



TEJUS

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NEWSLETTER OF COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY



Cusat Vice Chancellor (i/c), Dr. K. Poulouse Jacob, speaks after inaugurating the National Conference on Indian Language Computing. M. G. Biju, Dr. S. David Peter, Dr. B. Kannan, Dr. K. A. Zakkariya (Member, Syndicate), Dr. Sumam Mary Idikula and Dr. K.V. Pramod are also seen

Indian Language Computing Essential for Democratisation of Digital Communication - Cusat VC

The development of Indian Language Computing is essential for the democratization of digital communication, according to Dr. K. Poulouse Jacob,

Vice Chancellor (i/c), Cochin University of Science and Technology. This could help in cementing relationships among the citizens of our

country who speak diverse languages and belong to different cultures.

He was inaugurating the 4th National Conference on Indian Language Computing organized by the Dept. of Computer Applications, Cusat in association with CSI, CSIR and KSCSTE. Dr. K. A. Zakkariya, Syndicate Member, Dr. K. V. Pramod, former head, Dr. S. David Peter, Director, IRAA, Dr. Sumam Mary Idikula, S. Malathi and M. G. Biju spoke during the inaugural function which was presided over by Dr. B. Kannan, Head, Dept. of Computer Applications, Cusat.

Around 20 papers were presented during the conference where 200 delegates from various parts of the country participated.

Grant for Cusat

- The University Grants Commission has sanctioned and released an amount of Rupees One crore for payment of fellowship to the Junior Research Fellows in the various departments of CUSAT.

- CUSAT has been invited by the UGC to attend the Interface Meeting to discuss inter alia the XIIth Plan priorities of the allocation under General Development Assistance Scheme. A grant of Rupees 7.2 crores has been received as the first payment towards the XIIth Plan proposal allocation. The proposal drawn by a 4-member team led by Dr. Poulouse Jacob has included novel academic programmes which are the need of the day.

- The state government has been pleased to accord sanction for the release of Rupees 5.23 crores to the Non-plan Head of Account of CUSAT being the first installment of arrears of the sixth UGC Pay revision.

Editorial...

At the doorstep of the new academic year, let us look forward to an eventful and truly academic NEW YEAR. Fresh enrolment is progressing based on the ranking with respect to the 30000+ candidates who had appeared for our admission test conducted at 65 venues spread across India and at one centre in Dubai. Anx-



the NAAC as well as to the NBA. I wish to seek the support of the en-

in this initiative through the CITTIC, which is our designated centre to give guidance to students and to tone up their innovative ideas and energy.

We need to ponder over the words of the Hon'ble President of India, speaking at the third convocation ceremony of the IISER, "*our institutions must never be found wanting in their proclivity for cutting-edge*

Education Council is expected to be processed shortly as the Expert panel for Technical Support Group of RUSA has since been approved by the Government of Kerala. The TSG is to support the Council and will be directly responsible for management, coordination, implementation and monitoring of the project in the state. CUSAT has two members of its faculty in the TSG.

Washington Accord: Opportunities Galore

ious calls from parents to know the prospect of each programme is a common phenomenon; what is important is the need for an urge on the part of the student for systematic study and steady progress.

Engineering education got a shot in the arm, with India becoming a permanent signatory member of the Washington Accord. This creates equivalence of engineering programmes in our country with those in the member countries, the benefit being limited to those programmes which have been accredited by the National Board of Accreditation (NBA) and offered by those institutions with autonomy to review and mend the curriculum periodically. This bestows on us the responsibility to get our programmes accredited by the NBA as well. So we now have the two-pronged task before us, pursue our case which has already been presented to

tire University community in this endeavour.

The Washington Accord will substantially increase the global employment opportunities for Indian engineers. Good management and communication skills as well as good understanding of society, help in taking advantage of this scenario. Budding Engineers also need to realize their possible role as job-providers;

research. They must promote innovation. They must beat their current inertia and establish productive association with the industry through internships and research projects. Collaboration with top global institutes, hiring of foreign faculty and drawing of students from abroad must receive sustained focus."

A list of 23 innovative research proposals amounting to an outlay

Engineering education got a shot in the arm, with India becoming a permanent signatory member of the Washington Accord.

technology start-up initiatives have gained momentum with enhanced governmental support. The Startup Village has set the target to launch 1,000 technology start-ups over the next 10 years and to start the search for the next billion-dollar Indian company. Our students are encouraged to partake

of ₹ 616 crores has been forwarded in response to intimation from the department of Higher Education, Government of Kerala, for inclusion in our Prime Minister's 100 day project. Our proposal for support under RUSA submitted to the Kerala State Higher

It has been noted that all funding under RUSA would be norm based and future grants would be performance based and outcome dependent. This again puts the onus on us to perform. This apart, some initiatives at incentivizing performing teachers are already on; a committee has been constituted by the KSHEC, I have the honour to chair that committee. Let us hope something encouraging would materialize.

We live in an era where people are armed with greater access to knowledge and learning. A culture of learning to learn is to be imbibed among our students; they need to continue learning throughout their career and to integrate what they learned into their behavior at work as well as at home. Focus, mindfulness, reflectiveness and persistence, shall be the guiding spirit for all of us.

Dr. K. Poulose Jacob



Sri. Thiruvanchoor Radhakrishnan, Hon'ble Minister for Forest, Environment and Transport is inaugurating the National Workshop on Science Journalism and Science Communication at Cusat. Dr. S. Anil Kumar, Dr. K. Girish Kumar, Dr. K. Poulouse Jacob, Dr. K. Sajan, K.V. Anilkumar and Dr.V. Ajit Prabhu are seen

opined that both the positive and negative sides of findings should be revealed in publications. The book 'Sasthram Varunna Vazhikal' edited by Dr. S. Anil Kumar, Director, Public Relations & Publications, Cusat was released by Sri. Thiruvanchoor Radhakrishnan on this occasion by handing over the first copy to Dr. K. Sajan, Registrar (i/c), Cusat. State Science Journalism award winner Dr. Anil Kumar Vadavathoor and Dr. V. Ajit Prabhu, Joint Director, Kerala State Council for Science, Technology and Environment were felicitated during the function.

