



SJCET Newsletter

ST. JOSEPH'S COLLEGE OF ENGINEERING & TECHNOLOGY, PALAI

An Institution with Minority Status

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For Private Circulation

SJCET : A College with a Difference !

Vol. 5 No.1 Half Yearly January 2011

21st Annual Convention of ISTE Kerala Section at SJCET

The 21st Annual convention of ISTE Kerala Section was held at St. Joseph's College of Engineering & Technology, Palai on 20th November, 2010 with the theme as "Innovative practices for Excellence in Engineering Education". The convention with around 820 participants was inaugurated at the college auditorium by **Sri. K. M. Mani**, honourable Member of Legislative Assembly, Govt. of Kerala and in his inaugural address he urged the technical education teachers, to face the challenges introduced by globalization by continuous discussions on innovative practices. He also urged teachers to mould a new generation who can make considerable changes in the public sector, industrial and agricultural development of the state.

The function was presided over by **Dr. B. Anil**, Chairman, ISTE Kerala Section, who, in his presidential address brought forward the idea of using innovative practices like Edusat, e-learning & Smart-Classrooms into engineering education in the state. He also pointed out the importance of research & higher learning among faculty.

Dr. C.J. Joseph (Principal, SJCET) welcomed the gathering. Dr. P.J. George, (Project Director SJCET Palai & Former Executive Secretary ISTE New Delhi), delivered the introductory address in which he stated that "ISTE Convention is the only forum where technical education teachers can discuss their matters under one roof". H.E Mar Joseph Kallarangatt, honourable Bishop of Palai delivered the benedictory address. The convention souvenir was unveiled by Mr. P.C. George, honourable Member of Legislative Assembly, Govt. of Kerala and requested the engineering fraternity to discuss the importance of moral values in engineers and also asked for discussions on usage of innovative practices, to uplift the 22% under privileged in the state.



Dr. C.J. Joseph, (Principal, SJCET) welcoming the gathering during Annual Convention of ISTE

Dr. Kuncheria P. Isaac, Director of Technical Education, inaugurated the M. Tech program in Advanced Manufacturing Engineering and Production Management which is being offered in the college under the Mechanical Engineering department and delivered the keynote address. Msgr. Philip Njaralakkat (Chairman, SJCET) offered a felicitation regarding the vision of SJCET.

The sad untimely demise of Dr. D. Balakrishnan, Former Chairman of ISTE Kerala Section & Former National Executive Council Member was remembered with heartfelt condolence. The inaugural session concluded with the announcement of thirteen ISTE awards for the year 2010 by Prof. C.P. Sunilkumar (Secretary, ISTE Kerala Section) of which the Best Chapter award was bagged by St. Joseph's College of Engineering & Technology, Palai and the Best Student Chapter award was bagged by College of Engineering, Trivandrum.

The paper presentations in the afternoon were held as a competition for the delegates. The paper "Challenges faced by Technical Education in the Energy-Climate Era" by Dr.B. Anil, Director, Centre for Engineering Research and Development, Trivandrum and Nidhi M. B. Assistant Professor, Mar Baselios College of Engineering and Technology, Trivandrum was selected as best paper by an eminent jury for award of a medallion and cash prize.

The 21st Annual General body meeting was held in the evening. The annual report was presented by Prof. C.P. Sunil Kumar and audited accounts were presented by Mr. T.O. Thomas, treasurer. The meeting discussed the future course of action and raising of building fund. The venue for 22nd Annual convention was declared as Vidya Academy of Science and Tech, Thrissur. The meeting came to a close by 4.00 pm.

Honorary Fellowship of ISTE awarded to Dr. P.J. George



ISTE has conferred Honorary Fellowship to Dr. P.J. George, Project Director, SJCET in recognition of the commendable services rendered for the growth and development of ISTE and the invaluable leadership provided towards the development and promotion of Technical Education in India.

Developing Entrepreneurship Skills in Students

Historically engineering educators believe that they are responsible only for turning out technical experts for industries. Yes, it was sufficient in old days, when technological base of our country was developing and was put on test very often. But now, Indian technology seems to be in flying colours. Earlier, we used to depend on other developed countries, for the design and manufacture of many items. Now there are many industries who are using their own technologies and manufacturing and marketing techniques.

Still engineering educators design the syllabus and teaching activities which will produce graduates who are fully equipped with knowledge of their discipline. They are not all familiar with the working of our industries and the practices followed in the industries. Many of them might not have seen an industry at all during their studies.

After China, India stands second in the world in producing engineering graduates. But many of our engineering graduates fail to get proper placement in industries because our industrial growth rate is not so fast. One way to accelerate our industrial growth is to encourage a portion of our engineering graduates to establish their own industries. For this to become a reality, we must develop entrepreneurship skills in students while they are undergoing the course. This must be planned and implemented very carefully without affecting the regular course work. Special lectures and training programmes can be arranged after class hours and on holidays on various aspects of planning, establishing, running and maintaining an industrial project. A few general lectures can be given to all students and detailed training can be arranged to those who show interest in entrepreneurship. These general lectures on what is happening in industries and how an industry functions will help to motivate the students in their studies. Detailed training and lectures may be arranged for selected students on subjects such as industrial policy, trade policy, labour laws, capital market regulations, cyber laws and regulations, legality of financial contract, cash flow management, working capital management, borrowings and expenses management, accounting and costing, overdrafts and surplus management, various investment options, impact of inflation, corporate income tax, general tax incentives, concessions offered to specific sectors, capital gains, copyrights, trademarks, patents, industrial designs, business ethics, developing social capital, personnel management, workplace management, personnel counseling, appraisals and training, work load management techniques, etc.

It is strongly felt that inculcating entrepreneurship skills into engineering graduates is a major aspect for the betterment of engineering education. It may not be possible for all engineering colleges to provide such a detailed exposure to entrepreneurship. At least a few colleges with good facilities and which are situated near industrial establishments can try this. Other colleges can incorporate reasonable exposure of entrepreneurship in their curriculum. This will definitely provide a great boost to the engineering education and economic development of India.

