



Government of Karnataka

# **SECOND STATE LEVEL SCIENCE AND TECHNOLOGY CONFERENCE - 2011**

**THEME :  
INITIATIVES FOR HUMAN RESOURCE DEVELOPMENT  
IN SCIENCE & TECHNOLOGY**

## **PROGRAMME**

**Date:  
26 – 28 May, 2011**

**Venue:  
J. N. Tata Auditorium,  
Indian Institute of Science, Bangalore**

***Jointly Organised by:*  
Karnataka State Council for Science and Technology  
Vision Group on Science and Technology  
and  
Department of Science and Technology, Government of Karnataka**

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## BACKGROUND OF THE CONFERENCE

Science and Technology plays a very important role in socio-economic development, education, eradication of poverty and illiteracy, achieving industrial progress – all with the prime objective of bringing improvement in quality of life. It has been found that, by addressing issues related to resources, knowledge, skill and technology, through various Science and Technology interventions at local level, this objective can be achieved.

Karnataka State Council for Science and Technology (KSCST), a 34-year old autonomous organization, is working with this objective by taking science and technology to the rural population through various S&T inventions. Over last three decades, KSCST has translated a number of projects from research and demonstration phase to implementation and operational phase.

Vision Group on Science and Technology (VGST) is an advisory body of Department of Science and Technology (DST), Government of Karnataka, to recommend Science and Technology Programmes relevant to mandate of DST, with the objective of encouraging and promoting Science and Technology education and research in the state. VGST plays a vital role in strengthening educational institutions to meet the scientific and the technological needs. Prof. C. N. R. Rao is the President of VGST.

KSCST, VGST and DST, Government of Karnataka, are jointly organising a three-day Second State Level Science and Technology Conference on **“Initiatives for Human Resource Development in Science & Technology”** during 26<sup>th</sup> May 2011 to 28<sup>th</sup> May 2011 at J.N.Tata Auditorium, Indian Institute of Science, Bangalore. Last year, the Council, jointly with these

partners, had organized First State Level Science and Technology Conference on theme “**Science and Technology for Sustainable Development**”.

During the Conference, the following issues will be deliberated:

- Strategies in Human Resource Development in Science & Technology
- Infrastructure in Science Education, Research & Training
- Infrastructure facilities and S & T Capacity Building in vocational training & skill development
- Expansion and Strengthening the involvement of Women in Science & Technology
- Role of New Technologies and ICT in Science Education and promotion of HRD
- Application of S & T in Governance

To participate in this open forum discussion, planners, administrators, policy makers, faculty and students from various universities, NGOs, science promoters and others have been invited and about 500 participants are expected to participate. The conference will have three plenary sessions and seven technical sessions and a panel discussion, spread over three days. The technical sessions will include over 24 presentations by eminent scientists, senior administrators and experts. A Science and Technology Exhibition has also been organized. Prof. M. S. Mohan Kumar, Secretary, KSCST, is the Chief Coordinator and Dr. M. Prithviraj, Executive Secretary, KSCST, is the Coordinator of the conference. Dr. S. G. Sreekanteshwara Swamy, Fellow, KSCST, is the Co-Coordinator of the Conference.

The Inaugural Function is organized on 26 May 2011. Sri M. N. Vidyashankar, IAS, Principal Secretary, Department of Science and Technology, Government of Karnataka, will give introductory speech. Prof. C. N. R. Rao, FRS, Linus Pauling Research Professor, Advisor to the Prime Minister for Science and Technology, Honorary President, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, will be inaugurating the conference. Sri J. Krishna Palemar, Hon'ble Minister for Ecology and Environment, Fisheries, Science and Technology, Government of Karnataka, will be the presiding over the function. Prof. P. Balaram, Director, Indian Institute of Science, Bangalore will be the Guest of Honour.

The Valedictory Function is organized on 28<sup>th</sup> May 2011. Smt. Meera C. Saxena, IAS, Additional Chief Secretary and Development Commissioner, Government of Karnataka will be the guest of honour. The valedictory address will be given by Prof. M. K. Surappa, Director, Indian Institute of Technology, Ropar (Punjab) and Prof. B. N. Raghunandan, Divisional Chairman, Earth and Environment Sciences, Indian Institute of Science, will be presiding over the function.

