



TEJUS

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NEWSLETTER OF COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY

Foundation stone laid & Games Arena dedicated



Prof. K. V. Thomas, Hon'ble Union Minister for Food, Public Distribution and consumer affairs unveils the foundation stone for the new academic block. Dr. A. Ramachandran, Dr. K. Sajan, Dr. K. A. Zakkariya, Sri. Jamal Manakkadan, Cusat Vice-Chancellor Dr. Ramachandran Thekkedath, Dr. K. Poulouse Jacob & Sri. V. K. Ebrahim Kunju are looking on.

Sri. V. K. Ebrahim Kunju, Hon'ble Minister for Public Works, Govt. of Kerala is dedicating the University Games Arena at the Thrikkakara campus of Cusat. Hon'ble Union Minister Prof. K.V. Thomas is also seen.

Prof.K.V.Thomas, Hon'ble Union Minister of State for Food, Public Distribution & Consumer Affairs laid Foundation stone for

the New Academic Block at Cusat's Lakeside Campus in a colourful function on 30th September. Sri. V.K.Ebrahim Kunju,

Hon'ble Minister for Public Works also dedicated the newly built University Games Arena at the same function. (see page 3)

Dr. Paulose Jacob, New Cusat Pro-Vice Chancellor

Dr. K. Poulouse Jacob, Professor of Computer Science and Dean, Faculty of Technology at Cochin University has been appointed as the 11th Pro-Vice Chancellor of the Cusat.



A National Merit Scholar all through, Dr. K. Poulouse Jacob joined the service of Cochin University as a Lecturer in 1983, after being part of the R & D team of a Computer peripheral manufacturing industry for one year. His was the first Ph.D in Computer Engineering from the Cochin

University of Science and Technology. He has been serving as the Professor of Computer Science since 1994.

He is the founder Director of the School of Computer Science Studies. Two new M.Tech programmes were

started in the Department of Computer Science, under his leadership. He has initiated the development of several new laboratories. The Cusat intranet as well as the Cusat website were conceived and commissioned under his leadership. He has been Director of the Cusat Computer Centre and had initiated the Centre for Information Resource Management and he has been the Dean of the Faculty of Engineering and is Chairman, Board of Studies in Computer (see page 2)

Editorial...

It is time for me to say good bye to Cochin University again. For the last four years, this had been my home. Together we navigated through the rough as well as calm sea to reach and realise the vision for the university, enjoying each moment. Let me take this opportunity to share a few more of my

national community, depends upon research integrity. Strong institutional mechanism need to be put in place so that research integrity is not compromised. Vice Chancellor being the authority who ultimately vouches for the veracity of the research work from a university, I have made it my priority to develop a viable system to ensure this. Our International Relations division has been actively working for the



Every university administrator is periodically reminded of the prevailing dogma that university education should be geared to-

upon a major program on e-governance taking all stake holders in confidence and I hope we can reap its benefits in the near future.

Alumni support is one of the main strengths for any educational institution. The universities can tap into their expertise, experience and networks for innumerable purposes. CUSAT being one of the older

"CUSAT: On the right track"

thoughts on higher education and some of the initiatives we have taken at CUSAT in this regard.

The unprecedented transformations taking place in the educational landscape the world over make it imperative that we benchmark our education system to the best in the world. We need to learn from the new paradigms and practices sweeping the world while keeping our time-tested strengths intact. The thrust is on us to initiate measures to improve and maintain the quality of education by addressing the pertinent structural and infrastructural issues.

CUSAT pride itself on the cutting edge research activities being conducted here. The acceptability of the knowledge created in the university by the outside world, particularly by the inter-

last couple of years on measures to improve our transnational collaborations including student and faculty exchanges, joint degrees and developing innovative programs like 'Study in India'. These initiatives are expected to significantly improve our standing in the global educational arena.

We have realised the importance of activities like sports, arts, technical festivals, volunteer community support programs etc., along with academic and research opportunities, in the overall development of students. A SSCI.& TCH. university like CUSAT has limitations in this regard because of perceived time constraints and the stress of academic workload for the students, especially those in professional courses. In spite of these, CUSAT has taken several steps to encourage students to continue to pursue these interests of which the results are exciting.

wards employability even though education has a much higher and broader objective. It means that courses should be designed to suit the needs of the professions and that the curricula should have the right mix of theory and practice. For this, we are taking measures to review and update curricula regularly and provide training on soft skills, right aptitude, etiquettes and working in multicultural environment etc. Recently, we have launched the innovative and ambitious 'Student Entrepreneurship Program' which was very well received by the student community.

Universities pride themselves in teaching the state of the art courses. At the same time, we lag behind when it comes to application of technology in administration and governance of the university. We have embarked

universities has a strong alumni network, which we should develop into a valuable resource and support for the university.

I believe we have laid a strong foundation for our institution's prosperous future, but we have a lot more work ahead. CUSAT is moving in the right direction with all these long term measures in place and with the possibility of it becoming a central government institution soon, which is aimed to create a new Indian brand name in higher education and research globally. All these were possible because of our teamwork and I thank you all for your support, encouragement and criticisms. I wish the university and its community continued growth and a brighter future.

Thank you.

Dr. Ramachandran Thekkedath

(from page 1)

New Pro-Vice Chancellor

Science as well as Chairman of Board of Studies in Engineering. He is also Dean of the Faculty of Technology and Member of the Cusat Syndicate. As a member of the Standing Committee of the University Grants Commission, he was part of policy making in Computer education and development at the national level. His research interests are mainly in Intelligent Architectures, Networks, Information Systems Engineering and Artificial Intelligence.