Activity for the Season

Discuss the topic: "How to develop punctuality and orderliness in life?" and try to practice these in your personal life.

For success in life

Set goals and follow through on them. You transform yourself from one of life's spectators into a real participant.

Robert Mcgrarvey in Readers Digest

Words of wisdom

- If you want the rainbow, you gotta put up with the rain.
...Dolly Parton
- If you don't have enemies, you don't have a character.
...Paul Newman
- Genius without education is like silver in the mine.
...Benjamin Franklin
- Calamity is the test of integrity.
...Samuel Richardson
- Don't confuse having a career with having a life. They are not the same.
...Hillary Clinton
- Empty pockets never held anyone back. Only empty heads and empty hearts can do that.
...Norman Vincent Peale
- A good laugh and a long sleep are the best cures in the doctor's book.
...Irish Proverb
- It is our responsibilities, not ourselves, that we should take seriously.
...Peter Ustinov
- It is not how long you live that makes a life. It is what you pack into a lifetime that counts.
...Ian Fleming
- Strive on! With tireless enthusiasm, strive on to reach your goal. Without a goal, the best in you can never come out to expression.
...Swami Chinmayananda
- As soon as you feel confidence in yourself, you know the art of living.
... Goethe
- No one is rich enough to do without a neighbor
... Joe Louis

The Lighter Side

- When the waitress asked if I wanted my pizza cut into four or eight slices, I said, "Four. I don't think I can eat eight."
...Yogi Berra
- The nice thing about doing meditation is that it makes doing nothing quite respectable.
... Paul Dean
- What is the difference between a pigeon and an investment banker?
The pigeon can still make a deposit on a BMW.
...Paul Stramberg
- Why does the Tower of Pisa in Italy lean?
It's italicized.
... From the internet.

Absent-minded Professor

Professor was speaking at a reception on his return from a tour of England and USA. One colleague: "What is the significant difference you observed in the students there as compared with students in Kerala?"

Professor: "It is stunning! Even small children there speak good English."

News from Faculty

Conferences/Seminars/Training Programmes Attended

- Mr. Rijo Rajan, Lecturer in EEE Dept. has attended a STTP on **Reactive Power Management and Power Flow Controlling Transmission System** sponsored by the AICTE, held at College of Engineering, Trivandrum from 11th to 18th October, 2010.
- Prof. P.V. Varkey, Professor & HOD and Mr. Sino Jacob Mathew, Sr. Lecturer of Dept. of EEE attended a One Day Workshop on **Recent Trends in Design, Development and Conduct of Experiments in State of the art Electrical Machines Laboratories** at Rajagiri School of Engineering & Technology, Kakkanadu on 20th October, 2010.
- Mr. Robin Joseph, Lecturer in the SJ CET School of Management attended a National Workshop on **Tools & Techniques of Social Science Research** organized by Bharata Mata Institute of Management, Thrikkakara, Kochi from 11th to 13th October, 2010.
- Ms. Soumya Varghese, Asst. Professor in the SJ CET School of Management attended a National Seminar on **Environment & Sustainable Development in India : Challenges Ahead** organized by St. Dominic's College, Kanjirappally during 25th & 26th November, 2010.
- Ms. Praseetha V.M, Asst. Professor and Mereen Thomas Vadakkal, Lecturer, Dept. of CSE, attended a Short Term Training Programme on **Pedagogy Strategy for Effective Engineering Education**, sponsored by the DTE, held at RIT, Pampady during 22nd to 27th November, 2010.
- Ms. Praseetha V. M., Asst. Professor, Dept. of CSE, attended a Short Term Training Programme on **Algorithm Analysis and Design**, sponsored by the ISTE, and held at RIT, Pampady during 6th to 10th December, 2010.
- Prof. Jubilant J. Kizhakkethottam, Asst. Professor CSE participated in International Workshop on **Teaching Methodologies** by WIPRO from 9th to 13th November, 2010.
- Prof. Jubilant J. Kizhakkethottam, Asst. Professor CSE participated in National Conference of ISTE held at MEPCO, Sivakashi from 2nd to 4th December, 2010.
- Mr. Sarju S. and Mr. Thomas Joseph Lecturers in Department of CSE participated in **Infosys Campus Connect Faculty Enablement Programme** from 29th November to 3rd December, 2010.
- Ms. Dina Anna John, Ms. Vijitha Rajan, Lecturers, Dept. of AEI, attended a Short Term Training Programme on **Recent Advances in Measurement & Control Systems**, sponsored by the AICTE, and held at JJ College of Engineering, Trichy during 19th to 30th May, 2010.
- Mr. Justin Joseph, Asst. Professor, Dept. of AEI, attended a Faculty Development Programme (FDP) on **Recent Trends in Biomedical Systems**, jointly sponsored by MHRD and AICTE, at Department of Instrumentation & Control, National Institute of Technology (NIT), Tiruchirappalli, during 28th June to 03rd July, 2010
- Mr. Shijin C. S. Asst. Professor, Dept. of AEI, attended a ICMR sponsored seminar on **Computerized Diagnosis using Artificial Intelligence Techniques** during 23rd to 24th November, 2010.
- Mr. Tony Aby Varkey M., Asst. Professor, Dept. of AEI, attended a Short Term Training Programme on **Bio Signal Processing** organized and held at SSN College of Engineering, Chennai during 20th to 24th December, 2010.
- Mr. Tiju Baby and Ms. Ginu Ann George lecturers in EEE Dept. has participated in the National Conference on **Emerging Trends in Energy Systems & Control** organised by FISAT, Angamali from 20th to 21st May, 2010.
- Ms. Seena K.R., Mr. Tiju Baby, lecturers in EEE Dept. attended a Three-Days Workshop on **LABVIEW Hands on Training and Certification** at Rajagiri School of Engineering & Technology, Kochi from 26th to 28th April, 2010.
- Mr. Jaison James, Asst. Professor in EEE Dept, Ms. Elizabeth Alphonsa Jose, Mr. Aju S. Nair, lecturers in EEE dept attended a Training Programme on **Soft Computing: Methodologies and Applications** organized by College of Engineering, Poonjar from 21st to 28th April, 2010.
- Mr. Jaison James, Asst. Professor in EEE Dept, Ms. Ginu Ann George, Mr. Tiju baby, lecturers in EEE dept, attended a Two-Day Workshop on **Technical Analysis Tools** on 6th & 7th August 2010 organized by Mechanical Engg. Association & ISTE Staff Chapter at SJ CET Palai.
- Mr. George Tom Varghese, Asst. Professor, Ms. Bineetha Merin Varghese, Asst. Professor, Ms. Mary Catherine V.G, Lecturer, and Mr. Deepu Baby, Lecturer, Dept. of ECE, attended a Short Term Training Programme on **Teaching Excellence and Methodologies**, sponsored by the AICTE, and held at College of Engineering, Thrissur during 21th to 25th June, 2010.
- Mr. Sabarinath G., Asst. Professor and Mr. Paul Ansel V., Asst. Professor ECE dept. attended a two-week faculty improvement programme on **Advances in Digital Signal Processing** sponsored by MHRD/AICTE held at NIT Calicut.

