



TEJUS

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NEWSLETTER OF THE COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY



Sri M.A. Baby, Hon'ble Minister for Education, Govt. of Kerala is declaring the proposed Mundassery Centre at Cusat. Dr. Godfrey Louis, Pro-Vice Chancellor, Dr. M.V. Pylee, former Vice Chancellor, Prof. O.N.V. Kurup, Cusat Vice Chancellor Dr. Ramachandran Thekkedath and Sri. I.P. Paul, Mayor, Corporation of Trissur are on the dias.

spoken words. It was the reason why he suggested a *Centre for Communication* as the memorial for his illustrious father.

The Minister congratulated Sri. Jose Mundassery for his valuable efforts to establish an institution committed for Communication studies and for creation of scientific temper through appropriate science communication activities among the public and promised a considerable financial support from the Government of Kerala for the noble venture.

Cusat Vice Chancellor Dr. Ramachandran Thekkedath said the

Mundassery Centre for Communication Studies to come up at Cochin University

Cusat would have an International centre of repute called *Mundassery Centre for Communication Studies* in its campus at Kochi soon. The proposed centre, instituted in memory of Prof. Joseph Mundassery, the founder Vice Chancellor of Cochin University was announced by Sri. M. A. Baby, Hon'ble Minister for Education, Govt. of Kerala, at a small get-together organized by Mundassery family at the residence of late Prof. Mundassery on 07 November 2010.

Prof. Mundassery was a versatile scholar in Malayalam and Sanskrit, a silver-tongued orator and a talented tutor in physics. Besides his contributions in the educational sector which revolutionalised the social scenario of the state of Kerala (as first Minister for Education in the state of Unified Kerala), his writings and

criticisms on various social and literary issues created a niche of his own in the contemporary literary world of Kerala, the speakers remembered.

The proposed institution would be set up with a philanthropic financial support of Sri. Jose J. Mundassery, son of Professor Joseph Mundassery. He has announced his decision to donate a sum of rupees Five Crores (50 million) for the proposed centre at Cusat. In his welcome speech Sri. Jose J. Mundassery remembered his father as an excellent communicator through written and

new centre would focus on Science Communication and philosophy of science and nurture interdisciplinary studies. The centre would offer Post Graduate courses and facilitate doctoral and Post doctoral research, besides short term courses in science communication. It would be an institution committed to higher learning and research in science communication, history & philosophy of science and related areas.

The centre would hold discussions, debates and cultural shows, institute awards and scholarships and associate with national and international institutions to conduct various academic programmes. Discussions are on to set up a reference library and a museum on the life and contributions of late Prof. Joseph Mundassery. The centre



Late Prof. Joseph Mundassery

Editorial...

On 7th November 2010 something remarkable and unparalleled happened in the history of higher education in the state of Kerala. One gentleman offered Rs. 5 crore (50 Million) to our university to set up a centre of international repute for research in science communication and

unprecedented in the history of Kerala.

The donation will be used to set up the Mundassery Centre for Communication Studies, in memory of Prof. Joseph Mundassery, a versatile scholar of Malayalam and Sanskrit, a prolific writer and an eloquent orator.

I am indeed happy to pen a few words about Jose Mundassery, a philanthropist

Worthy son of a Great father

philosophy of science. That man is none other than Shri. Jose Mundassery, the youngest son of Prof. Joseph Mundassery, our first Vice Chancellor, and first education minister of the state of Kerala. This magnanimous gesture is

par excellence, who has initiated an innovative attempt in the higher education scene of Kerala. Mr. Mundassery may not be so familiar a figure for Keralites, but he is an active figure in the socio-cultural scene in the USA.



Armed with a degree in Electrical Engineering from the College of Engineering, Trivandrum, he ventured

retired from his professional career in 2003. In 1996 he started a paper mill in Meenkara, Palakkad District, Kerala currently employing more than 200 people.

I find myself short of words to thank my friend, Shri. Jose Mundassery, for his benevolence. We can be proud of the fact that Mr. Mundassery with all his experience and exposure is

abroad seeking higher studies. He took a MBA in Industrial Management from Illinois Institute of Technology, Chicago, and was the Vice President at Asea Brown Boveri when he

convinced that it is safe to entrust such a large amount of money with us for a worthy project. I can only hope that Jose Mundassery is opening a path for others to follow.

Dr. Ramachandran Thekkedath



Sri. Jose J. Mundassery is welcoming the invited guests to his ancestral house. Dr. Ramachandran Thekkedath, Prof. O.N.V. Kurup and Sri. M.A. Baby are looking on

is mainly intended to cultivate a scientific temperament in young minds through effective means of communication, he added. Mr. Jose Mundassery welcomed the gathering. Prof. O. N. V. Kurup, Jnanpith award winner and Dr. M. V. Pylee, former Vice Chancellor spoke. Cusat Vice Chancellor

Dr. Ramachandran Thekkedath proposed a vote of thanks.

Among others, the function was attended by former Vice Chancellors, Syndicate Members and close relatives and friends of Late Prof. Joseph Mundassery besides media persons. ●

Cusat Special Convocation on 04 December 2010

Cusat is conducting a special convocation on 04 December 2010 to confer honorary Doctorate on Justice K. G. Balakrishnan, Chairman, National Human Rights Commission (& former Chief Justice of India), Padmavibhushan Dr. E. Sreedharan, Managing Director, Delhi Metro Rail Corporation & Padmabhushan Shri. Kalamandalam Ramankutty Nair, renowned Kathakali Artist. His Excellency Shri. R. S. Gavai, Governor of Kerala and Chancellor of the University will confer the Degree of Doctorate. Shri. M. A. Baby, Minister for Education will attend the function.

This is the fourth special convocation organised by Cusat, upholding the tradition of honouring great sons of India who have made valuable contributions in the areas of Science, Technology, Humanities, Social service and Performing arts.

The earlier recipients of the honorary doctorates of Cusat include famous Physicist Dr. E. C. G. Sudharshan, Supreme Court Chief Justice A. M. Ahamdi, ISRO Chairman Padmabhushan G. Madhavan Nair and Infosys Chief Mentor Shri. N. R. Narayanamurthy during various occasions in the history of Cusat.

“Climate Change has been happening for several centuries leading to the extinction of the dinosaurs. But what is happening in the last two centuries has been created by man and we are beginning to see its effect in the oceans and the atmosphere”, said Dr. Gangan Prathap, Director, National Institute of Science Communication and Information Resources (NISCAIR), New Delhi

Delivering the inaugural address at the three day International Conference on Climate Change and Environment (ICCCE-2010) at the Cochin University of Science and Technology on 26



Dr. Gangan Prathap, Director, NISCAIR is inaugurating the International conference on climate change at Cusat. Dr. H. S. Rammohan (Syndicate Member), Cusat Vice Chancellor Dr. Ramachandran Thekkedath, Dr. N. Chandramohanakumar (Registrar) & Sri. Baby Chakrapany (Syndicate Member) are on the dais.

International Conference on Climate Change held at Cusat

October 2010, Dr. Gangan Prathap, a former Vice Chancellor of Cusat said that extreme weather conditions like excess rainfall and cyclone are being seen along the coastline in the sub-continent. Pakistan recorded the highest temperature of 50 degree Celsius while Russia had a summer excess at 40 degrees... he added.