It is felt that the Conference would serve its purpose of arriving at a consensus in formulating policies, planning meaningful programmes and activities so that suitable measures could be taken in Human Resources Development in Science and Technology in the state.

**Chief Coordinator:**

Prof. M. S. Mohan Kumar,  
Secretary, KSCST,  
Indian Institute of Science,  
Bangalore – 560 012  
Tel: 2334 1652, Fax: 2334 8840  
Email: [office@kscst.iisc.ernet.in](mailto:office@kscst.iisc.ernet.in)

**Co-ordinator:**

Dr. M. Prithviraj,  
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**Co-coordinator:**

Dr. S. G. Sreekanteswara Swamy,  
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Karnataka State Council for Science and Technology  
Vision Group on Science and Technology  
and



Government of Karnataka

Department of Science and Technology, Government of Karnataka

## SECOND STATE LEVEL SCIENCE AND TECHNOLOGY CONFERENCE - 2011

THEME : INITIATIVES FOR HUMAN RESOURCE DEVELOPMENT IN SCIENCE & TECHNOLOGY

DATE : 26<sup>th</sup> -28<sup>th</sup> MAY, 2011

VENUE : J. N. TATA AUDITORIUM, INDIAN INSTITUTE OF SCIENCE, BANGALORE

### INAUGURAL FUNCTION

**Date:** Thursday, 26<sup>th</sup> May 2011

09.00 AM – 10.00 AM : Registration

10.00 AM – 10.10 AM : Nada Geethe

10.10 AM – 10.15 AM : **Welcome**

Sri M. N. Vidyashankar, IAS

Principal Secretary to Government

Department of Information Technology, Biotechnology and

Science and Technology, e\_Governance, Government of Karnataka

10.15 AM – 10.25 AM : **Inauguration and Inaugural Speech**

Karnataka Rathna Prof. C. N. R. Rao, FRS

National Research Professor, Linus Pauling Research Professor

Chairman, Scientific Advisory Council to the Prime Minister

President, Vision Group on Science and Technology, GoK

Hon. President, Jawaharlal Nehru Center for

Advanced Scientific Research

10.25 AM – 10.30 AM : **Guest of Honour**  
Prof. P. Balaram  
Director, Indian Institute of Science and  
Chairman, Executive Committee, KSCST

10.30 AM – 10.40 AM : **Presidential Address**  
Sri. J. Krishna Palemar  
Hon'ble Minister for Ecology and Environment and Science and  
Technology, Fisheries, Government of Karnataka

10.40 AM – 10.45 AM : Vote of Thanks  
Prof. M. S. Mohan Kumar  
Secretary  
Karnataka State Council for Science and Technology

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10.50 AM : **Inauguration of Exhibition**

By Prof. P. Balaram  
Director, Indian Institute of Science and  
Chairman, Executive Committee, KSCST

- Registration Continues
- Tea break

# **TECHNICAL SESSIONS**

<b>Date</b> : Thursday, 26 <sup>th</sup> May 2011
<b>Venue</b> : J. N. Tata Auditorium, Indian Institute of Science, Bangalore

12.00 Noon – 01.00 PM : **Plenary Lecture - 1**  
The Role of adaptable, affordable and accessible S&T in regional socio-economic development  
– Dr. V. Prakash  
Former Director, CFTRI, Mysore and  
President, Nutrition Society of India

01.00 PM - 02.00 PM : Lunch Break

02.00 PM – 03.30 PM : **Technical Session – 1 :**  
**Strategies for Human Resource Development in Science and Technology**  
**Chairman :**  
– Dr. H. A. Ranganath  
Director, National Assessment and Accreditation Council,  
Government of India

### ***Sub-topics:***

- 1) Steps to Enhance the Quality of Higher Education and HRD in S&T  
– Prof. K. Siddappa  
Former Vice Chancellor, Bangalore University
- 2) Technology Enhanced Learning and its importance  
– Dr. Mangala Sunder Krishnan  
Professor, Department of Chemistry, IIT M, Chennai
- 3) Primary & Secondary Education - a road map to development of HR  
– Prof. S. Niranjan Dass  
Former Principal, Vijaya Teachers College, Bangalore