Papers Presented / Published/ Accepted

- Mr. Ebe Robert E., Asst. Professor in the SJ CET School of Management presented papers on **Employee Retention Strategies for Indian BPO's and CRM – The Best Way To Manage Banking Business** in the National Seminar on Strategic Issues in Management organised by the Department of Business Administration, Annamalai University, Chidambaram, Tamilnadu on 11th June, 2010.
- Mr. Ebe Robert E., Asst. Professor in the SJ CET School of Management presented a paper on **Maintaining Human Resources is the Key Management Practice for Sustainable Growth of an Organisation in the International Conference** on Management Practices for Sustainable Growth organised by the Department of Business Administration, Annamalai University, Chidambaram, Tamilnadu on 28th to 30th July, 2010.
- Mr. Ebe Robert E., Asst. Professor in the SJ CET School of Management presented a paper on **Implementation of Green Marketing Management Plans** in the National seminar on **Synergize green to gold** organised by the Department of Business Administration, Annamalai

News from Faculty

- University, Chidambaram, Tamilnadu on 3rd September, 2010.
- A paper entitled **Employee Retention Strategies for Indian BPO's** by Mr. Ebe Robert E., Asst. Professor in the SJ CET School of Management was published in the book **Strategic Issues in Management** by SCITECH Publications (India) Pvt. Ltd.(ISBN: 978-81-8371-289-7).
 - A paper entitled **CRM - The Best Way To Manage Banking Business** by Mr. Ebe Robert E., Asst. Professor in the SJ CET School of Management was published in the book **Managerial Strategies for Excellence** by SCITECH Publications (India) Pvt. Ltd. (ISBN: 978-81-8371-290-3).
 - A paper entitled **Maintaining Human Resources Is The Key Management Practice For Sustainable Growth Of An Organisation** by Mr. Ebe Robert E., Asst. Professor in the SJ CET School of Management was published in the book **Human Resource Management Practices for organisational Sustainability**, published by CISSL International Publication, New Delhi. (ISBN No. 978-93-80449-16-6).
 - A paper entitled **Implementation Of Green Marketing Management Plans** by Mr. Ebe Robert E., Asst. Professor in the SJ CET School of Management was published in the book **Synergize green to gold** published by the Department of Business Administration, Annamalai University, Chidambaram, Tamilnadu (ISBN No. 978-81-908455-5-7).
 - A paper entitled **Strategic Issues in Rejuvenation of Brand** by Ms. Suma Mathew, Assistant Professor in the SJ CET School of Management was published in the book **Strategic Issues in Business** by SCITECH Publications (India) Pvt. Ltd.(ISBN: 978-81-8371-289-7).
 - A paper entitled **Strategic Issues in Women Empowerment** by Ms. Soumya Varghese, Lecturer in the SJ CET School of Management was published in the book **Managerial Strategies for Excellence** by SCITECH Publications (India) Pvt. Ltd. (ISBN: 978-81-8371-290-3).
 - A paper entitled **Greece - Big Fall of a Small Economy** by Ms. Meera Kuncheria, Lecturer in the SJ CET School of Management was published in the book **Strategic Issues in Business** by SCITECH Publications (India) Pvt. Ltd.(ISBN: 978-81-8371-289-7).
 - A paper entitled **Strategies for Building a Sustainable Microfinance** by Ms. Rosin C. Jacob, Lecturer in the SJ CET School of Management was published in the book **Managerial Strategies for Excellence** by SCITECH Publications (India) Pvt. Ltd. (ISBN: 978-81-8371-290-3).
 - A paper entitled **Strategic Marketing Lesson from the IPL** by Mr. Dawn Jose, Lecturer in the SJ CET School of Management was published in the book **Strategic Issues in Business** by SCITECH Publications (India) Pvt. Ltd.(ISBN: 978-81-8371-289-7).
 - Ms. Aan Smita Abraham, Sr. Lecturer and Mr. Justin Joseph, Lecturer, Dept. of AEI presented a paper on **Optimization of GOD Enzyme Layer Amperometric Biosensor through LABVIEW based Auto ranging and Gain Compensation** in the National Seminar on **Nanomaterials and Biosensors** organized by Alagappa University, Karikudi during 4th to 5th March, 2010.
 - Ms. Aan Smita Abraham, Mr. Justin Joseph, Asst. Professors, Dept. of AEI & Prof. Madhukumar S., Professor, Dept. of AEI presented a paper on **An Adaptive, Evidence Based and Risk Oriented Prioritization of Medical Equipment Safety Audit** in the International Patient Safety Conference, (IPSC 2010), held at All India Institute of Medical Sciences (AIIMS), New Delhi during 1st to 3rd October, 2010.
 - Mr. Justin Joseph, Asst. Professor, Dept. of AEI & Prof. Madhukumar S., Professor, Dept. of AEI, presented a paper on **A Novel Approach to Data Driven Preventive Maintenance Scheduling of Medical Instruments** in the International Conference on Systems in Medicine and Biology, (ICSMB 2010), organized by Dept. of Electrical Engg., School of Medical Science & Technology and IEEE Kharagpur section, at Indian Institute of Technology (IIT), Kharagpur, during 16th to 18th December, 2010.
 - Ms. Aan Smita Abraham, Asst. Professor, Dept. of AEI, published a paper on **MRI can detect the early transition of RRMS to SPMS- A case study**, in the International Medical Science Association Conference, Royal Society of Medicine, London, during 10th to 11th September. 2010.
 - Ms. Aan Smita Abraham, Asst. Professor, Dept. of AEI, published a paper on **Transition RRMS-SPMS over a period of 28 years- A case study**, in the International Conference on Frontiers in Biological Sciences, INFOBIBS, NIT Rourkela during 01st to 03rd October, 2010.
 - Ms. Ginu Ann George, lecturer in EEE Dept. presented a paper **Cell Voltage Balancing Control in a Series connected Battery String** on 21st May, 2010 in the National Conference on 'Emerging trends in Energy Systems & Control' organised by FISAT, Angamali from 20th to 21st May, 2010.
 - Mr. Jilse Sebastian Lecturer in ME Dept. published a paper in the proceedings of SAE- international conference held at USA on the topic **Experimental study on Influence of Fuel content in the performance of a DICl Engine**.
 - Mr. Lijo Paul, Mr. Bibin P George, Mr. Melbin Baby published a paper on **Shielding Effectiveness of Aluminum Laminated Epoxy Composites in X and S Band** in the Proceedings of International Symposium for Research Scholars on Metallurgy, Material Science and Engineering (ISRS-2010) held at IIT Madras.

