



GLOBAL
**SCIENCE
FESTIVAL**
KERALA

Image from the
Curtain raiser event
of GSKF on 5th December
at Kanakakkunnu Palace,
Thiruvananthapuram

Overview



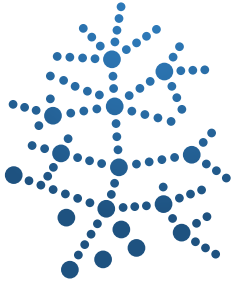
Department of Science
and Technology
Govt. of Kerala



Kerala State Council for
Science, Technology &
Environment

AMUSEUM

Amuseum ArtScience
Thiruvananthapuram



GSFK

WHY?

To foster a culture of appreciating science and to examine its strengths and weaknesses

WHAT?

A curated science festival that explores Science through Art

FOR?

Festival Attendees, Art Lovers, Science Enthusiasts, Scientists, Students

WHEN?

January 15 - February 15, 2024

WHERE?

Bio 360 Life Sciences Park,
Thonnakkal,
Thiruvananthapuram, Kerala

HOW?

Bookings Open Now at
www.gsfk.org

A journey to experience what is...

Known and to be Known

SCIENCE EXHIBITION

From the origin of the **Universe**
to the divergence of **Life**

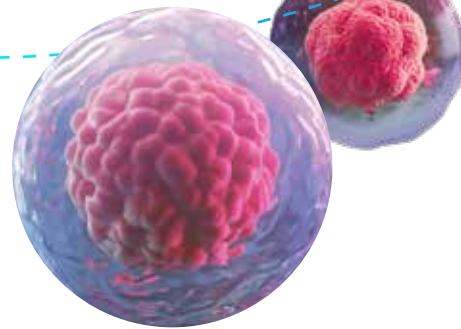
Thematically **Curated**
A meticulously crafted story experience

Artistically **Designed**
An experience built from the ground up by over 200 artists

Retrace our collective past, step into a panoramic **Universe**, and climb aboard the **HMS Beagle** to celebrate Darwin's Legacy.

Featuring immersive experiences and internationally renowned artworks, such as the **Museum of the Moon & Mars**, a transcendental experience awaits you at GSKF.

Understand **What Makes Us Human**



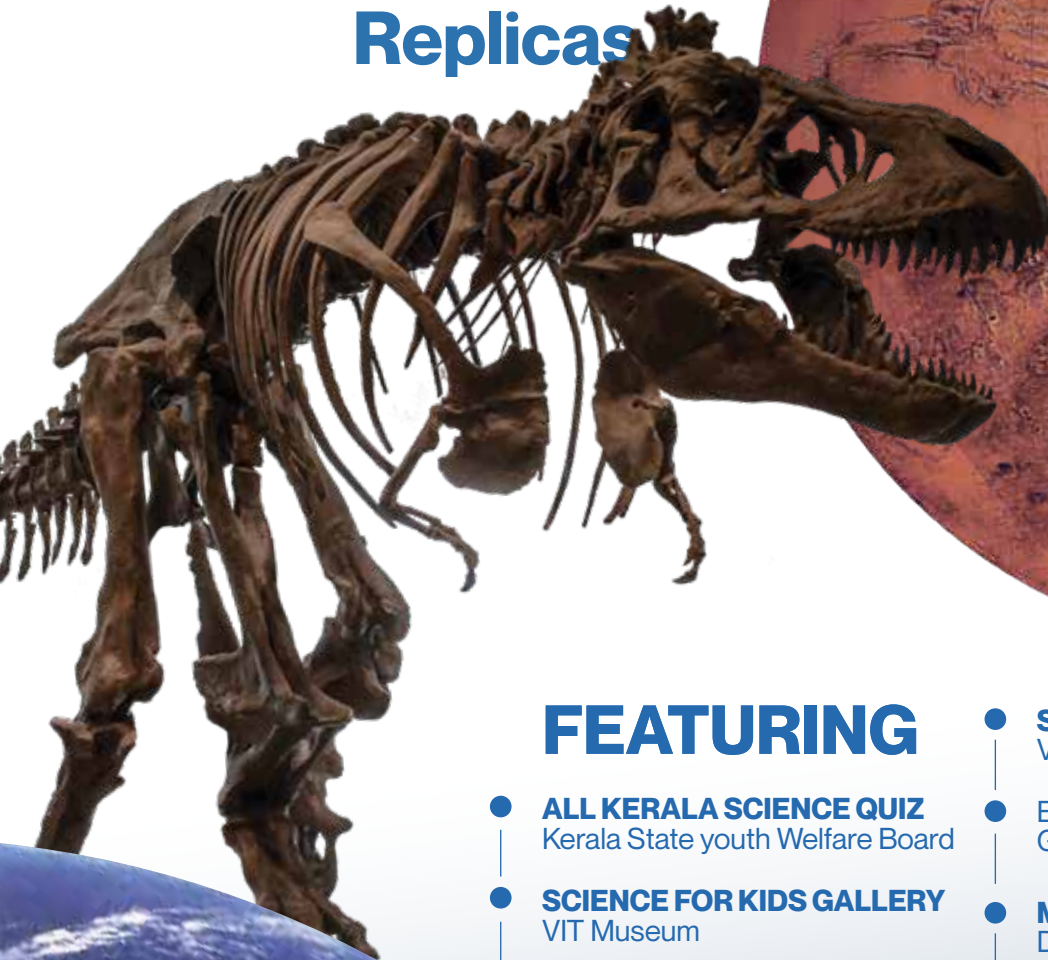
FOUCAULT PENDULUM
The Discovery of Earth's Spin