“We would try to bring out a white paper on climate change after the workshop,” the NISCAIR director said. Cusat Vice Chancellor Dr. Ramachandran Thekkedath, in his presidential address said that scientists around the world agree that there is no issue which demands more immediate action than climate change and environmental protection.

Though there is a consensus in

the international arena on the need for immediate and aggressive actions & international agencies have come up with some general guidelines & goals to be achieved, given the unique status of resource-need balance, each country might have to develop its own customized action plan to meet these goals.

Recent meteorological reports from Kerala suggest that a 20 degree rise in temperature will severely affect our agriculture production, mainly staple food like paddy, wheat, coffee & also our prized spices and condiments. Such temperature changes can result in excessive or unpredicted rains, particularly during the monsoons, which may in turn lead to drought and flood, affecting the fertility of the soil, eventually affecting the biodiversity.

Earlier, the message of V. S. Achuthanandan, Hon’ble Chief Minister who could not make it to the inauguration, was read out at the function. “The climate change conference at Copenhagen could not come to a resolution as the USA and its allies did not allow it. The unbridled exploitation of humans, flora, fauna and the soil by the capitalists for over three centuries has led to this critical state of affairs,” the statement said.

Prof. H. S. Ram Mohan, Director, School of Marine Sciences & syndicate member welcomed the gathering and Prof. Dr. N. Chandramohanakumar, Registrar, Cusat proposed the vote of thanks.

The Conference in Cusat had been followed by a three day workshop in Lakshadweep.

Independence day celebrated

Cusat Vice Chancellor Dr. Ramachandran Thekkedath hoisted the National Flag in front of the administrative office of Cusat on the Independence day of the country on 15 August 2010. The programme was attended by Dr. Godfrey Louis, Pro-Vice Chancellor and Dr. N. Chandramohanakumar, Registrar. The Vice Chancellor inspected the guard of honour of the Cusat security lead by Sri. T.B. Suresh Babu, Security Officer, Cusat.





Dr. K. N. Panikkar, Vice Chairman, Kerala State Council for Higher Education is inaugurating the International conference on recent trends in Graph theory at Cusat. Looking on are Dr. A. Vijayakumar, Organizing Secretary, Dr. Laslo Lovasy, President, IMU, and Cusat Vice Chancellor Dr. Ramachandran Thekkedath.

He said the focus was on providing multi-disciplinary education right from the undergraduate level and re-fashioning the type of education being offered to students.

Explaining that one of the weaknesses of the higher education scenario in the state is the lack of exposure to what is happening in other parts of the world, Dr. Panikkar said the Higher Education Council's *Erudite Programme* had brought to the state several renowned scholars, including Nobel Prize laureates from around the world.

He said students and researchers had the unique opportunity to interact with these experts visiting the campuses here. As part of the programme, six Nobel laureates would be visiting Kerala this academic year, he added.

Cusat Vice Chancellor Dr. Ramachandran Thekkedath presided over the inaugural session. Dr. Laslo Lovasz, President, International Mathematical Union, Professor Jaroslav Nesetril, Charles University at Prague, mathematician Peter J Cameron, noted mathematician, Dr. Chakravarthi, Head, Department of Mathematics and Dr. A. Vijayakumar, Organising Secretary spoke.

State on fast track to Inter-disciplinary education: Prof. K. N. Panikkar

"We are fast moving in to the inter-disciplinary mode in higher education sector", said Dr. K. N. Panikkar, Vice Chairman, Kerala State Higher Education Council, Govt. of Kerala.

He was delivering the inaugural address at an International

Conference on Recent trends in Graph Theory and Combinatorics, hosted by the Department of Mathematics, Cochin University of Science and Technology, on 12 August 2010. Dr. Panikkar said the country need to "decolonise" the higher education sector to generate knowledge in a positive and pro-active manner.

Milan 2010 at Cusat Hindi Department

The Department of Hindi, Cusat has organized a congregation of old students and teachers of past 40 years on 13 November 2010 at the campus. The programme named *Milan 2010* was a rare occasion for old students to express their love and gratitude to the teachers of yester years. Dr. N. Mohan, Head of the Department presided. Retired teachers like Dr. N. E. Vishwanatha Iyer, Dr. N. Raman Nair, Dr. A. Ramachandra Dev, Dr. M. Eshwari, Dr. S. Shajahan, Dr. L. Sunitha Bai, Smt. J. Sugandhavalli and Dr. P.A. Shamim Aliyar participated in the Guruvandanam.



Dr. N. Raman Nair is lighting the lamp in the presence of Dr. N. Mohan, Dr. N. E. Vishwanatha Iyer, Dr. A. Ramachandra Dev, Dr. M. Eshwari, Dr. S. Shajahan, Dr. L. Sunitha Bai, Smt. J. Sugandhavalli and Dr. P.A. Shamim Aliyar

Retired Professor Dr. N. Raman Nair inaugurated the alumni meet at SMS auditorium. Dr. K. Vanaja,

welcomed the gathering and Dr. C. Vishwanathan proposed the vote of thanks.

A Memorandum of Understanding (MoU) was signed between Cochin University of Science and Technology and Information Library Network (INFLIBNET), Ahmedabad to electronically upload doctoral theses awarded by the Cochin university through the national digital repository *Shodhganga*.

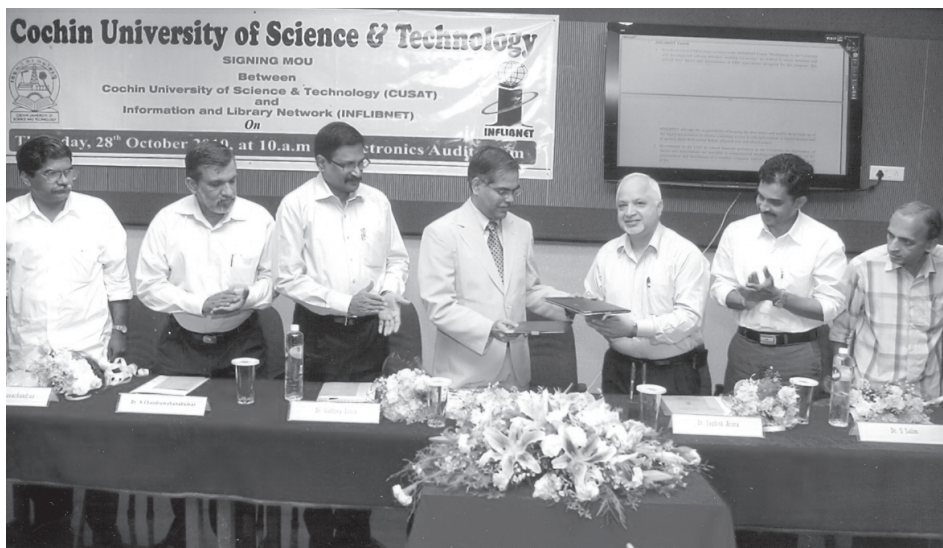
By signing the MoU with INFLIBNET, an autonomous Inter-University Centre of the University Grants Commission(UGC), the theses would become available in *Shodhganga* along with the theses from all other universities. *Shodhganga@INFLIBNET* provides a platform for research students to deposit their PhD theses and make them available to the entire scholar community.

The document was signed between Cusat Vice Chancellor Dr.

