoom



Dr. Kanchipuram N Gunalan (Guna)
 Ph.D., P.E., D.GE, F.ASCE
 Immed. Past President, ASCE (2020)
 Chair ASCE's Global Engineering Conference in Panama City (2014)
 Director, ASCE-Region 8 (2009-2012)
 Governor, ASCE-Region 8 (2005-2007)
 President, ASCE-Utah Section (2002-2003)
 President, ASCE-Texas Section High Plains Branch (1992)

Precast Products in the United States

Precast/Prestressed Concrete Institute (PCI)
 • Above the ground precast products (<https://www.pci.org/>)

Glimpses from the inaugural session

International Events

International Webinar Series on Structural & Geo-Confluence | 5 November 2021

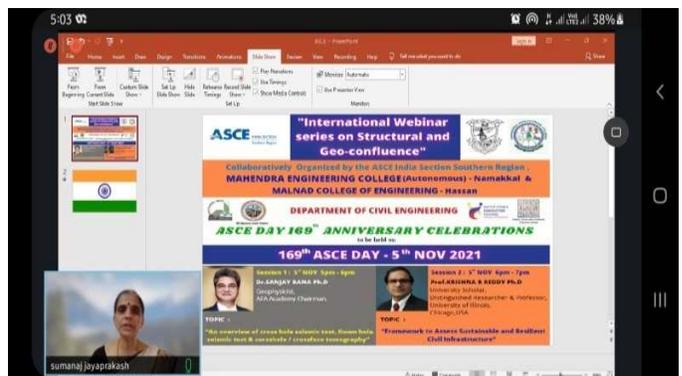
ASCE India Section Southern Region in association with the Department of Civil Engineering, **Mahendra Engineering College, Namakkal**, & **Malnad College of Engineering, Hassan** jointly organized the **International Webinar Series on Structural and Geo-Confluence** on the 169th ASCE Day – 5th November 2021 as a part of the ASCE Day Anniversary Celebrations. The International Webinar Series was a fortnightly three-days event supported by various professional bodies including **Indian Geotechnical Society – Hyderabad Chapter**, **Institution of Engineers (India) – Mysore Local Centre**, **Institution’s Innovation Council**, and **Indian Concrete Institute, Chennai Centre**.

This virtual webinar emphasized on seismic prediction methods and its related test was discussed, the field test like cross hole seismic test, down hole seismic test & crosshole / cross face tomography are explained in a significant way. The sustainable resilient structure is described in noteworthy way. The innovative resilient materials for the seismic resistance are discussed in this international webinar. The National and International experts contributed their knowledge in a remarkable manner. This session is a eye-opening for the researchers and academicians.

The welcome address was delivered by **Dr. R. V. Mahendra Gowda**, Principal, Mahendra Engineering College, Namakkal. **Dr. R. Samson Ravindran**, Executive Director, Mahendra Educational Institutions & **Dr. A. J. Krishnaiah**, Professor & Head, CED, MCE Hassan felicitated the gathering. The international virtual webinar was inaugurated and presented the profile of Guest of Honor - **Dr. Samadhiya Narendra Kumar** Professor of Geotechnical Engineering by **Er. Narsimha Chary Poloju**, President, ASCE IS SR. The vote of thanks given by **Dr. K. Vidhya**, Professor & Head, Department of Civil Engineering, Mahendra Engineering College.

Dr. S. Narendra Kumar, Ph.D.
Professor, IIT Roorkee

Shared his views related to soil structure interaction & its importance for the sustainable manner & also came up with soil testing methods & its applications for predicting the seismic propagation



Glimpses from the inaugural session

International Events

International Webinar Series on Structural & Geo-Confluence | 5 November 2021

Session 1: Dr. Sanjay Rana, Ph.D.

Topic: “An overview of cross hole seismic test, Down hole seismic test & crosshole / crossface tomography”

Key Takeaways:

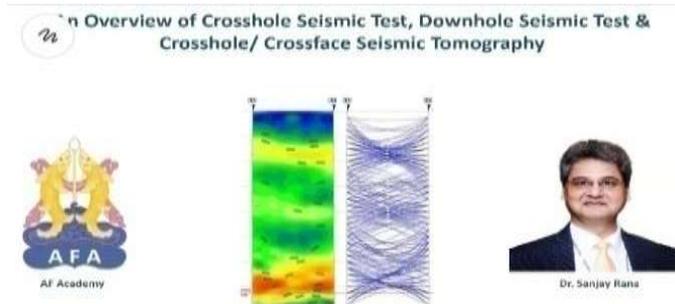
1. Geophysical methods are the modern methods to study the nature of geological conditions of the particular area; Professor explained the principles behind the geophysical system for plotting the Sub-surface stratification
2. Delineate the underground conditions by adopting the various seismic refraction studies are also discussed in this forum
3. Transferred the knowledge in the field of different testing procedures like cross hole seismic and down hole seismic methods
4. Case study discussions are very helpful for the researchers to understand the seismic generation in the several rock strata

Session 2: Prof. Krishna R. Reddy, Ph.D.

Topic: “Framework to Assess Sustainable and Resilient Civil Infrastructure”

Key Takeaways:

1. The concepts on resilient structure are talk through in this webinar
2. The several resilient materials for resisting the seismic shocks have been contributed to the participants
3. Elaborated the geothermal systems for the buildings for the comfort dwelling
4. Waste management issues and minimizing the land contaminations are also elucidated in this international series



Glimpses from the technical session

International Events

International Webinar Series on Structural & Geo-Confluence | 19 November 2021

ASCE India Section Southern Region in association with the Department of Civil Engineering, **Mahendra Engineering College, Namakkal, & Malnad College of Engineering, Hassan** jointly organized the first fortnight of the **International Webinar Series on Structural and Geo-Confluence** on 19th November 2021.

The virtual webinar focused on the innovations and technologies in the domain of fire resistant structures and the liquefied zones identified using the global map. The session illuminates on the experimental approaches for the fire resistant on buildings. The liquefaction-induced lateral spread displacements are delineated. The expert shed some lights on prediction of lateral displacements induced by liquefaction. The paramount professional’s from globally shared their multi-skilled & life experiences with all the participants.

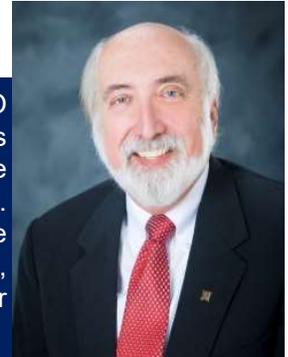
An international webinar was welcomed by **Dr. R. V. Mahendra Gowda**, Principal, Mahendra Engineering College, Namakkal. **Dr. R. Samson Ravindran**, Executive Director, Mahendra Educational Institutions & **Dr. A. J. Krishnaiah**, Professor and Head, Civil Engineering Department, Malnad College of Engineering felicitated the gathering. The international virtual webinar was inaugurated & presented the profile of Guest of Honor - **Dr. Dennis D. Truax Ph.D**, ASCE President 2022 by the President of ASCE IS SR **Er. Narsimha Chary Poloju**. The vote of thanks given by **Dr. K. Vidhya**, Professor & Head, Department of Civil Engineering, Mahendra Engineering College.

Session 1: Mr. Kevin LaMalwa, P.E, F.ASCE
Topic: “Designing for intrinsic structural fire Safety”

Key Takeaways:

1. The fire resistant to the structural element are discussed in a interesting way, the structural behavior of fire exposed also highlighted in this session

Dr. Dennis D. Truax, Ph.D.
 President, ASCE 2022



Emphasized on “EDUCATE TO BE INNOVATORS” Managers for risk & uncertainty, we have to design our infrastructures. The code for tomorrow like society, peers, environment, profession and clients or employers



Glimpses from the inaugural session

International Events

International Webinar Series on Structural & Geo-Confluence | 19 November 2021

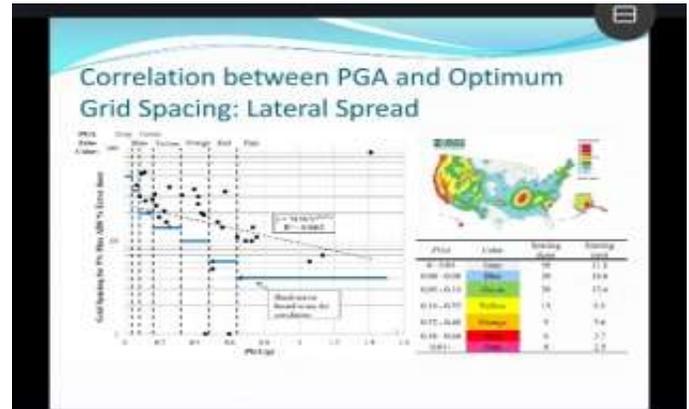
2. Novel approaches like purely fire proofing materials and its characteristics of the materials are explained in a captivating way
3. Demonstrated the fire vulnerability to the structural elements and the estimation of the compression and tension members' action
4. Designing the structural element by incorporating the fire resistant concepts and also to account the floor expansions methodology.

