



**MACFAST**<sup>TM</sup>  
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**MAR ATHANASIOS COLLEGE FOR ADVANCED STUDIES  
TIRUVALLA (MACFAST)  
Thiruvalla - 689101**

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# **NATIONAL SCIENCE DAY**



Every year, National science day is celebrated on February 28<sup>th</sup> to commemorate the everlasting contribution of our great scientist Sir C. V. Raman. The institute organizes National Science Day in every year with various activities to encourage scientific awareness and innovative ideas among the students. As a part of science day celebration the institute organize various technical sessions and scientific talks, which helps the students to understand the specific role of science as well as its variety of functions for the benefit of our society such as creating new knowledge, improving education, and increasing the quality of our lives. The students gain more awareness on societal needs and global challenges faced by the scientific community. Most of the institutional celebrations conducted as a part of Science Day were financially supported by the Kerala State Council for Science, Technology, and Environment (KSCSTE), Department of Biotechnology (DBT), and Department of Science and Technology (DST). The following table explains the activities conducted by our institution from the year 2016 to 2021 as part of national science day. In the year 2021 the science day was conducted with a quiz competition based on science in daily life and the celebration was restricted due to the pandemic crisis. The events were conducted by following the Covid 19 protocol guidelines at the MACFAST auditorium.

**Table: National Science day celebration from 2016-2021**

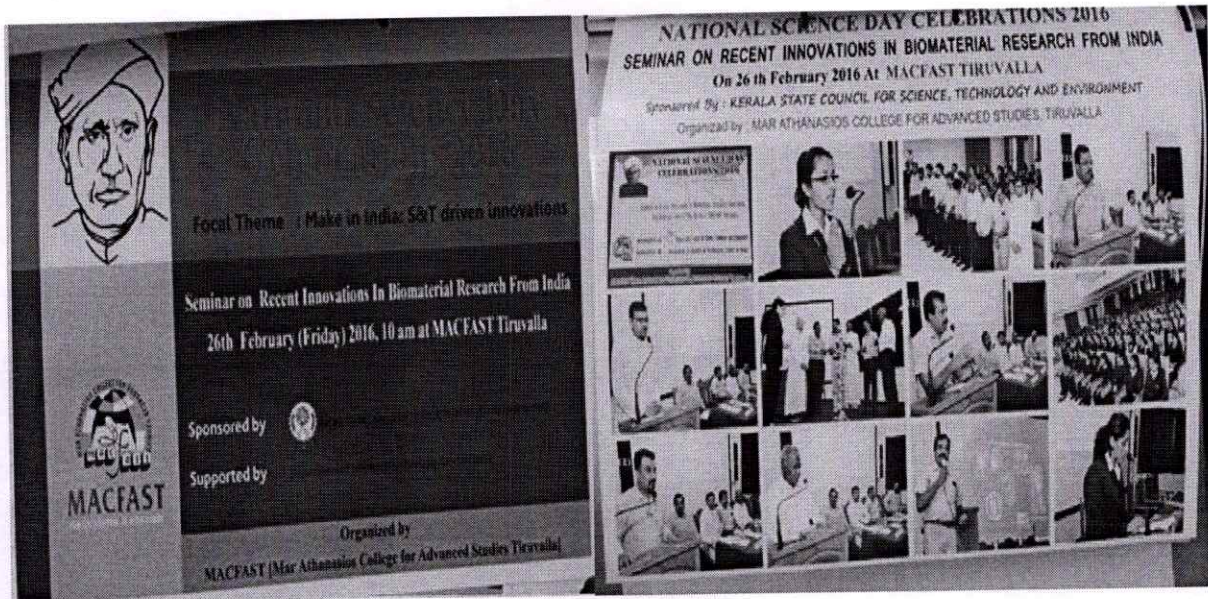
<b>Year</b>	<b>Theme</b>	<b>Programs organized</b>	<b>Funding organization</b>
26/02/2016	Make in India: S & T driven innovation	Recent Innovations in Biomaterial Research from India Speakers: Dr. Harikrishna Varma P. R. Scientist , Sree Chitra Thirunal Institute for Medical Sciences and Technology ,Trivandrum and Dr. Bikramjit Basu Professor, Materials Research Center, Indian Institute of Science, Bangalore	KSCSTE (No.C 16/NSD/2016/KSCSTE)
23/02/2017	Science and Technology for specially abled persons	Seminar on Chromosomal Abnormalities and its impact in human life Speaker: Dr. Deepak K. Saini Associate Professor Dept. of Molecular Reproduction, Development and Genetics Indian Institute of Science, Bangalore Intercollegiate elocution and Painting competition (Winners of elocution: 1 <sup>st</sup> Prize: Ms Amalu Devasia, Marthoma College, Tiruvalla	KSCSTE and supported by DBT (C-93/NSD/2017/KSCSTE)