Recently Joined Faculty

- Ms. Julie T. S. joined as Lecturer in the Dept. of EEE.
- Mrs. Teena Thomas rejoined as Asst Professor in the Dept. of CSE after completing her M.Tech. in VLSI Technology from National Institute of Technology, Calicut.
- Mr Sajeew Zacharia rejoined as Asst Professor in the Dept. of CSE.
- Ms. Binitha Merin Varghese, (M.Tech.) joined as Sr. Lecturer in the Dept. of ECE.
- Mr. Robin Joseph, B. Tech., M.B.A., joined as lecturer in the SJ CET School of Management.
- Ms. Salini Thankachan, Ms. Neena Tom, Mr. Siju Varghese joined as Asst. Professors in the Dept. of AEI.

News from Departments

- Ms. S Swapna (B.Tech) joined as Lecturer in the Dept. of ECE.
- Ms. Manju James (M.Tech) joined as Asst. Professor in the Dept. of ECE.

Faculty on Leave for Higher Studies

- Ms. Divya Sunny and Mrs. Linta P. Joseph, Lecturers, Dept. of CSE, is deputed for Higher studies.
- Ms. Rameesamol J., Lecturer, Dept. of AEI is deputed for higher studies at Sree Jaya Chamarajendra College of Engineering, Mysore.
- Ms. Rashmi Annama George, Lecturer, Dept. of AEI is deputed for higher studies at Bannari Amman Institute of Technology, Sathyamangalam.
- Ms. Sunitha S. Pillai, Lecturer, Dept. of ECE, is deputed for Higher studies at NIT, Surathkal.
- Ms. Jothy V. Baby, Lecturer, Dept. of ECE, is deputed for Higher studies at Doeac, Calicut.
- Mr. Arun P., Lecturer, Dept. of ECE, is deputed for Higher studies at Doeac, Calicut.
- Mr. Sreesh P.R., Lecturer, Dept. of ECE, is deputed for Higher studies at NIT, Calicut.
- Mr. Rajesh Baby (Asst. Prof, ME) got admission for Ph.D. in IIT, Madras and he was relieved from SJ CET for pursuing it, on study leave.

Applied Electronics & Instrumentation

- The AEI department organized a Two-Day Training programme **DeMystifying MATLAB** for Semester IV AEI Students during September, 2010.
- ISOI Student Chapter of AEI department organized a Two-Day Training programme on **Product Design** for Semester VI AEI Students.
- The AEI department organized a Two-Day Training programme **Demystifying Wavelets** during August, 2010.
- Inauguration of **ISA 2010 activities** was done by Dr. Jacob Philip, Director, Sophisticated Tests & Instrumentation Center, CUSAT. He delivered a technical talk on fiber optic Sensors and Instrumentation.



Inauguration of Expo Electrice 2010

- The ISA, Dept. of AEI organized **EQUINOX- 2010** Intercollegiate Technical Fest on 18th September, 2010. Students from twenty different colleges participated in various events as paper presentation contest, quiz etc.

Computer Science & Engineering

- Dr Krishnan Batri (HOD, Electronics and Communication dept.) conducted a talk on **Research Methodologies** on 6th October, 2010 for Final Year Computer Science Students.
- Mr Renjith Varma, COO, Cyber Prism Cochin conducted seminar on **Development using Microsoft Technologies** on 27th October, 2010.
- Software Development Cell conducted **NET training** for sixth semester students under the guidance of Mr Robin Jome from 6th to 10th December, 2010.
- **Academic Project Orientation programme** for sixth semester students was conducted by Dr. Sajan Mathew, HOD, CSE on 15th December, 2010.
- **Online Examination Center** Developed by Research and Development wing of Computer Science Department was successfully implemented and Online Aptitude Tests and Infosys Campus Connect examination were conducted for the final year students.
- **Infosys - Campus Connect Foundation programme Phase 1** was completed for Final year students.

Electrical & Electronics Engineering.

- The EEE department organized a One-Week Training programme **Electrical Cad** for Semester 7, AEI Students by CAD CITY Pala, during 30th August to 5th September, 2010.
- The EEE department organized a Seminar on **Gas Insulated Substation** by Dr. K.S.M. Panickar, Dean (R&D), FISAT, Angamaly for Staff & Students of EEE Dept on 5th October, 2010.
- The Department of Electrical & Electronics Engineering along with ENCON GREEN Club organized an Electrical Exhibition **Expo Electrice-2010** on 5th August, 2010. The Exhibition opened a new window to visualize and learn about Power System Equipments, Non conventional Energy Sources and Energy Saving Appliances and Energy Conservation Techniques and associated Technologies.



