

*AISAT Civil Engineering Association
ACEA Bulletin, Srishti
Unfolds the array of events 2014*

स्रिश्ती

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Department Beeps

Avanza'14 Paper Presentation Contest

A paper presentation contest on “*Inspiring Lives in Civil Engineering*” was organized on 15th February 2014, the third in Avanza series-Avanza'14. The contest had a rich participation of 18 teams from nine engineering colleges in the state. Sri. Antony Kunnel, MD, Kunnel Costructions, inaugurated the contest and enlightened the students about their fortune to have a wide range of opportunities in their chosen Civil Engineering discipline. AVANZA aims to motivate the aspirations of the entire engineering student fraternity of the state. The proceeding CD was released by the chief guest during the inaugural function.



The eminent panel of judges Prof. Dr. Deepak Kumar Sahu, CUSAT, Er. Abhilash Joy, President, GRACE, Prof. Dr. Subha, Division of Civil Engineering, CUSAT and Prof. Dr. Roy M. Thomas, Division of Civil Engineering, CUSAT shortlisted six

teams for the final round. Prof. Dr. Benny Mathews Abraham, Division of Civil Engineering, CUSAT and Prof. Dr. George Mathew, CUSAT adjudged the winners. First Prize of Rs.10000, certificates and the citation was awarded to Mr. Subrahmaniom M.J and Vivek J.M of College of Engineering, Trivandrum. Second prize of Rs.5000 and certificates was secured by Mr. Aswin Baby and Ms. Merin Varghese of College of Engineering, Trivandrum. Ms. Ruth Abey George and Alan B. Alex, S3 students of AISAT won the third prize worth Rs.3000, certificates and citation. All other 15 teams were presented with certificates and a cash prize of Rs.2000 each.



Department Advisory Committee

The third Department Advisory Committee (DAC) meeting of the Civil Engineering Department was held on 9th August 2014 at AISAT. Dr. Babu T. Jose, (Chairman, DAC) and Director, AISAT chaired the meeting. Dr. S. Chandrakaran, Professor & Head of Civil Dept, NIT Calicut, Dr. Anil Joseph, Managing Director, Geostructurals (P) Ltd. and Dr. Radhakrishna G. Pillai, Assistant Professor, Dept. of Civil Engineering (BTCM Division) Indian Institute of Technology, Madras took part in the discussion as the expert members. Rev. Dr. Clement Valluvassery, Manager, AISAT, Dr. K.E George, Principal, AISAT, Prof. Vincent K. John, Vice Principal, AISAT, Prof. Anitha G. Pillai, HOD, Civil Dept. and other faculty members of the Civil Engineering Dept. were also present in the meeting. The DAC discussed the proposed activities for the academic year 2014-15 after analyzing the status of planned activities. Department also benefited from the guidance provided by the members of Academic Advisory council. The robust presence of Dr. S.R Gandhi, HOD CED, IITM, Er. V.M Fazal Ali, MD, Bavasons Constructions, Dr.Benny Mathews Abraham, Professor, CUSAT added boon for the department.



M.Tech in Geomechanics & Structures

Department of Civil Engineering offers M. Tech program in CE with specialization in Geomechanics & Structures. This course is approved by AICTE and affiliated to Mahatma Gandhi University, Kottayam, Kerala. The sanctioned intake is 18 and the course is conducted in 4 semesters (2 years). The inauguration of the first batch was held on September 2014. Sri. M D Nair, Chairman, IGS Kochi Chapter, Dr. Anil Joseph, MD, Geostructurals (P) Ltd., Kochi, Er. S. Suresh, Structural Consultant, Associated Structural Consultants, Kochi, Er. Reji Zachariah, Consultant, S&R Consultants and Er. Bindu Sunil graced the occasion. This marks a milestone in the track record of the Civil Engineering Department which will catalyze research oriented growth.