		Painting: 1 <sup>st</sup> prize: Nithya Prabhakar, MACFAST)	
26/02/2018	“Scientific Innovations for Sustainable Development”	Dr. Irfan Ahamed Ghazi of School of Life sciences, Central University Hyderabad	KSCSTE (CO NO: 9181/2019/KSCSTE)
26, 27/02/2019	Communicating Science For all	<ul style="list-style-type: none"> <li>● Keynote address: Padma Shri M. Chandra Dathan ,Former Director ,VSSC &amp; Scientific advisor to Chief Minister, Govt. of Kerala</li> <li>● Book Release: Mushrooms of Kerala written by Dr. Bhavani Devi and Dr. C. Balagopalan and published by MACFAST publications and released by Shri. M.C. Dathan</li> <li>● Public Lecture by Dr. Akash Gulyani from Institute for Stem Cell Science and Regenerative Medicine (inStem), Bangalore on “Sensing across scales: Fluorescent biosensors for live cell imaging and discoveries in natural light sensing and eye-brain regeneration”</li> <li>● Radio Programme</li> </ul>	KSCSTE and DST (CO No1165/2019/KSCSTE)
06/02/2020	Women in science	Science Lecture on Fascinating world of scientific research Dr. Aiswarya G. from MIGAL Galilee Research Institute, Kiryat Shmona, Israel Recipient of Marie Curie Fellowship	Funded by MACFAST management
01/03/2021	National Science Day	Quiz Competition on Science day and science in daily life	Funded by MACFAST management -

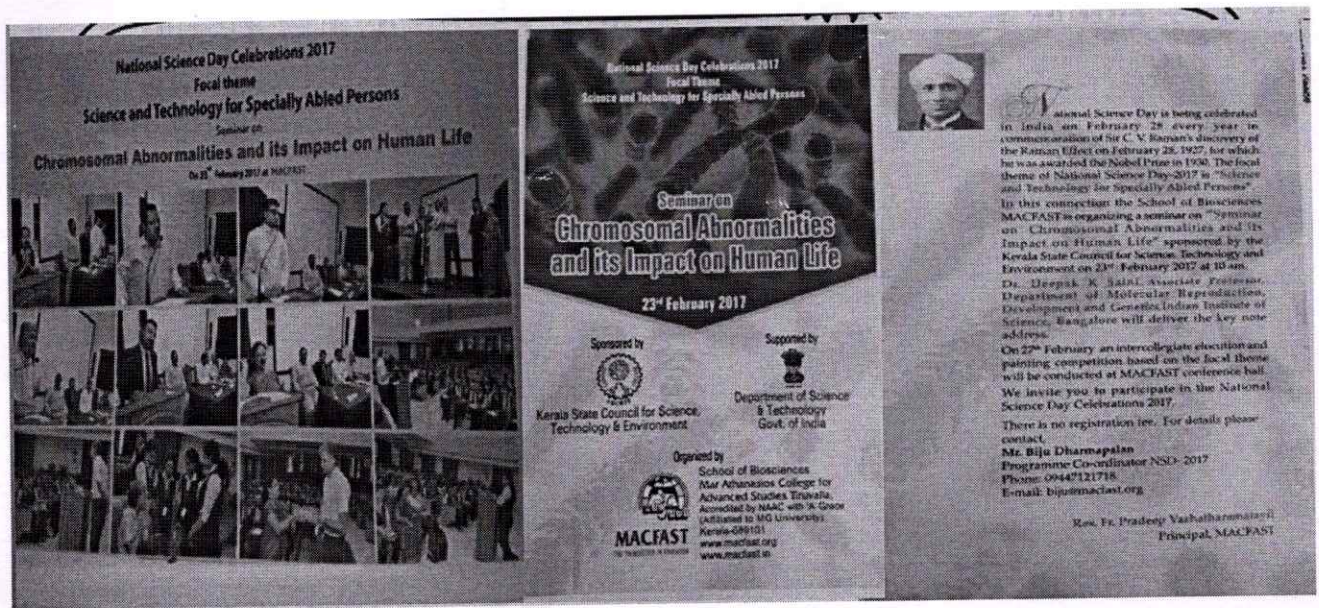


## PHOTOS

### National Science Day 2016



### National Science Day 2017





# National Science Day 2018

NATIONAL SCIENCE DAY CELEBRATIONS 2018  
74th FEBRUARY 2018

SCIENCE AND TECHNOLOGY FOR SUSTAINABLE FUTURE

SEMINAR ON  
**SCIENTIFIC INNOVATIONS FOR SUSTAINABLE DEVELOPMENT**

74th FEBRUARY 2018

Supported by  
  
 Kerala State Council for Science, Technology & Environment

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 Department of Science & Technology Govt. of India

