

## ERCICA-2016 Dignitaries for Inauguration Function

**“CHIEF GUEST”- Sri. BASAVARAJ RAYAREDDI**, Hon'ble Minister for Higher Education, Govt.of Karnataka, Chairman, Karnataka State Higher Education Council.



**Sri.BASAVARAJ RAYAREDDI**, was born on 6th September 1956, is married to Smt.Asha Rayareddi and is blessed with one daughter Kum.Mamta Rayareddi. He has completed his B.A., L.L.B., [Spl][Bachelor of Arts and Bachelor of Law, Spl]

He has to his credit various Social/Political Activities:

◆ 1972-81 - During College days he actively participated in the Students Union activities. Twice elected as General Secretary of Students Union, Karnataka College and University of Law College, Dharwad, Karnataka State. During the tenure, he actively participated in the Students movement for social justice and peoples' movement for the upliftment of weaker section of the community.

◆ During 1977 he joined National Students Union of India and became the Vice-President of the Karnataka State Unit.

◆ During 1983 he joined Karnataka Kranthi Ranga political party and became State General Secretary and participated in the General Elections.

◆ During 1984 he became General Secretary of Janatha Party and actively participated in Rural Development & Panchayat Raj activities for the upliftment of downtrodden.

◆ In 1985 he contested for election to the Legislative Assembly of Karnataka Province and got elected as Member of Legislative Assembly, Karnataka State.

◆ In 1989 he contested for second time to the Legislative Assembly election and got elected as a Member of Legislative Assembly, Karnataka State and appointed as Chief Whip of the opposition party.

◆ During 1993 he became General Secretary of Janatha Party and assumed the responsibility of the development of the party activities in Northern Karnataka.

◆ In 1994 he contested for Assembly Elections and got elected for the successive 3rd time as Member of Legislative Assembly, Karnataka State and elevated as a Minister for Housing and Urban Development Authorities, Karnataka State.

◆ In 1996 he contested for Parliament [House of Commons] Election and elected as Member of Parliament, Loksabha to Indian Sovereignty.

- ◆ During the tenure, he served in various committees of Parliament Viz., Rural & Urban Development Committee, Estimate Committee on Parliament, Railway Consultative Committee etc.
- ◆ In 1998 he was appointed as a Special Representative of Karnataka in the Cabinet Rank Minister status at New Delhi for the coordination between Karnataka State and Union Govt. of India.
- ◆ In 1999 he contested for Parliament [House of Commons] Election, from Koppal Constituency of Karnataka State.
- ◆ In 2000 he was appointed as the Secretary General of Janatha Dal United Party of the Karnataka State.
- ◆ Appointed as the Board of Director, Alliance Airlines, owned by Indian Airlines.
  - In 2004 joined Indian National Congress and contested for Legislative Assembly Elections from Yelburga Constituency and got elected as Member of Legislative Assembly.
  - In 2005-06 served as Chairman, Public Accounts Committee, Karnataka Legislative Assembly.
  - In 2007 appointed as the General Secretary, Karnataka Pradesh Congress Committee and AICC Member.
  - In 2013-Elected as M.L.A, for the 5<sup>th</sup> time from Yelburga Assembly Constituency, Koppal District.

Shri.Basavaraj Rayareddi is interested in Rural Development, providing civic Amenities to rural poor, better education, housing, adopting modern Agricultural Methods, providing better sanitation and drinking water facilities, impart poverty Elevation programme, community development etc.

Shri. Basavaraj Rayareddi has visited various places-In 1987 visited Israel on invitation by Labour Organization to study Community Development. In 1994, Visited United States of America as an International Visitor and participated in the programme of Gross Route Democracy. Visited United Kingdom, France, Egypt, U.S.A., Hong Kong, South Korea, Japan, Philippine, Singapore, Malaysia, Thailand, U.A.E., Germany, China, Italy, Netherlands, Australia, South Africa, Austria, Belgium, Switzerland & other countries to know social and cultural activities of those countries.

