



## 2ND INTERNATIONAL CONFERENCE

ON

### ELECTRONIC SYSTEMS, SIGNAL PROCESSING AND COMPUTING TECHNOLOGIES (ICESC- 2018)

7 – 8 DECEMBER 2018

2<sup>nd</sup> International Conference on Electronic Systems, Signal Processing and Computing Technologies (ICESC- 2018) organized by Department of Electronics Engineering, Shri Ramdeobaba College of Engineering and Management, Nagpur has been inaugurated. The conference is organised in association with University of the District of Columbia, Washington, DC, USA and Tata Consultancy Services (TCS) & Vigyan Bharati (VIBHA) as knowledge partner on 7 & 8 th December 2018.

ISESC-2018 has been inaugurated on 7th December 2018 at Chitnavis Centre, Civil lines, Nagpur at the hands of Chief guest Shri. M. V. Dhekane, Former Director, ISRO Inertial Systems Unit “Satish Dhawan Professor” IIST, Thiruvananthapuram. Mr. Hemchandran S, Deputy Director, ISRO Inertial System Unit, Thiruvananthapuram was guest of honor. Shri ChandrakantbhaiThakar, Vice Chairman, RCOEM presided over the function, Shri Govindlal Agarwal, General Secretary, RCOEM, Shri Rajendra Purohit, Secretary, RCOEM, Dr. R. S. Pande, Principal and General Chair, Dr.(Mrs.) A. A. Khurshid and Dr. (Mrs.) M. A. Hasamnis Conference Chair were prominently present.

At the outset ICSEC 2018 has been inaugurated by lighting the traditional lamp. The founder chairman of RCOEM and Hon’ble Governor of Tamil Nadu Shri Banwarilal Purohit expressed his best wishes to the conference through his message that was read by Dr.(Mrs.) A. A. Khurshid. The address sent by Dr.Devdas Shetty, Dean, School of Engineering and Applied Science, University of the District of Columbia, Washington, DC, USA was read by Dr. (Mrs.) M. A. Hasamnis.

Dr. R. S. Pande, Principal, RCOEM and General Chair ICESC 2018 in his introductory remarks highlighted the various sessions, plenary talks and deliberations to be held during the two days conference. The conference delegates are from research organizations, academic institutions in India and abroad and industry personnel. The tracks for the Conference are: Communication System and Signal Processing, Intelligent Systems for Smart Computing, Embedded System Design, Analog /Mixed circuits and system, Micro/ Nano system. The acceptance rate of the

papers for oral presentation is 42%. All registered and presented papers are published in HELIX International Journal indexed in Web of Science.

In his presidential address Shri Chandrakantbhai Thakar spoke about the evolution of communication technology from ancient era to modern world. He urged delegates and researchers to work for society and to use their research work for the benefit of common man.

The inaugural function was compared by Prof. Snehal Laddha. Dr. (Mrs.) A. A. Khurshid proposed vote of thanks.



**Keynote:** In his keynote address Shri. M. V. Dhekane Former Director, ISRO Inertial System Unit “Satish Dhawan Professor” IIST, Thiruvananthapuram said Space Transportation system development is a complex multidisciplinary multi objective task. This requires in depth understanding of almost all branches of science and engineering. He spoke on various aspects like Aerodynamics, propulsion technology, structural engineering, Avionics, Computer science, Material science, manufacturing processes, Integration, testing and reliability engineering as important areas in which electronics system and signal processing is frequently used. He shared his experience of multiple launch vehicles-PSLV, GSLV, RLV and MKIII development by ISRO. He also highlighted the need of research to cater the needs of placing the satellites in the near Earth as well as Planetary missions. He discussed the Chndrayaan 2 mission of ISRO in his keynote address.