- 4) Promotion of HRD through School Science Education
  - Prof. S. N. Prasad  
Former Principal & Professor  
Regional Institute of Education (NCERT), Mysore

03.30 PM - 04.00 PM : Tea Break

04.00 PM – 05.30 PM : **Technical Session – 2 :  
Infra-structure in Science Education,  
Research and Training**

**Chairman :**

Prof. D. K. Subramanian  
Former Professor, Department of Computer Science and  
Automation, IISc., & Former Secretary, KSCST

**Sub-topics:**

- 1) Infrastructure in Science Education,  
Research and Training
  - Prof. K. Srinivasan  
Department of Engineering Physics,  
Dayananda Sager College of Engineering, Bangalore
- 2) The role of creativity in science learning  
& teaching skills of school teachers  
through Museums, Planetarium &  
Mobile Science Exhibitions
  - Dr. K. G. Kumar  
Director, NCSM, Kolkata
- 3) ICT for Technical Teacher Training
  - Prof. S. Mohan  
Director, NITTTRC, IITM, Chennai
- 4) Enhancing Research Output in  
Technical Institutions through effective  
Human Resources Development  
Strategies
  - Prof. K. Subrahmanya Bhat  
Department of Mechanical Engineering  
NMAM Institute of Technology, Nitte

**Date** : Friday, 27<sup>th</sup> May 2011

**Time** : 9.30 AM

**Venue** : J. N. Tata Auditorium, Indian Institute of Science, Bangalore

09.30 AM – 10.30 AM : **Plenary Lecture – 2**  
**Widening Participation in**  
**Science Education**  
– Prof. M. I. Savadatti  
Former Vice Chancellor, Mangalore University

10.30 AM - 11.00 AM : Tea break

11.00 AM - 12.30 PM : **Technical Session – 3 :**  
**Infrastructure facilities and S & T**  
**Capacity Building, Training and Skill**  
**Development**

**Chairman :**

Prof. G. K. Veeresh  
Former Vice-Chancellor, UAS, GKVK, Bangalore

**Sub-topics :**

- 1) Importance of Industry & University Synergy in HRD  
– Dr. Swami Manohar  
Managing Director, LimberLink Technologies Private, Limited
- 2) Role of Animal Husbandry Universities educating in rural youth about modern methods/ improvements  
– Prof. Suresh S Honnappagol  
Vice Chancellor, KVAFSU, Nandinagar, Bidar
- 3) Role of ITI in skill development  
– Dr. T. Somanath  
Principal, Toyota Technical Training Institute, Bangalore

12.30 PM - 01.30 PM : Lunch Break

01.30 PM - 03.00 PM : **Technical Session – 4 :**

**Expansion and Strengthening the involvement of Women in Science and Technology**

**Chairperson :**

Dr. Radha D. Kale

Former Professor of Zoology

University of Agricultural Sciences, GKVK, Bangalore

**Sub-topics :**

- 1) Women in Science & Technology and Opportunities in Research
  - Prof. Indira Rama Rao  
International Centre for Women, University of Mysore
  
- 2) Indian Women in Research - Opportunities and Challenges
  - Dr. Sridevi Jade  
Scientist, C - MMACS
  
- 3) Women in Science: High-end Research
  - Dr. Asna Urooj  
Department of Food Science & Nutrition,  
University, of Mysore
  
- 4) Women in Science : Special attributes, Opportunities and Challenges
  - Dr. Akhila Vani  
Scientist, IIHR, Hesaraghatta, Bangalore

03.00 PM - 3.30 PM : Tea break

03.30 PM – 5.00 PM : **Technical Session – 5 :  
Role of New Technologies and ICT in  
Science Education & Promotion of HRD**

***Chairman :***

Prof. R. Govindarajan  
Chairman, SERC, Indian Institute of Science

***Sub-topics :***

- 1) Satellite based Science & Technology  
Education and Research
  - Sri Neelakantan  
Director, SCNP, ISRO, Bangalore
- 2) Role of ICT in S&T popularisation  
Regional and global level aspects
  - Sri A. S. K. V. S. Sharma  
Head, Information and Publicity, CFTRI, Mysore
- 3) Experiences in building technology  
training at Infosys
  - Sri S. V. Subrahmanya  
Vice President, Research Fellow, Infosys, Bangalore