Research findings shouldn't rest in files: Minister

The findings of research should not be laid to rest in files. The public have the right to know the benefits of research and their applications, according to Sri. Thiruvanchoor Radhakrishnan, Hon'ble Minister for Forest, Environment and Transport, Govt. of Kerala. He was delivering the inaugural address at the National Workshop on Science Journalism and Science Communication organized by Directorate of Public Relations and Publications, Cochin University of Science and Technology. With the changing times, computers should be given prime importance in education and the resultant digital revolution will make India the greatest power, he added.

The knowledge available in textbooks has been around for more than 25 years. This is why our research students end up in the second stream

at the international level. The conventional methods of education have to be changed with a view to their effects on the future society. The knowledge generated in Universities should not be kept like a treasure, rather it should be used to revolutionize society. Journalists should come forward in this venture, he added.

Dr. K. Poulouse Jacob, Vice Chancellor (i/c), Cusat who presided over the function

Dr. K. Girish Kumar, Professor, Dept. of Applied Chemistry, Dr. V. Ajit Prabhu, K.V. Anil Kumar, Joint Director, Local Fund Audit and G. Suresh Kumar, Deputy Coordinator, National Workshop spoke on the occasion. The documentary 'Magic of Bhoothathankettu' directed by Dinil Kothamangalam was also shown. The three day workshop concluded on 20th February.



Minister Sri. Thiruvanchoor Radhakrishnan releases the book 'Sasthram Varunna Vazhikal' edited by Dr. S. Anil Kumar, Director, Public Relations & Publications, Cusat by handing over a copy to Dr. K. Sajan, Registrar (i/c), Cusat. Dr. K. Poulouse Jacob, Dr. S. Anil Kumar, Dr. V. Ajit Prabhu and Sri. K.V. Anil Kumar are looking on



Sri Jacob Punnose, former DGP inaugurates the chess tournament. Dr. G. Madhu, Dr. K. Sajan, Sri Sunny P. Jose, Syndicate members, Dr. P.K. Baby, Sri V.N. Nampoothiripad and Sri Rashid are looking on

the only FIDE Rated Tournament in South India that has been continuously held for 25 years.

Ram S. Krishnan from Tamilnadu scored nine points from ten rounds to become the Champion at the Tournament. Bhupalan P. from Integrated Coach Factory came in second with 8.5 points and the third place was secured with 8 points each by Maheswaran P. of P & T, Kunal M. from Tamilnadu and Chandar Raju from Kerala.

Cusat International Chess - Ram S. Krishnan Champion

The 25th Cusat International Rating Chess Tournament organized jointly by Cusat Youth Welfare Dept., Ernakulam District Chess Association, Cochin University Chess Club and Cochin University Union was inaugurated by Jacob Punnose, former DGP and CEO, National Games Secretariate on 16th May 2014. Dr. K. Sajan, Registrar (i/c) welcomed the gathering. Sunny P. Jose, Cusat Syndicate Member and Chairman,

Organizing Committee presided over the function and Plato William, District Secretary, Chess Association proposed the vote of thanks. Rash-eed, Joint Secretary, State Chess Association, Dr. P. K. Baby, Director, Youth Welfare and P.V.N. Nampoothiripad, Chess Guru were present. More than 300 players from various states participated in the Tournament.

The Cusat International Rating Chess Tournament is

Sri. V. K. Ebrahim Kunju, Hon'ble Public Works Minister distributed the prizes to the winners at the concluding ceremony on 20th May. Dr. K. Poulouse Jacob, Vice Chancellor (i/c), Dr. K. Sajan, Registrar (i/c), Sri. Nedumudy Harikumar, Cusat Syndicate Member, Sri. Sunny P. Jose, Cusat Syndicate Member and Chairman, Organizing Committee, Sri. V. Vijayaraghavan, International Arbiter, Sri. M. Kannan, President, District Chess Association and Sri. Binu, Secretary, Cusat Chess Club spoke. ■

Award for Cusat Scholar

Jos Prakash A.V., a research scholar at Division of Electronics, School of Engineering, Cusat has bagged the Outstanding Paper Presentation Award at the International Conference on Next Generation Computing and Communication Technologies (ICNGCCT) held in Dubai on 23rd & 24th of April 2014. ■



Sri V.K. Ebrahim Kunju, Hon'ble Minister hands over the trophy to Ram S. Krishnan, Champion at the International Chess Tournament. Prof. Nedumudy Harikumar, Dr. K. Sajan, Dr. P.K. Baby, Dr. K. Poulouse Jacob and Sri M.S. Ananthakrishnan are also seen, among others

CUSAT CAT on April 26 & 27

The Common Admission Test (CAT 2014) for admission to the programmes offered by Cochin University of Science and Technology were conducted at various centres all over India on 26th & 27th of April 2014.

The test for the P.G programmes, MCA Programme and 3 Year L.L.B.

(evening) were held on 26th April 2014 while that for B.Tech, B.B.A.L.L.B./B.Com. L.L.B./ M.A. Hindi, M.A. Applied Economics, M.I.P. Ph.D and L.L.M. Ph.D were held on 27th April 2014 and B.Tech Lateral Entry Test were held on 04th May 2014, according to the Director, IRAA.

Cusat CAT: Alan Augustine scores First Rank for B Tech



Alan Thelliyil Augustine, Anand U. R., Noel Augustine and Johaan Chacko Mathew who scored the top four Ranks at CAT B. Tech.