Dr. K. Poulouse Jacob assumes charge as the 11th Pro-Vice Chancellor of Cusat before the Cusat Vice Chancellor Dr. Ramachandran Thekkedath. (R-L) Dr. S. David Peter, Director, IRAA, Sri. Sebastian Ouseph, Finance Officer, Dr. A. Ramachandran, Registrar, Dr. A. B. Bhasi, Controller of Examinations, Ibrahim K. M., PA to VC and Dr. S. Anil Kumar, Director, Public Relations and Publications are also seen.



Prof. K. V. Thomas, Hon'ble Union Minister for Food & Public Distribution and Consumer Affairs addresses the gathering after laying the foundation stone for the new academic block at Lakeside campus. Dr. A. Ramachandran, Registrar, Dr. K. A. Zakkariya, Syndicate Member, Dr. K. Sajan, Syndicate Member, Cusat Vice Chancellor Dr. Ramachandran Thekkedath, Sri. V. K. Ebrahim Kunju, Hon'ble Minister for Public Works, Sri. Jamal Manakkadan, Kalamassery Municipal Chairman and Dr. K. Poulouse Jacob, Pro-Vice Chancellor are on the dais.



Sri. V. K. Ebrahim Kunju, Hon'ble Minister for Public Works, Govt. of Kerala speaks after dedicating the Games Arena. Dr. K. A. Zakkariya, Dr. K. Sajan, Cusat Vice Chancellor Dr. Ramachandran Thekkedath, Sri. Jamal Manakkadan and Dr. K. Poulouse Jacob are looking on.

(from page 1)

Foundation Stone Laid ...

The Central Government is considering separation of Fish Farming and Animal Husbandry from Agricultural Department and forming a new Dept. for them, according to Prof. K. V. Thomas, Hon'ble Union Minister of State for Food & Public Distribution and Consumer Affairs. This is expected to provide a favourable atmosphere for the systematic development of these sectors. He was speaking while laying the foundation stone for the new Academic Building at Lakeside Campus, Cusat.

Sri. V. K. Ebrahim Kunju, Hon'ble Minister for Public Works, Govt. of Kerala dedicated the Games Arena built at the Thrikkakara campus of Cusat for a cost of Rs. 37 lakhs in the presence of Prof. K. V. Thomas, Hon'ble Union Minister. Cusat Vice Chancellor Dr. Ramachandran Thekkedath presided over the formal function while Dr. K. Poulouse Jacob, Pro-Vice Chancellor, Cusat, Jamal Manakkadan, Municipal Chairman, Dr. K. Sajan, Dr. K. A. Zakkariya, Syndicate members, Cusat and Dr. A. Ramachandran, Registrar, Cusat spoke. ■

Kochi Smart City officials visit Cusat



Dr. K. Poulouse Jacob, Pro-Vice Chancellor is interacting with Smart city officials at Cusat Administrative office. Sri. Sebastian Ouseph, Jijo Joseph, Abdul Latheef Al Mulla and Baju George are also seen.

Mr. Abdul Latheef Al Mulla, Vice Chairman, Kochi Smart City and CEO, Teecom Group visited Cochin University of Science and Technology and held discussions with Dr. Poulouse Jacob, Pro-Vice Chancellor, Cusat on possible collaborative activities in the higher education sector. Shri. Sebastian Ouseph, Finance Officer, Cusat, Shri. Jijo Joseph, CEO and Shri. Baju George, MD, Smart City also took part in the discussions held at the chamber of the PVC on 3 July.

Cusat launches Integrated Ph.D. programmes

The 5 year Integrated LL.M. Ph.D. and Master of Intellectual Property (M.I.P). Ph.D. Programmes of Cochin University of Science and Technology were launched by the Cusat Vice Chancellor Dr. Ramachandran Thekkedath on 11th July at a function organized at the Inter University Centre for Intellectual Property Rights Studies (IUCIPRS). The one of its kind programmes provide an opportunity to students from law as well as other backgrounds to appreciate the depths of IPR.

In his inaugural address Cusat Vice Chancellor Dr. Ramachandran Thekkedath emphasised that IPR should be considered as Intellectual Property Responsibility as well as Intellectual Property Rights thereby focusing on the social responsibility attached with IP protection.

Dr. K.N. Chandrashekar Pillai, Director, National Judicial Academy, Bhopal elaborated on the contemporary relevance of IP and the need to produce expertise to represent India at an international level on IP policy making. He also

expressed a hope that the Centre will grow to develop into a research hub which will cater to this need.

Dr. N. S. Gopalakrishnan, Director, Inter University Centre for Intellectual Property Rights Studies (IUCIPRS) welcomed the gathering. Dr. V.S. Sebastian, Dean, Faculty of Law and Dr. N.S. Soman, Director, School of Legal Studies spoke on the occasion. Dr. Prabha Nair proposed the vote of thanks.



Cusat Vice Chancellor Dr. Ramachandran Thekkedath is lighting the lamp marking the inauguration of Integrated Ph.D Programmes. Also seen are Dr. V.S Sebastian, Dr.K.N Chandrashekar Pillai, Dr. N.S Gopalakrishnan and Dr. N.S Soman

Cusat takes the initiative on Student entrepreneurship

The Academic Council of Cochin University of Science and Technology has decided to grant 5% attendance to Athul B. Raj, a B.Tech Computer Science student at School of Engineering in recognition of his entrepreneurial initiative on 27 July. The decision comes in the wake of the newly enacted Student Entrepreneurship

Scheme of the Kerala Government, designed to encourage student entrepreneurs in the state. Cochin University is the first university in the state as well as the country to take such an initiative aimed at nurturing student start-up companies. Athul B. Raj's business venture is in the incubation stage at the Kochi Startup village.