**“GUEST OF HONOUR” - Prof. V.B.Coutinho, Former Vice-Chancellor, Gulbarga University, Gulbarga.**



**Professor V.B.Coutinho**, born on 15<sup>th</sup> December, 1943, completed his school education from St. Paul's High School, Belgaum, Karnataka State. He completed his higher education in B.Sc (Chemistry and Physics) from Art and Science College,, Karwar. L.L.B (First Batch of III year course) from R.L.Law College, Belgaum. He completed his L.L.M and Ph.d from P.G.Department of Law, Karnataka University, Dharwad.

He held various Posts as Prof. and Head, Department of Law, Principal, University Law College,, Dean -Faculty of Law for more than 25years at Bangalore University, Bangalore. Additionally he held the position of Controller of Examinations and Registrar of Bangalore University. He was elevated and appointed as Vice-Chancellor of Gulbarga University and worked as such from 2002 to 2006. He has various recognitions to his credit; He was invited to be the first Director of Legal Studies. Directorate of Legal Education in the Bar Council of India to advice and monitor legal education involving nearly 900 centers of legal education in India, with effect from 4<sup>th</sup> January 2010.

He has teaching experience as Lecturer at R.L.Law College, Belgaum, Lecturer at University College of Law, Dharwad, Lecturer-P.G. Department of Law, Karnataka University, Reader-P.G. Department of Law, Karnataka University, Professor of Law, Bangalore University from 1982 to 2002 until taking charge as **Vice-Chancellor**.

Professor.V.B.Coutinho completed Ph.d in Labour Law on the Topic:”**Strikes in Industrial Conflict-A Critical and Comparative Study**”. He guided eight Ph.d scholars who successfully completed the Programme. He completed U.G.C Major Project on “**Environmental Law**” He successfully completed B.A.R.C Major Project on “**Civil Liability for Nuclear Damage**”, the report submitted happily led to the passing of the “**Civil Liability for Nuclear Damage Act-2010**”. The Study and Research led him to London, Paris, Amsterdam, Vienna, Newyork and Washington.

He was appointed **Parson's Fellow** at University of Sydney Law School, Sydney, Australia for teaching and research. He was invited to deliver lecture on’ **Federal –State Relationships in Environmental Management –A country study –India**” at the Institute of Strategic Studies, Kuala Lumpur, Malaysia.

He was appointed as **Member, Commission of Enquiry into Working of Cochin University – Kerala** by Governor / Chancellor of the State, was appointed as **Member of the Knowledge Commission** by Karnataka State, was the **Chairman –State Level Statutes and Regulations Committee** appointed by the Governor/Chancellor of Karnataka State, **Chairman of the Committee to Suggest Reforms in Collegiate Education Department** of Karnataka State. He has to his credit the highest honor “**Rajyotsava Award for Education-2008**” by the Government of Karnataka for service rendered in the field of education. He is presently the **Member, University Review Commission appointed by the Governor of Karnataka and Chancellor of Universities**.

## Dr. Rajesh Kavasseri - Key Note Speaker ERCICA-2016



**Dr. Kavasseri** is an Associate Professor and Graduate Program Director in the Department of Electrical Engineering and Computer Engineering at North Dakota State University (NDSU).

Dr. Kavasseri received his BS from the Visvesvaraya National Institute of Technology, Nagpur, India in 1995, his M.S. from the Indian Institute of Science (IISc), Bangalore, India in 1998 and PhD from Washington State University, Pullman in 2002, all in Electrical Engineering. He worked briefly for a year (1995-1996) in the research and development wing for General Electric Company/ALSTHOM in Bangalore. He received the Gold Medal for the Best Masters thesis from IISc in 1998. Soon after his PhD, he joined NDSU and has been a faculty member there since 2002.