A scene from Expo electric 2010

News from Departments (continued.....)

Mechanical Engineering

- The Mech. Engg Association activities of the year was inaugurated by Dr. Ing. Pyari Lal on 3rd July 2010.
- The first M.Tech Programme of SJ CET was started in ME dept. in **Advanced Manufacturing and Production Management**. The course was formally inaugurated by Dr. Kunjaria P. Isaac (Director of Technical Education, Kerala) on the occasion of ISTE state convention on 20th November, 2010.
- The technical extravaganza of MEA, **MECHAURA** were on 4th September, 2010. This was fifth in the series. We have our 2nd version of auto show EXPLORATION on 11th and 12th of December, 2010 at Pala Municipal Stadium.
- A two-day workshop on **Technical Analysis Tools** was organized by MEA on 6th and 7th of July, 2010. The programme was on Applications of MATLAB. The sessions were guided by Mr. M.V. Rajesh (Dept. of Electronics and communication, Model Engg. College, Trikkakara) and Dr. T.M. Jacob (Dept. of Statistics, Nirmala College Muvattupuzha).
- A four-day workshop on **CNC Technologies** was conducted from 1st to 4th November, 2010. Prof. Dominic Mathew (HOD, Dept. of AEI Rajagiri School of Engineering & Technology) and Prof. Tom Zacharia were the speakers.
- 28 students of S5 ME have attended a one-week workshop on **Marine Diesel Engines** from 26th to 31st December, 2010 at CIFNET (Central Institute of Fisheries and Nautical Technology, Cochin).
- Jiss J. Sebastian and Adarsh Ramachandran of S5 ME attended a short-term course on **Hurricane, Thermodynamics and Engineering Design** from 18th to 22nd December, 2010 organized by Department of Applied Mechanics, IIT Chennai.

School of Management

- Industrial visit to KMML Ltd., Kollam for II Semester MBA students (2009 Batch) was arranged on 2nd July, 2010.
- Industrial visit to Travancore Cements Ltd., Kottayam for I Semester MBA students (2010 Batch) was arranged on 15th September, 2010.
- A visit to Kerala Travel Mart for I Semester MBA Students (2010 Batch) was arranged on 26th September, 2010.
- Industrial visit to Instrumentation Ltd., Palakad for I Semester MBA Students (2010 Batch) was arranged on 27th November, 2010.
- Industrial visit to BPL Palakad for I Semester MBA Students (2010 Batch) was arranged on 27th November, 2010.
- Industrial visit to ITI Ltd., Palakad for III Semester MBA Students (2009 Batch) was arranged on 27th November.
- Industrial visit to Saint Gobain Ltd., Palakad for III Semester MBA Students (2009 Batch) was arranged on 27th November, 2010.
- Mr. K.C Joseph Varghese, FCA, Fellow Member of the Institute of Chartered Accountants of India, gave a talk on **Income Tax for individuals with tax saving schemes** on 16th August, 2010 to first and second year MBA students (2009 & 2010 Batch).
- Mr. T.K. Mohandas, Founder Member of 'Elephant Care' gave a talk on **A Journey to Forest** on 17th August, 2010 to first and second year MBA students (2009 & 2010 Batch).
- Mr. C. Balagopal, Managing Director, Terumo Penpol Ltd., Trivandrum delivered a talk on **Ecosystem for Entrepreneurial growth** on 3rd November, 2010.
- Mr. T. M. Jacob, Chairman, Computer Olympics 2012, Italy gave a talk on **Management Science and Innovation** on 29th November, 2010 to first and second year MBA students (2009 & 2010 Batch).
- Mr. Manu J. Vettickan, Assistant Director / Research Officer, Planning Commission, New Delhi delivered a talk on **Twelfth Five Year Plan** on 1st December, 2010 to first and second year MBA students (2009 & 2010 Batch).
- Mr. Joshy John, Territory Manager, Inditrade delivered a talk on **Capital Market** on 14th December, 2010 to second year MBA students (2009 Batch).



Inauguration of MECHAURA- 2010



Mr. C. Joseph Varghese, FCA, fellow member of the Institute of chartered accountants of India delivering a talk on "Income tax for individuals with tax saving schemes"

SJCET Primer for Teachers

Motivating Students for Better Performance

In a teaching-learning situation, we come across students who find studies very interesting and therefore concentrating and students who are not much interested in studies. One of the factors that explains these wide difference in students behaviour is motivation. There is no one sure way of motivating students. It is a common misconception among teachers that once the students have been given initial impetus, there is no need to sustain the efforts. It becomes essential for the teacher to make conscious efforts to sustain the motivation of students.

Motivation is concerned with personal energy directed towards the attainment of a particular goal. We will consider some techniques of motivating students for achievement and excellence.

1. Setting realistic goals and objectives and working towards achieving them.
2. Involving students in setting high achievement goals for learning tasks.
3. Including a variety of learning activities in place of the routine kind of activities that become monotonous and boring to students. New techniques like discovery learning, project work, brainstorming, problem solving etc should be tried.
4. Providing stimulating and challenging learning tasks to students so that they will be motivated to complete such tasks.
5. Encouraging students to experience success by giving recognition, awards, prizes and other forms of encouragement.
6. Giving examples from daily life. Students are motivated to learn when they can visualize the direct application of the concepts, principles and procedures in their daily life.
7. Providing a supportive and non-threatening class room climate so as to encourage students to discuss freely among themselves and with the teacher.
8. Building strong, positive self-concepts among students. Making the students aware of their potentialities and accepting them as they are will help them to accept themselves and their potential.
9. Attributing success to students effort. Students should be encouraged to own responsibility for their success or failure. This is likely to intrinsically motivate them for attaining instructional objectives and goals.
10. Using effective communication skills.
11. Setting examples before students. Teacher should set an example by being fully committed to his subject and related activities.
12. Providing appropriate reinforcements like rewards, praise, social recognition etc keeping in view the needs and interest of his students.
13. Providing immediate feedback on student performance to students.