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**MACAST**  
 School of Business

Major Administrative Centre for Pathanamthitta, Kollam, Alappuzha, Kottayam, Kozhikode, Malappuram, Palakkad, Thrissur, Wayanad, Kannur, Idukki, Ponnani, Kanyakumari, Tirunelveli, Tamil Nadu, Kerala, India  
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**SCIENTIFIC INNOVATIONS FOR SUSTAINABLE DEVELOPMENT**

National Science Day is being celebrated in India on February 28 every year in commemoration of Sir C.V. Raman's discovery of the Raman Effect on February 28, 1927 for which he was awarded the Nobel Prize in 1930. The local theme of National Science Day-2018 is "Science and Technology for sustainable future".

In this connection the School of Business MACAST is organizing a seminar on "Scientific Innovations for Sustainable Development" sponsored by the Kerala State Council for Science, Technology and Environment on 26th February 2018 at 10 am in MACFAST auditorium.

Dr. Irfan Ahmad Ghazan, School of Life Sciences, University of Hyderabad, Hyderabad will deliver the key note address.

On 27th February an inter-collegiate discussion and painting competition based on the local theme will be conducted at MACFAST conference hall.

We invite you to participate in the National Science Day Celebrations 2018.

There is no registration fee. For details please contact Mr. Biju Dhanrajadasan, Programme Co-ordinator NSD-2018, Phone: 09447121718, Email: [bu@acist.org](mailto:bu@acist.org)

Prof. Dr. Charan J. Kottayil  
Principal, MACFAST

KICRTE Sponsored  
**National Science Day Celebrations**  
(Organized by School of Business, MAFAST on 26th & 27th February 2018)

# National Science Day 2019

National Science Day Celebrations 2019  
Communicating Science for All

**COMMUNICATING SCIENCE FOR ALL**

Public Lecture  
  
**MACAST**  
 School of Business

Topic: **Public Lecture**  
 Topic: **Public Lecture**

National Science Day is being celebrated in India on February 28 every year in commemoration of Sir C.V. Raman's discovery of the Raman Effect on February 28, 1927 for which he was awarded the Nobel Prize in 1930.

The local theme of National Science Day 2019 is "COMMUNICATING SCIENCE FOR ALL". National Science Day will be celebrated MAFAST on 26th and 27th February 2019.

Dr. Irfan Ahmad Ghazan, Professor, School of Life Sciences, University of Hyderabad, Hyderabad will deliver the key note address on 26th February 2019 at 10 am in MACFAST Auditorium. On this occasion a book related to inter-collegiate competition will be launched by Dr. Bhanu Chari and Dr. C. Sreerajadasan, both of MAFAST. Publications will be followed by an interactive session with students.

On 27th February 2019 Dr. Anandh Subramanian, Institute for Stem Cell Science and Regenerative Medicine (I-SRM), Bangalore will deliver a seminar on "Sensing across scales: Fluorescence biosensors for live imaging and diagnostics in natural light sensing systems in regeneration". This lecture will highlight the implications of basic research and how new tools and translational research can be made possible through research efforts.

We cordially invite you to participate in our National Science Day Celebrations 2019. For registration details please contact Mr. Biju Dhanrajadasan, Programme Co-ordinator NSD-2019, Phone: 09447121718, Email: [bu@acist.org](mailto:bu@acist.org)

Prof. Dr. Charan J. Kottayil  
Principal, MACFAST

National Science Day Celebrations 2019  
Communicating Science for All  
@ MAFAST, Thrissur on 26th & 27th February 2019  
Public Lecture, Book Release & Book Program in: VRI, M. C. Sreedha Parthasarathy  
26th February 2019