Digitization of theses: Cusat signs MoU with INFLIBNET

Ramachandran Thekkedath and Jagadish Arora, Director, INFLIBNET at a function in the university campus on 28 October 2010.

Dr. Godfrey Louis, Pro-Vice Chancellor, Cusat delivered the



Dr. Ramachandran Thekkedath and Dr. Jagadish Arora are exchanging the documents after signing MoU. Looking on are Adv. K. Mohanachandran (Syndicate Member), Dr. N. Chandramohanakumar (Registrar), Dr. Godfrey Louis (Pro-Vice Chancellor), Dr. S. Salim (Syndicate Member) and Dr. K. Vasudevan (Dean, Faculty of Technology, Cusat)

presidential address. Adv. K Mohanachandran, Dr. S. Salim, (Syndicate Members) and Dr. K. Vasudevan, Dean, Faculty of

User Awareness programme on access to E- resources

Cusat and INFLIBNET Centre, Ahmedabad has jointly organised a one day *user awareness programme* on Access to e-resources under UGC Infonet Digital Library Consortium on 29 October 2010 for the benefit of the faculty members, research scholars students and library Professionals. The programme was presided over by Dr. Godfrey Louis, Pro-Vice Chancellor, Cusat.

This programme was inaugurated by Dr. Jagadish Arora, Director, INFLIBNET. In his inaugural speech he highlighted the significance of scholarly publications in libraries to enhance the quality of research. He also appreciated the research outcome of the university and emphasized the need of library professionals in updating themselves with the concept and tools of e-resources and digital library.

Dr. Philip Kurian, Controller of Examinations and Sri. Baby Chakrapani, Syndicate Member offered felicitations. Smt. C. P. Baby Valsala, University Librarian, welcomed the gathering and Sri. Anoop Varma G., Junior Librarian, proposed a vote of thanks.



Dr. Godfrey Louis is inaugurating the user awareness programme on Access to E-resources. Dr. Jagadish Arora, Director INFLIBNET, Smt. C. P. Baby Valsala, Shri. Baby Chakrapani (Syndicate Member), Dr. Philip Kurian, Controller of Examinations are seen on the dais.

“Looking Back- Reflections and Reminiscences” released



Vice Chancellor Dr. Ramachandran Thekkedath is releasing the book 'Looking Back – Reflections and Reminiscences' by handing over a copy to former Vice Chancellor Dr. Babu Joseph. Looking on are Dr. K. B. Pavithran, Dr. K. C. Sankaranarayanan, Dr. M. V. Pylee, Prof. P. R. Poduval and Dr. K. J. Vincent.

A book titled *Looking Back-Reflections and Reminiscences* authored by Padmabhushan Emeritus Professor Dr. M. V. Pylee has been released on 14 October 2010. Cusat Vice Chancellor Dr. Ramachandran Thekkedath released the book by handing over a copy to Dr. K. Babu Joseph, former Vice Chancellor, Cusat. The book release was arranged by the School of Management Studies, Cusat.

Vice Chancellor Dr. Ramachandran Thekkedath delivered the presidential address. Dr. K. Babu Joseph offered the keynote address. Prof. P.R. Poduval, Prof. K.C. Sankaranarayanan, Prof. K. J. Vincent and Dr. G. Antony spoke. Dr. K.B. Pavithran, Director, School of Management Studies welcomed the gathering and Dr. C. A Francis proposed vote of thanks.

Cochin University Union inaugurated

“Students should become statesmen aimed at ensuring the welfare of the nation”, Justice V. R. Krishna Iyer, former Supreme Court judge, said. In his address after inaugurating the Cochin University Union 2010 on October 19, Mr. Iyer urged the student community to shed violent agitations. Encouraging them to debate various issues affecting the country in general and students in particular, he said that students have to play a key role in nation building.

Pointing out the rampant commercialisation which affected the educational sector, Mr. Iyer said that students have to shell out huge

amounts for getting admission in professional colleges. Stating that such managements are interested only in reaping maximum profits, he said that education is not like investing in a factory, where profit making is the sole motive. Mr. Iyer also reminded the stakeholders to ensure quality and social justice in the educational sector.

Cusat Vice Chancellor Dr. Ramachandran Thekkedath, Dr. N. Chandramohanakumar, Registrar, Cine Artist Miss. Ananya and Hameed Chendamangallur, social critic, spoke. Sri. C.P. Praveen, University Union Chairman, Cusat, presided over the function.

Programme on stimulating teachers through advanced training

The programme, Stimulating Teachers through Advanced Training (STAT) for college teachers on recent trends in Photonics was held from 2010 September 27 to October 01. This programme was jointly organized by Cochin University of Science and Technology and UGC-Academic Staff College, University of Kerala, Trivandrum and sponsored by Government of Kerala. The selection of teachers for this programme was done by UGC Academic Staff College and the lecture and laboratory sessions were arranged in the International School of Photonics (ISP). Dr.P.Radhakrishnan, Director, ISP outlined the details of the programme which was followed by self introduction of the teachers.

There were lectures and five laboratory sessions during the course of the programme. This visit provided the participants an opportunity to know about the research investigation carried out by the school in the frontier areas of photonics. The participation certificates were also distributed in the session.

30 lakhs grant to Cusat project at Instrumentation

The Department of Science and Technology, Government of India has approved a financial support of Rs. 30 lakhs to implement a project entitled “*Investigations on Electro-active Polymeric Composites of Nano structured piezoceramics*” with Dr. Jacob Philip, Director, STIC as the Principal Investigator. This project envisages development of sensor materials which have applications in sensors, actuators, energy harvesting devices, etc. This project is for a period of three years and would be implemented at the Department of Instrumentation of Cusat.

Justice V. R. Krishna Iyer Chair at Cusat soon: V C

The Justice V. R. Krishna Iyer Chair for Human Rights at the School of Legal Studies, Cusat would start functioning soon, informed Cusat Vice Chancellor Dr. Ramachandran Thekkedath.

The state government has sanctioned Rs. 83 lakh as a onetime grant for the purpose. The Chair will have a professor, a research officer, three research fellows and an office cum documentation assistant. It will be set up at the School of Legal Studies with Dr. N. Soman as its coordinator. Since the Chair is being

established in Justice Krishna Iyer's name, efforts will be made to focus research on his contributions, Dr. Ramachandran Thekkedath added.

Justice Iyer's philosophy and jurisprudence will be brought to the mainstream of human rights discourses. The chair will undertake training and extension activities. It will also focus on Iyer's contribution to human rights, constitutional scheme of resource management and governmental policies, tribal rights under the Indian legal system, environmental rights and challenges

posed by developmental needs and access to resources.

The Chair will organise an annual lecture titled "Justice V R Krishna Iyer Lecture on Human Rights" on an important area in human rights. It will be delivered by a person who has contributed to the growth of human rights jurisprudence. The legal luminary will be chosen by a committee headed by the Cusat Vice Chancellor, the Advocate-general, Professor of the Chair the Dean of the faculty of law and the Director of the School of Legal Studies.

The Chair proposes to publish at least five research papers under the title "Justice V R Krishna Iyer Chair Research Papers on Human rights" every year. The paper will be aimed at disseminating the research undertaken by the Chair and will contribute to the literature on the Indian perspective of the teaching and research of human rights, the Vice Chancellor said. There are also plans to publish one or two policy papers based on the outcome of Justice V. R. Krishna Iyer Chair Round Table on Human Rights.