Short Term workshop on Engineering Graphics

AISAT hosted a 'Short Term Workshop on Engineering Graphics' for the Mechanical and Civil Engineering faculty from various Engineering Colleges in



Kerala from 4th to 7th of June 2014. Engineering Graphics being one of the fundamental Engineering subjects, AISAT conducted this workshop to create a platform for the faculties from various engineering colleges to interact and discuss methodologies to deliver the subject effectively.

The interactive sessions by Prof. P.I Varghese, former Professor, Government Engineering College, Thrissur , Prof. Dr. M.N Vinod Kumar, Division of SE,CUSAT and Prof. Reji Mathew, Department of Mechanical Engineering, MA College of Engineering in the field of Engineering Graphics enriched the workshop.

Training on Latex Software

A training session on Latex, a high-quality type setting system, was conducted at Civil Engineering department on 15th, 29th Nov and 6th December, 2014 for the faculty and Post Graduate students of the department. The sessions were delivered by Dr. P.N. Radhakrishnan, Technical officer, Department of Mechanical Engineering, CUSAT. on training and lectures on the features for the production of technical and scientific documentation was given during the course of the training.



Representing AISAT at International Conference

Dr. Babu T. Jose, Director, AISAT and Dr. Anil Joseph, MD, Geostructurals (P) Ltd., Kochi & adjunct faculty of Civil department chaired sessions at the 6th International Geotechnical Symposium on Disaster management in special Geo-environmental conditions, held at IIT, Madras during 21st- 23rd January 2015. The conference was organized jointly by IITM and Indian Geotechnical Society Chennai, Bangalore and Kochi chapters.



Prof. Anitha G. Pillai, HOD, Civil Dept. attended DSTE-SERB sponsored Brain storming session on Emerging Trends in Geotechnical Engineering on 26th March 2014 at IIT Mumbai.

Beam Casting Competition

A beam casting competition was conducted for fifth semester CE students as part of practical oriented study of design of concrete structures. Winners were selected based on detailing, design procedure adopted and the presentation. Prof. Anitha G. Pillai, HOD, Civil Dept. and faculty members of the Civil Department evaluated the models and declared the winners.



Academy Industry Partnership

Procomp 2013-2014

Procomp is an annual project competition for the Final year B. Tech students, jointly organized by the Graduate's Association of Consultant Engineers and Department of Civil Engineering, AISAT. The ever rolling trophy sponsored by the Civil Engineering Department of AISAT and a cash prize of Rs. 20,000/-, was awarded to the winning team.

Out of 13 abstracts received, 6 abstracts were selected after close scrutiny. The Mokshagundam Visvesvaraya prize for the best project was bagged by Ms. Athira C.R, Rahul K.R, Reshma R Sivan and Seetu Vijayan of SNGCE, Kadayiruppu. Mr. Charles P Joseph, Karthik C, Nebu Thomas and Vipin Jose, of MACE, Kothamangalam stood second. Ms. Thara S.N, Syam Murali, Muhammed Asif and Sreekumar Babu from SCMS, Karukutty came third. The rest of the teams were awarded with citations and certificates.



SNGCE team receiving the First prize



AISAT- IGS Award for Best M. Tech Thesis

The AISAT-IGS Award, sponsored by AISAT for the best M. Tech Thesis in Geotechnical Engineering in Kerala State was awarded to Ms A.R Sindhu of Saint Gits College of Engineering for her exceptional work on 'Prediction of Soaked CBR Value for Lateritic Soils in Central Kerala'. The award comprised of a citation and a cash prize of Rs. 10,000/- was presented by Dr. Varghese Chummar, a veteran in the field of soil exploration in India, during an august function at the 3rd Praphullakumar Lecture-2014 on October 29, 2014 at Hotel Gokulam, Ernakulam which was jointly

organized by Indian Geotechnical Society Kochi Chapter and APS, Kochi.

A record number of 130 Post Graduate students in Geotechnical Engineering attended the annual lecture. Prof. Vincent K. John, Vice-Principal, AISAT offered felicitations on behalf of AISAT.