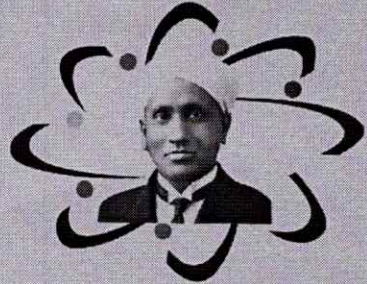
## National Science Day 2020

**NATIONAL SCIENCE DAY CELEBRATIONS 2020**  
FOCAL THEME: "WOMEN IN SCIENCE"


**FASCINATING WORLD OF SCIENTIFIC RESEARCH**



**AISVARYA G, Ph.D.**  
MARIE-CURIE FELLOW  
POST DOCTORAL RESEARCHER  
PLANT METABOLISM LAB,  
MIGAL GALILEE RESEARCH INSTITUTE  
KIRYATSHMONA, ISRAEL



MACFAST AUDITORIUM  
6<sup>TH</sup> FEBRUARY 2020 @ 2 P.M.



**MACFAST**  
THE TRENDSETTER IN EDUCATION

*Biosciences, MACFAST on 6<sup>th</sup> February 2020*

## National Science Day 2021





# KSCSTE Sponsored National Science Day Celebrations

Organized by School of Biosciences, MACFAST on 26th & 27th February 2018





# National Science Day Celebrations 2019

“Communicating Science for All”

@ MACFAST, Tiruvalla on 26th & 27th February 2019

Public Lecture, Book Release & Radio Programme by **Shri. M. Chandra Dathan** on  
26th February 2019



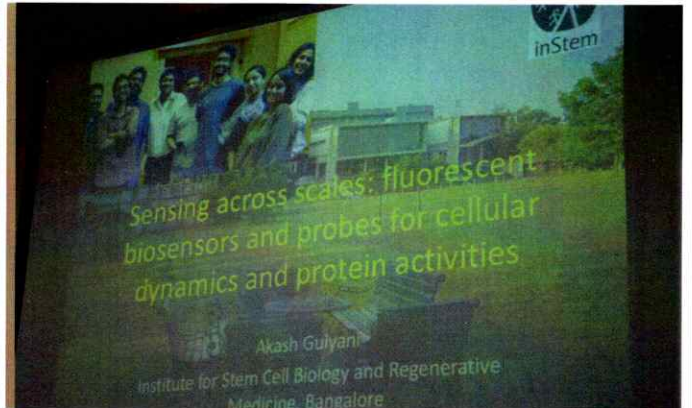


# National Science Day Celebrations 2019

“Communicating Science for All”

@ MACFAST, Tiruvalla on 26th & 27th February 2019

Seminar on “**Translational Research for the betterment of the society**” and  
Radio programme by **Dr. Akash Gulyani** on 27th February 2019





NATIONAL SCIENCE DAY CELEBRATIONS 2018  
FOCAL THEME  
'SCIENCE AND TECHNOLOGY FOR SUSTAINABLE FUTURE'

SEMINAR ON  
**SCIENTIFIC  
INNOVATIONS FOR  
SUSTAINABLE  
DEVELOPMENT**

26<sup>TH</sup>  
FEBRUARY  
2018

Sponsored by



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Department of Science  
& Technology Govt. of India

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THE TRENDSETTER IN EDUCATION

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**N**ational Science Day is being celebrated in India on February 28 every year in commemoration of Sir C. V. Raman's discovery of the Raman Effect on February 28, 1927, for which he was awarded the Nobel Prize in 1930. The focal theme of National Science Day-2018 is **'Science and Technology for sustainable future'**.

In this connection the School of Biosciences MACFAST is organizing a seminar on **"Scientific Innovations for Sustainable Development"** sponsored by the Kerala State Council for Science, Technology and Environment on **26<sup>th</sup> February 2018 at 10 am in MACFAST** auditorium.

**Dr. Irfan Ahmad Ghazi**, School of Life Sciences, University of Hyderabad, Hyderabad will deliver the key note address.

On 27<sup>th</sup> February an intercollegiate elocution and painting competition based on the focal theme will be conducted at MACFAST conference hall.

We invite you to participate in the National Science Day Celebrations 2018.