The results of the Common Admission Test (CAT) for admission to various B Tech programmes conducted by Cochin University of Science and Technology were published on 28th May. Alan Thelliyil Augustine, Thelliyil House, Payyannur scored the first rank, while Anand U.R., Ushus, Thaikkattukara, Ernakulam came in second, Noel Augustine, Arackel, Nedumkandam, Idukki, came in third. Johaan Chacko Mathew, Valiyakalayil, Thrikkakara, Ernakulam and Vishnu Valsalan, Sreevalsam, Thottada, Kannur scored fourth and fifth ranks. Among SC candidates, Akshay Kumar K.K., Kunnatheri Parambil House, Chalissery P.O., Palakkad and

Nishal Thampan, NGO Quarters, Thrikkakara, Kakkanad, Ernakulam scored first and second ranks. Gautam S. Raj, Ambady, P.J. Antony Road, Edapally P.O., Ernakulam and Prajwal I. Naik, Rajalakshmi, Talap, Kannur, scored first and second ranks among the ST candidates.

Out of 24651 students who appeared for the Test, 19449 have secured positions in the rank-list. All details including the rank-list have been made available on the website www.cusat.nic.in from 12.00 pm on 28th May 2014. Online option registration by qualified candidates can be made from the same day till 7th June 2014. ■

Annual Photonics Workshop 2014

International School of Photonics, Cusat organized the 18th Annual Photonics Workshop on 27 and 28 February 2014. The focal theme of the Workshop was 'Nanophotonics'. The meeting was presided over by Prof. C.P. Girijavallabhan, President, Kerala Science and Technology Society (India) & Founder Director of ISP.

The annual news magazine 'Photonics News' was released by Dr. A. Mujeeb, Member, Cusat Syndicate and Director, LBS Centre for Science and Technology. The toppers of the M.Sc. Photonics and Laser Technology courses were presented with various awards. Prof. P. Radhakrishnan instituted a prize for the best research student based on publications in research journals. Mrs. P. Sreekumari, ISP proposed the vote of thanks.

About 60 participants from all over India participated. Prof. S. Jayalekshmi, Dept. of Physics, Cusat, Dr. Litty Mathew Irumpan, St. Mary's College, Thrissur, Dr. Ravi Pant, IISER, Thiruvananthapuram, Dr. Vincent Mathews, Central University of Kerala, Kasargod, Dr. Pramod Gopinath, IIST, Thiruvananthapuram, Dr. K.B. Jinesh, IIST, Thiruvananthapuram and Dr. K.G. Gopichandran, Associate Prof., Dept. of Opto Electronics, University of Kerala delivered invited talks. On 28th February, Prof. C.P. Girijavallabhan and Prof V.P.N. Nampoori gave the National Science Day lectures. ■

Cusat Budget Presented

The Syndicate of Cochin University of Science and Technology which met on 25th March 2014 passed the budget for 2014-15, presented by Prof. Lopus Mathew, Convenor, Finance Committee. The meeting was presided over by Cusat Vice Chancellor (i/c) Dr. K. Poulose Jacob.

Sri. Hibi Eden, M.L.A, Sri. Sunny P. Jose, Dr. K.A. Zakkariya, Dr. K. Sajan, Dr. A. Mujeeb, Dr. K. Mohankumar, Prof. Nedumudy



Prof. Lopus Mathew presents the Budget for 2014-'15 to the Cusat Syndicate

Harikumar, Dr. G. Madhu, Sri. I. K. Jayadev, Sri. M. Sherif, Sri. James Joseph, Dr. Joseph John, Sri. Tony

Raphy, members of the Syndicate and Sri. Sebastian Ouseph, Finance Officer, were present.

Research should benefit the nation : Cusat VC

Researchers should give more importance to creation of new information than acade-

on the connected devices, he added. He was delivering the inaugural address at the Nati-

Division of Information Technology, Dr. A.B. Bhasi, Controller of Examinations, Dr. Sumam Mary Idikula, Head, Dept. of Computer Science, Sariga Raj and S.P. Soman spoke on the occasion.



Dr. K. Poulose Jacob, Vice Chancellor (i/c) inaugurates the National Conference. (from left) Sariga Raj, M.B. Santhosh Kumar, Dr. Sumam Mary Idikula, S.P. Soman, Dr.A.B. Bhasi and Dr. G. Madhu are seen

mics and research should be useful to the society and the nation, according to Cusat Vice Chancellor (i/c) Dr. K. Poulose Jacob. Nowadays the internet has become a trend and a source of knowledge, he said. The structure of internet is getting changed depending

onal Conference on Recent Trends in Knowledge Management (NCRTKM-2014) organized by the Division of Information Technology, School of Engineering, Cusat.

Dr. G. Madhu, Principal, School of Engineering, M.B. Santhosh Kumar, Head,

Rare Achievement for Cusat Alumnus

Dr. M. Abdul Rahim has been promoted as the Operating Officer of ClassNK, Japan, one of the world's largest Ship Classification Societies. He holds a B. Tech. in NA&SB from Dept. of Ship Technology, Cusat. Dr. Rahim is the first non-Japanese to be promoted as Operating Officer. A Masters and Ph.D. from Hiroshima University, Japan, Dr. Rahim is now Regional Manager for Europe and Africa.



Cusat Students

Bag Grant

from Oracle

Oracle Corporation, one of the leading multinational IT companies in the world has selected four M.Tech students from Cochin University of Science and Technology for an Internship Project Grant of Rs. 25,000 each per month. The students, namely Reshma Chandran, Anju Mohan, Aswathi C. Ashok and Amla Prasanna Kumar are in the newly started M.Tech Software Systems course at the IT Division of School of Engineering. The Oracle team had visited the University as part of the Internship Drive organized by Sri. C.V. Prem Kumar, the Faculty in charge of Engineering Placement. ■

Chemical Engg. Division at Cusat

The Syndicate of Cochin University of Science and Technology which met on 25th April has decided to begin a new Division for Chemical Engg. at the School of Engg. The Syndicate also decided to start a Department of Disability Studies in the University.