Training and outreach programmes also are being planned as a part of the activities of the Krishna Iyer Chair.

Cusat Women's Study Centre Inaugurated



Cusat Vice Chancellor Dr. Ramachandran Thekkedath is inaugurating the Women's Study Centre in the presence of Dr. M. Meera Bai, Dr. Godfrey Louis, Dr. N. Chandramohanakumar, Sri. N. K. Vasudevan, Dr. Sindhu Joy and Dr. K. C. Sankaranarayanan.

"Women in the state should find more time to intervene creatively in various issues affecting the society" said Cusat Vice Chancellor Dr. Ramachandran Thekkedath, in his inaugural address on the occasion of inauguration of the Women's Study Centre of the university on 18 August, 2010.

Dr. Godfrey Louis, Pro-Vice Chancellor, Dr. N. Chandramohanakumar, Registrar, Sri. Baby Chakrapani, Sri. N. K. Vasudevan, Dr. Sindhu Joy

(Syndicate Members), Dr. K. C. Sankaranarayanan, Former Head, Dept. of Applied Economics offered felicitations. Dr. Sindhu Joy received the first copy of the book *Female Employment in India: issues and challenges* from Vice Chancellor Dr. Ramachandran Thekkedath. Dr. M. Meera Bai, Head, Department of Applied Economics and Director, Women's Studies Centre, Cusat welcomed the gathering and Dr. Merlin Joseph proposed a vote of thanks.

IETE Student Forum arranged oration

The IETE students' forum (ISF), Division of Electronics Engineering, School of Engineering, Cochin University of Science and Technology, organised an invited talk on PSLV Project by Sri. P. Kunhikrishnan, Project Director of PSLV Programme, VSSC, ISRO, Thiruvananthapuram, on 17 September 2010.

Dr. R. Gopikakumari, Head, Division of Electronics Engineering, Cusat welcomed the audience and Mr. Shivaprasad, S7 EC, President ISF, proposed the vote of thanks.

Painting exhibition inaugurated

“Painting literacy is on the low ebb in the modern Kerala society as artists are not much concerned about the audience perception”, said Dr. S. Anilkumar, Director, Public Relations and Publications, Cusat. He was inaugurating the 14th solo exhibition of Paintings and Digital Art by Artist Jayasree Venugopal, Assistant Registrar, Cusat conducted at Bharata Matha College, Thrikkakkara, on 10 August, 2010.

“Instead of communicating with the audience many a time, the artists are making their work more complex and complicated which ultimately prevent the society from appreciating the art work” he added.

Smt. Jayasree Venugopal is the first woman in Kerala who has conducted an exhibition of Paintings on the internet and a weekend workshop on proverbs/wise saying/Bhagavad Gita especially using digital art (Mural to modern style). She also



Dr. S. Anil Kumar, Director, Public Relations and Publications is inaugurating the painting exhibition of Artist Jayasree of Cusat at Bharata Matha College. Looking on are Sri. A. J. Francis Joseph, Dr. Laliamma Jose, Dr. K. N. Chandrasekharan Pillai and Artist Jayasree Venugopal.

carried out a solo exhibition of digital art work in the gallery.

Dr. Laliamma Jose, Principal, Bharata Matha College, presided. Dr. K. N. Chandrasekharan Pillai, Former Vice Chancellor, Indian Law Institute

(Deemed University) New Delhi offered felicitations. Sri. A. J. Francis Joseph, Head, Dept. of Zoology welcomed the gathering and Artist Jayasree Venugopal, Assistant Registrar, Cusat proposed a vote of thanks.



Prof. D. Vinayachandran is inaugurating the Kerala Piravi Day celebrations. Dr. M. Shanmughan, Dr. R. Sasidharan, Dr. N. Mohanan, Dr.K. Vanaja and Smt. A.S. Priya are on the dias.

“Kerala Piravi” Day celebrated

Department of Hindi, Cusat celebrated the *Keralapiravi* day on 01 November 2010. Noted Malayalam poet and critic Dr. D. Vinaya Chandran delivered the inaugural address. He gave a detailed talk regarding the changing perceptions of

Keralites and Malayalam literature.

Prof. Dr. N. Mohanan, Head, Dept. of Hindi delivered the presidential address. Dr. M. Shanmughan, Mrs. Priya. A. S, Dr. K. Vanaja and Dr. R. Sasidharan offered felicitations.

Dr. D. Rajasenan: UGC Task Force Member

Dr. D. Rajasenan, Professor, Applied Economics and Director, Centre for Study of Social Exclusion and Inclusive Policy, Cusat has been appointed member of the UGC task force on higher education of Government of India, on inclusive policy in higher studies.



The Task force would concentrate on inclusive policy in higher education of SC/ST/OBC/Minorities/Women and physically challenged persons.

Dr. Rajasenan had been a Dean of the faculty of Social Science and Syndicate Member of the Cochin University of Science and Technology.

New X-Ray Diffractometer inaugurated at Cusat - STIC

A new Single Crystal X-Ray Diffractometer was formally switched on by Dr. C.T.S. Nair, Executive Vice President, Kerala State Council for Science, Technology and Environment on 19 August 2010 at STIC of Cusat in the presence of Cusat Vice Chancellor Dr. Ramachandran Thekkedath, Dr. K.G.Nair (former Director, STIC), Dr. Godfrey Louis (Pro- Vice Chancellor, Cusat), members of the Governing Council, and staff of STIC at Cusat.

This instrument was procured with grants to the tune of Rs. 1.6 crores from Department of Science and Technology (DST), Government of India. The machine was one of the very few 4-axis machines installed in the country and the first of its kind to be installed in Kerala, said Dr. Jacob



Dr. C.T.S Nair is switching on the diffractometer. Looking on are, Cusat Vice Chancellor Dr. Ramachandran Thekkedath, Dr. Godfrey Louis and Dr. K.G. Nair.

Philip, Director STIC. The centre has already started to provide crystal

structure solutions to researchers and industries using the instrument.

Engineering courses need to be revamped - VC

“Engineering education needs to be revamped in order to make the new graduates successful in meeting the challenges of the contemporary competitive global professional and social environment”, Cusat Vice Chancellor Dr. Ramachandran Thekkedath has said.

He was speaking after inaugurating RACE 2010, the three-day National Conference on the Recent Advances in Civil Engineering at Cusat on 16 September 2010. “The engineering sectors have emerged as a science - based, knowledge intensive, and high technology area

with serious repercussions for technical change,” he said and added that Cusat was planning several initiatives, including incorporating research assignments in the learning process of engineering graduates.

The Vice Chancellor said a serious effort is being made to transfer the knowledge developed at Cusat and similar institutions to the industry and society at large.

Dr. Godfrey Louis, Pro-Vice chancellor, Cusat offered presidential address. Dr. S. Salim, Syndicate member, Dr. N. Chandramohanakumar, Registrar, Sri. Praphulla Kumar, Former State Chairman, BAI, Sri. K. Jayasankar, General Manager, Ultra Tech Cement Ltd. and Dr. David Peter. S., Principal SOE, offered felicitations. Dr. Benny Mathews Abraham, Head, Civil Engineering Division of the School of Engineering, Cusat welcomed the gathering and Dr. K. S. Beena, Professor, SOE proposed the vote of thanks.