Walk Alongside **Our Ancestors**

Why the Sky is **Blue?**

Life-Size Replicas



EXCLUSIVE FESTIVAL EXPERIENCES

Immersive Experience
Human Conflict

Virtual Reality Experiences
Cell, Cosmos

Interactive Deep Learning
Cognition

Digital Experience
The International Space Station

Mars Installation by
Luke Jerram

FEATURING

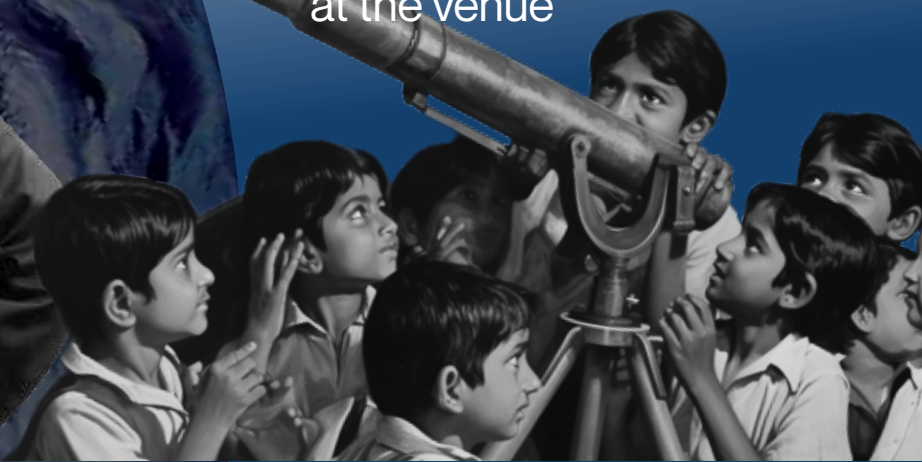
- **ALL KERALA SCIENCE QUIZ**
Kerala State youth Welfare Board
- **SCIENCE FOR KIDS GALLERY**
VIT Museum
- **OUTREACH PROGRAMMES THROUGHOUT KERALA**
- **SEEDS OF CULTURE EXHIBITION**
VIT Museum
- **ENERGY IN TRANSITION**
German Federal Foreign Office
- **MOLECULAR ANIMATION**
Dr. Drew Berry, Artist
- **WATER MATTERS EXHIBITION**
U.S. Consulate General, Chennai
Dr. Douglas Herman
- **DOLL MUSEUM**
Kerala State Council for Child Welfare

Wax Sculptures



Night Skywatch

A celestial night stay at the venue





Inauguration by
Shri. Pinarayi Vijayan
Hon. Chief Minister of Kerala

January 15th, 2024

5:00 PM

Followed by Cultural events





Talks and Conferences

Jan
16



- **05:00 pm: D. Krishna Warriar Memorial Lecture by AASTRO Kerala**

Topic - **Living with our sun**

Speaker: Dr. **Madhulika Guhathakurtha**, NASA

Dr. Madhulika Guhathakurtha is an American astrophysicist and scientist with NASA's Heliophysics Science Division. She was the lead program scientist for NASA's Living With a Star initiative and serves as program scientist on the Solar Dynamics Observatory (SDO), Van Allen Probes, and Solar Terrestrial Relations Observatory (STEREO) missions.

Jan
17



- **11:00 am: The Future of Non-Human Resources (Public Lecture)**

Speaker: Prof. **Robert Potts**

Prof. Robert Potts is a lecturer in Creative Digital Design at School of Digital Arts (SODA) at Manchester Metropolitan University. He has a cross-domain and post-disciplinary approach to research focusing on collaborative innovation and a broad specialist practice profile. As a creative director and studio practitioner, he consults on design projects, make innovative films and interactive experiences

Jan
18



- **05:00 pm: Public talk: Poetry of Science**

Speaker: Smt. **Kanimozhi Karunanidhi M. P.**

Kanimozhi Karunanidhi is an Indian politician, poet and journalist. She is a Member of Parliament, representing Thoothukkudi constituency in the Lok Sabha.