Seminar on Software Engineering

Specialize in selected software areas to excel: IIT Director

Success in software engineering can be achieved only through specialization in specific areas, according to Dr. P. J. Narayanan, Director, IIT, Hyderabad. He was delivering the inaugural address at the Seminar on Software Engineering organized by the Dept. of Computer Science, Cochin University of Science and Technology on 13th August.

The capability and mental fortitude to do the unexpected will be of immense support to those in this field. The setting up of a software company or earning money does not spell success. The secret of success in software engineering is continu-

ous and advanced training programmes, he added.

Cusat Vice Chancellor Dr. Ramachandran Thekkedath who presided over the inaugural function opined that the diversity in projects undertaken makes a software professional complete.

The capability and mental fortitude to do the unexpected will be of immense support to those in this field. The setting up of a software company or earning money does not spell success. The secret of success in software engineering is continuous and advanced training programmes.

Dr. K. Poullose Jacob, Pro-Vice Chancellor, Dr. K. A. Zakkariya, Syndicate Member and Sri. M. G. Biju, Chairman, Cochin Chapter, Computer Society of India offered felicitations. Dr. Sumam Mary Idicula, Head, Dept. of Computer Science welcomed the gathering and Dr. G. Santhosh Kumar proposed the vote of thanks.

Engg. studies for social development: District Collector

Engineering studies and the ensuing technical training should be aimed at ensuring social development, according to Sheikh Pareed, IAS, Ernakulam District Collector.

He was delivering the inaugural address at the Orientation programme organized by the School of Engineering, Cochin University of Science and Technology for the first year B.Tech students on 22 July. 'A good engineer can be created only through imparting soft skills in addition to technical knowledge', he added.

Cusat Vice Chancellor Dr. Ramachandran Thekkedath in his presidential address said that engineering students should focus on developing their inherent talents and utilize them for the betterment of society.

Dr. K. Poullose Jacob, Pro-Vice Chancellor, Dr. G. Madhu, Syndicate Member and Principal, School of Engineering, Dr. K. A. Zakkariya, Syndicate Member, Dr. A. Ramachandran, Registrar, Dr. Sasi Gopalan, TEQIP Coordinator and Dr. M. R. Radhakrishna Panikkar, Secretary, PTA spoke on the occasion.

Centre for Advanced Studies Status for Cusat Physics Department

The Department of Physics, Cochin University of Science and Technology has been recognized as a "Centre for Advanced Studies (CAS)" by the UGC in the areas of Materials Science and Theoretical Physics. An amount of Rs. 1.1 Cr. has also been sanctioned for equipment and recurring expenditures for five years from 2013 to 2018. The UGC sanctioned the 'Centre for Advanced Studies' level to the department as it has performed high level research and other academic activities. Recently, the Depart-

ment had received a grant of Rs. 1.76 Crore under the FIST Program of the Department of Science and Technology considering its academic and research activities in the area of materials science and theoretical physics.

The University Grants Commission sanctioned the 'Centre for Advanced Studies' level to the Physics Department as it has performed high level research and other academic activities.

The department was getting financial support from the UGC right from 1988 onwards under the Department of Research Scheme (DRS). This was later upgraded to the Departmental Special Assistance (DSA) scheme based on the research output from the Department of Physics, said Dr. K. P. Vijayakumar, Co-ordinator of the Centre.

Cusat Physics Department is the first University Physics Department in the state of Kerala being recognized with CAS status, Dr. K. P. Vijayakumar added.



Justice Kurian Joseph is inaugurating the International Conference on Cyber Crimes and Law. Seen on the dais are Dr. M Bhasi, Dr. K.A Zakkariya, Cusat Vice Chancellor Dr. Ramachandran Thekkedath and Dr. Sam Thomas

Fight cyber-crimes with Precautionary measures: Justice Kurian Joseph

The anonymous nature of internet encourages the presence of more vices than virtues in the virtual space according to Hon'ble. Justice Kurian Joseph, Judge, Supreme Court of India. He was inaugurating the International Conference on Cyber Crimes and Law: 2013 organized by

School of Management Studies, Cochin University of Science and Technology on 17th August. The Information Technology Act 2000 and the cyber laws that came into being in 2008 barely cover cyber-crimes. But awareness of the laws is considerably low in the country. Today smart-phone

users have also become highly vulnerable to such crimes. Women who are the targets in most cases should take more care in preserving their personal details from the public eye. Justice Joseph, who also described hacking, stalking and voyeurism, emphasized the need for precautionary measures to avoid all such crimes.

Cusat Vice Chancellor Dr. Ramachandran Thekkedath presided over the function where K. Padmakumar IPS, Inspector General of Police, Ernakulam Range delivered the key-note address. Dr. M. Bhasi, Director, School of Management Studies and Organizing Secretary for the Conference welcomed the gathering. Dr. K. A. Zakkariya, Syndicate Member and Dr. Sam Thomas offered felicitations.

Cusat B Tech Engg. results announced

The results for B. Tech Engineering VIII Semester examinations held in April 2013 by Cochin University of



HUSNA P



ABHIJEET SAURABH

Science and Technology for various Engineering Colleges under Cusat were published on 18 June 2013. The details



SACHIN VISWANATHAN



AKSHARA RAVI

of first rank holders in various branches are as follows.