Bridge The Gap

With an intention to acquaint the students with the industry and the wide range of career options, a five day training program cum workshop was conducted from 23rd to 27th June 2014. Students attended the sessions carried out by experts from the industry as well as the academic spectrum. The training program helped the students to equip themselves to expand their technical knowhow and to develop their soft skills.

They had the opportunity to visit the Multi-level car parking construction site at Lulu Mall, Edapally. The visit made the students to visualize the advanced technique to be adopted in a metro city to handle the huge requirement of parking area.

The students got the opportunity to observe the connection details in steel works too. The safety measures adopted in the worksite itself was really informative for the students



Industrial Visits

With an intention to expand the industrial knowhow, an industrial visit was organized for the *Fourth Semester* Civil Engg. students to the Ready Mix Concrete (RMC) plant at Binanipuram on 15th March 2014. During the visit, the students had the opportunity to observe the manufacturing process of Ready mix concrete, the various equipment used and quality control during large scale production of RMC. There after the students attended a session on the advantages of 'RMC' over 'site mixed concrete' with a demonstration of slump test rendering the workability of both.

The *Sixth Semester* Civil Engineering Students had a four day Industrial visit cum study tour to Bangalore, Mysore and Coorg from 13th to 18th January 2015. During the course of the journey, the students visited M/S Green Readymade Steel Products India Pvt. Ltd. in Kollar District, Karnataka. The industry was specialized in providing readymade cut and bend steel and grout couplers for huge construction projects. The demonstration in the work yard enriched the students with updated information on reducing the steel wastage during stirrup formations.



S6 batch at M/s Green Ready made Steel Products India Pvt.Ltd



Site visit to Sattva Laurel Heights

The visit to Sattva Laurel Heights by RASK Construction, Nagasandra, Bangalore was an enlightening experience for the students to know the practical aspects about the setting out of buildings, foundation reinforcement details and the quality standards maintained in site.

The visit to Golden Temple in Coorg, was worth for the students to visualize the architecture of Tibetan Monasteries. The detailed paintings, the Golden Buddha's and the premises of temple all made the visit a worth one.

APS-AISAT MoU

A Memorandum of Understanding was signed between Association of Piling Specialists, Kochi and Albertian Institute of Science and Technology, Kalamassery on 23rd July, 2014 with an objective to promote professional and academic interaction in the field of Geotechnical Engineering in general and piling activities in particular. The MoU was signed by Sri. Martin Kuruvila, Chairman, APS Kochi



with Rev. Dr. Clement Valluvassery, Manager, AISAT, in the presence of Sri. B. Chandramohan, Secretary, APS and Prof. Dr. Babu T. Jose, Director, AISAT. Dr. Anil Joseph, National Executive Committee Member of IGS also graced the occasion. Heads of various departments, faculty members and students were present for this momentous event.

Workshop by ICI

A one day workshop was conducted for the B. Tech Civil Engineering students on 18th September 2014 in collaboration with ICI, Kochi chapter. It was arranged in continuation to the industrial visit made by the students to the RMC plant, Binanipuram. The sessions were handled by the experts from RMC Readymix (India).

The morning session was delivered by Er. Shelly S. Fernandez, General Manager, RMC, Aluva on the various 'Practical issues faced by a Civil Engineers' and the 'Methods to carryout good quality Concrete work'.

The afternoon session was handled by Er. Siddhesh R. Kamath, Assistant Manger, RMC about the 'Materials used in Concreting and the latest advancements in Concrete technology'.



ICI Crescere'14

AISAT hosted an intercollegiate quiz competition - Crescere'14, conducted by Indian Concrete Institute- Kochi Chapter on 1st March 2014. Teams from nine prominent Engineering Colleges participated in the event. Four teams were qualified into the finals. The most renowned Mr. Q was the quiz master. The team from College of Engineering Trivandrum won the first prize. The students of Toc H Institute of Science & Technology, Arakkunnam, and SCMS School of Engineering & Technology, Karukutty won the second and third prize respectively. The organizing members of the ICI Kochi chapter, AISAT Principal Prof. Dr. K.E George, the faculty and students of various departments also attended the event.