**Plenary Talk 1:** Shri Hemachandran S Deputy Director, ISRO Inertial System Unit (IISU), Thiruvananthapuram delivered plenary talk on Space Technology in Navigation. He emphasized the Applications on Global Navigation Satellite System (GPS, GLONASS, GALIEO, COMPASS). He also informed about the NavIC spacecraft dedicated for navigation services configured to be of a class that can be launched by the PSLV launcher.



**Plenary Talk 2:** Dr. Amit Acharyya Associate Professor Department of Electrical Engineering IIT-Hyderabad delivered plenary talk. The focus was on resource-constrained VLSI systems design using signal processing algorithm-architecture holistic approach and the targeted application is healthcare technology. Several digital arithmetic techniques would be discussed that would enable the advancement in the state-of-the-art technologies. This will also be put in

the context of the design and development of next generation pervasive health-monitoring systems for the remote healthcare specially to tackle cardiovascular diseases.



**Plenary Talk 3:** Jih-Sheng (Jason) Lai, James S. Tucker Chair Professor, Virginia Polytechnic Institute and State University, Virginia, USA delivered plenary session on Future Energy Electronics Center (FEEC) Introduction and Google Little Box Challenge Experience. In his talk Jih-Sheng discussed on the figure of merit of WBG devices silicon carbide (SiC) and gallium nitride (GaN) and their selections. A summary review goes to how the teams select inverter circuit topologies, pulse width modulation techniques, double line frequency suppression, design of harmonic and EMI filters, and packaging techniques. The conference aims to make the academic and scientific fraternity indulge in high end research and discuss on the innovative and intelligent design of engineering products, processes, mechanisms and other advanced systems in the field of Engineering and Technology. The conference provides opportunities for the delegates to exchange new ideas and applications, establish research relations and to find global partners for future collaboration. ICESC-2018 will include technical paper sessions, keynote and plenary talks by eminent researchers from around the world.



Conference organising committee members Dr. J. P. Kalambe, Dr. R. R. Khandelwal, Dr. R. S. Ochawar, Dr. N. P. Narkhede, Dr. P. A. Dwarnmwar and Dr. S. S. Balpande took pains for the success of ICESC-2018 as informed by Conference chairs Dr. (Mrs.) A.A.Khurshid and Dr. (Mrs.) M.A.Hasamnis.

## 'Space Transportation needs deep understanding of Science, Engg'

■ M V Dhekane, Former Director, Indian Space Research Organisation (ISRO) Inertial System Unit inaugurates 2nd International Conference ICESC-2018 at RCOEM

■ Staff Reporter

TALKING about Space Transportation System Development, M V Dhekane, Former Director, Indian Space Research Organisation (ISRO) Inertial System Unit 'Satish Dhawan Professor' IIST, Thiruvananthapuram said, "Space Transportation system development is a complex multidisciplinary multiobjective task. This requires in depth understanding of almost all branches of science and engineering."

Prof Dhekane was speaking during the inauguration of 2nd two-days International Conference on Electronic Systems, Signal Processing and Computing Technologies (ICESC-2018) organised by Department of Electronics Engineering, Shri Ramdeobaba College of Engineering and Management at Chitnavis Centre on Friday. Prof



M V Dhekane, Hemchandran S, Chandrakantbhai Thakar, Govindlal Agrawal, Rajendra Purohit, Dr R S Pande, Dr A A Khurshid, Dr M A Hasamnis releasing ICESC-2018 booklet during the conference.

Dhekane was chief guest. The conference is being organised in association with University of the District of Columbia, Washington, DC, USA; Tata Consultancy Services (TCS) and Vigyan Bharati (VIBHA) as knowledge partners. Hemchandran S, Deputy Director, ISRO Inertial System Unit, Thiruvananthapuram was guest of honour. Chandrakantbhai Thakar, Vice Chairman, RCOEM presided over the function. Govindlal Agrawal, General Secretary, RCOEM; Rajendra Purohit, Secretary, RCOEM; Dr R S Pande, Principal and General Chair; Dr A A Khurshid and Dr M A Hasamnis, Conference Chair were prominent seated on the dais.