Civil Engineering: Husna P (School of Engineering, Cochin University of Science and Technology)

Mechanical Engineering: Abhijeet Saurabh (School of Engineering, Cochin University of Science and Technology)

Safety & Fire Engineering: Sachin Viswanathan (School of Engineering, Cochin University of Science and Technology)

Computer Science: Akshara Ravi (College of Engineering, Kalllooppara)

Electronics and Communication Engineering: Remya Haridas (College of Engineering, Cherthala)

Electrical & Electronics Engineering: Sruthi MI (Model Engineering College, Thrikkakara)



REMYA HARIDAS



SRUTHI M. I.

Electronics & Biomedical Engineering: Neethu Lekshmi V J (Model Engineering College, Thrikkakara)



NEETHU LEKSHMI V. J.



ANJU SKARIA

Electronics & Instrumentation Engineering: Anju Skaria (T K M Institute of Technology, Kollam)

Information Technology: Lisa Paul P (Toc H Institute of Science and Technology, Arakkunnam)



LISA PAUL P.



JAYASREE JOSHI T.

Food Technology: Jayasree Joshi T (T K M Institute of Technology, Kollam).

Record placements for Cusat B.Tech students

Cochin University of Science and Technology has scored high in the first round of placements for final B.Tech students with 103 students gaining placement, according to Shri. C. V. Premkumar, Faculty in-charge. Many more reputed companies are expected to reach the Campus for recruitment in the coming months of October and November 2013, he added. Last year also Cusat students were placed in an impressive manner during campus placements.

Digitalization : e-governance workshop held

e-governance will help the University administration transparent and convenient, said Cusat Vice-Chancellor Dr. Ramachandran Thekkedath. The digital administration will improve the efficiency of the University governance and reduce the difficulties of students, he added during the inaugural address at the one day workshop on e-governance on 12th June.

Dr. A. Ramachandran, University Registrar presided. Sri. G. Alexander, Joint Director, C-DAC, Dr. K. Paulose Jacob, Head of Department, Computer Science, Cusat and Dr. Sunil K. Narayanankutty, Head of Department, Polymer Science and Rubber Technology spoke.

Ozone layer & Climate change: National Symposium held



Cusat Vice Chancellor Dr. Ramachandran Thekkedath inaugurates the Symposium. Dr. C.A Babu, Prof. K. Sajan, Prof. K. Mohan Kumar & Dr. V. Madhu are also seen.

The Department of Atmospheric Sciences, Cusat conducted a National Symposium on 'Preservation of Ozone layer & climate change' on 24th September.

Cusat Vice-Chancellor Dr. Ramachandran Thekkedath

inaugurated the Symposium. The inaugural function was presided over by Prof. K. Mohan Kumar, Faculty & Dean of Environmental Studies. Prof. K. Sajan, Syndicate Member & Dean, Faculty of Marine Sciences, Dr. C. A. Babu, Head,

Department of Atmospheric Sciences and Dr. V. Madhu spoke on the occasion.

Various theories regarding protection of the ozone layer and climate change were put forward by Prof. K. Mohan Kumar, Dean, Faculty of Environmental Studies and Dr. Prabha R. Nair, Scientist, Space Physics Laboratory, VSSC, among others.

The Ozone cell, Government of India has been celebrating the International Ozone day for preservation of Ozone layer since 1995. The Symposium organised in this connection was sponsored by Kerala State Council for Science, Technology and Environment, Govt. of Kerala, Thiruvananthapuram. ■

Preserve and sustain bio-diversity: Cusat Vice-Chancellor

It is the moral duty of each human being to preserve and sustain the bio-diversity on earth, according to Cusat Vice Chancellor Dr. Ramachandran Thekkedath. More

than the mere ritualistic planting of trees, greening should be taken as our responsibility towards the future generations and a permanent part of our culture,



Cusat Vice Chancellor Dr. Ramachandran Thekkedath delivers the inaugural address at Greening Cusat 2013 organized by the Department of Youth Welfare. Dr. P. S. Sreejith, Principal, School of Engineering, Dr. A. Ramachandran, Registrar, Sri. P. K. Sivanandan, Vice President (Technical), Petronet CCK Ltd., Dr. K. A. Simon, Director, School of Marine Engineering and Sri. Jalin K. Thampi, Terminal Manager, Petronet CCK Ltd. are on the dais.

he added. He was inaugurating the programme 'Greening Cusat 2013' organized by the Department of Youth Welfare, Cusat on 5 June. The venture for planting more than 200 saplings in the University campus was in collaboration with the National Service Scheme (NSS) unit at School of Engineering, Cusat, Petronet CCK Ltd, Kochi and Department of Forests and Wildlife, Govt. of Kerala.

P. K. Sivanandan, Vice President (Technical), Petronet CCK Ltd. Dr. P. K. Baby, Director, Department of Youth Welfare, Dr. A. Ramachandran, Registrar, Dr. P. S. Sreejith, Principal, School of Engineering, Dr. K. A. Simon, Director, K. M. School of Marine Engineering, Dr. M. B. Santosh Kumar, Programme Co-ordinator, NSS, SOE, Cusat unit and Jalin K. Thampi, Terminal Manager, Petronet CCK Ltd spoke. ■

SOE Principal appointed Director IHRD

Dr. P.S. Sreejith, Principal at the School of Engineering, Cochin University of Science and Technology



has been appointed Director of the Institute of Human Resources Development by the Government of Kerala during July 2013.

Dr. Sreejith, who joined the Mechanical Engineering Division of Cusat in 2000 also has wide experience in industry. He has obtained a Master's Degree from IIT, Kanpur, a Ph.D from IIT, Chennai and is a Post-Doctoral Fellow of Nanyang Technological University, Singapore.

Cusat Senate elects member to KAU General Council

The members of the Cochin University Senate which met on 23 September 2013, elected Sri. N. L. Sivakumar to the General Council of Kerala Agricultural University. He is currently a Section Officer at Vellayani Agricultural College, Kerala Agricultural University.