Session 2: Dr. Kevin W. Franke, Ph.D., P.E., M.ASCE

Topic: “A National Framework for Predicting Performance-based estimate of Liquefaction-Induced Lateral Spread Displacements”

Key Takeaways:

1. The lateral spread displacements due to liquefaction are discussed in this international webinar; speaker explains the national frame work for prediction of lateral spread displacements in global manner
2. The different testing methods on the soil shear strength parameters are discussed here, from this analysis the prediction of displacements are discovered
3. The mathematical modeling for prediction of soil displacements due to liquefaction, are elucidated
4. Delineation the global map distribution for prediction of liquefied zone and lateral displacement of soil



Glimpses from the technical sessions

International Events

International Webinar Series on Structural & Geo-Confluence | 03 December 2021

The second fortnight of the **International Webinar Series on Structural and Geo-Confluence** organized by ASCE IS SR in association with the Department of Civil Engineering, Mahendra Engineering College, Namakkal, Tamilnadu and Malnad College of Engineering, Hassan was held on 03rd December 2021.

The Presidential address was delivered by **R. V. Mahendra Gowda** (Principal, MEC Namakkal) and the opening address by **Prof. S. B. Devaraj** (Associate Professor, Civil Engineering Department, MCE Hassan). The welcome address was delivered by **Dr. Bharathi Ganesh**, Secretary ASCE IS SR, followed by the introduction of the distinguished Special Guest of the Program – **Dr. Sushil Kumar Dhawan**, the former Chief Engineer of Central Public Works Department, Government of India.

The event witnessed nearly **200 participants** including students, research scholars, faculty members of academic institutions, and industry personnel throughout the Globe.

Technical Session: Dr. Ramancharla Pradeep Kumar, Registrar of IIT Hyderabad and also the Head of Earthquake Engineering Research Centre

Topic: “Earthquake Disaster Risk Index - To forecast the relative earthquake risk within a city and across cities”

Key Takeaways:

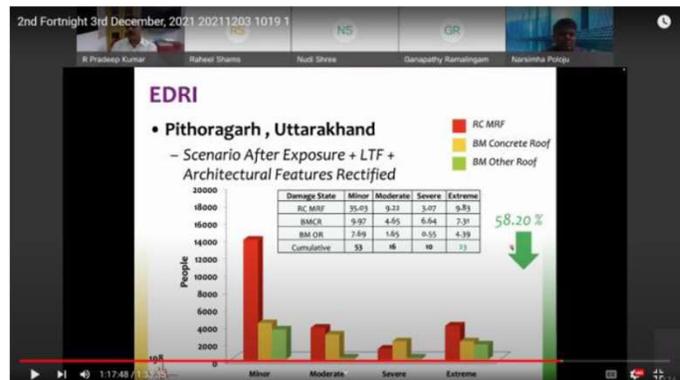
1. Narrated a comparison between the evolution of the World’s & India’s best practices in housing safety over past years urging for the need for following the standards
2. Elaborated on the role of people, process and products to achieve earthquake safety by highlighting the different levels of earthquake safety assessments
3. Explained the step-by-step procedure for the telescopic method followed for disaster risk indexing and its estimation

Dr. Sushil Kumar Dhawan PhD
Former Chief Engineer, CPWD

Outlined the importance and need for sustainable solutions to overcome the challenges of current world including global warming and climate change



4. Explained the methodology for estimating design base shear on buildings
5. Demonstrated the Earthquake Disaster Risk Index estimation based on case studies from Bhuj, Gujarat and Pithoragarh, Uttarakhand through assignment of scores for various factors
6. Discussed major observations including possible solutions for new structures and options of retrofitting for old structures



Glimpses from the technical session

Other Events

Faculty Development Programme on “Recent trends in design, construction and maintenance of concrete pavements” | 5 – 9 July 2021

A five-day Faculty Development Program (FDP) was organized by **Mar Baselios College of Engineering & Technology, Trivandrum, Kerala**, sponsored by **APJ Abdul Kalam Technological University**. The FDP was inaugurated by **Dr. Abraham T Mathew** (Principal, MBCET) in the august presence of **Rev. Fr. John Vilayil** (Bursar MBCET), **Dr. A Veeraragavan** (Professor, IIT Madras), **Dr. J Murali Krishnan** (Professor, IIT Madras), **Dr. Samson Mathew** (Director, NATPAC), **Dr. M Satyakumar** (Prof. TE Division, Dept. of CE), **Dr. Jayasree S** (Head of the Department), industry representatives, faculty from other KTU affiliated institutions and other dignitaries.

The FDP was coordinated by **Dr. Neethu Roy** (Faculty Advisor, ASCE MBCET Student Chapter; Dean (R&C), MBCET) and **Ms. Anupama Krishnan** (Assistant Professor, Dept. of CE, MBCET). The FDP focused on topics related to material characterization, analysis & design, construction, maintenance, & rehabilitation of sustainable concrete pavements. Special attention was given to incorporate the state of art practices in the concrete pavement sector & also the recent developments in concrete pavement technology. The highlight of the FDP was the keynote lectures by eminent speakers from IIT's NIT's and industry.

Day 1: Four sessions were conducted on Introduction, Material Characterization, Mix design and analysis of CC pavements

Key Takeaways

1. Importance of CC pavements and the need for life cycle assessment for sustainable road construction.
2. Material characterization for concrete pavement under various design guidelines such as M-EPDG, AASHTO, PCA and IRC



Glimpses from the inaugural session

3. Measurement of resilient modulus for soils, modulus for concrete, and coefficient of thermal expansion – the significance of the test procedures and the associated issues.
4. Analysis of CC pavement, stress analysis, curling theory, derivation of the fundamental equations for analysis of pavement structure, fundamental aspects of slab bending, curling, etc., and analysis of slabs by using finite element formulation

Day 2: Topics delivered were design of sustainable concrete pavements and CC pavements for low-volume roads and Slip-form pavers for construction of concrete pavements and fibre reinforced concrete pavements.

Key Takeaways

1. Design of FRC pavements with IRC-58 and use of standard templates in Microsoft Excel for the design computations.
2. Strategies for the sustainability of rigid pavements and the potential of fibre reinforced concrete as a solution for the same.

Other Events

Day 3: The topics covered include, Evaluation and Rehabilitation of CC pavements, Sustainable Roller Compacted Concrete Pavements (RCCP) and QA and QC for concrete pavements.

Key Takeaways

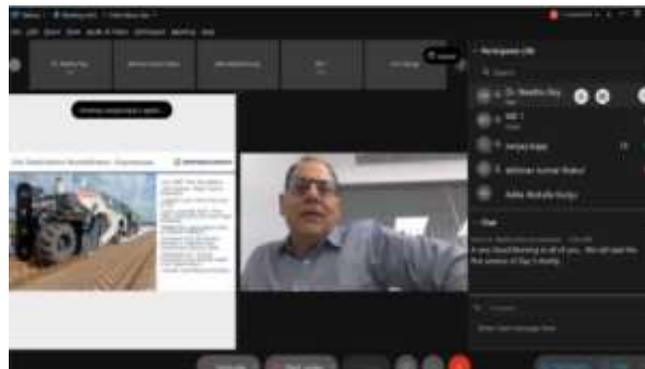
1. Detailed steps to make sustainable roller compacted concrete pavements.
2. Standard operating procedures for quality control of CC pavement and various aspects of pavement evaluation.

