

# **29<sup>th</sup> Swadeshi Science Congress**

## **'National Conference on Science and Technology for Sustainable Development'**

(Covering aspects of Research Methodology, Intellectual Property Rights  
(IPR), entrepreneurship and Skill Development)

February 27-29, 2020

# 29<sup>th</sup> SWADESHI SCIENCE CONGRESS

*National Conference on*  
**Science and Technology for  
Sustainable Development**

**Date: 27 - 29 February 2020**

**Venue: ICAR-CPCRI, Kasaragod, Kerala**



## **Organizers**

**Swadeshi Science Movement Kerala (Vijnana Bharati)**

**ICAR-Central Plantation Crops Research Institute**

**Central University of Kerala**

# 29<sup>th</sup> Swadeshi Science Congress

Date: 27 - 29 February 2020

Venue: ICAR-CPCRI, Kasaragod

Swadeshi Science Movement Kerala (the Kerala Chapter of Vijnana Bharati) is organizing the 29<sup>th</sup> Swadeshi Science Congress with the focal theme, **Science and Technology for Sustainable Development** and Sub-Theme on 'Water Resource Management'.

## Highlights

- **Best Paper Award in each technical session (Age limit of First Author - below 40 years)**
- **Dr. K. Ravindran Memorial Award for Best Paper in Fisheries Sciences**
- **Swadeshi Sastra Puraskaram – Award instituted to honour an eminent Scientist/Technocrat of Kerala origin for his/her outstanding lifetime contributions**
- **Coinciding with National Science Day (28 February)**
- **Sir C.V. Raman Memorial Lecture (29 February)**
- **Scientist-Student Interface (29 February)**
- **Kathakali performance on *Raman Prabhavam* (29 February)**
- **SITI (Science, Invention, Technology, Innovation) Exhibition (27 Feb - 1 Mar 2020)**

## Participants

Scientists, research scholars, teachers and other research and development professionals can present papers in a wide range of topics. Presentations can be made in Malayalam or English. There will be both oral and poster presentations, besides plenary/keynote/invited lectures.

## Registration

The registration form may be sent along with registration fee by demand draft or at par cheque in favour of "Swadeshi Science Congress" payable at Ernakulam or by account transfer:

Account holder: Swadeshi Science Congress  
Bank: Vijaya Bank, Ernakulam North  
A/c No. 208201011000142  
IFSC Code VIJB 0002082

## REGISTRATION FEE (INR)

<i>Category</i>	<i>On or before 31 Jan 2020</i>	<i>Late or spot</i>
Sponsored	2,500	3,000
Research scholars	1,500	2,000
Students (participation only)	500	-
Others	2,000	2,500

## Accommodation

Limited hostel/guest house accommodation is available which will be reserved on request and allotted in the order of registration. Hotel accommodation will be arranged on request; The participants have to meet the charges for accommodation.

## Location

ICAR-Central Plantation Crops Research Institute is located about 4 km North of Kasaragod town on the National Highway (NH 66) connecting Mangaluru. Nearest railway station is Kasaragod which is 5 km away from the Institute. Nearest airport is Mangaluru.

## Technical Session

### Technical Session

#### **Sustainable water resource management**

27 Feb 2020

#### **Biotechnology and Biomedical Research**

27 Feb 2020

#### **Mathematical and Physical Sciences**

27 Feb 2020

#### **Chemical and Material Sciences**

27 Feb 2020

#### **Botany and Agriculture**

28 Feb 2020

#### **Zoology, Veterinary and Fisheries**

28 Feb 2020

#### **Engineering, IoT and AI**

28 Feb 2020

#### **Social Sciences and Knowledge Dissemination**

28 Feb 2020

#### **Forestry and Environmental Science**

28 Feb 2020

#### **Health Sciences**

28 Feb 2020

#### **Valedictory Session: C. V. Raman Memorial Lecture, Valedictory Address, Presentation of Awards,**

29 Feb 2020

**Student-Scientist interface, and RAMAN PRABHAVAM - a 'Kathakali' performance on life and work of Sir C. V. Raman**

### Conveners

Dr. Rishiram Ramanan, Asst. Professor, Dept. of Environmental Science, CUK

Dr. A. C. Mathew, Principal Scientist, ICAR-CPCRI, Thiruvananthapuram

Dr. Sameer Kumar V.B., Asst. Prof., Dept. of Biochem. & Molecular Biology, CUK

Dr. Senthilkumar, K. M. Scientist, ICAR-CTCRI,

Dr. Edayillam Prasad, Asst. Professor, Dept. of Physics, CUK

Dr. K. P. Chandran, Principal Scientist, ICAR-CPCRI

Dr. Suresh C.H., Sr. Principal Scientist, NIIST, Thiruvananthapuram

Dr. Aneesh, Asst. Professor, Dept. of Physics, CUK

Dr. E. A. Siril, Assoc. Professor, Dept. of Botany, Kerala University, Thiruvananthapuram