His primary research expertise is in bulk power system dynamics, power systems computation, stability and control, and the operation of renewable energy-interfaced medium voltage distribution systems. His secondary research interests include nonlinear dynamics and time-series analysis. His recent work includes the theory of cyber-physical systems (CPS), cybersecurity in energy management systems and integration of renewable energy resources into microgrids.

Dr. Kavasseri's research has won several prestigious awards from the U.S. National Science Foundation (NSF). His recent research has been recognized as "Breakthrough" by the NSF and investigates the prospects for resilient protection for the electric grid where computation and control play a fundamental role. He has served on several panels for the NSF and is currently serving as an evaluator for engineering research centers funded by the NSF. He co-chaired the IEEE R4 EIT conference in 2013 and is currently the Chair for the 2018 North American Power Symposium to be held at NDSU. He has over 50 publications in journals and conferences. He is an Associate Editor for the IEEE Transactions on Sustainable Energy and is a senior member of the IEEE.

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## Prof. L.M. Patnaik - Distinguished Speaker ERCICA-2016



**Prof. L.M. Patnaik** obtained his Ph.D in 1978 in the area of Real-Time Systems, D.Sc. in 1989 in the areas of Computer Systems and Architectures, both from the Indian Institute of Science, Bangalore. During March 2008 – August 2011, he was the Vice Chancellor, Defence Institute of Advanced Technology, Deemed University, Pune. Currently he is an Honorary Professor with the Department of Electronic Systems Engineering, Indian Institute of Science, Bangalore, and INSA Senior Scientist and Adjunct Professor with the National Institute of Advanced Studies, Bangalore. Prior to this he was a Professor with the Department of Computer Science and Automation at the Indian Institute of Science, Bangalore. During the last 40 years of his long service at the Indian Institute of Science, his teaching, research, and development interests have been in the areas of Parallel and Distributed Computing, Computer Architecture, CAD of VLSI Systems, Theoretical Computer Science, Real-Time Systems, Soft Computing, and Computational Neuroscience. In these areas, he has published over 1000 papers in refereed International Journals and refereed International Conference Proceedings and has authored 29 technical reports. He is a co-editor/co-author of twenty one books and has authored 12 chapters in other books in the areas of VLSI System Design and Parallel Computing. He has supervised over 30 Doctoral theses and over 160 Masters' theses in the above areas. In the areas of Parallel and Distributed Computing, and Soft Computing, he has been a Principal Investigator for a large number of Government-sponsored research projects and a Consultant to a few industries. One of his research papers in the area of adaptive genetic algorithms has been cited over 2300 times by Google Scholar.

He has served as the President of the Advanced Computing and Communications Society, and the Computational Intelligence Society of India. He is a Distinguished Lecturer of the IEEE Region 10. He is a Distinguished Visitor of the IEEE Computer Society for the Asia-Pacific Region. As a recognition of his contributions in the areas of Electronics, Informatics, Telematics and Automation, he was awarded the Dr. Vikram Sarabhai Research Award in 1989; the Honorable Mention Award, Fourth CSI/IEEE International Symposium on VLSI Design, 1992; the Dr. Ramlal Wadhwa award for the year 1992 by the Institution of Electronics and Telecommunication Engineers, for his contributions during the last ten years in the fields of Electronics and Telecommunication; the Platinum Jubilee Lecture Award (Computer Science), Indian Science Congress, in 1994; the Samanta Chandrasekhar Award for the year 1994 by the Orissa Science Academy; the Certificate of Appreciation "For excellent service and dedication