Day 4: Mr. Lokesh T R, Mr. Rajib Chattaraj, Dr. Sonparote and Dr. Anush Chandrappa transferred their knowledge on White-topping construction and quality control, Short panelled concrete and interlocked concrete paver blocks, Pre-cast Concrete pavements and Pervious concrete pavements

Key Takeaways

1. Behavioral mechanism of White-topping, quality control tests, mix design details, plant site, and mix production.
2. The present advancements in precast construction in big infrastructure projects.
3. Pervious concrete mix design, construction practices, and benefits.

The FDP was benefited by representatives from industry, students, and faculties. The FDP indeed broadened the outlook and knowledge on concrete pavements.



Glimpses from the technical session

Day 5: Sessions were on Cement treated base and sub-base for concrete pavements, Construction of concrete pavement at Shiradi Ghat, Use of recycled aggregates in concrete mixes for CC pavements and Evaluation

Key Takeaways

1. Practical knowledge and understanding the various real-time issues in the construction of pavements at a Ghat region and its solutions
2. Recycled aggregates as sustainable materials in road construction.

Other Events

AICTE – ISTE sponsored Induction / Refresher Program on “Pollution Control and Remediation – A Geo Environmental Approach” | 29 December 2021 - 04 January 2022

The induction / refresher program for faculty members of all technical institutions in India was sponsored by the **All India Council for Technical Education (AICTE)** through **Indian Society of Technical Education (ISTE)** and was organized by the Department of Civil Engineering, Malnad College of Engineering, Hassan.

The six-days program was inaugurated by the invited Guests of Honor: **Dr. Elias B. Sayah** (President & CEO, Sayah Engineering MENA and also the Director of ASCE – Region 10), **Dr. S.K. Ukarande** (Principal, K.J. Somaiya Institute of Engineering & Information Technology and also a Member of the National Executive Council, ISTE, New Delhi) in the gracious presence of **Dr. C.V. Venkatesh** (Principal, MCE Hassan) and **Er. Narsimha Chary Poloju** (Industry Practicing Advisor, Civil Engineering Department, MCE Hassan and also the President, ASCE IS SR). The Guest of Honor – **Dr. Kamal Laksiri** (Project Director at the Ceylon Electricity Board and also the Governor – Region 10, American Society of Civil Engineers) joined us during the event.

Resource Speakers were identified from premier institutes of the country including Indian Institute of Science, Bangalore, National Institute of Technology Karnataka, Surathkal, University Visvesvaraya College of Engineering, Bangalore. In addition, eminent speakers from Institute for Global Environmental Strategies, Japan, personnel from State Pollution Control Board, and faculty researchers from other renowned institutes. The key takeaways from the presentations of the resource speakers, and all other details of the Refresher Program can be accessed in the [Report of the AICTE-ISTE sponsored Induction/Refresher Program 2021-22](#).

Dr. Elias B. Sayah
President & CEO,
Sayah Engineering MENA
Director, ASCE – Region 10

“Utilize all the resources open to all members or as a student member. Get informed and let your voice be heard and improve the whole thing for ASCE”



Dr. S. K. Ukarande
Principal, KJSIEIT, Mumbai
Member, NEC, ISTE, New Delhi

“There is a lot of spurt in population, industrialization, urbanization to meet the need (& greed) of human kind. We as individuals, faculty & scientists should make aware of the society & as root cause attempt to minimize, control pollution & remediate already polluted sites”



Dr. Kamal Laksiri
Project Director, Ceylon Electricity Board
Governor, ASCE – Region 10

“Continuous Professional Developments (CPDs) are must to keep ourselves up-to-date as engineers. In this process, CPDs are planned acquisition of knowledge, experience & personal qualities for proper execution of our professional & technical duties throughout our career as engineers”



Col. B. Natesh
Director, Faculty Development Cell,
AICTE, New Delhi

“This Refresher program has achieved, what it was meant for. We have done justice; ISTE along with AICTE have done justice in identifying an institute capable enough delivering the results.”



Student Chapters News

Dome Building Competition | Dr. D Y Patil Institute of Technology | 1 - 20 November 2021

Dome Building competition was organized by **Dr. D. Y. Patil Institute of Technology, Pimpri** ASCE Student Chapter during 1 – 20 November 2021. Around 50 groups from engineering & architecture colleges, compete for this competition.

The competition prizes was sponsored by BIMVEDH, Pune. Award ceremony was graced with presence of **Dr. Har Amrit Singh Sandhu** President, ASCE India Section (NR). This competition was coordinated by **Mrs. Ashwini Salunkhe**, Assistant Professor, Civil Department with the guidance of **Dr. Deepa Joshi**, Faculty Advisor, ASCE DIT Student Chapter. One of the objectives of this competition was to make the students aware about the sustainable solutions to real life problems. A webinar on "**Software used in Water Resource Department**" was also organized alongside on 18th November 2021 by ASCE DIT Student Chapter.

The resource person was **Mr. Sanjay Heganna**, Sub-divisional Engineer, Water Resource Department, Pune. The session gave detailing on network of automated rainfall stations for various basins like Krishna-Bheema, Pawana, etc. and also the real-time stream-flow forecasting & reservoir operation system

No. Slr	Description	Existing Inventory (No.)
1	Automated Rainfall Stations	427
2	Automated Fall Climate Stations	94
3	Automated River water Level and River Discharge Stations	31
4	Automated River water Level and River Discharge Stations combined with Automated Rainfall Stations	03
5	Automated River water Level and River Discharge Stations combined with Automated Fall Climate Stations	03
6	Automated Reservoir water Level and outflow Discharge Stations	25
7	Automated Reservoir water Level and outflow Discharge Stations combined with Automated Rainfall Stations	18
Total		604

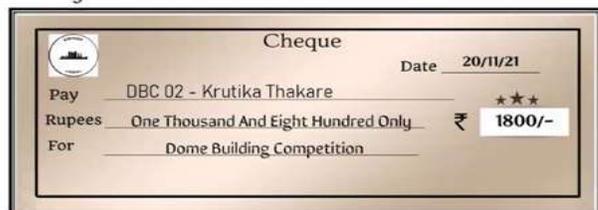
Out of total 46 reservoirs, 26 reservoirs are equipped with automated gate sensors to measure the opening. Total no. of gate sensors installed are 175.

Glimpses from the event



DPU Dr. D. Y. PATIL INSTITUTE OF TECHNOLOGY
 PIMPRI, PUNE – 411018
 Department of Civil Engineering
 ASCE International Student Chapter
"Dome Building Competition"