Cusat Vice Chancellor Dr. Ramachandran Thekkedath is inaugurating RACE 2010 in the presence of Sri. Praphulla Kumar, Sri. K. Jayasankar, Dr. Babu T. Jose, Dr. Godfrey Louis, Dr. S. Salim and Dr. David Peter. S.



Cusat Vice Chancellor Dr. Ramachandran Thekkedath is inaugurating the programme on Modelling and Optimization. Dr. R. Gopikakumari and Dr. David Peter. S. are seen on the dais.

The Division of Electronics Engineering, (School of Engineering) Cusat organized an ISTE – STTP (Indian Society for Technical Education) Short term training programme on *Modelling and Optimization Techniques in Engineering* from 18 to 30 October 2010. Seventy four participants from various institutions

‘Modelling and Optimization’ Training Programme conducted

within the state and outside registered for the programme.

Cusat Vice Chancellor Dr. Ramachandran Thekkedath inaugurated the programme on 18 October. Dr. V.P.N. Nampoorei, Emeritus Professor, International School of Photonics, Cusat, delivered the key note address. Dr. S. Mridula and Dr. Binu Paul were the co-ordinators of the training programme.

The topics covered included the fundamentals of modelling, simulation

and optimization followed by deliberations on various modelling approaches. Experts from different fields presented topics pertaining to modelling and optimization techniques used in their specialized areas. In addition to the various modelling and optimization techniques in different branches of Engineering, the course also focused on Modelling of Environmental Systems, Metrics in Research & Mathematical modelling in nature.

Erudite Programme

Lecture series commenced at Cusat

The discoveries of Albert Einstein continue to be the basis for studies on the origin and evolution of the universe, opined Prof. Ajoy Ghatak (IIT Delhi), a recipient of the prestigious Bhatnagar Award. He was delivering the opening talk on Einstein’s contributions in the field of scientific research at the lecture series under the Erudite programme of the State Government (*Scholars in*

Residence Programme) which commenced at the International School of Photonics, Cusat on 06 October 2010.

The lecture series was inaugurated by the Cusat Vice Chancellor Dr. Ramachandran Thekkedath. Prof. V. P. N. Nampoorei, Prof. P. Radhakrishnan and M. Kailasnadh were also present. The programme concluded on 12 October. Prof. Ajoy Ghatak delivered



Vice Chancellor Dr. Ramachandran Thekkedath is honoring Prof. Ajoy Ghatak by handing over Angavastra. Looking on are Prof. V. P. N. Nampoorei, Prof. P. Radhakrishnan and Mr. M. Kailasnadh.

lectures on Einstein’s contributions, special theory of relativities, Basic

Quantum Mechanics, Fiber Optics etc during the programme.

Cusat Statistics Department gets 44 lakhs UGC aid

Department of Statistics, Cusat will receive a financial aid of Rs. 44 lakhs from the University Grants Commission. The duration of the support is five years.

Dr. N. Balakrishna, Head of the Department said that the objective of

the assistance is to promote joint research initiatives to enhance the quality of education in the field of statistics. The Department of Statistics had earlier received Rs. 30 lakhs under a scheme implemented by the Department of Science and Technology.

Dept. of Physics to conduct Open House

The Department of Physics, Cusat is organizing an open house programme on 2011 January 14 and 15 for the students and teachers of the state in order to provide a platform for interaction. Theoretical physics, material science, nano science and technology,

opto electronic devices, quantum computing, semiconductor devices, solar cells, holographic materials, high density storage batteries, laser spectroscopy, thin films, astrobiology and Open House is a chance for the students to see the labs of the Dept. of Physics.



Deepthi Das Krishna of the Department of Electronics is receiving the Young Scientist Award during the International Symposium on Electromagnetic Theory at Germany.

Young Scientist Award to electronic research student

Smt. Deepthi Das Krishna, research student of Electronics Department at Cochin University of Science and Technology has received the young scientist award at the International symposium on electromagnetic theory held in Germany during August, 16 - 19, 2010. She

got the award for the paper "A compact Printed inverted cone Antenna for UWB Based Applications". Smt. Deepthi Das Krishna is a research student under the supervision of Prof. C. K. Anandan, Department of Electronics, Cusat and wife of Dr. Murali Krishna, Scientist at NPOL.

Seminar on Financial Reporting Standards

The School of Management Studies and the Institute of Chartered Accountants of India, Ernakulam Branch conducted a one day seminar on 'International Financial Reporting Standards' on 29th October at the School of Management Studies Auditorium, Cusat.

Cusat Vice Chancellor Dr. Ramachandran Thekkedath, inaugurated the seminar. CA. Venugopal C. Govind, Senior Chartered Accountant delivered the keynote address and CA. Saji Mathew, Chairman, SICASA, Ernakulam Branch of ICAI, presided over.

Regional Mathematical Olympiad

The Regional Mathematical Olympiad sponsored by National Board for Higher Mathematics and coordinated by the Department of Mathematics, Cusat will be held on 05 December 2010 at major district centres in Kerala, informed Dr. A. Vijayakumar, Co-ordinator, Regional Mathematical Olympiad.

This regional Olympiad is meant for talented students of class X/XI/XII and is the first stage for selecting an Indian team for the International Mathematical Olympiad to be held in The Netherlands during July 2011.

Dr. Rajan Varghese New Syndicate Member of Cusat

Dr. Rajan Varghese, Principal Investigator, Major Research Project Research Centre and Post graduate Department of Commerce & Tourism, Mar Ivanious College, Trivandrum, has been nominated to the Cochin University Syndicate by the University Grants Commission, New Delhi.

Dr. Rajan Varghese, a former Professor with the Mar Ivanious College,

Trivandrum, has also served as the Director of the State Institute of Languages, Trivandrum.

Dr. Rajan Varghese was elected to the Senate of the University of Kerala continuously for three times. Besides he is also serving as the UGC nominee to other University Institutions such as Vignan University, Andhra Pradesh and KLE University, Karnataka.

Coaching classes conducted at Cusat Employment Bureau

University Employment Information and Guidance Bureau, Cusat conducted a Bank coaching class for candidates preparing for Bank Clerical/Officers competitive examinations. The coaching class was inaugurated by Sri. P. R. Rainold, Regional Deputy Director of Employment, Ernakulam at a meeting presided over by Dr. M. Bhasi, Chief, Employment Information and Guidance Bureau on 13 October 2010.

The University Employment and Guidance Bureau is a joint venture of the University and the National Employment Service Department of the Government of Kerala. The Bureau provides classes on Career Guidance, Higher Study Options and other career related information to students and general public, besides conducting coaching classes for UGC/ C S I R - N E T / J R F Examinations.



Dr. M. Bhasi, Chief, University Employment Information and Guidance Bureau is delivering a talk at the beginning of the coaching class. Sri. P. R. Rainold Regional Deputy Director of Employment, and Shri. M.N. Prabhakaran, Deputy Chief of the Employment Guidance Bureau are on the dias



Cusat Vice Chancellor Dr. Ramachandran Thekkedath is lighting the lamp in connection with Cusat Onam celebrations at the administrative office of the University. Shri. Sebastian Ouseph, Finance Officer, Dr. N. Chandramohanakumar, Registrar, and other organizers are also seen.