Placement News

Brief Account of Placement Cell Activities Aug. 2010-Jan. 2011

- Aug.4: Presentation by TIME on CAT, MAT etc.
- Aug.6: Orientation programme for first year students.
- Sept.7-11: Soft skills development programme as part of CAMPUS CONNECT rolled out to S5 students by CORNERSTONE, Bangalore.
- Sept.14-15: Career orientation programme for MCA first year students by THOUSANDREAMS Trivandrum.
- Sept.14-17: Employability enhancement programme for final year students by KONFIDENCE Cochin.
- Jan. 3-4: Focused training for recruitment by KONFIDENCE Cochin.

Recruitment drives:

- Jan. 06: Infosys visited SJCET for the first time. 29 job offers were given to final year students.
- Jan. 13: IBS recruitment- 15 job offers.
- Jan. 19: UST Global recruitment-44 job offers.
- Jan. 22: Accenture recruitment-8 job offers.
- Jan. 30: HCL Tech recruitment-14 job offers. academic year onwards.

STAFF CHAPTER, SJCET : THE BEST IN KERALA SECTION



*Prof. Jubilant J. Kizhakkethottam and Prof. Tom Zacharia
receiving the award for best staff chapter*

SJCET Newsletter

Published by the ISTE Students' Chapter

Staff Editor : Mr. Tony Aby Varkey, AEI department

Student Editor : Fredy James J , S6 ME

Consultant : Dr. P.J. George

SJCET Primer for Students

Developing Design Talents

Design has a far reaching influence on economic growth. It is also a tool for development of export. Lack of capabilities in product design and innovation has forced the industry to concede even national markets in technology intensive products to foreign companies. If this trend is to change, the engineering education must focus more on creating well trained manpower for product innovation and product design tasks.

It is unfortunate that design and product development are being increasingly neglected in engineering education. Traditionally engineering design was seen as link between research and development of new products. However, in spite of substantial investment in research as well as in engineering education, the impact of foreign products and design continues. Industry must take its share of blame for the state of affairs, but can engineering education absolve itself of the responsibility? The companies which are committed to develop their designs within the country, have not been able to get the manpower needed to undertake ambitious design tasks.

Much more emphasis is needed in the engineering curriculum on design because it is only through design capability that technologies can be exploited to make an impact on our economy through new products and processes. Over the years, in engineering education, design skills have been gradually allowed to be displaced by the increasing emphasis on analytical skills. Our engineers should design our own automobiles, aircrafts, ships, television sets, mobile phones and various electronic and mechanical products and export them to foreign countries. By this only we will be able to become a global power.

It would be necessary to re-examine and re-design the engineering curriculum to ensure that engineering and industrial design skills are properly developed among the students. More post graduate courses on engineering design should be introduced and innovative and talented students should be encouraged to take up such courses and follow a career in engineering design. Students should be encouraged to take up design tasks for their project work and institutional level, state level and national level awards should be instituted for good designs by student groups.

As an institutional measure, we suggest that every engineering college should set up a "Design Cell" where students, teachers and invited experts should meet regularly and discuss the philosophy and practice of engineering design. They should establish working linkages with industry and take up and do some of their product designs. This will be hailed as a giant step towards self reliance towards design capability.

Little Secrets of Success

Develop your will power. Set yourself tasks that are difficult to do, then keep at them till you have accomplished them. In time, you'll find that your will power has become firm and shining like a wand of steel.

... J. Donald Walters

Prizes and Awards won by Students

- **Ms. Baby Catherine Zacharias**, 2007-2009 batch MBA student, secured **III Rank** in the MBA Degree Examination of M.G. University, Kottayam.
- **Boney V. Joy and Ciby Varghese** of first semester MBA (2010-12) won **first prize** in Treasure Hunt in **Prajwal 2010** held at CIAL Academy (A subsidiary of Cochin International Airport Limited) on 28th September, 2010.
- **Boney V. Joy, Felix Dickson, Aby Varghese and Ciby Varghese** of first semester MBA (2010-12) won **third prize** in Treasure Hunt in **SAMASYA'10** held at Mar Baselios Christian College of Engineering & Technology, Kuttikanam during 2nd to 3rd October, 2010.
- **Aby Varghese, Ciby Varghese, Roshin Reji Joseph, Boney V. Joy** and other students of first semester MBA (2010-12) won **second prize** in Marketing Game and **First prize** in Corporate Walk in **TanTra'10** held at Mar Athanasios College, Tiruvalla.
- **Aby Varghese, Ciby Varghese, Roshin Reji Joseph and Boney V. Joy** of first semester MBA (2010-12) won **first prize** in Destination Marketing. **Arun S. and Harikrishnan K.G** of first semester MBA (2010-12) won **second prize** in Tourism Quiz in **Xenios'10** held at Marian College Kuttikanam during 23rd and 24th November, 2010.
- **Ajo Mathew, Josemon Joseph, Tom Luckose** of S7 CSE and **Aby Jose Ebrahim** of S5 CSE won the **First prize** in the Collaborative Jamming contest conducted by IBM.
- **Mr. Eaby Shaji** of S7 EEE won the **Second prize** in the Paper Presentation Contest of IEEE all Kerala Students Congress held on 4th September, 2010 at Vimal Jyothi Engineering College of Engineering & Technology, Chempery, Kannur.
- **Aby Varghese, Ciby Varghese, Roshin Reji Joseph and Boney V. Joy** of first semester MBA (2010-12) won first prize in Marketing Game. Rosmi Joseph, Rani Manuel and Shabnam Jose won **second prize** in Environmental Game in **Berchnova Pravega'10** held at SB College Changanachery during 19th to 20th November, 2010.
- Mr. Savio Joe Puttanickal, S8 AEI won the Second prize in the Paper Presentation Contest, All Kerala Students Congress, IEEE Annual Conference on **Design & Simulation of a custom algorithm PID Controller using LAB View** held in September, 2010.
- Mr. Vinil T.C., & Mr. Vishnuprasad R., S8 AEI, secured the IInd place for paper presentation at NAKSHATRA intercollegiate event, at SAINTGITS, Pathamuttam for the paper **Optimization of GOD Enzyme Layer Amperometric Biosensor through Lab VIEW Based Auto ranging and Gain Compensation** held in November, 2010.
- Mr. Savio Joe Puttanickal, S8 AEI, secured the IIIrd place for intercollegiate paper presentation contest at Saintgits College of Engineering, Pathamuttam for the paper **Fuzzy logic control of a DC motor**, held in November, 2010.
- Mr. Dixon Dominic Palett & Mr. Thomas Siby, S6 AEI, were the winners of the World IEEE Day **Photography Contest** held in January, 2011.
- Mr. Renin Alex Wilson secured the **Third Place** in the

Prizes and Awards won by Students

University **Badminton competition** held at M. G. University in October, 2010.