Dr Amit Acharyya      Hemchandran S      Jih-Sheng (Jason) Lai      M V Dhekane

Prof Dhekane spoke on various aspects like Aerodynamics, propulsion technology, structural engineering, Avionics, Computer science, Material science, manufacturing processes, integration, testing and reliability engineering as important areas in which electronics system and signal processing is frequently used. He shared his experience of multiple launch vehicles-PSLV, GSLV, RLV and MKIII development by ISRO. Prof Dhekane also highlighted the need of research to cater the needs of placing the satellites in near Earth as well as Planetary missions. He discussed the Chandrayaan 2 mission of ISRO in his keynote address.

Founder Chairman of RCOEM and Governor of Tamil Nadu Banwarilal Purohit wished the conference all the best through message that was read by Dr A A Khurshid. The address sent by Dr Devdas Shetty, Dean, School of Engineering and Applied Science, University of the District of Columbia, Washington, DC, USA was read by Dr M A Hasamnis.

Chandrakantbhai Thakar spoke about the evolution of communication technology from ancient era to modern world. He urged delegates and researchers to work for society and to use their research work for the benefit of common man.

Dr R S Pande, Principal, RCOEM and General Chair ICESC 2018 in his introductory remarks highlighted various sessions, plenary talks and deliberations to be held during the two days conference. The conference delegates are from research organizations, academic institutions in India and abroad and industry personnel. The tracks for the conference are: Communication System and Signal Processing, Intelligent Systems for Smart Computing, Embedded System Design, Analog / Mixed circuits and system, Micro / Nano system. The acceptance rate of the papers for oral presentation is 42%. All registered and presented papers are published in HELIX International Journal indexed in Web of Science.

Kailashchand Agrawal, Secretary, RCOEM and the Executive Members of RCOEM Devendra Shahu and Dr Purushottam Paidwal along with Vishram Jamdar, Chairman, Board of Governors, Visvesvaraya National Institute of Technology (VNIT) were prominent among those present.

The inaugural function was compered by Prof. Snehal Laddha while Dr A A Khurshid proposed a vote of thanks.

Hemachandran S delivered plenary talk on Space Technology in Navigation. Dr Amit Acharyya, Associate Professor, Department of Electrical Engineering, Indian Institute of Technology (IIT)-Hyderabad delivered second plenary talk.

Jih-Sheng (Jason) Lai, James S. Tucker, Chair Professor, Virginia Polytechnic Institute and State University, Virginia, USA delivered plenary session on Future Energy Electronics Center (FEEC) Introduction and Google Little Box Challenge Experience.

Conference organising committee members Dr J P Kalambe, Dr R R Khandelwal, Dr R S Ochawar, Dr N P Narkhede, Dr P A Dwarnmwar and Dr S S Balpande took pains for the success of ICESC-2018.

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### Today's sessions

THE 2nd International Conference on Electronic Systems, Signal Processing and Computing Technologies (ICESC-2018) being organised by Department of Electronics Engineering, Shri Ramdeobaba College of Engineering and Management will continue on Saturday at RCOEM campus.

Dr Maryam S Baghini, Professor, Department of Electrical Engineering, IIT, Bombay will speak on 'Wearable Devices for Healthcare'. The session will be held between 10 am and 11 am.

Pranav Chauhan, Project Manager, TCS will deliver address on 'IOT and Machine Learning' between 11.15 am and 11.45 am. Prasad Pendharkar, Project Manager, TCS, Nagpur will speak on 'IIOT and Cyber Security' between 11.45 am and 12.15 pm.

Dr Rajendra M Patrikar, Professor, VLSI and Nanotechnology Centre, VNIT, Nagpur will address the gathering on 'MEMS and IOT' between 12.15 pm and 1.15 pm.



Dr Maryam S Baghini      Pranav Chauhan      Prasad Pendharkar      Dr Rajendra M Patrikar