Dr. Jasmine M. Shah, Asst. Professor, Dept. of Plant Science CUK

Dr. Sudha K., Associate Professor, Dept. of Zoology, CUK

Dr L Divya, Asst Professor, Dept of Zoology, CUK

Dr.T.M. Thasleema, Dept. of Computer Science, CUK

Dr. V. S. Santhosh Mitra, Principal Scientist, ICAR-CTCRI, Thiruvananthapuram

Dr. S. Jayasekhar, Senior Scientist, ICAR-CPCRI

Dr. Efthikar Ahamed B., Asst. Prof, Dept. of English & Comparative Lit., CUK

Dr. T. J. Joseph, Asst Professor, Department of Economics, CUK

Dr. T. V. Sajeevan, Principal Scientist, Kerala Forest Research Institute, Peechi

Dr Sijin Kumar A V, Asst Professor, Dept of Geology, CUK

Dr. Subramanya Pailoor, Academic Coordinator, Dept. of Yoga, CUK

Dr. Elezebeth Mathews, Asst. Professor Department of Public Health and Community Medicine, CUK

**Abstracts of the papers to be presented should be submitted to [mail@sciencecongress.in](mailto:mail@sciencecongress.in)**

**OR**

**Uploaded to the website: [ssc2019.cf](http://ssc2019.cf)**

## **Patrons**

Dr. A.K. Singh, DDG (Hort. Sci.), ICAR, New Delhi  
Prof. G. Gopakumar, Vice Chancellor, CUK, Kasaragod

## **Advisory Committee**

Dr. G.M. Nair, Chairman, Kerala Biotechnology Commission, Thiruvananthapuram  
Dr. V.P.N. Nampoory, Emeritus Professor, CUSAT, Kochi  
Shri P.N. Subramanian, Former Deputy Director, ISRO-VSSC, Thiruvananthapuram  
Dr. N.G.K. Pillai, Former Director, ICAR-CMFRI, Kochi  
Dr. K.K.C. Nair, Former SIC, CSIR-NIO Regional Centre, Kochi  
Prof. (Dr.) K. Jayaprasad, Pro VC, CUK, Kasaragod  
Dr. C.A. Jayaprakash, Principal Scientist, ICAR-CTCRI, Thiruvananthapuram  
Dr. P. R Suresh, Associate Dean, College of Agriculture (KAU), Padennakkad

## **Organizing Committee**

### **Chairman**

Dr. Anitha Karun, Director, ICAR-CPCRI, Kasaragod

### **Vice Chairman**

Dr. K. Muralidharan, Head, Division of Social Sciences, ICAR-CPCRI, Kasaragod  
Dr. M.R. Prathapachandra Kurup, Prof. & Dean, Dept. of Chemistry, CUK, Kasaragod

### **Secretary General**

Dr. Rajendra Pilakatta, Associate Professor, CUK, Kasaragod

### **General Convenors**

Dr. A. Sakthivel, Professor, Dept. of Chemistry, CUK  
Dr. Swapna S. Nair, Assoc. Prof. & HoD Physics, CUK  
Dr. M.K. Rajesh, Principal Scientist, ICAR-CPCRI  
Dr. C.M. Joy, Former Professor, SH College, Thevara, Kochi  
Dr. K. Madhusudhanan, Asst. Professor, Dept. of Botany, St. Albert's College, Ernakulam

### **Members**

Dr. H.P. Maheshwarappa, Project Coordinator, AICRP (Palms), ICAR-CPCRI, Kasaragod  
Dr. K.B. Hebbar, Head, Physiology, Biochemistry & PHT, ICAR-CPCRI

Dr. Ravi Bhat, Head, Crop Production, ICAR-CPCRI  
Dr. Vinayaka Hegde, Head, Crop Protection, ICAR-CPCRI  
Dr. Murali Gopal, Scientist Incharge, PME Cell, ICAR-CPCRI  
Dr. A. C. Mathew, Principal Scientist, ICAR-CPCRI  
Dr. Alka Gupta, Principal Scientist, ICAR-CPCRI  
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Dr. A.R.R. Menon, Former Senior Scientist, KFRI, Thrissur  
Shri Muralee Mohan, Former Bank Manager, Thiruvananthapuram  
Dr. R. Jayaprakash, Assoc. Professor, Marthoma College, Chungathara  
Shri P.A. Vivekananda Pai, South Zone Organizing Secretary, Vijnana Bharati, New Delhi  
Dr. Unnikrishnan Unniyampurath, DUKE NUS, Singapore

## **Swadeshi Science Movement Kerala (Kerala Chapter of Vijnana Bharati)**

Sastra Bhavan, B4, Fourth floor, Mather Square  
Town Railway Station Road, Kochi-682018, Kerala  
Website: [www.ssmkerala.org](http://www.ssmkerala.org)

### **President**

Dr. V.N. Sanjeevan, Former Director, CMLRE, Kochi

### **Secretary**

Dr. A.R.S. Menon, Former Chief Technical Officer, ICAR-CIFT, Kochi

### **Treasurer**

Dr. Rajalakshmi Subramanian, Former Technical Officer, CUSAT, Kochi