Voice of ACEA

Release of ACEA News Bulletin

On AISAT day, 14th March 2014, ACEA released the first issue of ACEA News bulletin. "Srishti" is an annual bulletin which gives an insight into events and experiences witnessed by the Civil Engineering department during that year.

Intra College Quiz Competition

ACEA conducts intra college quiz competition for all the students of Civil Engineering department. Ms. Ruksana and Ms. Sanah Fathima of first and second semester secured the first prize. Prof. Dr. K. E. George, Principal, AISAT distributed the prizes to the winners of ACEA quiz competition on 9th July 2014.



Empower Hour

Technical talk

A talk was held during on 5th February 2014, by **Dr. Martin Juan**, an Environmental Engineer and **Ms. Marita Shelling**, a teacher in a special school in Austria. Dr. Martin Juan, presented his Doctoral study about the behaviour of Debris covered glaciers and the effect of climate change on the ablation rate of glaciers. Ms. Marita Shelling explained the system of education in the schools in Austria and enlightened the students that the vision of their educational system is to make "good human beings" which could make good professionals



Talk on Latest Technologies in research

The Department of Civil engineering organized a talk by **Mr. Ranjith P**, Manager, Civil Aid Cochin, during the Empower hour on 16th Jan 2014. The major thrust of the presentation was on the 'Latest Technologies for Research'. The students and staff who attended the session were given an insight about the various advancements in the field of technology aided research.

Energy Efficient Construction

Dr. Paul Mathew, staff Scientist and Deputy leader of the Commercial Building Systems group at Lawrence Berkeley National Laboratory (LBNL), USA delivered a talk on 25th July 2014 for the third and fifth semester students. The session started with very captivating presentation on the various aspects about energy efficient structures and related construction practices prevailing in the field. He projected the innovations in the domain of energy efficient construction, which has become a prime topic of concern in the contemporary world.



Student Achievements

- Athira M, Anjali G.K, Nandini D, Elizebath Pranitha of S4 attended a one day National Workshop on Environmental management organised by Division of Civil Engineering, School of Engineering, under FSD of TEQIP II at CUSAT on 23rd January 2014.
- Sanah Fathima, Steve George Ayrukuzhi, Joshua Roy Paul of S1&2 attended a National seminar on 'Green Environment Theme and participated in the Paper and Poster presentation organized by the Civil department of Toch H Institute of Science & Technology on 17th and 18th December 2013.
- Neba C. Tony and Tinu Diamond of S4 attended a National Seminar on 'Green Environment Theme, Paper and Poster presentation organized by the Civil Department of Toch H Institute of Science & Technology on 17th and 18th December 2013.
- Roshan Iqbal, Gokul Krishnan, Indrajith S and Abdul Fahad Khan of S1&2 Civil participated in Nucleus Properties Excel 2014, a national level techno- managerial symposium hosted by Govt. Model Engineering College, Kochi in association with IEEE student branch on September 25- 27, 2014.
- Haritha Suresh of S1&2 participated in Abhiyanthriki 2K14, a national level Techfest held on 19th-20th 2014 at Rajagiri School of Engineering & Technology, Kochi.
- Steve George Ayrukuzhi, Joshua Roy Paul, Sajith J, Varun S. Kumar of S4 batch participated in the model making competition as a part of PANTHEON, organized by Indian Concrete Institute Student's Chapter, College of Engineering Trivandrum on August 29th 2014.
- Steve George Ayrukuzhi, Joshua Roy Paul of S4 and Jithin Sebastian, Joseph Joice, Eby Benny of S6 attended a National Seminar on " Role of Entrepreneurship in Economic development of India" at St. Paul's College, Kalamassery on 9th January 2015.