Onam celebrations at Cusat Administrative office

Cusat Vice Chancellor Dr. Ramachandran Thekkedath inaugurated the Onam celebrations on 17 August 2010 at the Administrative office of the University followed by a sumptuous 'Onasadhya' arranged for the staff. Onam celebrations organized by several departments were conducted on subsequent days.

Thiruvonam, the national celebration of Keralites all over the country was celebrated with a host of cultural programmes at Cusat.

Mixed Methods in Social Science - Research workshop conducted at Cusat

Centre for Study of Social Exclusion and Inclusive Policy, Cusat with financial assistance from the UGC organised a six day workshop during 26 to 31 July 2010 on *Mixed Methods in Social Science Research - A Statistical Package Approach* at the Department of Applied Economics auditorium. The workshop emphasized the need for a holistic approach to research methods in social science and provided hands

on training to the participants on statistical packages used in research methodology.

The valedictory session of the workshop which was inaugurated by Cusat Vice Chancellor Dr. Ramachandran Thekkedath, where Dr. K. Babu Joseph, former Vice Chancellor of Cusat gave the keynote address and Shri. N. K. Vasudevan, Member, Cusat Syndicate offered

felicitation. The meeting also witnessed the release of three working papers from the Centre, the report on *Human Development of Tribal Communities in Kerala* prepared by CSSEIP and the book titled *Inclusion of the Excluded - Dynamics and Challenges* edited by Dr. D. Rajasesan, Hon. Director of CSSEIP. The book was released by Cusat Vice Chancellor Dr. Ramachandran Thekkedath and the report was released by Dr. K. C. Sankaranarayanan, former Head, Department of Applied Economics, Cusat.

The working paper series released were *Professional course Entrance Examination in Kerala: Exclusion in a Community-Gender Mirror* jointly authored by Dr. D. Rajasesan, Sunitha A. S. and Binu P. Paul; *The Vicious Nexus of Ill-Health, Socio-economic Backwardness and Exclusion* jointly authored by Dr. D. Rajasesan, Sunitha A. S. and M. S. Jayakumar and *Performance and Perception of Students: Tracing the Missing Thread in Education Discussions* jointly authored by Dr. D. Rajasesan and Binu P. Paul.



Cusat Vice Chancellor Dr. Ramachandran Thekkedath is inaugurating the Research Workshop on Mixed methods in Social Science. Dr. K. Harikumar, Sri. N.K. Vasudevan, Dr. K. Babu Joseph, Dr. D. Rajasesan and Dr. K.C. Sankaranarayanan are also seen

Ph.D Awardees

The following persons were awarded Ph.D during September 2010 to November 2010.

Dr. Leny Mathew “Development of elastomeric hybrid composite based on synthesized nanosilica and short nylon fiber” (Dr. Sunil. K. Narayanan Kutty, Professor, Dept. of Polymer Sciences and Rubber Technology, Cusat) **Dr. Beena. P.J.** “Aadhunik hindi kahani ka samajsastryi adhyan” (Dr. A. Aravindakshan, Retd. Professor, Sandram, Mavelipuram, Kakkanad) **Dr. Babita Roselind Jose** “Design technique for sigma - delta based ADC for wireless applications” (Dr. P. Mythili, Reader, Div. of Electronics, School of Engineering, Cusat) **Dr. Sreedevi. N. Kutty** “Marine yeasts from the slope sediments of Arabian sea and Bay of Bengal” (Dr. R. Damodaran, Retd. Professor, School of Marine Sciences, Cusat) **Dr. Nify Benny** “Unraveling a benchmark for sulphur akin in the cochin estuarine system” (Dr. Sujatha. C.H., Senior Lecturer, School of Marine Science, Cusat) **Dr. Rajani. V.** “An evaluation of business deals using plastic money in kerala” (Dr. S. Rajitha Kumar, Reader, SMS, Cusat) **Dr. Senoy Thomas** “Fabrication of thin films and nano columnar structures of Fe-Ni amorphous alloys and modifications of its surface properties by thermal annealing and swift heavy ion irradiation for tailoring the magnetic properties” (Prof. M.R. Anantharaman, Dept. of Physics, Cusat) **Dr. Amrithesh. M.** “Investigations on some selected conducting polymer composites for possible optoelectronic applications” (Dr. S. Jayalekshmi, Reader, Dept. of Physics, Cusat) **Dr. B. Hanumanthappa** “Studies on the exploratory trawl fishing and significance of selectivity in trawl fishing gear for conservation of marine fishery resources with special reference to the inshore waters off mangalore” (Dr. C. Hridayanathan, Suhas, 29/1089, Janatha Road, 7th lane, Kochi) **Dr. Arun. K.J.**

“Investigations on the growth and characterization of some technologically important single crystals for possible non linear optical applications” (Dr. S. Jayalekshmi, Reader, Dept. of Physics, Cusat) **Dr. Anil R Nair** “Assessing education legal perspectives” (Dr. G. Sadasivan Nair, Retd. Professor, School of Legal Studies, Cusat) **Dr. Pretty Mary Abraham** “Serotonin-5-HT_{2A} and glutamate receptors gene expression in streptozotocin induced diabetic rats: Effects of pyridoxine and aegle marmelose leaf extract” (Dr. C.S. Paulose, Professor, Dept. of Biotechnology, Cusat) **Dr. Sunesh Thampy** “Bionomics, cryopreservation of gametes and captive breeding behaviour of threatened hill stream cyprinid, garra surendranathann (shaji, arun & easa 1996)” (Dr. A. Ramachandran, Professor, School of Industrial Fisheries, Cusat) **Dr. Suma. K.K.** “Development of novel surface coating’s based on acrylic copolymers” (Dr. Rani Joseph, Professor, PS & RT, Cusat) **Dr. Vijutha Sunny** “On the synthesis and characterization of magnetic metal and metal oxide nanostructures” (Dr. M.R. Anantharaman, Dept. of Physics, Cusat) **Dr. Vinod. K.K.** “Studies on development of MgB₂ super conductor with improved in field critical density” (Dr. U. Syamaprasad, Scientist G, NIIST, Pappanamcode, Trivandrum) **Dr. Beena. P.S** “Production purification genetic characterization and application studies of tannase enzyme from marine fungus aspergillus awamori” (Dr. M. Chandrasekharan, Professor, Dept. of Biotechnology, Cusat) **Dr. Smitha. S.** “A study on the kerridge’s inaccuracy measure & related concept” (Dr. K.R. Muraleedharan Nair, Professor, Dept. of Statistics, Cusat) **Dr. Nimmy. A.A.** “Azgarvajahat ki rachanaom mein samajik chetana ek vishleshanatmak adhyayan” (Dr. P.A. Shemim Aliyar, Professor, Dept. of Hindi, Cusat) **Dr. V.P. Limna Mol** “Natural product antifoulants from sponges and