The signing of a Memorandum of Understanding for academic collaboration with Ambo University of Ethiopia has also been approved. An expert committee has been constituted by the Syndicate to study the use of solar energy with a view to reduce the consumption of electricity in the campus. Dr. K. Poulouse Jacob, Vice Chancellor i/c presided. ■



Sri. Hibi Eden MLA is releasing the children's newspaper 'Sargavasantham'. Prof. Nedumudi Harikumar, Director of the State Children's Literature Institute and Dr. K.G. Nair, Director, C-SiS are looking on

Media Workshop for School Kids held at Cusat

A Media Workshop was organized as part of the state-wide residential camps under Sargavasantham 2014 by State Children's Literature Institute at the Cochin University campus. Around fifty school children from various districts of the state attended the 3-day camp. Classes and practical training sessions were held on areas like News reporting, video journalism and cyber journalism. Sreejith K. Warrior, G. Sekharan Nair, Jikku Varghese, Payipra Radhakrishnan, Rahul Menon, C. P. Biju and M. Chandraprakash led the classes. The participants prepared a documentary, newspaper and blog on the Centre for Science in Society as part of their training. The Sargavasantham camps began with a drama camp on 22nd April. Around 350 school children participated in the camps held on seven areas viz.

drama, stories, poetry, drawing, environment, films and media.

The concluding session was inaugurated by Sri Hibi Eden, MLA. Prof. Nedumudy Harikumar, Director, State Children's Literature Institute and Member, Cusat Syndicate presided and Cusat Vice Chancellor (i/c) Dr. K. Poulouse Jacob, was the Chief Guest. Dr. K. Sajan, Registrar (i/c), Dr. Anil Kumar Vadavathoor, Director, Public Relations and Publications, Dr. K. G. Nair, Director, Centre for Science in Society and Dr. M. B. Santhosh Kumar, Head, Division of Information Technology, SOE, Cusat offered felicitations. Sri. Babu Kandanad, Member, Governing Council, State Institute of Children's Literature welcomed the gathering and Dr. Radhika C. Nair proposed the vote of thanks.

Fisheries sector offers innumerable opportunities for youth: Minister K. Babu

The fisheries sector offers innumerable opportunities for youth in Kerala like ornamental fish culture and trade besides, aquaculture, seafood export industry etc, according to Sri. K. Babu, Hon'ble Minister for Fisheries, Ports and Excise. He was inaugurating the Placement Cell of the School of Industrial Fisheries, Cusat. The School of Industrial Fisheries has been catering to the need for trained manpower for the fisheries sector for the last four decades and offers three post graduate courses in fisheries in addition to research degrees in five fisheries disciplines, he added.

The function was presided over by Prof. Dr. A. Ramachandran, Director, School of



Sri. K. Babu, Hon'ble Minister for Fisheries, Ports and Excise inaugurating the placement cell in School of Industrial Fisheries, Cusat. Dr.K.T. Thomson, R.C. Sinha, Dr. A. Ramachandran, Dr. Srinivasa Gopal, Edwin Joseph and Dr. S. Girija are looking on

Industrial Fisheries and former Registrar, Cusat. Dr. Srinivasa Gopal, Director, Central Institute of Fisheries Technology, Dr. S. Girija, Director, National Institute of Fisheries Post Harvest Technology and Training, Sri.

R. C. Sinha, Director, Central Institute of Fisheries Nautical Engineering and Training, Dr. K.T. Thomson, Mr. Abhishek Singh and Edwin Joseph, President, IF Alumni Assn. addressed the gathering.

Beauty and Grammar of Language Lost Through Digital Communication: Cusat VC



Cusat Vice Chancellor Dr. K. Poullose Jacob, inaugurates the National Workshop on "English as a medium of global communication" Prof. A. Achutha Menon, Dr. N. Mohanan, Brinda Bala Sreenivasan and Dr.K Sajan are seen

The biggest societal issue in language caused by digital communication is the loss of its beauty and grammar, according to Cusat Vice

Chancellor Dr. K. Poullose Jacob, The speciality of this era is that it has seen even the print media who are the "language watchmen" shifting

over to short messaging. He was inaugurating the National Workshop on "English as a medium of global communication" organized by the Dept. of English and Foreign Languages, Cusat. The right to measure the value of a book lies solely with the reader, and no one else has the right to question it, he opined.

Dr. K. Sajan, Syndicate Member and Registrar (i/c) released the book "Creativity in the Era of Globalization" published by the University during the function. Dr. N. Mohanan, Prof. A. Achutha Menon, former Head of the Dept., Brinda Bala Sreenivasan, Head of the Dept. and Jubimol K. G. spoke. ■

State facing severe financial crisis – Dr. B. A. Prakash



Dr. B.A. Prakash delivers the presidential address at the Round Table Discussion on State Public Finance. Cusat Vice Chancellor (i/c) Dr. K. Poulouse Jacob and Dr. K. Sajan, Registrar (i/c) are on the dais

The state is facing a financial crisis similar to that in 2001, according to Dr. B. A. Prakash, Chairman, Kerala Public Expenditure Review Committee, Govt. of Kerala. Unless the Government takes urgent steps to reduce expenditure and enhance revenues, the state will be in dire straits, he said, while delivering the presidential address at the Round Table Discussion on State Public Finance jointly organized by Kerala Public Expenditure Review Committee and K. M. Mani Centre for Budget Studies, Cusat on 15 March 2014.