Extension block of Marine Cadet Hostel

The newly completed extension block of Marine Cadets' Hostel at the KM school of Marine Engineering and canteen building of School of Engineering will be inaugurated by Shri K. Babu, Hon'ble Minister for Fisheries, Ports and Excise on 15 November.



Shri. Paul Antony IAS, Chairman, Cochin Port Trust is unveiling the plaque marking the dedication of an anchor of a merchant ship at premises of the KM School of Marine Engineering, Cusat. Dr. A. Ramachandran, Registrar, Sri. Vivek Agarwal, General Manager, Lakshadeep Dev. Corporation, Prof. (Dr.) K. A. Simon, Director, KMSME and Cusat Vice Chancellor Dr. Ramachandran Thekkedath are looking on.

Anchor dedication ceremony at School of Marine Engineering

The K. M. School of Marine Engineering of Cusat installed a ship's Anchor in front of the School administrative building as a dedication to all seafarers on 10 September 2013. The dedication was performed by Shri. Paul Antony IAS, Chairman, Cochin Port Trust and presided over by the Cusat Vice-Chancellor Dr. Ramachandran Thekkedath.

The Anchor which was donated by The Cochin Port Trust for the benefit of the Maritime Students of Cochin University, weighing around 6

tones is made of cast steel with forged steel chain which originally belonged to a Merchant ship having dead weight of approximately one lakh tonnes.

Sri. Vivek Agarwal, General Manager, Lakshadeep Development Corporation Limited was the Guest of Honour. Dr. A. Ramachandran, Registrar, Sri. V. J. Jose, Chief Mechanical Engineer, Cochin Port Trust, Dr. K. A. Simon, Director, KMSME and Prof. N. G. Nair, Course-in-charge, spoke on the occasion.

Principals meeting held at Cusat

The Principals of all Engineering Colleges recognized by Cochin University of Science and Technology met to discuss various issues concerning the measures to be taken for improving the quality of engineering education on 27th August 2013.

Cusat Vice-Chancellor Dr. Ramachandran Thekkedath presided. Dr. K. Paulose Jacob, Pro-Vice Chancellor, Dr. K. A. Zakkariya and Dr. G. Madhu, Members of Syndicate and Sebastian Ouseph, Finance Officer in-charge of the Registrar spoke.



Dr.Poullose Jacob, Pro-Vice Chancellor, Cusat is inaugurating the National Workshop on Modern Techniques in Geo Technical Engineering and Construction Engineering. Dr.S.R.Gandhi, Head,Civil Engineering Division, IIT Madras, Pietro Rimoldi, noted Geo synthetic expert, Sri.Ashish d Carpure, Director Meccafferri Environmental Solutions Pvt Ltd, Dr.Job Thomas, Reader, SOE, Dr.G.Madhu, Principal, School of Engineering and Dr. K. S. Beena, Head, Division of Civil Engineering, SOE are looking on.

27 September. Dr.Poullose Jacob, Pro-Vice Chancellor, Cusat inaugurated. In his address he opined that the lack of effective testing of soil before commencement of construction is the reason for low structural strength in most projects. Around 200 delegates from different walks of life, including Civil Engineers, Geo-Technical Engineers and students attended the workshop.

Modern construction methods for coastal regions and river banks, applications of Geo synthetics in road works etc. were among the topics discussed.

Dr. G. Madhu, Principal, School of Engineering, Cusat Dr. K. S. Beena, Head, Division of Civil Engineering, Dr.Gandhi, Head, Civil Engineering Division, IIT Madras, Pietro Rimoldi, noted Geo synthetic expert, Ashish D Garpure, Director Meccafferri Environmental Solutions Pvt Ltd and Dr.Job Thomas address the gathering.

Cusat workshop on Geo Technical Engineering held

The Division of Civil Engineering at School of Engineering, Cochin University of Science and Technology, con-

ducted a National workshop on Modern Technics in Geo Technical Engineering and Construction Engineering on

Cusat Ship Technology Celebrates Environment Day

The Department of Ship Technology, Cochin University of Science and Technology celebrated the World Environment Day on 5 June 2013.

Sri. I. K. Jayadevan, Syndicate Member, Cusat inaugurated the day's activities by planting a seedling at the premises of the department. Lt. Cdr. P. K. Satheesh Babu, Indian Navy and Dr. K Sivaprasad, Head of the Department of Ship Technology, Cusat were present during the Environment Day Celebrations held at the department.



Shri. I. K. Jayadev, Syndicate Member, Cochin University plants a sapling in the garden of Department of Ship Technology on World Environmental Day - 2013. Teachers and other Cusat employees are looking on.

Marking a first in the history of B.Tech Marine Engineering in South India, a girl student has stepped into the world of navigation on the high seas. It is the K. M. School of Marine Engineering, Cochin University of Science and Technology which paved the way for this historic event has admitted a girl candidate, Ms. Nila to the B.Tech Marine Engineering course this year. Ms. Nila John, whose sole aspiration was to become an engineer, had a change of heart when she browsed the Cusat website and chanced upon the Marine Engineering course. So when



First Woman Seafarer joins Cusat Marine School

most of her peers opted for the conventional streams in Engineering like Civil and Mechanical she stood out among them by choosing a career on the high seas. Although Ms.

Nilia was not the only girl applicant for the course, she was the lone candidate who possessed the stringent physical as well as academic requirements specified by the Director General of

Shipping and AICTE. She has also automatically become the first girl candidate to gain admission for the Marine Engineering course among all colleges in the state of Kerala. The only female presence among forty in a class, she enjoys the encouragement from her teachers as well as the gender equality in the campus.