- Mr. Jobin Daniel of S7 ME received **Best Student Award** of ISTE.
- Mr. Alen Jose of S7 ME got **first prize** in **Techrace-2010**, (a technical festival conducted by Younis college of Engineering, Kollam).
- Mr. Arun James Sebastian of S7 ME secured **second prize** in **Mechnius**, (a technical festival conducted by Saintgits college of Engineering, Kottayam).
- Mr. Allen Jose and Mr. Preeth Tom secured **second prize** in **Ultimate Engineer competition**, as a part of Machnius at Saintgits College Of Engineering, Kottayam.

IEEE Chapter

- Mr. Sabarinath G. (Asst. Professor, Dept. of ECE) received the **OUTSTANDING STUDENT BRANCH COUNCELOR AWARD, 2010** by the IEEE Kerala Section.



Mr. Sabarinath G.
(Asst. Professor,
Dept. of ECE)

TV Turnover

- The IEEE SJCET Student Branch kicked off its activities for the new academic year with the TV Turnover, co-ordinated by Jackson Jose (S6,EC)

Tech Talk

- The IEEE SB SJCET conducted a Tech Talk on NAVSTAR Global Positioning System handled by Mr. Sabarinath G. (Asst. Professor, Dept. of ECE).
- The IEEE SJCET SB conducted a Tech Talk and workshop on Python Programming. The hands on session was handled by Jomon John(S8,EC)

IEEE DAY Celebrations

- The IEEE SJCET Student Branch celebrated the IEEE DAY on 8th October, 2010 with full verve and gusto. A QUIZ CONTEST was held exclusively for the first year students. Joseph Sebastian of S1S2 E batch won the 1st prize. A photography competition was also held on the same day. The topic was GREEN ENGINEERING IN SJCET.
- Thomas Siby (S6 AEI) and Dixon Dominic (S6 AEI) won the IEEE MGA sponsored by World IEEE DAY Photo Contest in which 10 winners were selected worldwide. They won a cash prize of US\$ 900.

Student Council : 2010-2011



Sarath P. Satheesh
(S8 ECE)
Chairman



RESIN Achu Kuriakose
S8 EEE
Vice-Chairperson



Collin Britto
(S6 ME)
General Secretary



Sam Samuel
(S8 CS)
Sports Secretary



James Kurian
(S8 ME)
Arts Club Secretary



Jackson Jose
(S6 ECE)
Magazine Editor



Thomas Siby
(S6 AEI)



Dixon Dominic
(S6 AEI)

Reminiscence

LIFE AFTER COLLEGE

Being in the core field of engineering was the dream which made me an engineer. On my 3rd year in the college the economical conditions were so weak, that there were only very few companies who came for campus interview. When I passed out on 2009 I realized no one in our class had a clue on the question "what to do next?". Some of them headed for trainings, many including me went on writing public exams and some joined IT firms.



Mr. Joy
Menampampil
2005-'09 AEI Batch

I headed to Mumbai as part of my job hunt and got into a small firm which manufactures equipment for cement factories. I worked there for a year and shifted recently to an MNC.

I always admire the first company, as I learned a lot in that company. I realized the truth when I got into the MNC. Because I got the experience in all the fields of engineering from the small company and where as in MNC I'm dealing only with Process control- Hardware (A combination of Electrical and instrumentation).

For all the people who have problem in making decision I have a few suggestions.

Before you spend time on starting a career, analyze yourself and find whether your path is practically feasible. Because different people have different talents. And realizing this is very important. For example, people who are not so good at academics, instead of trying for an entrance test try some path can guide you to the same goal.

I would suggest you to join a company rather than doing training because if you are entering a firm where the things which you have learned is not used then it will be a waste of time.

All the things you learned are not applied directly but you will have a use of each thing you have learned at some part of your career.

As the number of openings available in Kerala is less it would be easier to start your career at places like Maharashtra and Gujarat where the industrial growth is more.

Entry level pay in core fields will be less comparative to IT firms but once you learn you can find a career where you can relax and enjoy.

SARGASADHANA '10

SJCET School of Management conducted the fourth edition of National Level Management Conclave **Sargasadhana'10** during 3rd and 4th of November 2010. It was inaugurated by Mr. C. Balagopal, Managing Director, Terumo Penpol Ltd., Trivandrum on 3rd November, 2010. Eight Management events were organized with a common goal of learning, show-casing and challenging the present and future management concepts. More than 250 students from 18 colleges participated in the event. Mr. C. Balagopal gave an inspiring talk on **Ecosystem for Entrepreneurial growth**. SCMS Cochin won the overall championship. Prof. G. M. Tharakan, HOD, School of Management, distributed prizes in the valedictory function.

Swathanthra

Swathanthra

Software freedom activist and founder of the GNU Project **Richard Mathew Stallman** delivered a lecture on **Free Software and your Freedom** at the St. Joseph's College of Engineering and Technology (SJCET), Pala, on 9th September, 2010.

The talk is to campaign for freedom so that computer users can control their own computing activities.