More than a financial document, budget is being considered as a political document. The problem is with the pressure groups and political leaderships which do not have a clear perspective regarding financial matters. Their only interest is in the sharing of resources, he said. Financial management does not comprise of the Govt. printing currency notes and distributing them through treasuries. The basic

issue is the financial illiteracy of those holding responsibilities. The resources acquired through the budget are not sufficient to pay the newly announced DA to govt. employees.

The K.S.R.T.C. is facing a serious situation due to the non-payment of govt. grants. Around 36000 pensioners have not been given their pension for four months. The state's universities will also face the same situation shortly, he warned. Their finances are crumbling due to inability to reduce expenses and find new sources of revenue.

The lion's share of the funds borrowed from various agencies by the Govt. is being used for repayment of principal and interest on previous loans, Dr. Prakash said. Thus money is not available for development of basic infrastructure. In five years the state will be forced to repay the loan amount of Rs. 36000 Cr.

Dr. K. Poulouse Jacob, Vice Chancellor-in-charge, Cusat in his inaugural address insisted that the funds for payment of salaries in Universities be paid by the Government itself. Dr. K. Sajan, Registrar, Cusat welcomed the gathering. Dr. Mary George, Dr. K. V. Joseph and Dr. V. Nagarajan Naidu, Members of KPERC, Prof. Lopus Mathew and Dr. Joseph John, Cusat Syndicate members, Sebastian Ouseph, Finance Officer, Prof. P. R. Poduval, Dean, Faculty of Social Sciences, Dr. S. Harikumar, Dr. Nirmala Padmanabhan and Dr. R. Mohan, IRS, spoke on the occasion. Dr. Sabu Thomas, Co-ordinator, KMMCBS proposed the vote of thanks. ■



Cusat Vice Chancellor (i/c) Dr. K. Poulouse Jacob hands over a copy of the book 'Sasthravicharam' authored by Dr. Anilkumar Vadavathoor to Fr. Paul Thelakkad during a release function held at Ernakulam on 14th March 2014



Justice V.R. Krishna Iyer lights the ceremonial lamp during the inaugural function of the National Seminar on Socio-economic Rights. Cusat Vice Chancellor (i/c), Dr.K. Poulouse Jacob and Dr. K.N. Chandrasekharan Pillai are also seen

Indian Legal System Inefficient in Rendering Social Justice

The Indian Legal system is inefficient in rendering proper social justice at the grass-roots level of the society, according to Justice V.R. Krishna Iyer. He was speaking after inaugurating the National Seminar on 'Socio-Economic Rights: Challenges for its Realization' organized by Justice V.R. Krishna Iyer Chair on Human Rights, School of Legal Studies, Cochin University of Science

and Technology. Due to their social and economic conditions these people are unable to reach the door-steps of the Judiciary. He also called for the encouragement of PIL and free legal aid. Justice V.R. Krishna Iyer criticised the attitude of judges who retire before rendering proper judgement which in turn affects these people. Proletarians should get priority over Propertarians, he added.

Dr. K. Poulouse Jacob, Vice Chancellor (i/c) emphasized the need for socio-economic rights to go hand-in-hand with environment protection in his presidential address.

Dr. K.N. Chandrasekharan Pillai, former Director, National Judicial Academy, pointed out various judgements in which the courts tried to bring in private parties to take up functions which were earlier exercised by the state. In the keynote address he also expressed concern over the policies of the state which help big corporates throw away retail sellers from the market. Dr. M.C. Valson, NUALS and Dr. P.S. Seema, SLS spoke. ■

National Science Day Oration held

Dr. E.P. Yesodharan, former Executive Vice President, KSCSTE delivered the National Science Day Oration organized by Centre for Science Communications & Directorate of Public Relations and Publications, Cusat on 20 Feb. 2014. Dr. S. Anil Kumar and G. Suresh Kumar spoke while Dr. K. Vasudevan presided. ■

Cusat Engg. students develop innovative ploughing machine



A team of students of School of Engineering, Cochin University of Science and Technology has developed a ploughing machine which is portable and maneuverable as a land mower and is proposed to be an alternative to manual plough-

ing or tractors. It is a small but firm step towards mechanizing small scale farming. The team includes Abin K. R., Ashwanth M.P., Akhil R. Pillai, Jerish John, Jithin Krishnan, Jason Francis and Justin C. Mohan. The project was coordinated by Dr. N.H. Jayadas (guide) and Dr. M.R. Radhakrishna Panickar, Head, Mechanical Engg. Division, SOE, Cusat.

New Generation Antennae to boost Internet Speeds: Cusat V C

The day is not far when the new generation Graphene antennae capture the digital world, according to Cusat Vice Chancellor (i/c) Dr. K. Poullose Jacob. The advent of Graphene antennae will take the speed of internet from Megahertz level to Terahertz levels, he said. The microscopic antenna-computer sensor will revolutionize network systems, he added. He was delivering the presidential address at the National Workshop on Fundamentals of Radars for Atmospheric Research organized by the Advanced Centre for Atmospheric Research (ACARR), Cochin University of Science and Technology.

Mr. G. Viswanathan, noted radar expert and former Director, ISRAD, Dept. of Space, Govt. of India in his inaugural address said that the atmospheric radar can precisely predict natural calamities, as well as the approach of monsoon. The Stratosphere Troposphere



Cusat Vice Chancellor (i/c), Dr.K. Poullose Jacob, lighting the ceremonial lamp during the inaugural function. Dr. G. Vishwanathan, Dr. K.G. Nair, Prof. C.A. Babu and Prof. K. Mohankumar are looking on

Radar is far more accurate in monitoring the atmosphere than the conventional balloons. It will also assist in air transportation systems and rocket launches, he added.