Girl students also enjoy a 50% waiver in their tuition fees, as per the directives of the DG Shipping which would encourage more of the fairer sex to join the course said Prof. N. G. Nair, Course Co-ordinator and Prof. K.M. Simon Director, KMSME.

Visit of Prof. A. K. Nema of IIT, Delhi

Prof. A. K. Nema, Department of Civil Engineering, Indian Institute of Technology, New Delhi visited School of Engineering (SOE) on 5th June, in his capacity as the performance auditor for the TEQIP Project Phase II being implemented in School of Engineering. He held discussions with Dr. P.S.

Sreejith, Principal, SOE, Dr. G. Madhu, TEQIP II Co-ordinator, Nodal officers of TEQIP and Heads of divisions. Dr. Nema, an expert in Solid waste management and Environmental modeling addressed the M.Tech students of School of Engineering on the occasion of World Environment Day.



Prof. A.K Nema, Department of Civil Engineering, Indian Institute of Technology, New Delhi is addressing the M.Tech students of School of Engineering.

International Symposium on Ocean Electronics

The twelfth biennial Symposium on Ocean Electronics, 2013 (SYMPOL 2013) being organized by the Department of Electronics, Cusat is scheduled to be held during 23 -25 October 2013. This is organized as a biennial program and the first symposium of the series was held in the Cochin University of Science and Technology in Dec 1999. The symposium is intended to provide a forum for the researchers in the area of Ocean Electronics to interact with each other and present their innovative ideas and findings.

National Conference on Language Computing

The fourth National Conference on Indian Language Computing (NCILC-2014) is scheduled to be held in the Department of computer Applications during 1-2 February 2014. email:cusatncilc@gmail.com.

NSS Day celebrated at Cusat

Cusat NSS P.G. Unit celebrated the NSS Day on 24 Sept. 2013. As part of the celebrations, the NSS volunteers undertook Plastic cleaning drive in the Thrikkakara main campus. The NSS Day celebrations and cleaning drive was inaugurated by Dr. Santhosh Kumar. M. B., Cusat NSS Programme Co-ordinator. Dr. D. Mavoothu, NSS Programme Officer (Cusat P. G. Unit) welcomed the gathering. Mr. Asheeqe Nasim and Ms. Dhanya Francis, volunteer-Secretaries led the arrangements for the drive. ■

Radhakrishnan, Principal Scientist, Boston Scientific, Minnesota, USA delivered a talk on "Evolution from an idea to the end user - the case of Medical Devices" while Dr. James Thomas, Senior Cardiac Surgeon and former Vice Chancellor, D Y Patil University, Mumbai handled the topic "Recent trends in Management of Cardiology and Cardiac Surgery". The talks were held at the Hall of Fame, School of Management Studies and a large audience including eminent academicians and research scholars attended. ■



K.M.School celebrates World Maritime Day

The World Maritime Day is being celebrated all over the shipping world to focus attention on the importance of Maritime Industry in general and seafarers and their training in particular, during the last week of September every year. At Cochin, the valedictory function of this year's World Maritime Day was conducted at K M School of Marine Engineering, Cochin University of Science and Technology on 27 September 2013. The theme of this year's discussion was "Sustainable development: IMO's contribution beyond RIO+20".

Capt.P.Misra, Dy.Nautical Advisor of Mercantile Marine Department, Cochin presided over the function. Technical papers were presented. Mr.Shammy. K, Surveyor-in-Charge, Indian Register of Shipping, Capt. J. Ambady, Indian Maritime University, Prof. Dr. P. V. Sasikumar, K M School of Marine Engineering, Mr.Jayachandran, MMD, Cochin, Prof. Dr. K. A. Simon, Director, KM School of Marine Engineering and Prof. N. G. Nair, K.M School of Marine Engineering spoke on the occasion. ■

Invited Talks by experts at SMS



Dr. James Thomas, Senior Cardiac Surgeon and former Vice Chancellor, D Y Patil University is interacting with the faculty and students of SMS, Cusat.

The School of Management Studies, Cochin University of Science and Technology con-

ducted an invited talk by two eminent personalities on 5th July 2013. Dr. Rajesh

Ph. D Awardees

Chinthu Romeo Cholinergic Receptor Subtypes Functional Regulation In Spinal Cord Injured Monoplegic Rats: Effect of 5-HT, Gaba and Bone Marrow Cells (Dr. C. S. Paulose)

Santhosh Kumar Pandey Geometric Algebra and Einsteins Electron: Deterministic Field Theories (Dr. R. S. Chakravarthi)

Vidya Francis Modification of Linear Low Density Polyethylene for Improved Photo and Biodegradation (Dr. Eby Thomas Thachil)

Jayesh P. Development of Lymphoid Cell Culture System from *Penaeus Monodon* and Molecular Approaches for its Transformation (Dr. I. S. Bright Singh)

Bindu V. Development and Evaluation of Soft Computing Techniques for Sensorless Vector Control of AC Drives (Dr. R. Gopika Kumari)

Rashiba A. P. Studies on copepods of EEZ of India- Bay of Bengal and Andaman sea (Dr. Saramma U. Panampunnayil)

Jaison C. A. Assessment of Water quality along the Coastal area of Kerala: A Study of the Tsunami Impact on Ground Water (Dr. V. Sivanandan Achari)

Sudheer S.P The Impact of Globalisation On The Spices Economy of Kerala with Special Reference to Pepper (Dr. P. Arunachalam)

Annie C. F. Ligation Properties of N4 Phenyl semi carbazones towards Transition Metals: Synthesis and Spectral Studies (Prof. M. R. Prathapachandra Kurup)