There is no registration fee. For details please contact **Mr. Biju Dharmapalan**, Programme Co-ordinator NSD-2018, Phone: 09447121718, E-mail: [biju@macfast.org](mailto:biju@macfast.org)

**Rev. Dr. Cherian J. Kottayil**  
Principal, MACFAST



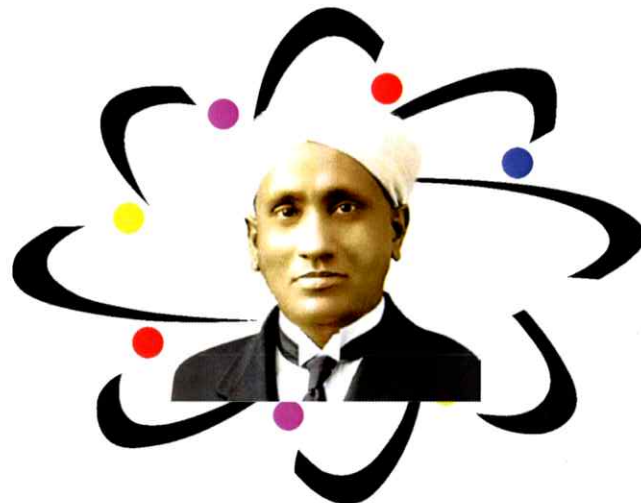
# NATIONAL SCIENCE DAY CELEBRATIONS 2020

## FOCAL THEME: "WOMEN IN SCIENCE"

FASCINATING WORLD OF  
SCIENTIFIC RESEARCH



**AISWARYA G, Ph.D.**  
MARIE-CURIE FELLOW  
POST DOCTORAL RESEARCHER  
PLANT METABOLISM LAB,  
MIGAL GALILEE RESEARCH INSTITUTE  
KIRYATSHMONA, ISRAEL



**MACFAST AUDITORIUM**  
**6<sup>TH</sup> FEBRUARY 2020 @ 2 P.M.**



**MACFAST**  
THE TRENDSETTER IN EDUCATION



## About the Speaker

Biotechnology, in Bharathiar University, Coimbatore. She completed her Master's degree in 2010, securing first rank from Bharathiar University. She has also qualified CSIR-NET in 2009 for lectureship. But her ambition was to continue Doctoral research in plant biotechnology, for that she applied for the DST-INSPIRE fellowship (Ph.D fellowship offered for first rank holders). She got qualified for the INSPIRE fellowship in 2010 and joined as a Ph.D student under the guidance of Dr.E.V.Soniya, Rajiv Gandhi Centre for Biotechnology (RGCB), Trivandrum. Her Ph.D was in identifying suitable candidate genes responsible for polyketide biosynthesis from Indian gooseberry. During her Ph.D, she was awarded the Newton-Bhabha fellowship to do six months research in Aberystwyth University, UK under the guidance of Prof. Luis Mur. This gave her the experience in metabolomics. She successfully completed her Ph.D in 2017. She has published her results in international journals and has presented her research in various international and national conferences. Further, her research interests were to pursue experience in plant metabolomics. She gained three years of experience in plant metabolomics by working as a Post-doctoral researcher in MIGAL-Galilee research Institute, Israel under the guidance of Prof. Rachel Amir. During her research in Israel, she tried to understand the methionine biosynthesis in seeds using in-depth metabolomics and transcriptomics approaches. This has reinforced her skills on metabolomics and was the major turning point in applying for European Union Marie-Curie Individual fellowship. She has successfully qualified for this prestigious fellowship in 2019 and she will apply a novel strategy in using teff, an orphan crop simultaneously as a "system and host" to explore the genetic resources by omics and phenotypic approaches while also applying gene editing strategies to improve the plant. This will be carried out under the supervision of Prof. Luis, IBERS, Aberystwyth University, UK. This fellowship will help her to accomplish her research dream as an independent crop scientist and to establish her own research team in future.

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For Registration Contact  
Mr. Biju Dharmapalan  
Co-ordinator  
Phone: 09447121718  
E-mail: [biju@macfast.org](mailto:biju@macfast.org)



KSCSTE Science Popularization Programme  
Popular Science Lecture

# CURIOSITY IN SCIENCE

## COCKROACH MILK

### & BLUE FISH



Prof. Ramaswamy S, inStem, Bangalore

27<sup>TH</sup>  
SEPTEMBER  
2018

Sponsored by



MACFAST  
AUDITORIUM  
AT 10 A.M.