Purple League

Four students from first batch of Civil Engineering(2012-2017) were provisionally admitted to Purple League group of AISAT based on their performance in the first year University Exams, Personal interviews and GD. Purple League students will be given greater exposure by opening avenues to visit prestigious institutions and experts who could make a difference in various fields. The students had the opportunity to have interactions with professional geniuses including Dr. Babu Paul IAS, Dr. P.R Poduval, Dr. Beena George who are all experts in their own sphere of practice.

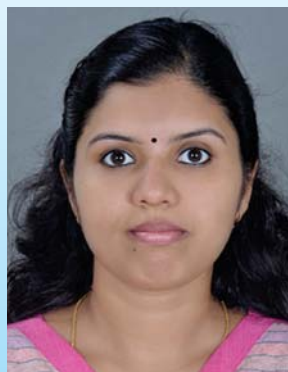
Kudos...

Ms.Merlin John of S5 secured the second place in the Toastmasters Evaluation contest at Division level, following her achievement as the first runner up in the area level contest.



Congratulations!!!

Ms. Athira I.C, Assistant Professor in the department secured First rank with Gold medal in M. Tech course **201** in Traffic and Transportaion Planning from NIT, Calicut.



Faculty Publications

- A paper entitled 'Pavement performance modeling using Fuzzy logic' authored by Saranya Ullas appeared in the proceedings of 11th Transportation Planning and Implementation Methodologies for Developing countries, held at IIT, Bombay in December 2014.
- A paper entitled 'Effect of Fibre in Controlling Desiccation cracks in clay liner soils' co-authored by Veena.V appeared in the proceedings of the Fourth International Conference on Geotechnique, Construction Materials and Environment, GEOMATE 2014 held at Brisbane, Australia from 19th to 21st November 2014.
- Ms. Veena V. presented a paper entitled 'Containment of desiccation cracks in Marine clay with fibre amendment' at the Sixth International Geotechnical Symposium on Disaster management in special geo environmental conditions, held at IIT, Madras during 21-23 January 2015.
- A paper entitled 'Estimation of Travel time for workers' authored by Athira I.C appeared in the proceedings of 11th Transportation Planning and Implementation Methodologies for Developing countries, held at IIT, Bombay in December 2014.
- Ms. Athira I.C presented a paper entitled 'Estimation of value of Travel time' at the Colloquium on Transportation System Engineering and management held at NIT Calicut during March 12-14 2014.
- Ms. Syama presented a paper entitled 'Removal of Chromium from water by adsorption onto laterite soil grains' at First Annual Conference on Innovations and developments in Civil engineering at NIT, Surathkal on May 19-29, 2014.
- A paper entitled 'Shaking table tests to investigate the influence of various factors on the liquefaction resistance of sands' authored by Ms. Renjitha Mary Varghese was published in the Journal, Natural Hazards, Springer, 73930, 1351-1371,2014.
- Ms. Renjitha Mary Varghese published a paper entitled 'Effect of overburden stress and surcharge pressure on the liquefaction response of sands', in the International Journal of Geotechnical Engineering, 7(4), 402-410, 2014.
- A paper entitled 'Shaking table studies on the conditions of sand liquefaction', co-authored by Ms. Renjitha Mary Varghese appeared in the ASCE Geotechnical Special publication, of Geo-Characterization and modeling for sustainability Geo-congress, Atlanta, USA,2014
- Ms. Renjitha Mary co-authored a paper entitled 'Initiation of liquefaction in sand under different surcharge and over burden stresses', which appeared in the proceedings of Indian Geotechnical Conference-2013, from 22-24 December at Roorkee.



ALBERTIAN INSTITUTE OF SCIENCE AND TECHNOLOGY

AISAT - Technical Campus, School of Engineering

(Approved by AICTE & Affiliated to Mahatma Gandhi University, Kottayam)

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