octocorals of Indian waters” (Dr. T.V. Raveendran, Scientist II, NIO, Regional centre, Kochi) **Dr. Joseph Kunju Paul. C.** “Influence of angle of air injection and particles in bed hydrodynamics of swirling fluidized bed” (Dr. P.S. Sreejith, Professor, Dept. of Mechanical Engineering, School of Engineering, Cusat) **Dr. Juliya Emmanuel** “Rajbhasha karyanwayan aur rajbhasha prabandhan” (Dr. A. Aravindakshan, Retd. Professor, Sandram, Mavelipuram, Kakkanad) **Dr. Madhusudana Rao** “Biochemical and molecular characterization of pathogenic vibrios from hatcheries and aquaculture farms” (Dr. P.K. Surendran, Retd. Principal Scientist CIFT, Cochin) **Dr. Ancy Sebastian** “Development of safety and quality management system in shrimp farming” (Dr. A. Ramachandran, Professor, School of Industrial Fisheries, Cusat) **Dr. Marina Aloysius** “A study on aerosol transport dynamics over the Indian landmass and the adjoining oceanic regions using satellite data” (Dr. K. Parameswaran, Emeritus Scientist, CSIR, Space Physics Laboratory, VSSC, Trivandrum) **Dr. Reshmi. R.** “Physicochemical and biochemical characterization of enzymes immobilized on inorganic matrices” (Dr. S. Sugunan, Professor, Dept. of Applied Chemistry, Cusat) **Dr. Narayanan. T.N.** “Template assisted fabrication of 1-D nanostructures of nickel, cobalt, iron oxide and carbon nanotubes and a study on their structural, magnetic and non-linear optical properties for applications” (Dr. M.R. Anantharaman, Dept. of Physics, Cusat) **Dr. Shiny Sara Thomas** “Spectroscopic investigations of tooth caries and demineralization” (Dr. N. Subhash, Scientist F, Head of dept., ASD, CESS, Trivandrum) **Dr. Reji Kumar. R.** “Design and development of instrumentation systems to determine dry rubber content in natural rubber latex” (Dr. Jacob Philip, Professor & Director, STIC, Cusat) **Dr. Gopakumaran Nair. S.** “Judicial review of academic decisions” (Dr. K.N. Chandrasekharan

Ph.D Awardees

Pillai, Dean, Faculty of Law, Cusat)

Dr. Joyes Jacob “*Studies on catalysis by titania*” (Dr. S. Sugunan, Professor, Dept. of Applied Chemistry, Cusat)

Dr. Sreekala. V.R. “*Myth and reality in the contemporary hindi drama*” (Dr. R. Sasidharan, Dept. of Hindi, Cusat)

Dr. Sinto Jacob “*Modification of short fibre composites of PP and HDPE using nanosilica*” (Dr. K.E. George, Professor, PS & RT, Cusat)

Dr. Rekha. K.James “*Design and synthesis of efficient mac architectures for high speed decimal processor*” (Dr. K. Poulose Jacob, Professor & Head, Dept. of Computer Science, Cusat)

Dr. Unnikrishnan Kartha. N.R. “*A study of the impact of ISO 9001:2000 quality management practices in selected organizations in Kerala*” (Dr. Jagathy Raj. V.P., Reader, School of Management Studies, Cusat)

Dr. Saritha Thomas “*Development of innovative low cost larviculture technologies of the giant fresh water prawn, macrobrachium rosenbergii (de man)*” (Dr. B. Madhusoodana Kurup, Director, School of Industrial Fisheries, Cusat)

Dr. Bhuvanewary. M.G. “*Modification of natural rubber using thermoset resins*” (Dr. Eby Thomas Thachil, Professor, Dept. of PS & RT, Cusat)

Dr. Gisha George “*Photochemical and photophysical studies of a few bischromophoric systems*” (Dr. P.A. Unnikrishnan, Dept. of Applied Chemistry, Cusat)

Dr. Anila Devi Kunjamma. K.P. “*Biochemical effects of the pesticide chlorpyrifos on the fish oreochromis mossambicus (peters)*” (Dr. Babu Philip, Dept. of Marine Biology, Microbiology, & Biochemistry, Cusat)

Dr. Jobin Mathew “*Gaba A and Gaba B receptor subunits gene expression and their functional role in pilocarpine induced temporal lobe epilepsy: effects of bacopa monnieri and bacoside A*” (Dr. C.S. Paulose, Professor & Head, Dept. of Biotechnology, Cusat)

Dr. Rajesh. J. “*Weather and climate of peninsular India modulated by extrinsic factors - empirical and numerical perspectives*” (Dr. K. Mohan

Kumar, Professor, Dept. of Atmospheric Sciences, Cusat)

Dr. Seena Jose “*Cell culture systems from penaeus monodon: development and application*” (Dr. A. Mohandas, Emeritus Professor, School of Environmental Studies, Cusat)

Dr. Toms. C. Joseph “*Molecular biological investigations on viral diseases affecting farmed penaeid shrimps in Kerala*” (Dr. P.K. Surendran, Retd. Principal Scientist, CIFT)

Dr. John. P.R. “*Synthesis and transformation of a few nitrogen and oxygen heterocycles*” (Dr. Prathapan.S., Dept. of Applied Chemistry, Cusat)

Dr. Bybi. P.C. “*Broadband wide coverage uniplanar antenna*” (Dr. P. Mohanan, Dept. of Electronics, Cusat)

Dr. Lyjo K. Joseph “*Optical and thermal characterization of dye intercalated montmorillonites and rare earth doped materials*” (Dr. P. Radhakrishnan, Professor, International School of Photonics, Cusat)

Dr. Suneesh. C.V. “*Phenylethynylarene based donor-acceptor systems: design, synthesis and photophysical studies*” (Dr. K.R. Gopidas, Scientist ‘F’, Photosciences and Photonics section, NIIST - CSIR, Trivandrum)

Dr. Rakesh Kumar “*Biochemical and molecular investigations on salmonella serovars from seafood*” (Dr. P.K. Surendran, Retd. Principal Scientist, CIFT)

Dr. Pradeep. K.P. “*Expanding concept of sale: the taxation dilemma*” (Dr. G. Sadasivan Nair, Retd. Professor, School of legal studies, Cusat)

Dr. Jude Martin Mendez “*Optimization of the mechanical properties of HDPE/PP blends and their recyclable composites*” (Dr. K.E. George, Professor, PS & RT, Cusat)

Dr. T. Peeyush Kumar “*Brain cholinergic and dopaminergic functions in streptozotocin induced diabetic rats: effects of curcumin and vitamin D3 supplementation*” (Dr. C.S. Paulose, Professor & Head, Dept. of Biotechnology, Cusat)

Dr. Rajesh. K. “*Coastal tourism in Kerala: its impact on economy and development*” (Dr.

Ramakrishnan Korakandy, School of Industrial Fisheries, Cusat) **Dr. Ranjith. A.** “*Phytochemical investigations on sea buckthorn (hippophae rhamnoides) berries*” (Dr. C. Arumughan NIIST, Trivandrum)

Dr. S. Bijoy Nandan elected as fellow of NIE

Dr. S. Bijoy Nandan, Associate Professor, Marine Biology, School of Marine Sciences, Cusat has been elected fellow of the National Institute



of Ecology (NIE) for his significant research contributions in the field of ecology and environmental science.

The National Institute of Ecology, New Delhi is India's premier non-governmental organization (professional association) in the field of Ecology and Environmental Science.