to the objectives of the IEEE Computer Society as a Distinguished Visitor", in 1995; the VASVIK Award in the Field of Electronic Sciences and Technology, Vividhlaxi Audyogik Samshodhan Vikas Kendra, 1996; the Hands for Indian IT Award for his contributions to the Indian IT (Information Technology) industry, in 1998; the "Distinguished Professional Engineer Award" by the Computer Engineering Division of the Institution of Engineers (India), in 1999; the IEEE Computer Society's "1999 Technical Achievement Award" for his contributions in the field of parallel, distributed, and soft computing, and high performance genetic algorithms; the Fourth Sir C V Raman Memorial Lecture Award in 2000; the First SVC Aiyra Memorial Trust Award for Telecommunication Education, The Institution of Electronics and Telecommunication Engineers, Pune Centre, 2000; the Pandit Jawaharlal Nehru National Award for Engineering and Technology, in 1999; the Om Prakash Bhasin Award for contributions in the areas of Electronic and Information Technology for the year 2001; the FICCI Award for Innovation in Material Science, Applied Research and Space Science, 2001-2002; the IEEE Computer Society's Meritorious Service Award, 2002; Alumni Award for Excellence in Research for Engineering, the

Indian Institute of Science, 2003, Distinguished Engineer Award of The Institution of Engineers(India), 2004; Goyal Prize for Applied Science, 2005; Honorary Fellow, the Indian Society for Technical Education, 2006; Indian Science Congress Association's Srinivasa Ramanujan Birth Centenary Award, 2007-2008; Biju Patnaik Award for Excellence in Science – 2007, in 2009; Top Management Consortium, Pune, 'Education – Defence Services Excellence Award – 2009', Mar 2010; Distinguished Alumnus Award, 2012, National Institute of Technology, Rourkela; Felicitation of International Neural Network Society India Chapter for outstanding contributions to Soft Computing, Dec 2014.

He is Fellow of the IEEE, and the World Academy of Sciences (TWAS), Trieste, Italy, The Computer Society of India, Indian National Science Academy, Indian Academy of Sciences, National Academy of Sciences, and Indian National Academy of Engineering. He is a Life Member of the VLSI Society of India, and Instrument Society of India, a founder Member of the Executive Committee of the Association for the Advancement of Fault-Tolerant and Autonomous Systems; a Fellow of the Institution of Electronics and Telecommunications Engineers, and the Institution of Engineers. His name appears in Asia's Who's Who of Men and Women of Achievement; Directory of Distinguished Computer Professionals of India. For over one hundred and fifty International Conferences, he has served as General Chair or Program Chair or Steering Committee Chair; most of them sponsored by the Institute of Electrical and Electronics Engineers (IEEE). He has served on several significant committees of leading professional societies such as the IEEE, CSI, IETE and Institution of Engineers; review and policy committees of Government agencies such on the DST, DBT, MHRD, CSIR, DOS, UGC, AICTE, DRDO, DIT and UPSC. His participation in the reviews of several Engg Colleges in the states of Karnataka, Kerala, Andhra Pradesh, and Maharastra, organized by the

AICTE, UGC, NBA, and TEQIP has significantly improved the quality of technical education in the country.

[As Vice Chancellor of the Defence Institute of Advanced Technology, Deemed University, he was responsible for conducting large number of Doctoral, Masters', short and long courses, in the field of defence technologies for service officers from the Army, Air Force, Navy; DRDO scientists, officers from Indian Ordnance Factories and Director General of Quality Assurance, and service officers from several friendly foreign countries. He had initiated three new Post Graduate Programmes of relevance to defence services including one on Cybersecurity, a new Centre on Nanotechnology for defence applications, and a collaborative programme with the Naval Post-Graduate School, California, USA.

He has delivered several Invited lectures in USA, Canada, France, UK, Yugoslavia (erstwhile), Hungary, Switzerland, Australia, New Zealand, Hong Kong, Singapore, Malaysia, Sri Lanka and Japan.

It needs to be emphasized that his training, as well as the research work done by him are entirely indigenously based. His contributions to Indian higher technical education system are outstanding.