05.00 PM - 6.30 PM : **Special Session :  
Quality Support, Promotion of HRD and  
Governance in Universities**

***Chairman :***

Prof. N. R. Shetty  
President, Indian Society of Technical Education,  
Former Vice Chancellor, Bangalore University

Discussion with Vice Chancellors from all  
the Universities in Karnataka

**Date** : Saturday, 28<sup>th</sup> May 2011

**Venue** : J. N. Tata Auditorium, Indian Institute of Science, Bangalore

09.30 AM– 10.30 AM : **Special Lectures**  
**Building Scientific Mind : Defining the Role and Responsibility**

***Chairman:***

Prof. R. Narasimha, FRS  
Honorary Professor, Department of Engineering Mechanics,  
JNCASR, Bangalore

***Sub-topics :***

- 1) AIR, Dooradarshan and other Media
  - Prof. H. R. Ramakrishna Rao  
Science Communicator and Popular Science Writer
- 2) Print and Periodicals
  - Prof. Sudheendra Haldodderi  
International Institute of Aerospace Engineering and  
Management, Jain University, Bangalore

10.30 AM - 11.00 AM : Tea break

11.00 AM - 01.00 PM : **Technical Session :**

**6A : Presentations and Posters**  
**Exhibition by Research Scholars**  
**- on the theme of the Conference**

***Speakers :***

*University / Engineering College Students*

11.00 AM - 01.00 PM : **Technical Session :**  
**6B : Application of S&T in Governance**

**Chairman:**

**Sri M. N. Vidyashankar, IAS.**

Principal Secretary, IT, BT and S&T, e-Governance,  
Government of Karnataka

**Sub-topics :**

1. Land Resource /Water Resource Management
2. Sustainable Regional Developmental Planning
3. Urban Infrastructure facilities
4. Health

01.00 PM – 02.00 PM : Lunch Break

02.00 PM - 03.30 PM : **Panel Discussion-7:**

**Evolving a policy framework to encourage, enrich, enhance and encash HR in S&T**

**Chairman:**

Prof. B. G. Mulimani

Vice Chancellor, BLDE University, Bijapur

**Panelists**

Prof. M. S. Hegde

Former Professor, Solid State and Structural Chemistry Unit, IISc.

Dr. H. Honne Gowda

Director (Technical), Department of IT, BT

& Science and Technology, Government of Karnataka and

Member Secretary, Karnataka Science and Technology Academy

Prof. S. Rajagopalan

Indian Institute of Information Technology, Bangalore

Sri V. V. Kulkarni

Director, Sarva Shikshana Abhiyana

# **VALEDICTORY FUNCTION**

<b>Date</b> : Saturday, 28 <sup>th</sup> May 2011	<b>Time</b> : 03.30 PM
<b>Venue</b> : J. N. Tata Auditorium, Indian Institute of Science, Bangalore	

- 03.30 PM – 03.40 PM : Welcome  
Prof. M. S. Mohan Kumar  
Secretary, Karnataka State Council for Science and Technology
- 03.40 PM – 03.50 PM : Recommendations and Strategies  
Dr. M. Prithviraj,  
Executive Secretary  
Karnataka State Council for Science and Technology
- 03.50 PM – 04.10 PM : Valedictory Address by the Chief Guest  
Prof. M. K. Surappa  
Director, Indian Institute of Technology, Ropar.
- 04.10 PM – 04.25 PM : Guest of Honour  
Smt. Meera C. Saxena, IAS  
Additional Chief Secretary and Development Commissioner  
Government of Karnataka
- 04.25 PM – 04.40 PM : Presidential Remarks  
Prof. B. N. Raghunandan  
Divisional Chairman, Earth and Environmental Sciences,  
Indian Institute of Science
- 04.40 PM – 04.45 PM : Vote of Thanks  
Dr. S. G. Sreekanteswara Swamy  
Fellow, KSCST

**SCIENCE AND TECHNOLOGY EXHIBITION AND POSTER EXHIBITION ALSO ARRANGED**

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