National Symposium on Antennas and propagation

The 12th biennial national symposium on antennas and propagation (APSYM) will be held in the Department of Electronics, Cochin University of Science and Technology during 14-16 December 2010. The Symposium will be inaugurated by Dr. K. Gopalan, former Vice Chancellor, Cusat in which Vice Chancellor Dr. Ramachandran Thekkedath will be presiding. Dr. V. Ajay Kumar and Dr. Sidhu Joy, members of the Syndicate will be giving the felicitations. Prof. Tapan. K. Sarkar from Syracuse University, USA will be delivering keynote address.

Over 150 participants from all over India will be participating in the event. Nearly 80 peer reviewed research papers will be presented during these three days. The symposium will conclude on 16 December 2010.

Sri. C. P. Praveen: New University Union Chairman

Sri. C. P. Praveen, 3rd Semester LL.M (School of Legal Studies) has been elected as the New Chairman of Cochin University Union 2010-11. The other Members are: Vice Chairman - Achuth Kailas (9th Semester LL.B, School of Legal Studies), General Secretary - K. Jithin (7th Semester B.Tech., Department of Instrumentation), Secretary - Prem Krishnan (5th Semester B.Tech, Electrical & Electronics Engineering, School of Engineering), Executive Committee Members - Arjun C Vinod (3rd Semester M.Sc., CELOS), Nithin Das. G. M. (3rd Semester Mechanical Engineering, School of Engineering), Nandu Jayakumar (5th Semester B.Tech, Marine Engineering, K. M. School of Marine Engineering), K. P. Sooraj Divakaran, K. V. (3rd Semester MBA, School of Management Studies), Sekharaj (3rd Semester B.Tech, Department of Polymer Science & Rubber Technology).

South zone Inter University Championship

The basket ball team of Cusat has entered in the pre-quarter level of all India (South zone) Inter University Basket ball and Cricket championship held at Chidambaram and Warangal respectively, according to Dr. Ajith Mohan K. R., Asst. Director and Head, Department of Physical Education, Cusat.

Rajiv Gandhi Chair Fellow presented paper at Reims

Ms. Raji. K. Pillai, Senior Research Fellow in Rajiv Gandhi chair in Contemporary Studies, Cusat,



presented a scientific paper entitled "Green synthesis of silver nanoparticles using leaf and flower extract of Hibiscus rosasinensis, its characterization and antimicrobial study" authored by Raji. K. Pillai, Bishwajeet Singh Bharadwaj., Deep Punji, M. Kailasnath and N. Chandramohanakumar, in the 5th International Conference on Surfaces, Coating and Nanostructured materials (NANOSMAT - 5) organized by University of Reims, from October 19 - 21, 2010. The research was facilitated by a collaborative team work of Rajiv Gandhi Chair, CELOS and ISP of Cusat.

98th Science Congress in January 2011

The 98th Indian Science Congress organized by the Indian Science Congress Association (Kolkata) will be held at SRM University, Chennai, from January 3 to 7, 2011. The 97th Science Congress was held at the University of Kerala, Thiruvananthapuram during January 2010.

To download membership form and other details visit the website <http://sciencecongress.nic.in> or email to iscacal@vsnl.net

Common Admission Test 2011 (CAT 2011)

Common Admission Test 2011(CAT 2011) conducted by the Cochin University of Science and Technology for selecting candidates for various academic courses scheduled on 2nd and 3rd of April 2011. The online registration for CAT 2011 commences on 1st January 2011. Notification & Prospectus will appear in the University website shortly (visit <http://cusat.nic.in>).

Erudite programme at Cusat

The Department of Statistics, Cusat is organizing a lecture series as part of an Erudite Programme, sponsored by Govt. Kerala on 17 December 2010. Prof. Hira Lal Koul, Michigan State University, USA, will deliver a series of lectures on "Statistical model diagnostics under various situations" on 17, 21, and 22 December. The programme will conclude on 23 December.

Cusat student to Kerala Renji Cricket

Mr. Rizwan C.P, Department of Instrumentation (8th Semester), Cusat and son of M.P Abdul Rauf and Nazreen Rauf, got selected for the



Kerala Cricket team for the Renji trophy tournament for the year 2010-2011, informed Dr. Ajith Mohan K.R, Asst. Director and Head, Department of Physical Education, Cusat.

Tejus Editorial Advisory Board

The Vice Chancellor

Dr Babu Philip

Dr A Vijayakumar

Dr N G Devaki

Dr S Anil Kumar (Convenor)

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Kochi will soon be on the monsoon - monitoring map of the world when a Stratosphere - Troposphere (ST) radar would be set up by the Ministry of Science and Technology on the Cochin University campus in Kochi, Cusat Vice Chancellor Dr. Ramachandran Thekkedath said.

With the University getting the Official sanction from the Centre, the Rs. 20 crore Doppler radar will set the course for new findings on climate change and monsoon variability in the country, said Cusat Vice Chancellor Dr. Ramachandran Thekkedath on 18 November 2010.

The radar will be the first of its kind in the

The Rs. 20 Crore ultra modern Doppler radar at the Cochin University Campus will set the 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 of such in the world. "The location of Kochi is geographically unique and there is no such radar in the tropical belt, which could give useful data for the entire Asian region. As far as the monsoons



Dr. K. Mohankumar

are concerned we can study the intensity, velocity and orientation of the jetstream and also about cloud formations and vertical wind activity up to 30 kilometers",

Prof. K. Mohan Kumar, Department of Atmosphere Sciences said.

A project implementation committee of the Ministry will oversee the development of the sub-system, including integration, installation, validation and other activities of the project.

When the South West monsoon hits Kerala, it

tropical activity in the region. Dr. Mohan Kumar

Cusat to have Monsoon-monitoring radar soon

country and the seventh such in the world. "Kochi's location is geographically unique and there is no such radar in the tropical belt, which could give useful data for the entire Asian region. As far as the monsoons are concerned we can study the intensity, velocity and orientation of the jetstream and also about cloud formations and vertical wind activity up to 25-30 kilometers", Project co-ordinator Prof. K. Mohan Kumar, Department of Atmosphere Sciences said.

A project implementation committee of the Ministry will oversee the development of the sub-system including integration, installation, validation and other activities of the project. The radar will be made by the Hyderabad based Electronic Corporation of India.

rains the most in Anamudi in the Western Ghats and Kochi is located in the same altitude. Hence, it would be much easier to study the

said the radar could help in studying climate change as the stratosphere is an ozone-enriched region.

Moreover, the radar



would be helpful to the Indian Navy and the Cochin International Airport and information on wind - speeds would be helpful to aircrafts. The Science and Technology Ministry has mandated Cusat to study the characteristics of the tropical easterly jetstream and its linkage to the monsoon activity. Stratosphere - troposphere exchange processes, summer monsoon, its dynamics & monsoon variability. The major objectives of the radar are to-

- study the characteristics of summer monsoon & its dynamics and to search for the possible causes of monsoon variability besides understanding the monsoon low level jet and

its association with monsoon activity. It will also study the characteristics of Tropical Easterly Jetstream in the upper troposphere and its linkage with monsoon activity and to monitor, analyze & modeling of Tropical mesoscale convective systems.

- study the Orographic Forcing by the Western Ghats and the Generation of Wave Activity
- investigate the characteristics of Extreme Rainfall Events & its synoptic & mesoscale features
- study the moisture transport from troposphere to stratosphere & understand the Stratosphere Troposphere Exchange processes
- understand the role of tropical troposphere on the interaction between upper troposphere and lower stratosphere.