1st Prize Goes To

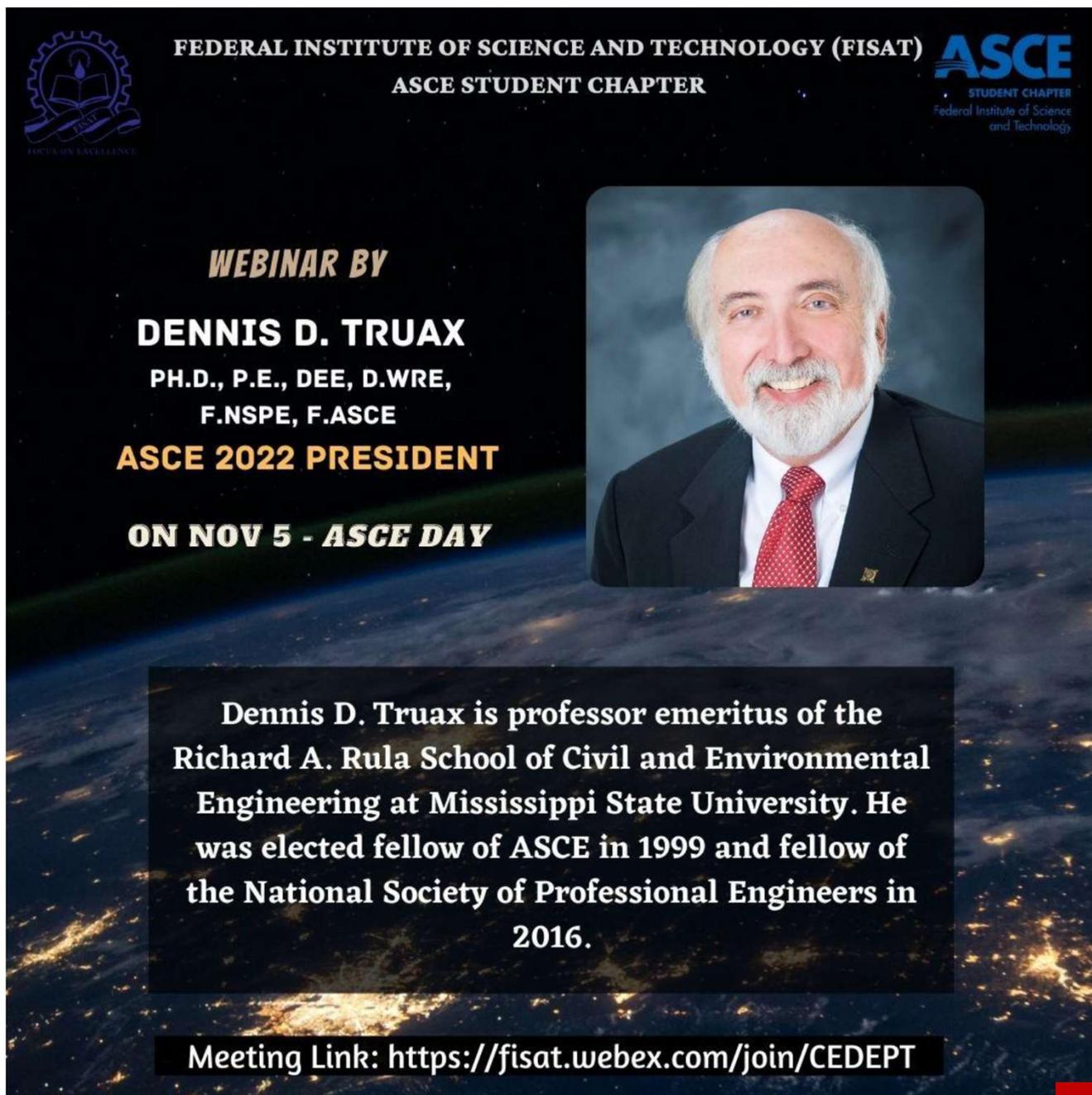


Student Chapters News

ASCE Day Webinar | Federal Institute of Science & Technology | 5 November 2021

The ASCE Student Chapter of Federal Institute of Science and Technology (FISAT) organized a webinar on **ASCE DAY** on Friday, 5th November 2021. The session was handled by **Dennis D. Truax**, ASCE 2022 President.

Dennis Truax is the James T. White endowed Chair, Department Head, & Professor of Civil and Environmental Engineering at Mississippi State University, and the Director of the Mississippi Transportation Research Institute. Now, in his 41st year on the Mississippi State faculty, he has assumed various roles as mentor to students, staff, and faculty. Truax served on ASCE's Board of Direction as a director and Society Treasurer. He has worked on numerous ASCE committees & task forces, and he was the faculty advisor to the Mississippi State ASCE Student Chapter for 26 years.



The graphic features a dark background with a view of Earth from space. At the top left is the FISAT logo, and at the top right is the ASCE Student Chapter logo. The text is centered and reads:

FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY (FISAT)
ASCE STUDENT CHAPTER

WEBINAR BY
DENNIS D. TRUAX
PH.D., P.E., DEE, D.WRE,
F.NSPE, F.ASCE
ASCE 2022 PRESIDENT
ON NOV 5 - ASCE DAY

Dennis D. Truax is professor emeritus of the Richard A. Rula School of Civil and Environmental Engineering at Mississippi State University. He was elected fellow of ASCE in 1999 and fellow of the National Society of Professional Engineers in 2016.

Meeting Link: <https://fisat.webex.com/join/CEDEPT>

Student Chapters News

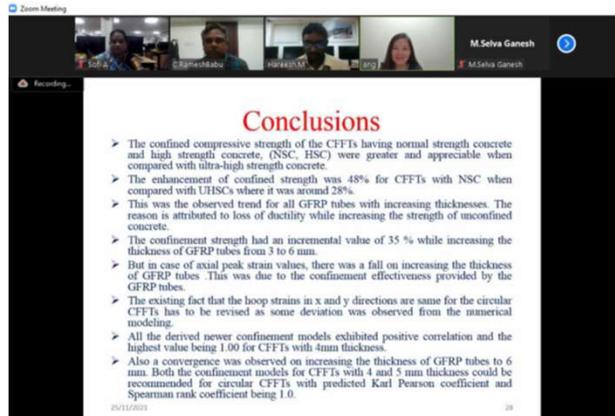
2nd International Conference on Recent Trends in Construction Materials and Structures (ICON 2021) | Vellore Institute of Technology | 25 - 26 November 2021

The 2nd International Conference on Recent Trends in Construction Materials and Structures was jointly organized by Vellore Institute of Technology, Vellore and Swinburne University of Technology, Swarak Campus, Swarak, Malaysia. The event was supported by working partners including Indian Concrete Institute (ICI) and ASCE IS SR.

After receiving more than 110 abstracts from various national institutions like NITK Surathkal, BITS Pilani, CSIR-Roorkee, Anna University, NIT Calicut etc. and International Universities including Swinburne University Of Technology, Malaysia, Universiti Putra Malaysia, Ton Duc Thang University, Vietnam, University of Baghdad, Iraq and so on, a stringent review process, shortlisted 80 abstracts for the submission of full-length paper. The submitted full length papers again were subjected to a rigorous double review process in which a total of 60 full length papers were accepted for final presentation. The selected papers of **ICON 2021** were published in “Materials Today Proceedings” Journal, Elsevier.

On 25 November 2021 the inaugural function of ICON 2021 was held. **Thiru. K. Jayasankar**, Senior Vice President, Functional Head-Technical, UltraTech Cement Limited, Mumbai was present as the Chief Guest, and **Dr. Lau Hieng Ho**, Professor and Pro Vice-Chancellor (Academic), Swinburne University of Technology, Sarawak, Malaysia was present as the Guest of honor, **Dr. G. Viswanathan**, Chancellor, VIT presided the inaugural function. **Dr. S. Shanthakumar**, Convenor ICON2021 proposed the welcome address. **Dr. A. Sofi**, organizing secretary ICON2021 briefed about the conference and **Dr. Prasanna Venkatesan**, Organizing secretary gave a brief note on the chief guest **Thiru. K. Jayasankar**.

There were 4 parallel technical paper presentation sessions and one keynote lecture session on both the days of the event.



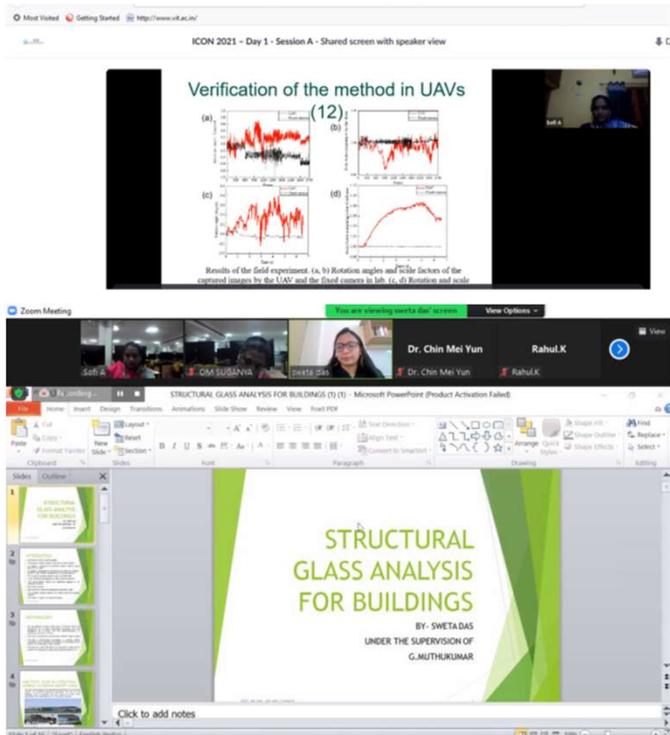
Glimpses from the inaugural and keynote sessions

Student Chapters News

The keynote lecture on Day 1 was delivered by **Dr. M. Yang**, North Dakota State University (NDSU) Fargo, USA on the topic “Holistic structural displacement monitoring and condition assessment through a computer vision approach”.