Richard Mathew Stallman is a software developer and software freedom activist. Stallman had launched the Free Software Movement in 1983 and in October, 1985, he had founded the **Free Software Foundation (FSF)**. Mr. Stallman also inaugurated the Free Software Users Group 'Swathanthra' at 10:30 a.m. on the same day. Swathanthra was initiated by the students of St. Joseph's College of Engineering and Technology. It sprang up from the efforts of few pioneering students and has currently, enveloped the whole college with a lot of students-level activities. The group focuses on issues related to advocating, promoting and supporting the cause of Free Software, sharing free software resources and also free software development. Their activities include seminars, meetings, workshops and campaigns to promote awareness of free software among the students and public. A talk by C-DAC on their GNU/Linux distribution system BOSS (Bharat Operating System Solutions) kicked off proceedings in the afternoon session. It was followed by a session by V. Sasikumar, Member, Board of Directors, FSF. The event also exhibited stalls by various organizations and companies using Free Software.



H.E. Mar Joseph Kallarangattu during Swathanthra



A scene from Sargasadhana 2010

The alumni of the college are requested to send details of their experience in the workplace for publication in the Newsletter.

Email : sjectnewsletter@gmail.com

News from Departments (contd.....)

Electronics & Communication Engineering

The first ever student-initiated technical cell in the history of SJ CET, E-Corner, was started by the students of 2008-12 ECE batch under the guidance of Mr. Deepu Baby, lecturer in ECE Department and was formally inaugurated by Dr. K. Batri, HOD, ECE Department, on 4th August, 2010. The cell conducted various technical activities in the course of the semester, including a class on PCB Manufacturing using various technologies, interactive sessions to develop soft skills etc. A five-day training programme on Basic Telecom Technologies was also organized by E-Corner at BSNL RTTC, Thiruvananthapuram.



55 ECE students at BSNL RTTC, Thiruvananthapuram

MCA NEWS

- **Teacher's Day Celebrations** were conducted by the 2nd semester MCA students on 4th September, 2010. On this occasion, Head Of the Department, Prof. Rajesh Kumar V .T delivered a message to the students regarding teacher's day. Students wished all the faculty members and the session included sharing of teaching experience.
- The 2010-Batch MCA students were welcomed to the MCA community, by the 2nd Semester MCA batch on the **FRESHERS DAY CELEBRATION** on 8th September, 2010. Prof. Rajesh Kumar in his introductory speech spoke, about the relevance of the occasion. The programme included various games, activities and introduction by the freshers.
- **An Orientation Cum Carrier Guidance Programme** was organized for the 1st year 2010 batch students by the placement cell on 14th and 15th September, 2010. The programme was coordinated by Mr. Pradeep Gopi and supported by Mr. Sachin from Thousand Dreams School.
- **Personality Development Programme** (6 Days) was conducted for 2010 Admission Batch MCA students, from 26th November to 2nd December, 2010 by Mr. Thomas George K., Turning Point.
- 20 students and 4 staff members from the Dept. of Computer Science and Applications participated in the **India ICT Summit**, held at hotel Le-Meridian, Cochin on 14th and 15th December, 2010, conducted by Confederation of Indian Industry (CII) on the theme "Changing Role of Indian IT Industry - Partnering for Transformation".
- MCA students and staff members participated in International Conference on **ENVIRONMENTAL MANAGEMENT** with the theme "Green managers for future" on 6th January, 2011.

SJCETians in Action

RANK HOLDERS



Chinchu Varghese
AEI - I Rank



Rosna Joseph
AEI - Rank III



SJCET Onam Celebrations - August 2010



A session during VITANOVA-2010, conducted by JY units of SJCET



Personality Development Programme for MCA students in progress

SJCETians in Action



SJCET Team with the overall trophy for AZURE 2010

NSS Technical Wing Activities

- The NSS unit of SJCET started its activities for the academic year 2010-11 with a PHOTO EXHIBITION of activities conducted during the previous year (2009-10).
- Mr. Babu Sanker, Asst. Prof. in ME is the programme officer of the unit. Mr. Abhilash K.S. (S8 ME) and Ms. Neethu S. (S8 EC B) were elected as new volunteer secretaries.
- As the part of Gandhi Jayanthi celebrations, the NSS volunteers took up a cleaning programme. The premises of K.S.R.T.C. bus stand was cleaned.
- The seven-day special camping programme was conducted from 24th to 30th December, 2010 at GOVT. L.P.S. Edappady. Several personality development classes and social service activities were conducted. The camp was inaugurated by Mrs. Treesa Cheriyan, President, Bharananganam Panchayath. A blood test was arranged for the first year B.Tech, MBA and MCA students of the college.
- The first aid training programme organized by Indian Institute of Emergency Medical Service was arranged for N.S.S. volunteers.



A Scene from Seven Day Camp

Do you love yourself?

Ask this question earnestly to yourself. I should say, many of you do not. Because, if you love yourself, you will never allow something to go wrong with you. Failure to perform well in examinations, getting addicted to some bad habits, anger, worries, tension and all life style diseases at a later stage in your life are all because you do not love yourself.

So start loving yourself first and then you will do everything to keep you healthy and successful.

(Courtesy: Dr. S.P. Subramanian, Principal, VAST, Trichur).

Poetry Bits

If you wish in this world to advance
Your merits you're bound to advance;
You must stir it and stomp it,
And blow your own trumpet
Or, trust me, you haven't a chance.

.... W.S. Gilbert

ISTE

The ISTE Student Chapter of SJCET conducted a TECHNICAL DEBATE COMPETITION on 24th September, 2010. The preliminary round of the event was conducted on 17th September, 2010, in which about 60 students participated and 8 students were selected as finalists. In the final round, the topic for the competition was **Indian Education is better than Western Education**. Sachin Joshy and Joyal John Peter of S₁S₂ bagged up the first prize.



ISTE Technical Debate competition in Progress



JOBIN DANIEL JOHN
(S8 ME)
Best Student Award of ISTE
Kerala Section, 2010.

Health Hints

Sugaring a little wound

You have nasty cut and you're out of antiseptic cream. Simple solution: Pack the wound with sugar or honey. Microorganisms can't survive in concentrated solutions of sugar. This healing technique has been used for centuries.