Dr. K. G. Nair, Director, Centre for Science in Society, Prof. C. A. Babu, Head, Dept. of Atmospheric Sciences, Prof. K. Mohan Kumar, Director, ACARR, Prof. P. Mohanan, Programme Co-ordinator and Prof. C. K. Aanandan, Head, Dept. of Electronics spoke on the occasion.

Golden Jubilee of Indian Ocean Exp. celebrated

The Department of Marine Biology, Microbiology and Biochemistry, Cochin University of Science and Technology in association with Marine Biology Alumni Association and Society of Marine Biologists held a meeting to celebrate the golden jubilee year of International Indian Ocean Expedition on 17 March 2014.

Dr. P. K. Abdul Aziz, former VC of Cusat, AMU and University of Science and Technology, Meghalaya, inaugurated the meeting. Dr. V.V. Sugunan, former Additional Director General, ICAR and Vice President, MBAA, presided while Dr. K.V.K. Nair, former Scientific Advisor, National Institute of Ocean Technology delivered the keynote. Prof. (Dr.) B. Madhusoodana Kurup, Vice Chancellor, KUFOS was the Guest of Honour.

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Sri Oommen Chandy, Hon. Chief Minister of Kerala is presenting the State Science Journalism Award to Dr. S. Anil Kumar, Director, Public Relations and Publications, Cusat on 9th May 2014. Dr. V. N. Rajasekaran Pillai is also seen



The CUSAT team which participated in the All India Inter-University Youth Festival with Dr. P.K. Baby, Director, Youth Welfare, Cusat

All India Inter-University Youth Festival: Cusat Excels

The cultural team from Cochin University of Science and Technology, bagged many prizes in the 29th All India Inter-University Youth Festival held at Kurukshetra University, Haryana from 18 to 22 February 2014. The team bagged two first prizes, one third prize and one fourth prize and became the top scorer among the Universities from Kerala. More than 70 Universities from various states participated in the All India Inter-University Youth Festival.

Akhiljith A., (Department of Instrumentation, Cusat) and Arjun C. Vinod, (International School of Photonics, Cusat) won first prizes for mimicry and Spot Photography. Second prizes were won by Nikita V.

(from page 11) **Golden Jubilee ...**

The participants of IIOE, Dr. K.V.K. Nair, Dr. K.K.C. Nair, Dr. R. Damodaran, Dr. Lalithambika, Dr. Vijayalekshmi R. Nair and Dr. Rosamma Stephen were honoured

(Department of Computer Applications, Cusat) accompanied by Rahul Roy Mattam (Model Engineering College, Thrikkakara) for Western Vocal Solo and Harisankar R., (Model Engineering College, Thrikkakara) accompanied by Venkataraman R. (Sarabhai Institute of Science and Technology, Thiruvananthapuram) and Renjith R. (Department of Computer Applications, Cusat) for Non-percussion. Krishna P. S., (College of Engg., Munnar) won third prize for collage and Amrutha Raj, (School of Legal Studies, Cusat) won fourth prize for Elocution.

The team participated under the leadership of Dr. P.K. Baby, Director, Department of Youth Welfare, Cusat. ■

during the function. Dr. S. Bijoy Nandan, Associate Professor, Dept. of Marine Biology and Co-ordinator of the programme welcomed & Dr. A.A. Mohamed Hatha, Head, Dept. of Marine Biology, proposed the vote of thanks. ■

Mitsubishi Officials Visit Cusat Shiptech Dept.

A team from Mitsubishi Heavy Industries (MHI), Japan, consisting of N. Ueda, Senior General Manager, Ship Design and T. Tsuji visited Department of Ship Technology, Cochin University of Science and Technology. They had discussions on collaboration with Dr. K.S. Sivaprasad, Head, Department of Mathematics and other faculty members.

The discussions included initiation of 60 days' annual internship programme for B.Tech students of Ship Technology in Japanese shipyards and recruitment plan by MHI for B.Tech Naval Architecture students for the coming years. ■

Students Fast for Social Cause

In a bid to awaken the conscience of the society for organ donation and make available the required stem cells for Nini, a leukemia patient, the students of School of Engineering, Cusat embarked on a fast. They were joined by their teachers and non-teaching staff and many of them signed organ donation forms.

The candle-lit programme was inaugurated by noted film director Siddiq. Captain Raju, cine-actor and Dr. G. Madhu, Syndicate member and Principal, SOE spoke on the occasion.

British Council Team Visits Cusat

Alchemin 2014

A delegation including Paul Sellers, Director, South India, British Council Division, British Deputy High Commission, 737 Anna Salai, Chennai and Andrew Soper, Economic Coun-



The British Council team having discussions with Cusat Vice-Chancellor (i/c), Dr.K. Poulouse Jacob

sellor, British High Commission, New Delhi visited CUSAT

on 11th February. The delegation met with Dr. K. Poulouse Jacob, Cusat Vice Chancellor (i/c), and held discussions on research studies in UK and about signing a memorandum

of understanding for collaboration in certain areas. The delegation added that there is no difficulty in getting UK visa for genuine students and this visa can be used for a year for employment purpose after their studies. ■

Technological innovations have their own merits but they should not be developed forgetting our responsibility to society, according to Cusat Vice Chancellor (i/c), Dr. K. Poulouse Jacob. He was speaking after inaugurating ALCHEMIN 2014, the National Workshop organized by Centre for Innovation, Technology Transfer & Industrial Collaboration (CITTIC) at the Department of Electronics.