The first keynote lecture on Day 2 was delivered by **Dr. Duc-Hien Le**, Ton Duc Thang University, Vietnam on the topic “Effects of adding controlled-burnt sugarcane bagasse ash to compressive strength and porosity of concrete” in the morning session.

The next keynote lecture was given by **Dr. Ehsan Nikbakht Jarghouyeh**, Universiti Teknologi Petronas, Malaysia on the topic “Post-tensioned Precast Segmental Columns with Self-centering System for Bridges in Seismic Regions” during afternoon. From all the sessions conducted over the two days, “Best paper presentation” award was announced for each session that were judged by a chair and a co-chair of each session.



Glimpses from the keynote and technical sessions during the event

Student Chapters News

The webinar began at 6:30 PM (IST) and was attended by **80 participants** including all the faculty members of the Civil Engineering Department of FISAT. The session began with the welcome address by the Head of Department of Civil Engineering, **Dr Jiji Anthony**.

This was followed by felicitation by **Er. Narsimha Chary Poloju**, India Section, Southern region President of ASCE. He thanked the student office bearers, the faculty members and the head of department for organizing the event. He then invited the resource person to begin the webinar session. A brief introduction about the resource person was given by **Theresa Jojo**, student member of ASCE FISAT Chapter.

The session began with **Dennis D Truax** talking about the history of the American Society of Civil Engineers, its importance and the need for more professionalism. He explained the evolution of ASCE as an engineering society, its influence in the American civil engineering field. He then discussed the challenges in the future for civil engineers and the need of civil engineers as leaders, master builders, stewards of sustainable infrastructure and managers of risk and uncertainty. He explained the future developments in the civil engineering society, a need for vision and infrastructure reimagined. He also discussed the societal roles of younger student members of ASCE, what are their responsibilities towards the environment, peers, clients and employers and their role as leaders of the future.

He concluded the webinar session by discussing a world of opportunities. He focused on the importance of opportunities as he said it helps us to get more good at what we are and excel in the civil engineering profession. He ended the webinar talking about the need for a sustainable society and how decisions taken by civil engineers will affect the society, the environment, the structures and resources.



Glimpses from the event

Student Chapters News

ASCE Student Symposium 2022 | Dr. D Y Patil Institute of Technology | 17 December 2021

The most prestigious event of ASCE Student Symposium 2022 will be hosted by **Punjab Engineering College, Chandigarh**, **Dr. D. Y. Patil Institute of Technology, Pimpri & University of Petroleum & Energy Studies, Dehradun** in association with **ASCE India Section Northern Region (ASCE IS NR)**.

The inaugural ceremony of brochure & website release of the ASCE India Student Symposium 2022 was organized virtually on 17th December 2021. Principal, Dean Academics, HOD Civil, Associate Dean Research & all the faculty members of Civil Engineering Department attended this session. **Mr. Shubham Raj Vardhan**, Student President, DIT ASCE Student Chapter gave a brief introduction of activities conducted under student chapter. **Dr. Deepa A. Joshi**, Faculty Advisor of DIT ASCE Student Chapter & co-chair for the symposium, briefed about the various competitions that will be held during the symposium.

Principal **Dr. Pramod Patil**, addressed the gathering. The Student Presidents, Faculty Advisors & Directors of PEC and UPES also briefed about the Symposium. The website was launched at the hands of **Er. Thomas Smith** (ED - ASCE HQ) & **Dr. K. N. Gunalan** (ASCE President, 2020).

The brochure was released at the hands of **Dr. Pramod Patil** (Principal, DIT), **Dr. Sunil Rai** (VC - UPES) and **Dr. Baldev Setia** (Director - PEC). The program ended with vote of thanks by **Dr. Har Amrit Singh Sandhu**, President, ASCE IS NR & Chair for the symposium.



Glimpses from the event

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ASCE India Section Accolades



Charter Approved:

1. Amrita School of Engineering Student Chapter
2. TKM College of Engineering Student Chapter

Potential Future Student Chapters

1. Younus College of Engineering and Technology, Kollam, Kerala
2. Rajagiri School of Engineering and Technology, Kerala
3. St. Joseph College of Engineering and Technology, Palai, Kerala
4. Cochin University of Science and Technology, Kerala
5. ToCh Institute of Science and Technology, Kochi, Kerala



New Members

1. Dr. VASUDEV RAMAN	ASCE ID Number:	12281554
2. Ms. RAJI R.	ASCE ID Number:	12273540
3. Ms. ANCE MATHEW	ASCE ID Number:	12273508
4. Dr RAJEEV KUMAR P	ASCE ID Number:	12273546
5. Dr. JOB THOMAS	ASCE ID Number:	12281547

A Proud Moment to Share with all our Members

ASCE India Section (ASCE IS) was declared the **Winner** of the **2021 Section Member Drive** with **3rd Prize** and received a deposit of \$500 from the ASCE HQ



To know more about ASCE Member-Get-a-Member, [Click here](http://www.asce.org/mgam)

Forthcoming Events

1. Lecture Series I (Academic) organized by KPRIET Coimbatore and supported by ASCE IS SR on 08 February 2022
2. 1st International Webinar Series on Recent Advancements in Enviro-Structural Confluence on 4 – 5 March 2022
3. ASCE India Student Symposium to be hosted by Punjab Engineering College, University of Petroleum and Energy Studies, D. Y. Patil Institute of Engineering and Technology, and mentored by Bannari Amman Institute of Technology during 25-27 March 2022. For more details follow <https://studentsymposium.asce.org/india/>
4. ASCE IS SR supported Technical Writing Contest to be organized by BVRIT during April 2022
5. 2nd International Webinar Series on Recent Advancements in GeoEnviro-Structural Confluence on 4 – 5 June, 2022



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Department of Civil Engineering

Organizes

Lecture Series I

(Academic)

**Towards better practices
in
Geotechnical Engineering**

Resource Person

Dr. G L Sivakumar Babu

**Professor, Department of Civil Engineering
Indian Institute of Science(IISc) - Bangalore
Governor, Region 10, ASCE 2014-2020**



Date : 08.02.2022

Time : 03.00 PM



Google Meet

Convenor

Dr. G. Anusha

Professor & Head - Civil

Coordinators

Mr. S. Elavarasan, AP(Sr.G)/Civil

Mr. D. Vivek, AP(Sr.G)/Civil



KPRIET supports the Sustainable Development Goals



/KPRIETonline

Forthcoming Events



"1st International Webinar Series on Recent Advancements in Enviro-Structural Confluence"



Collaboratively organized by

ASCE Indo-Sri Lanka Sections – Technical Partner
Mahendra Engineering College (Autonomous)



To be held on

"World Engineering Day"



04th March 2022"

05th March 2022"

10.00am IST



Dr. Krishna R. Reddy
 University Scholar, Distinguished Researcher, and Professor of Civil and Environmental Engineering, Director of Sustainable Engineering Research Laboratory, and Director of the Geotechnical and Geoenvironmental Engineering Laboratory, University of Illinois, Chicago, USA

Topic:
Climate Change Mitigation and Adaptation: Research Opportunities for Civil Engineers

4.00pm to 5.00 pm IST



Prof. Ramancharla Pradeep Kumar
 PhD, FIAStructE
 Registrar & Head of Earthquake Engineering Research Centre | IIT Hyderabad; Telangana.

Topic:
Protecting Built Environment from Earthquakes- through Mitigation and preparedness efforts

11.00am IST



Mr. Tony Rofail
 | FIEAust CPEng RPEQ NER IntPE(Aus)
 Director | Windtech Consultants Pty Ltd., Australia.

Topic: "An overview of the recently released ASCE and AS/NZS standards for wind actions on Structures"

5.00pm to 6.00 pm IST



Prof. Giuseppe Carlo Marano
 PhD
 Chair of Structural Engineering
 Deputy Director, Dept of Structural & Building Engineering
 Politecnico di Torino | Italy

Topic:
"Deep Learning in Structural health monitoring"

12.00pm IST



Prof. Vallam Sundar
 Professor Emeritus, Dept of Ocean Engineering, (Chairman, Asia Pacific Division-International Association of Hydro-Environment Engineering and Research)
 | Indian Institute of Technology Madras

Topic:
Application of Geosynthetics in Coastal Engineering

6.00pm to 7.00 pm IST



Prof. Tomonori Nagayama
 PhD
 Associate Professor
 Department Civil Engineering
 University of Tokyo, Japan.