Vidya G. Blue, Green and Orange- Red light Emitting Polymers: Synthesis, Characterization and Prospects of Application in Optoelectronic Devices (Dr. Rani Joseph)

Rajiv Tomy M. Structural, Electrical and Electrochemical Characterization of High Frequency magnetron Sputtered Spinal oxide Cathode films for Lithium ion Battery Applications (Prof. S. Jayalakshmi)

Saju Eapen Thomas Role of Social Pressure as a Key Contributor of Materialism and Related Status Consumption (Dr. P. R. Wilson)

Jaya Narayanan S. Glutamatergic NMDA and AMPA Receptors Functional Regulation in Streptozotocin Induced Diabetic Rats: Effect of Vitamin D3 and Curcumin Supplementation (Dr. C. S. Paulose)

Vinu Prakash Sedimentological and Geotechnical studies of Coastal Sediments of Central Kerala (Prof. A. C. Narayana)

Dileplal J. Multi objective Assembly Job Shop Scheduling using Genetic algorithm and Tabu Search (Dr. K. P. Narayanan)

Indu P.S. Samakaleen Hindi Upanyasommein Paristhithic Sajagatha Ka Adhyayan (Dr. M. Shanmughan)

Sonal Kumar Jain Dayglow Emissions on Mars and Venus (Dr. Anil Bharadwaj)

Angel Susan Cheriyan On the Improvement of Window and Absorbent layer Properties of Sprayed Cu InS₂/

In₂S₃ thin film solar Cells using Doping and Multilayer Structure (Dr. K.P. Vijayakumar)

Mayalakshmi R. Jaya Sankar Prasad aur Mohan Rakesh ke Natakomeke Tulanatmak Anuseelan (Dr. N.G. Devaki)

Praveen N. Development of a Biometric Personal Authentication System Based on Finger Print and Speech (Dr. Tessamma Thomas)

Sreeraj M. A writer Identification System for Handwritten Malayalam documents (Dr. Sumam Mary Idicula)

Sandhya Kumari L. Synthesis, Characterization and Optical Properties of Rare Earth-Transition Metal based Environmentally friendly Red and yellow Pigments (Dr. P. Prabhakar Rao)

D.S. Pramila Devi Synthesis, Characterization and Properties of Conductive Elastomeric Composites based on Polypyrrole and short Nylon-6 Fiber (Dr. Sunil K. Narayanan Kutty)

Vinodkumar Jacob Characterization of Human and Instrument Related Measurement Errors (Dr. M. Bhasi)

Shalin Saleem Application of Ocean Colour Data to Study Oceanographic and Atmospheric Features off the Southwest Coast of India with special reference to upwelling (Dr. K.V. Sanil Kumar)

Zeena P. Hamza Ionomer Compatibilized Low Density Poly ethylene-Tapioca Starch Blends Bio-degradability and Photo-degradability (Dr. Thomas Kurian)

Pratheesh V. B. Ecotoxic Metal Records and its Degree of Geochemical Symphony in the Niche of Cochin Estuarine System-A Theraptic Perspective (Dr. Sujatha C.H.)

Neil Scolastin Correya Heterotrophic Bacteria from the Continental Slope Sediments of Arabian Sea. (Dr. Rosamma Philip)

Bindu M.S. Design and development of a Named Entity based Question answering System for Malayalam Language. (Dr. Sumam Mary Idicula)

Surekhamol I.S. Vibriyo Harveyi Phages; Isolation, characterisation and evaluation

of their Potential as Phage Therapeutics on Vibrio Harveyi in Shrimp Hatcheries (Dr. I.S. Bright Singh)

Sreevalsa V.G. Investigations on Some Amino Acid Based Single Crystals for Non-Linear Optical Applications and Amino Acid capped Nano crystals (Prof. S. Jayalakshmi)

Jomon P. Jacob Ground and excited state Electron Transfer Reaction Between A Few Anthracene Appended Tertiary Amines and some Suitable Electron acceptors (Dr. Prathapan S.)

Krishna Mohan K.S. Environmental Influences on the Frequency and Intensity of

North Ocean Tropical Cyclones (Dr. K. Mohan Kumar)

Cilla Abraham Effects of Mono specific and Mixed Algal Diets on Survival, Development and Biochemical composition of Penaeus Monodon Larvae. (Dr. C.K. Radhakrishnan)

Reema Kuriakose Marine Yeast isolates from Arabian Sea and Bay of Bengal: Biochemical, Molecular and Phylogenetic analysis (Dr. Rosamma Philip)

Arun Aravind Synthesis and Characterization of 3d Transition Metals Doped ZnO Thin films and Nanostructures for Possible Spin Tronic Applications (Dr. M. K. Jayaraj)

German Day celebration and Teachers' workshop held

The Department of English and Foreign Languages, in collaboration with Goethe Institute, Max Mueller Bhavan conducted a German Day & Workshop for German Teachers on 23 August. The event was inaugurated by Cusat Vice-Chancellor, Dr. Ramachandran Thekkedath. Smt. Brinda Bala Sreenivasan welcomed the gathering. Ms. Ivy Thomas, Trainer, Goethe Institute, Bangalore was the key speaker and Prof. A. Achuta Menon, former Head of the Department, proposed the vote of thanks. The inauguration



Cusat Vice Chancellor Dr. Ramachandran Thekkedath inaugurates the German Day celebrations at Dept. of English and Foreign Languages by lighting the ceremonial lamp. Smt. Brinda Bala Sreenivasan, Head, Dept. of English and Foreign Languages, Ms. Ivy Thomas, Trainer, Goethe Institute, Bangalore and Prof. A. Achuta Menon, former Head of the Department, among others are looking on.

was followed by an information session on German for

students and a workshop for German Teachers.