Researchers should focus on developing technology that aids people in the lower rungs of society and the youth who innovate with advanced technology should not forget their societal responsibilities. The 2-day Workshop commenced from 01 March. Dr. K. Vasudevan, Director, CITTIC presided while Dr. P. Abdulla and Dr. Sam Thomas spoke. ■

ClassNK Drawing Room for ShipTech

The ClassNK Drawing Room for Department of Ship Technology, Cochin University of Science and Technology was inaugurated by Dr. A. Abdul Rahim, Regional Manager, ClassNK (Europe and Africa) on 12th February 2014. The drawing room was developed with the assistance of Class NK, Japan, the world's largest ship classification

society.

The total assistance for the facility development by ClassNK was Rs. 6.5 lakhs and the facility consists of 50 drawing tables, two Electronic Smart Boards and one digital projector according to Dr. K. Shivaprasad, Head, Department of Ship Technology, Cusat.



Dr.A. Abdul Rahim, Regional Manager (Europe and Africa), ClassNK, Japan inaugurates the ClassNK Drawing room at Department of Ship Technology, Cusat. K.J. James and Dr. Nandakumar are seen

Best Faculty Award to Dr. Mohamed Hatha

Dr. A. A. Mohamed Hatha, Associate Prof. and Head, Dept. of Marine Biology, Microbiology



and Biochemistry has won 'Sri PK Das Memorial Best Faculty Award' instituted by Nehru Group of Institutions for the college and university level teachers. The award was presented by Prof. H. Devaraj, Vice Chairman, UGC on 15th December 2013. A recipient of Nehru Fulbright Visiting Scholar Fellowship, Dr. Hatha was also a leader of the Indian Arctic Expedition team in 2009. ■

Ph. D Awardees

Shilpa Joy Gaba and 5-ht chitosan nanoparticles enhanced liver cell proliferation and neuronal survival in partially hepatectomised rats: gabab and 5ht2a receptors functional regulation (Dr. C. S. Poulouse)

Anish Kumar M Nair Studies on the horizontal and vertical distribution of clouds and their impact on energetics of the atmosphere over the Indian region (Dr. K. Rajeev)

Benjamin Varghese P Development of optical fiber sensors for selected chemical and physical sensing applications (Dr. K. N. Madhusoodanan)

Rose Leena Thomas Synthesis and characterization of tellurium oxide glasses for photonic applications (Dr. Sheenu Thomas)

Udayakumar P Assessment of heavy metals in the environmental compartments of the central and northern coast of Kerala, India (Dr. P.P. Ouseph)

Roji J Kunnath The ligating versatility of halides and pseudo-halides in copper (ii) complexes - monomers dimers and chains (Dr. M. R. Prathapachandra Kurup)

Anoop N A Energetic Polymers (Dr. K. Sreekumar)

Martin G D Biogeochemical and Ecological Feedbacks on Eutrophication in Cochin Backwaters (Dr. N. Chandramohanakumar)

Rajeshmon V G Prospects of sprayed czts thin film solar cells from the perspective of material characterization and device performance (Dr. K. P. Vijayakumar)

Manoj Mathew Managerial Performance-An analysis of selected antecedents and mediators (Dr. James Manalel)

Nitin Agarwala Acoustic-structure interaction for floating structure under moving load (Dr. E. M.

Somashekharan Nair)

Shivaprasad Amaravayal Tide and river runoff interactions in the Cochin estuary (Dr. C. Revichandran)

Sunil Kumar V Pore water geochemistry of the wetlands along the coastal tracts of Kochi, south-west coast of India (Dr. K. Sajan)

Binu Mole K Law on trans-boundary movement of hazardous substances through sea (Dr. A. M. Varkey)

Binu P Paul Income, livelihood and education of tribal communities in Kerala - exploring inter community disparities (Dr. D. Rajasenan)

Anila Alex Spatio-temporal variability of atmospheric ozone over Indian subcontinent and its relation to meteorological parameters (Dr. K. Mohan kumar)

Vrinda S Development of chh family recombinant hormones and rnaï for induced maturation of penaeus monodon (Dr. Rosamma Philip)

Ushakumary E R waste water treatment using low cost natural adsorbents (Dr. G. Madhu)

Thomas Varghise Determinants of consumer purchase decisions of health insurance in Kerala (Dr. Moly P. Koshy)

Abraham Mathew Studies on glucose tolerant β -glucosidases from a novel byssochlamys fula and their applications in biomass to ethanol conversion (Dr. Rajeev Kumar S.)

Jinsa Mary Jacob Crystal structures and spectral aspects of mixed ligand transition metal chelates derived from aldehyde based on donor thiosemicarbazones (Dr. M. R. Prathapachandra Kurup)

P Karthikeyan Studies on halocin production by haloarchaea natrinema sp. btsh10 (Dr. M. Chandrasekharan)

Sandhya R Studies on developing a facile route for the synthesis of highly substituted quinoline and indole derivatives (Dr. S. Prathapan)

Chithra M R Studies on some topics in product graphs (Dr. A. Vijayakumar)

Vineetha S Reconstruction of gene regulatory network from expression profile of plasma rna data of colorectal cancer patients using soft computing techniques (Dr. Sumam Mary Idicula)

Manikandan R Investigations on stochastic storage systems with positive service time (Dr. A. Krishnamoorthy)

Shine U P Fatigue studies of structural steel (Dr. E. M. Somasekharan Nair)

Swapna K M Impact of environmental hazards on the quality and safety of shrimps and mussels (Dr. P. T. Lakshmanan)

Ansy Sebastian The aesthetics of paul verlainé and changampuzha krishnapillai - a comparative perspective (Dr. Mariamma Vincent Panikkulangara)

Latha R Nair Studies on a syntax based approach for translation between structurally different languages and the development of a prototype for Malayalam to English translation (Dr. S. David Peter)

Deepthi A S Samakaleen kahani mein kisani samvedana (Dr. K. Ajitha)

Ranjitha Raveendran Biochemical aspects of shell mineralisation in the estuarine mollusc - villorita cyprinoides var cochinensis (mollusca:bivalvia) (Dr. Sujatha C. H.)