For publication and other details please visit,

<http://www.lmpatnaik.in/>

[http://www.diat.ac.in/index.php?option=com\\_content&view=article&id=156&%20Itemid=394](http://www.diat.ac.in/index.php?option=com_content&view=article&id=156&%20Itemid=394)

<http://www.cedt.iisc.ernet.in/people/lmp/lmp.html>

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## Prof. Kalidas Shetty - Distinguished Speaker-ERCICA-2016



### **Prof. Kalidas Shetty**

Founding Director of Global Institute of Food Security & International Agriculture (GIFSIA),  
Professor of Plant Science & Associate Vice President of International Partnerships &  
Collaborations,  
North Dakota State University, Fargo, USA

Dr. Shetty's research interests focus on the critical role of cellular and metabolic basis of oxygen biology for advancing new innovations in life sciences and especially agricultural and food innovations that advance global food security and health in a sustainable environment. This focus is contributing to very innovative advances in the areas of crops for health, post-harvest biology, nutraceuticals, functional foods and food antimicrobial strategies as critical innovations to advance food security in addition to malnutrition and hunger challenges. In particular, he has developed an innovative “crops for health” research platform to counter diet-linked chronic diseases. The rationale of this platform has relevance for managing malnutrition challenges from maternal to child health needs globally.

Dr. Shetty's current passion and commitment are to develop “sustainable and ecological basis for healthy food systems, food choices and global food security” based on local crop and food diversity, traditional food systems and effective food imports that incorporates understanding of comparative cellular biochemistry of plant and animal systems and their interactions with prokaryotes (bacterial systems). This approach has potential to transform global agriculture with healthy food systems and innovative rural development strategies that is systems based with sustainable long term solutions combined with better habitat and environment, sanitation and diversified bioenergy options.

In keeping with the above focus on new innovations to advance global food security on a “crops for health and sustainability” platform, Dr. Shetty is developing close collaborations between North Dakota State University and institutions in several regions of the world from Asia, Africa,

and Europe to the Americas. He has specific keen interest in integrating ICT technologies across Agriculture and Food Security domain to address global challenges.

### **Education**

- PhD 1989, Microbiology, University of Idaho, Moscow, ID
- MS 1985, Bacteriology, University of Idaho, Moscow, ID
- BS 1983, Agricultural Science, University of Agricultural Sciences, Bangalore, India

### **Professional Experience**

- 2013- present: Associate Vice President for International Partnerships and Collaborations, and Professor of Plant Sciences, North Dakota State University, Fargo, ND
- 2004-2012: Professor, Department of Food Science, University of Massachusetts, Amherst, MA
- 1999-2004: Associate Professor (tenured), Department of Food Science, University of Massachusetts, Amherst, MA
- 1993-1999: Assistant Professor, Department of Food Science, University of Massachusetts, Amherst, MA
- 1992-1993: Post-doctoral Scientist, Plant Biology, University of Guelph, Canada
- 1990-1991: Post-doctoral Scientist, Plant Cell and Molecular Biology, National Institute of Agrobiological Sciences, Tsukuba Science City, Japan
- 1989: Research Scientist, Biochemical Engineering, University of Idaho, Moscow, ID
- 1986-1988: Research Assistant, Plant Cell Physiology/Microbial Physiology, University of Idaho, Moscow, ID
- 1984-1985: Research Assistant, Microbial Physiology, University of Idaho, Moscow, ID

### **Research Interests**

- Metabolic biology of crops for functional foods and bioactives for climate resilience.
- Global food systems biology concepts to combat diet-linked chronic diseases and advancing food security strategies& integrating ICT technologies to advance solutions.
- Food diversity and indigenous food systems to combat diet-linked chronic diseases and advance global food security, including integrating ICT technologies.
- Environmental impact on chronic diseases & nutritional solutions using stress adapted crop food systems
- Metabolic biology of stress adaptation of crops for climate change & role of redox biology

### **Professional Affiliation**

- Institute of Food Technologists
- Asia Pacific Clinical Nutrition Society



- American Society of Microbiology
- American Chemical Society
- American Association for Advancement of Sciences