Cusat Mathematics Olympiad on 01 December 2013

The Department of Mathematics, Cochin University of Science and Technology will be conducting the Regional Mathematics Olympiad at various centres around the state on 1st

December in association with the National Board for Higher Mathematics, Dept. of Atomic Energy, Govt. of India, according to Dr. A. Vijayakumar, Professor, Department of Mathematics,

Cusat and Co-ordinator of the Regional Mathematics Olympiad. All arrangements for the smooth conduct of the Maths Olympiad have been completed, it is also informed.

Campus Notes

National Essay Competition: Cusat student bags prize



Ms. Kavitha N. Karunakaran, an M.Sc student at the Department of Statistics, Cochin University of Science and Technology has won the third prize at the National Essay Competition conducted by the Central Government's Statistics and Programme Implementation Department. The prize was handed over at a function held at Vigyan Bhavan, New Delhi on Saturday. This is the third consecutive year in which students from Cusat have secured prizes at this prestigious competition. Ms. Archana Dileep and Mohammed Anwar P had won the 2nd and 3rd prizes in 2011 while Ms. Parvathy G. Nair had won the 2nd prize in 2012.

Award for SMS Professor

An article by Dr. Sebastian Rupert Mampilly, Professor, School of Management Studies, Cusat entitled "A Model

for Student Mentoring in Business Schools" which was published in International Journal of Mentoring and Coaching in Education, by Emerald Publishers has been chosen for Outstanding Paper Award Winner at Literati Network Awards for Excellence 2013.

Best Ph.D award for CUCEK Teacher



Dr. Sunilkumar N, Associate Professor, Division of Civil Engineering, Cochin University College of Engineering, Kuttanad, (CUCEK) has been selected for the N.S.Govinda Rao medal for the best Ph.D thesis in the year 2011-2012 from the Department of Civil Engineering, Indian Institute of Science, Bangalore. The title of his thesis is "Smooth finite element methods through polynomial reproducing DMSplines".

Dr. Sunilkumar had completed his research under the supervision of Prof. Debasish Roy, Computational Mechanics Lab, Department of Civil Engineering, IISc, Bangalore. The award had been presented in a function by Prof. Balaram, Director, IISc on 3 of March 2013 (the founder's day of Indian Institute of Science).

Fulbright Scholarship to Cusat Faculty



Dr. A. A. Mohamed Hatha, Associate Professor, Dept. of Marine Biology, Microbiology and Biochemistry,

Cochin University of Science and Technology was selected for the prestigious Fulbright-Nehru Visiting Lecturer Fellowship.

The Fulbright Program is one of the most prestigious awards programs worldwide, operating in over 155 countries. Forty-three Fulbright alumni have won Nobel Prizes and seventy-eight have won Pulitzer Prizes. More Nobel laureates are former Fulbright recipients than any other award program.

State Level Leadership Training Programme

The National Service Scheme is organizing a state level leadership training programme under the auspices of its Cusat unit on 11 October 2013. Sri. Sheik Pareeth, District Collector, Ernakulam will inaugurate the programme on 'Youth challenges and Change managers'.

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The Vice Chancellor

Dr A Vijayakumar

Dr N G Devaki

Dr S Anil Kumar (*Convenor*)

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Probing the Monsoon: Cusat launches Balloon experiments



Cusat Vice Chancellor Dr. Ramachandran Thekkedath is inaugurating the radiosonde balloon experiments supported by Dr. K. Mohan Kumar and Dr. K. R. Santhosh at the Thrikkakara campus of University.

Detailed analysis is expected to give more information about the active as well as break phases of the monsoon from Kochi which is considered as the gateway of Indian summer monsoon over the subcontinent", he said. Dr. Kumar added that the data will be shared with the Ministry of Earth Sciences and IMD for analysis as well as numerical weather prediction purposes. He said that Cusat is also planning to conduct a series of student awareness programmes in schools and colleges under the programme, 'Understanding Our Atmosphere (UOA). Periodic sessions, including informative lectures and discussions on our atmosphere, will be conducted for the students.

"Students as well as the public are welcome to attend the radiosonde soundings and atmospheric probing, scheduled every 3rd day from the meteorological observatory of Cusat, near the library in the main campus", he added.

The balloon experiments are part of the Rs.20 crore Ultra Modern Doppler Radar at the Cochin University campus which would set a course for new findings on climate change and monsoon variability in the country. The radar will be the first of its kind in the country and the seventh such in the world. This project would help the scientists to study the intensity, velocity and orientation of the Jet-stream and cloud formations besides vertical wind velocity upto 30 kilometers.

Scientists who track the monsoon will now have loads of extra information coming with Cochin University's Advanced Centre for Atmospheric Radar Research (ACARR) collecting data on the wind pattern, temperature, pressure, wind speed and other details from the pre-monsoon period using high resolution advanced 'radiosonde' balloon fitted with GPS and sensors. A radiosonde unit measures various atmospheric parameters and transmits them to a fixed receiver.

The balloons are being released every three days from 4.30-6.30 pm from May 18 after Cusat got permission from the civil aviation ministry. "These balloons travel vertically, unless there are strong winds and transmit data to the control room till they burst," said ACARR Director, Dr. K. Mohan Kumar.



A full page pull-out on the Cusat Radioballoon experiments published in Mathrubhumi Daily on 23 August 2013

"The unit sends data every 5 to 10 minutes. Preliminary analysis of the data reveals that there's lot of interesting features associated with the onset of monsoon in Kochi.