Campus Notes

₹ Forty Lakhs Salary for Ship Tech Students

Sijas K. S. and Shishir K. K., students of Cochin University of Science and Technology's Department of



Sijas K. S.

Shishir K. K.

Ship Technology have obtained placement with a salary package of Rs. 40 Lakhs per annum in Seadrill Global Services Ltd. Seadrill is a leading international offshore deep water drilling company with its headquarters at London, United Kingdom. In terms of annual salary this is the best placement received at the department, according to Dr. K. Sivaprasad, Head of the Department & Placement Coordinator.

Recently Mr. Jemerson P. James, another student at the Department of Ship Technology had secured placement at Mitsubishi Heavy Industries, Japan at Rs. 28 Lakhs per year.

'Walk with a Scholar' at CUSAT

A Kerala Government project 'Walk with a Scholar' has started functioning at Cusat. This project provides opportunity for the brilliant college students to visit the University and to interact with the researchers. As part of the programme selected students from Govinda Pai Memorial Govt. College, Manjeswaram, Kasar-

god and NMSM Government College Kalpetta, Wayanad visited Cochin University on 12 and 14 of March 2014, according to Youth Welfare Director. The scheme is aimed at giving necessary guidance, motivation and mental support to identify appropriate areas for higher study as well as employment.

Cusat NSS holds Kalajadha

A *Kalajadha* against alcohol and usage of drugs organized by National Service Scheme unit of Cochin University of Science & Technology in association with Department of Excise, Kerala was flagged off by Dr. K. Poullose Jacob, Cusat Vice-Chancellor (i/c), from the main Campus at Thrikkakkara on 13th March. Dr. K. Sajan, Registrar (i/c) presided over the function.

Ajith Lal, Deputy Commissioner, Excise Department, Dr. G. Madhu, Syndicate Member and Principal, School of Engg., Dr. M.B. Santhosh Kumar, University NSS Programme Coordinator, A.M. Unni and Dr. Ajith Kumar spoke on the occasion. As part of the *Kalajadha* the students presented street plays at various educational institutions in Ernakulam district.



The street play presented by the students of NSS Unit of Cusat as part of Kalajadha against alcohol and usage of drugs at the University main campus, Thrikkakkara

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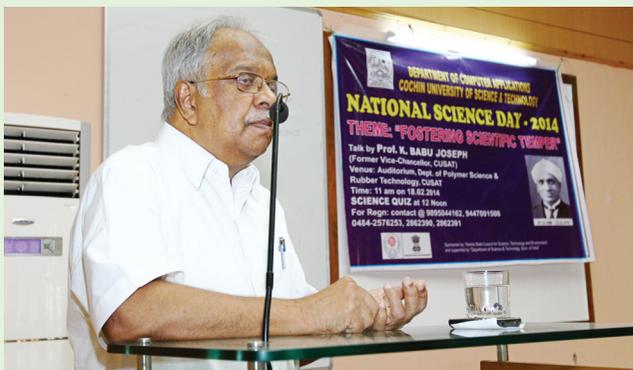
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School students enjoying the hands-on experience in a C-SiS laboratory during the mid-summer camp

C-SiS Offers a Creative Summer Break for Students

The Centre for Science in Society at the Thrikkakkara Campus of Cusat was the place to go for budding science enthusiasts during their summer vacation. The unique programmes offered the students a refreshing experience. The prestigious mid-summer Science Talent and Total Capacity Development Programme was held in two batches with students in classes between IV and VI in the junior batch and those between Classes VII and X in the senior batch. Each student did two projects in science, which were presented in an exhibition. The children admitted to this programme had a busy schedule at the science library and various laboratories (Maths, Physics, Chemistry, Biology, Computer and ISRO pavilion) where they got opportunities to do various experiments. They could play and learn science in the 'Science Park'. C-SiS has been organizing the camp for more than two decades. At the camp, students had the opportunity and infrastructure to explore and feel the world around them through experiments in laboratories, according to Dr. K. G. Nair, Director, Centre for Science in Society. An astronomical telescope for sky watching, snake show and puppet show were some of the other attractions.



Dr. K. Babu Joseph, former Vice Chancellor, Cusat delivers the National Science Day Oration at Dept. of Comp. Applications



Cusat Vice Chancellor (i/c), Dr. Poullose K. Jacob delivers the special address at the Public Law Lectures. Adv. K. P. Dandapani, A.G. of Kerala, Sri. P. P. Rao, Senior Advocate, Supreme Court, Justice C.K. Abdul Rahim, High Court of Kerala are on the dais

Accountability of Courts Essential - Advocate P. P. Rao

Accountability and transparency in court proceedings are highly essential, according to Padma Bhushan P. P. Rao, Senior Advocate, Supreme Court of India. A Judge acts independently when he rules on a case without fear or bias, he added. Adv. Rao was delivering the Public Law Lectures on "Judges' Accountability and Judicial Independence" organized by School of Legal Studies, Cochin University of Science and Technology on 20 March 2014.

The Lectures were inaugurated by Justice C. K. Abdul Rahim, Judge, High Court of Kerala at a function presided over by Adv. K. P. Dandapani, Advocate General of Kerala. Cusat Vice Chancellor Dr. K. Poullose Jacob delivered a special address at the function where Dr. N. S. Soman, Director, School of Legal Studies welcomed the gathering and Dr. P. S. Seema proposed the vote of thanks. The K. C. Menon Memorial Endowment Awards were presented to T. K. Farida and Asha P. Soman, who won top marks at the LLM examination during the function.



Dr. E. P. Yesodharan delivers the National Science Day Oration by Centre for Science Communication and DPR & P, Cusat