Topic:
Monitoring-based Evaluation of bridges"

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RAJAYOGAN PALANICHAMY

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Research and Publications News

Publications by ASCE Members

KPR Institute of Engineering and Technology, Coimbatore

1. Jayaprakash, S., Dhanapal, J., & Deivasigamani, V. (2021). Flexural Behaviour of Chicken Mesh Ferrocement Laminates with Partial Replacement of Fine Aggregate by Steel Slag. **Advances in Materials Science and Engineering**, 2021. <https://doi.org/10.1155/2021/7307493>
2. Priya, A. K., Suresh, R., Kumar, P. S., Rajendran, S., Vo, D. V. N., & Soto-Moscoco, M. (2021). A review on recent advancements in photocatalytic remediation for harmful inorganic and organic gases. **Chemosphere**, 284, 131344. <https://doi.org/10.1016/j.chemosphere.2021.131344>
3. Priya, A. K., Yogeshwaran, V., Rajendran, S., Hoang, T. K., Soto-Moscoco, M., Ghfar, A. A., & Bathula, C. (2022). Investigation of mechanism of heavy metals (Cr⁶⁺, Pb²⁺ & Zn²⁺) adsorption from aqueous medium using rice husk ash: Kinetic and thermodynamic approach. **Chemosphere**, 286, 131796. <https://doi.org/10.1016/j.chemosphere.2021.131796>
4. Yogeshwaran, V., & Priya, A. K. (2021). Experimental studies on the removal of heavy metal ion concentration using sugarcane bagasse in batch adsorption process. **Desalination and Water Treatment**, 224, 27160. <https://doi.org/10.5004/dwt.2021.27160>
5. Sumesh, K. R., Saikrishnan, G., Pandiyan, P., Prabhu, L., Gokulkumar, S., Priya, A. K., ... & Krishna, S. (2021). The influence of different parameters in tribological characteristics of pineapple/sisal/TiO₂ filler incorporation. **Journal of Industrial Textiles**, <https://doi.org/10.1177%2F15280837211022614>
6. Owamah, H. I., Ikpeseni, S. C., Dharmaraj, R., Gopikumar, S., Malathy, R., Uma, S., ... & Oyebisi, S. O. (2021). Influence of diethanolamine on the properties of concrete, corrosion rate of rebar and renewable energy generation. **Arabian Journal for Science and Engineering**, 46(11), 11487-11496 <https://doi.org/10.1007/s13369-021-05974-0>
7. Dharmaraj, R., Karthick, A., Arunvivek, G. K., Gopikumar, S., Mohanavel, V., Ravichandran, M., & Bharani, M. (2021). Novel approach to handling microfiber-rich dye effluent for sustainable water conservation. **Advances in Civil Engineering**, 2021. <https://doi.org/10.1155/2021/1323472>
8. Eskandari, H., Vaghefi, M., & Kowsari, K. (2015). Investigation of mechanical and durability properties of concrete influenced by hybrid nano silica and micro zeolite. **Procedia Materials Science**, 11, 594-599. <https://doi.org/10.1016/j.mspro.2015.11.084>
9. Vivek, D., Elango, K. S., Prasath, K. G., Saran, V. A., Chakaravarthy, V. A. D., & Abimanyu, S. (2021). Mechanical and durability studies of high performance concrete (HPC) with nano-silica. **Materials Today: Proceedings**. <https://doi.org/10.1016/j.matpr.2021.09.068>
10. Lakshmi, M., Vivek, D., Vijayalakshmi, S., Ranjitha, J., & Saravanan, A. M. (2021, September). A review on removal of industrial dyes using low cost natural adsorbents. In **AIP Conference Proceedings** (Vol. 2396, No. 1, p. 030008). AIP Publishing LLC. <https://doi.org/10.1063/5.0066425>
11. Priya, A. K., Gnanasekaran, L., Rajendran, S., Qin, J., & Vasseghian, Y. (2022). Occurrences and removal of pharmaceutical and personal care products from aquatic systems using advanced treatment-A review. **Environmental Research**, 204, 112298. <https://doi.org/10.1016/j.envres.2021.112298>
12. Jeevitha, P., Elango, K. S., Babu L, G., Ranjitha, J., & Vijayalakshmi, S. (2021, September). Glycerol as a key reactant in the production of 3-hydroxypropanoic acid using engineered microbes. In **AIP Conference Proceedings** (Vol. 2396, No. 1, p. 030004). AIP Publishing LLC. <https://doi.org/10.1063/5.0066423>

Research and Publications News

Publications by ASCE Members

KPR Institute of Engineering and Technology, Coimbatore

13. Kavitha, R., Sundarraja, M. C., Indhiradevi, P., Manikandan, P., Karthikeyan, G., Rahman, A. A., & Akash, E. (2021). Flexural and compressive behaviour of I steel section strengthened by stainless steel plate. *Materials Today: Proceedings*. <https://doi.org/10.1016/j.matpr.2021.09.054>
14. Bharani, S., Kumar, G. R., Ranjithkumar, J., Boopathi, G., & Singaravelu, G. (2021). Experimental study of regur soil stabilization by using Non-metallic waste bottles. *Materials Today: Proceedings*. <https://doi.org/10.1016/j.matpr.2021.11.261>
15. Romero-Sáez, M., Suresh, R., Benito, N., Rajendran, S., Gracia, F., Navas-Cárdenas, C., ... & Soto-Moscoso, M. (2021). Defective Ce³⁺ associated CeO₂ nanoleaves for enhanced CO oxidation. *Fuel*, 122822. <https://doi.org/10.1016/j.fuel.2021.122822>
16. AK, Priya. (2021). Adsorption of Molybdenum from Wastewater by Surface Altered Agricultural Solid Waste. *Iranian Journal of Chemistry and Chemical Engineering*. <https://doi.org/10.30492/IJCCE.2021.525905.4601>
17. Kanmani, S., Anandaraj, S., Shankar, D., Remya, P. R., Vijaymohan, S., Miruthun, G., & Rakhul, S. B. (2021). A novel approach on usage of waste sludge from textile dyeing units in paver block manufacturing. *Materials Today: Proceedings*. <https://doi.org/10.1016/j.matpr.2021.11.599>
18. Anandaraj, S., Karthik, S., Elango, K. S., Nishiketan, S., Pandiyarajan, G., Kumar, P. N., ... & Harihanandh, M. (2021). An experimental study on Fly Ash (FA) and marble powder in the properties of Self-Compacting Concrete (SCC). *Materials Today: Proceedings*. <https://doi.org/10.1016/j.matpr.2021.11.441>
19. Anandaraj, S., Rajeshkumar, V., Preethy, R. L., Dhivya, K., Ganeshkumar, S., Anusha, G., & Kanmani, S. (2021). Strength properties of luffa fibre reinforced concrete containing RHA as cement replacement. *Materials Today: Proceedings*. <https://doi.org/10.1016/j.matpr.2021.11.471>
20. Dharmaraj, R., Anandaraj, S., Sanjivnalan, N., Kumar, S. S., Shivash, N., & Srisharan, S. (2021). Experimental studies on the effect of neem seed powder (NSP) as a natural admixture in concrete. *Materials Today: Proceedings*. <https://doi.org/10.1016/j.matpr.2021.11.634>