Kerala State Council for Science,  
Technology & Environment

Organized by



**MACFAST**  
THE TRENDSETTER IN EDUCATION

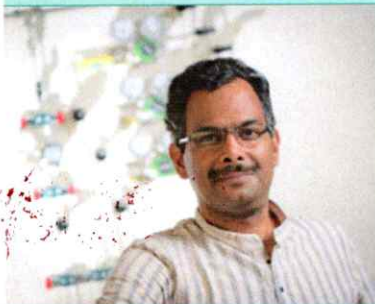
School of Biosciences

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As part of the Science popularization programme "Orientation Programme on Advances and Avenues in Science for School Students" sponsored by Kerala State Council for Science, Technology and Environment, the School of Biosciences is organizing a popular science lecture "Curiosity in Science - Cockroach Milk and Blue Fish" by Prof. Ramaswamy S, Senior Professor Institute of stem cell biology and regenerative medicine (inStem), Bangalore.



Ramaswamy S a senior professor at Institute of stem cell biology and regenerative medicine (inStem), Bangalore. He holds the founding dean's position at in-Stem from May 2009. He was also the founding C.F. of Center for Cellular and Molecular Platforms (C-CMP), Bangalore-Biocluster from May 2009 to May 2016. His major role at National Center for Biological Sciences (NCBS) was to bridge the gap between research and application. He works in close co-ordination with Department of Biotechnology (DBT), and other ministries of the Government of India.

Ramswamy obtained his Ph.D. in molecular biophysics under the guidance of Prof. M. R. N. Murthy from the Indian Institute of Science (IISc) in 1992 and became a post-doctoral fellow in the laboratory of Prof. Hans Eklund at the Swedish University of Agricultural Sciences (SLU). After being a post-doc from 1992 to 1994, he became a researcher at SLU, later a docent heading a research group till 1999. His primary area of expertise involves protein crystallography.

His research on cockroach protein gain lot of popularity in the scientific community and the media. Rams envisions cockroach protein as a superfood due to its high calorific content and the presence of other essential biomolecules like fats and carbohydrates embedded in the quaternary structure of the protein. Studies have shown that one cockroach protein crystals contain more than three times the energy found in an equivalent amount of buffalo milk. He and his team think that it could alleviate the food shortages across the globe if it could be commercialized as supplements. It is also conceptualized as space food due to its high calorific content over small quantity and stability, making it ideal for storage at spacecraft and consumption by the astronauts during long-duration space missions. Currently, the team is trying to produce the crystals in bucket loads using yeast recombinant protein expression system rather than extracting crystals from cockroach's gut.

Those interested in attending the lecture are requested to contact Sri. Biju Dharmapalan, Co-ordinator, Science Popularization Programme on or before 27<sup>th</sup> September 2018 through e-mail or phone (E-mail: [biju@macfast.org](mailto:biju@macfast.org), Phone: 9447121718)

**Rev. Dr .Cherian J. Kottayil**  
Principal



National Science Day Celebrations 2019

# COMMUNICATING SCIENCE FOR ALL



26<sup>th</sup> & 27<sup>th</sup>  
February 2019



**Public Lecture**



**Seminar**



**Radio Programme**



**Book Release**



Kerala State  
Council for Science,  
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Environment

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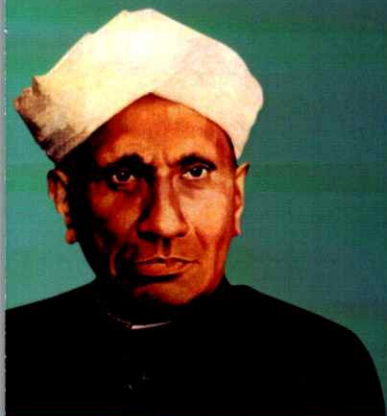
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The focal theme of National Science Day-2019 is **“COMMUNICATING SCIENCE FOR ALL”**. National Science Day will be celebrated at **MACFAST on 26<sup>th</sup> and 27<sup>th</sup> February 2019**



**Shri. M. Chandra Dathan**, Former Director, VSSC & Scientific advisor to Chief Minister, Govt. of Kerala will inaugurate the function and deliver the Science day lecture on 26<sup>th</sup> February 2019 at 10 a.m. in MACFAST Auditorium. On this occasion a book titled **“MUSHROOMS OF KERALA”** authored by Dr. Bhavani Devi and Dr. C. Balagopalan, published by MACFAST Publications will be released. This will be followed by an interactive session with students.



On 27<sup>th</sup> February 2019 **Dr. Akash Gulyani** from Institute for Stem Cell Science and Regenerative Medicine (inStem), Bangalore will deliver a seminar on **“Sensing across scales: Fluorescent biosensors for live cell imaging and discoveries in natural light sensing eye-brain regeneration”**. His lecture will highlight importance of basic research and how new tools and translational research can be made possible through research work.

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