## President of the Function ERCICA-2016



### Professor N. R. Shetty

- Vice-President – Red Cross Society, Karnataka State
- Chairman- Karnataka State Universities Review Commission, Bangalore, Karnataka
- (Former Vice-Chancellor, Bangalore University & Former President-ISTE, New Delhi)
- Prof. N. R. Shetty had a brilliant academic career and obtained his B.Sc. (Honours) in Physics with Electronics as a special subject from Madras University, M.Sc. (Opto-Electronics) from University of Essex (U.K.) and Ph.D. from Dept. of Electrical Engineering of IIT Bombay. He has over thirty five years of teaching experience at Post Graduate Level and Research Experience in the areas of Microwave Engineering, Quantum and Opto Electronics, Solid State Physical Electronics, etc. He is currently the **Chairman, Karnataka State Universities Review Commission**, Government of Karnataka, Bangalore; **Chairman of Sir. M. Visveswariah Memorial Foundation**, Bangalore. He holds the positions of **Vice-President, Indian Red Cross Society**, Karnataka State; **Chairman, Project Advisory Committee, ISTE- Working Professionals Learning Project (AICTE Project)**, **Project Advisory Committee, Bangalore**; **Vice Chairman, Bharat Ratna Sir M. Visveswaraya National Training Facility for Skills for All Society (BMV NTFSA)**. He is also the **Performance Mentor & Auditor, World Bank TEQIP Project** at Indian School of Mines, Dhanbad; **National Institute of Technology, Kurukshetra, Malaviya**; **National Institute of Technology, Jaipur**; **MS University Tirunveli**; **VJTI, Mumbai**. Prof. N. R. Shetty is also the **Member of Board of Governors, PES College of Engineering, Mandya/ Sudarshan Engineering college, Tamilnadu/ R N Shetty Institute of Technology, Bangalore/ Mangalore Institute of Technology & Engineering, Mangalore etc.**, **Member High Power Advisory Committee, Adichunchanagiri University**.
- He had held various highly reputed positions of **Professor and Principal of Karnataka Regional Engineering College, Surathkal**; **Vice-Chancellor (two terms) of Bangalore**

- University, Member Secretary and Chief Executive, Indira Gandhi National Centre for the Arts, New Delhi; Founding Vice President, International Federation of Engineering Education Societies (IFEES), Washington DC, U S A; Chairman, One man Regulatory Committee appointed by Karnataka Govt. to oversee the admissions to Professional Colleges in Karnataka State. (2006-2009) etc. He was also the Member Executive Committee, AICTE (2000-2003), New Delhi; Member of the Standing Committee constituted by MHRD, Government of India for effective co-ordination between Industry & Technical Education for promotion of Vocational Education, training and skills development. (2009-2012).**
- He has a vast experience in Advanced Research, in the laboratories of University of Texas at Austin, USA in the area of Laser Technology as Visiting Professor and Fulbright Scholar in the Dept. of Electrical and Computer Engg. In the area of Lasers and Fibre optics in the Laboratories of: Essex University, Colchester, England (1968-69) as UNESCO Fellow. Standard Telecommunication Labs: **Harlow, England, (1968-69) as UNESCO Fellow. Microwave Engg. Laboratories of (a) Dept. of Electrical Engg. IIT, Bombay (1974-1976) (b) TIFR, Bombay (1974-1976).**
  - Prof. N.R. Shetty has published over thirty papers **in International/National Journals and edited ten proceedings which include proceedings of ISTE Winter/Summer Schools** for teachers in the areas of Microwave and Communication Engineering; Entrepreneurship Development / Awareness Camps, Workshops on Industry-Institute Interaction Programme, Action Plan for the Development of the College; Formulating Proposals for the setting up for a KREC Science and Technology Entrepreneurs' Park (STEP), etc.
  - He has also contributed immensely to the field of Art and Culture at the National / International Level.
  - He is the recipient of **Shiromani Vikas Award (1993), Bharat Vikas Award (1996), Bhargava Award (1997) and Bharat Ratna Sir M.V. National Parisara Ratna Award (1999).**