[Book Chapters](#) and past publications

Federal Institute of Science & Technology (FISAT), Angamaly

1. Hrishikesh P., **Unni Kartha G.** (2022) Compressive Strength Prediction with Boundary-Defined Datasets. In: Marano G.C., Ray Chaudhuri S., Unni Kartha G., Kavitha P.E., Prasad R., Achison R.J. (eds) Proceedings of SECON'21. SECON 2021. *Lecture Notes in Civil Engineering*, 171. Springer, Cham. https://doi.org/10.1007/978-3-030-80312-4_44
2. Antony A., **Neeraja N.** (2022) Seismic Performance of Modular Steel Braced Building Equipped with BRB Braces. In: Marano G.C., Ray Chaudhuri S., Unni Kartha G., Kavitha P.E., Prasad R., Achison R.J. (eds) Proceedings of SECON'21. SECON 2021. *Lecture Notes in Civil Engineering*, 171. Springer, Cham. https://doi.org/10.1007/978-3-030-80312-4_44
3. **Dr. Unni Kartha G.**, Professor, Department of Civil Engineering, Federal Institute of Science and Technology (FISAT), Angamaly, India, edited the **Proceedings of Secon'21, Lecture Notes in Civil Engineering**, 171, Springer, DOI: <https://doi.org/10.1007/978-3-030-80312-4> Hardcover ISBN978-3-030-80311-7, eBook ISBN978-3-030-80312-4

Research and Publications News

Publications by ASCE Members

Amrita Vishwa Vidyapeetham, Coimbatore

1. Sreedevi P.S., Muthukumar S., **Dhanya Sathyan** (2022) Numerical Analysis of Soil Nailed Vertical Wall Using PLAXIS. *Lecture Notes in Civil Engineering*, 192. Springer, Singapore. https://doi.org/10.1007/978-981-16-6140-2_31
2. Baburajan, Bhagya, Surya Muthukumar, and **Dhanya Sathyan** (2022). Dynamic Analysis of Soil Reinforced with Polypropylene Geotextile Using PLAXIS. *Lecture Notes in Civil Engineering*, 192. Springer, Singapore. https://doi.org/10.1007/978-981-16-6140-2_30
3. Raj A., Kotwal M., **Dhanya Sathyan**, Mini K.M. (2022) Thermal Insulation by Fiber Added High Volume Flyash Aerated Concrete Wall Cladding. *Lecture Notes in Civil Engineering*, 171. Springer, Cham. https://doi.org/10.1007/978-3-030-80312-4_57
4. Ravi K., Yogesh P., Karthik R., Radhakrishnan A., **Dhanya Sathyan** (2022) Comparative Study of Predicting the Marsh Cone Flow Time of Superplasticized Cement Paste Using Machine Learning Algorithms. *Lecture Notes in Civil Engineering*, 171. Springer, Cham. https://doi.org/10.1007/978-3-030-80312-4_95
5. Raj, A., **Dhanya Sathyan**, & Mini, K. M. (2021). Performance evaluation of natural fiber reinforced high volume fly ash foam concrete cladding. *Advances in concrete construction*, Techno Press, 11(2), 151-161.
6. Madhavan, M. K., **Dhanya Sathyan.**, & Jayanarayanan, K. (2021). Hybrid natural fiber composites in civil engineering applications. In *Hybrid Natural Fiber Composites* (pp. 41-72). Woodhead Publishing.
7. Sharook, S., **Dhanya Sathyan**, & Madhavan, M. K. (2020). Thermo-mechanical and durability properties of expanded perlite aggregate foamed concrete. *Proceedings of the Institution of Civil Engineers-Construction Materials*, 1-9.

Bannari Amman Institute of Technology, Sathyamangalam

1. Kulanthaivel, P., Selvakumar, S., Soundara, B., Kayalvizhi, V. S., & Bhuvaneshwari, S. (2022). Combined effect of nano-silica and randomly distributed fibers on the strength behavior of clay soil. *Nanotechnology for Environmental Engineering*, 7(1), 1-12.
2. Selvakumar, S., Soundara, B., & Kulanthaivel, P. (2022). Model tests on swelling behavior of an expansive soil with recycled geofoam granules column inclusion. *Arabian Journal of Geosciences*, 15(2), 1-11.
3. Venkatachalam, M. N., & Balu, S. (2022). A review on the application of industrial waste as reinforced earth fills in mechanically stabilized earth retaining walls. *Environmental Science and Pollution Research*, 1-21.

Thakur College of Engineering and Technology, Mumbai

1. Chaurasia V.S., Pandey P.P., Mishra A.V., Gupta S.S. & Pawar A.U. (2021) Stabilization of Soil Using Terrazyme for Road Construction. In: Patel S., Solanki C.H., Reddy K.R., Shukla S.K. (eds) *Lecture Notes in Civil Engineering*, 136. Springer, Singapore.
2. Lochan Jolly, Arpit Vyas, Swapnil Raut & B.K. Mishra. (2021) Innovation in online evaluation for authentic assessment. *Journal of Engineering Education Transformations*, 35, Special issue (Enhance Quality Education through NEP 2020) eISSN 2394-1707

Research and Publications News

Publications by ASCE Members

Rashtreeya Vidyalaya College of Engineering, Bengaluru

1. Yashas V, Bagrecha A and Dhanush S (2021) Feasibility study of floating solar panels over lakes in Bengaluru City. *Proceedings of the Institution of Civil Engineers – Smart Infrastructure and Construction*, <https://doi.org/10.1680/jsmic.21.00002a>

Velagapudi Ramakrishna Siddhartha Engineering College, Vijayawada

1. Susmitha P.J.R.L.P., M. Kanta Rao. (2022) Effect of Strength Parameters Upon Partial Replacement of Moderately Burnt and Completely Burnt Sugarcane Bagasse Ash. *Lecture Notes in Civil Engineering*, 194. Springer, Singapore. https://doi.org/10.1007/978-981-16-6403-8_19
2. M. Kanta Rao., Naga Satish Kumar, Ch. (2021) Achieving Sustainability by the Utilization of Fly Ash as a Secondary Cementitious Material, *Design Engineering*, 113-124.
3. M. Kanta Rao., Ch. N. Satish Kumar. (2021) Influence of fly ash on hydration compounds of high-volume fly ash concrete." *AIMS Materials Science*, 8, 301-320.
4. M. Kanta Rao, Dr. G. Appa Rao, Dr. Ch. N. Satish Kumar. (2020) "Evaluation of Compressive Strength of High-Volume Fly Ash Concretes by using Multivariate Adaptive Regression Splines", *International Journal of Advanced Science and Technology*, 29, 11556-11576.
5. S. Venkata Ranganadh., M. Kanta Rao. (2020). Comparative Study on Seismic Performance of Multi Storied Building with and without Shear Wall. *Journal of Emerging Technologies and Innovative Research*, 7, 51-60.

Kalasalingam Academy of Research and Education, Krishnankoil

1. Arunkumar, K., Muthukannan, M., Kumar, A. S., Ganesh, A. C., & Devi, R. K. (2022). Cleaner environment approach by the utilization of low calcium wood ash in geopolymer concrete. *Applied Science and Engineering Progress*, 15(1).
2. Arunkumar, K., Muthukannan, M., Ganesh, A. C., & Devi, R. K. (2022). Hybrid fibre reinforced eco-friendly geopolymer concrete made with waste wood ash: A mechanical characterization study. *Engineering and Applied Science Research*, 49(2), 235-247.
3. Meyyappan P.L., Sutharsan R., Jemimah Carmichael M. (2022). Utilization of Paper Sludge Ash in Lime Based Geopolymer Concrete: An Experimental Study. In: Marano G.C., Ray Chaudhuri S., Unni Kartha G., Kavitha P.E., Prasad R., Achison R.J. (eds) *Lecture Notes in Civil Engineering*, 171. Springer, Cham. https://doi.org/10.1007/978-3-030-80312-4_1
4. Suresh Kumar, A., Muthukannan, M., Kanniga Devi, R., Arunkumar, K., & Chithambar Ganesh, A. (2021). Reduction of hazardous incinerated bio-medical waste ash and its environmental strain by utilizing in green concrete. *Water Science and Technology*, 84(10-11), 2780-2792.

Vedavyasa Institute of Technology, Karadparamba

1. Sukanya, S., & Rajeevan, B. (2021). Flexural Torsional Buckling Behaviour of I-Section Beams with Longitudinally Profiled Flanges. In *International Conference on Structural Engineering and Construction Management* (pp. 739-750). Springer
2. Divya K.K., Vidya Venugopal (2021) Investigation on Fracture Parameters on Geopolymer Concrete, *Journal of Emerging Technologies & Innovative Research*, 8(5), ISSN 2349-5162.

Research and Publications News

Publications by ASCE Members

Marian Engineering College (MEC), Kazhakuttom

1. D Anupama Krishna, RS Priyadarsini, and **S. Narayanan** (2022) "Effects of Compressive Strength of Concrete on RC Columns Subjected to Elevated Temperatures." *Journal of The Institution of Engineers (India): Series A*, <https://doi.org/10.1007/s40030-021-00607-z>

SRM Institute of Science and Technology, Kattankulathur

1. Dheepak, S., P. Deepak, and S. Pradeep. (2022) Experimental Investigation on Lightweight Concrete with Kegrete Bowling Ball. In *Sustainable Construction Materials*, pp. 269-276. Springer, Singapore.
2. Vishali, M., S. Pradeep, and K. S. Satyanarayanan. (2022) Comparative Study on Seismic Performance of Steel Diagrid Structures with and Without Dampers. In *Sustainable Construction Materials*, pp. 387-395. Springer, Singapore.
3. Rajendiran, Karthikeyan, B. Vijayashanthi, and S. Pradeep. (2021) Comparative Study on Framed Tube System and Diagrid Tube System Subjected to Seismic Load. *Advances in Construction Management: Select Proceedings of ACMM 2021*: 79.
4. Rajendiran, Karthikeyan, R. Deby Linsha, and S. Pradeep. (2021) Behaviour of Pre-engineered Building with Reduced Beam Section. *Advances in Construction Management: Select Proceedings of ACMM 2021*: 69.
5. Pradeep, S., S. Senthil Selvan, and K. S. Satyanarayanan. (2021) Experimental study on the behaviour of RCC in-filled frame resting on sloped ground level." *Materials Today: Proceedings*.

Malnad College of Engineering, Hassan

1. R Viswambari Devi, **Vijay V Nair**, P Sathyamoorthy and M Doble (2022). Mixture of CaCO₃ Polymorphs serves as best adsorbent of Heavy Metals in Quadruple System. *Journal of Hazardous Toxic and Radioactive Waste* 26(1). [https://doi.org/10.1061/\(ASCE\)HZ.2153-5515.0000651](https://doi.org/10.1061/(ASCE)HZ.2153-5515.0000651)
2. S Mohan and **Vijay V Nair** (2020). Comparative study of separation of heavy metals from leachate using activated carbon and fuel ash *Journal of Hazardous Toxic and Radioactive Waste* 24 (4), 04020031, 1-13. [https://doi.org/10.1061/\(ASCE\)HZ.2153-5515.0000520](https://doi.org/10.1061/(ASCE)HZ.2153-5515.0000520)

Patents / Patents filed by ASCE Members in association with:

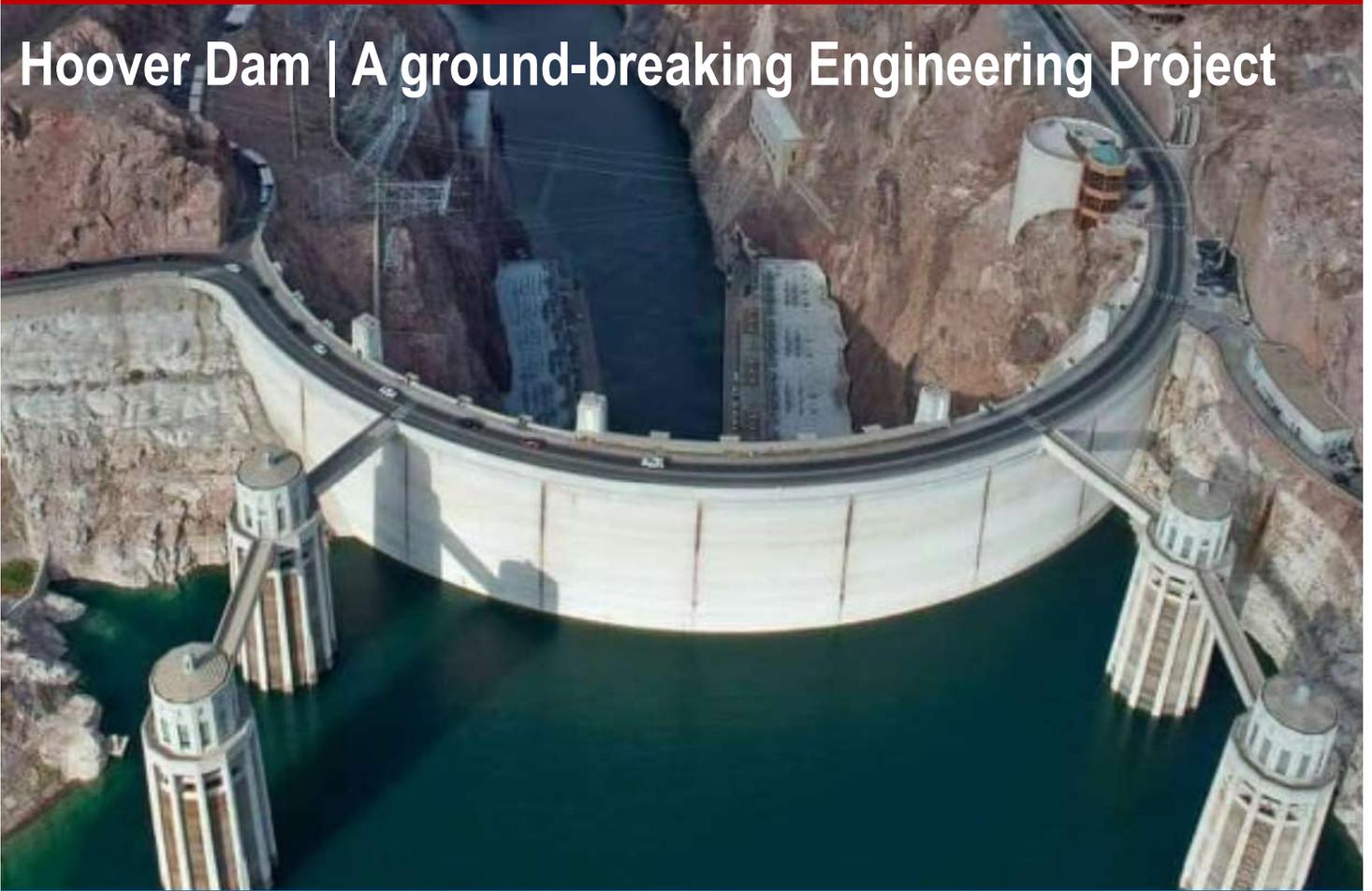
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4. [SRM Institute of Science and Technology, Kattankalathur](#)
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1. [ASCE IS SR Newsletter – Aug – Oct 2021](#)
2. [ASCE IS SR Newsletter – May – Jul 2021](#)

ASCE India Section - A Brief History

Hoover Dam | A ground-breaking Engineering Project



ASCE, the oldest national professional engineering society in the US founded in 1852, represents more than 150,000 members of the civil engineering profession in 177 countries worldwide. The global HQ of ASCE is in Reston, Virginia, USA. Through the expertise of its active membership, ASCE is a leading provider of technical and professional conferences and continuing education, the world's largest publisher of civil engineering content, and an authoritative source for codes and standards that protect the public. The Society advances civil engineering technical specialties through nine dynamic Institutes and leads with its many professional- and public-focused programs.

ASCE comprises 9 Regions in North America and 1 Region that includes 23,245+ members that reside outside of the USA, Mexico, and Canada. Region 10 is composed of 17 International Sections, 6 Branches, 13 Groups, and 88 Student Chapters. International Sections, Branches, and Groups of ASCE are formed to promote the technical and professional development of members, engagement for ASCE members through meetings, guest speakers, networking, and technical content. ASCE encourages the spirit of cooperation among engineers, and with other engineering societies and educational institutions in matters of common interest. The director of Region 10 is Dr. Elias Boutros Sayah for term 2019-2022.

ASCE India was established in 1988 as an International Group and promoted to a Section within one year, due to an exceptional growth of the membership and extraordinary technical activities performed during that period. Dr. Anil Kumarappa became the 1st President of the ASCE India Section. In 2012, the four Regions were formed under the umbrella of the India Section: IS-Eastern Region, IS-Northern Region; IS-Southern Region; and IS-Western Region. India Section Southern Region has more than 7,135 members out of 11,362 India Section Members, inclusive of Student Members with free student membership.