Jan
22



- **6:00 pm: Nuts and Bolts: How A Nail Built The World Or Why We Should Reinvent The Wheel (Public Lecture)**

Speaker: Ms. **Roma Agrawal**

Roma Agrawal is an Indian-British-American chartered structural engineer based in London. She has worked on several major engineering projects, including the Shard. Agrawal is also an author and a diversity campaigner, championing women in engineering.

- **10:00 am - 04:00 pm: Interaction with NASA and JPL scientists**



Speaker: Prof. **Kyle C. McDonald**

Professor in the Department of Earth and Atmospheric Sciences at The City College of New York, and Part-time Faculty in the Carbon Cycle and Ecosystems Group at the Jet Propulsion Laboratory, California Institute of Technology.

Topic: **“NISAR - Seeing Beyond the Trees to Understand Wetlands, Forests and Biodiversity”**



Speaker: **Dr. Paul A Rosen**

Project Scientist for NASA-ISRO synthetic aperture radar mission (NISAR) at the Jet Propulsion Laboratory (JPL), and is a JPL Fellow and Senior Research Scientist.

Topic: **“NISAR – An International Radar System of Systems for Groundbreaking Earth Science”**





Speaker: **Dr. Seung-bum Kim**

Scientist at Remote Sensing Systems, California, studying the L-band radiometry for the Aquarius salinity observation; is with the Jet Propulsion Lab.

Topic : **“NISAR Soil Moisture Science”**



Speaker: **Dr. Cathleen Jones**

Senior Research Scientist at the Jet Propulsion Laboratory , California and the Science Team Applications Lead for the NASA-ISRO NISAR mission.

Topic : **“The Many Applications of the NISAR Mission”**



Speaker: **Dr. Andrea Donnellan**

Manager of the Instrument Systems Section at NASA’s Jet Propulsion Laboratory where she is also a principal research scientist.

Topic : **“How NISAR will transform our Understanding of Earthquake Faults Worldwide”**



-
- **10:00 am - 04:00 pm:**
Interaction with ISRO scientists



Speaker: **Dr. Suresh Babu, VSSC**

Topic : **Space science and Applications**





Speaker: **Dr. Shaneeth M, VSSC**

Topic : **Energy Systems for Space Applications**



Speaker: **Shri. Sheeju Chandran, VSSC**

Topic : **Introduction to Launch Vehicles and Satellites**



Speaker: **Shri. Jaison Joseph, VSSC**

Leading the interactive section along with other speakers



-
- **06:00 pm: Talking About The Weather And Other Stories: Storytelling As Collective Thinking About Climate Change (Public Lecture)**

Speaker: Prof. **Michael Wilson**

Prof. Michael Wilson is Professor of Drama and Head of Creative Arts at Loughborough University, where he is also Director of the Storytelling Academy, a research and teaching collective in Applied Storytelling.



Jan

24



- **10:00 am: Kerala Diaspora Talk Series**

Speaker: Dr. **Jobin Varghese**

Dr. Jobin Varghese is currently working as a scientist at Fraunhofer IKTS, Germany. He has over 9 years experience in materials science & technology, specializing in electroceramics such as HTCC, LTCC, Polymer ceramic composites and dielectric inks.

Title: **Forging a Sustainable path in Electronics manufacturing through advanced practices**

Jan

25



- **05:00 pm: Public Talk**

Speaker: Dr. **Rajendra Singh**

Conservationist and Environmentalist

Rajendra Singh is an Indian water conservationist and environmentalist from Alwar district, Rajasthan in India. Also known as "waterman of India", he won the Magsaysay Award in 2001 and Stockholm Water Prize in 2015. He runs an NGO called 'Tarun Bharat Sangh' (TBS), which was founded in 1975.

Jan

27

- **10:00 am - 04:00 pm: IISER-GSFK Conference**

Prof. Madhavan Nair Rajeevan

FNASc, FASc, FNA

Former Secretary of Ministry of Earth Sciences, Distinguished Scientist, MoES





Prof. D. D. Sarma

FNASc, FNA, FTWAS, FNAE

Indian Institute of Science, Bangalore



Prof. P. S. Anil Kumar

Professor in Physics and Dean, Indian Institute of Science, Bangalore



Prof. Anil Shaji

Professor in Physics, IISER Thiruvananthapuram



- **05:00 pm: Maximising The Potential Of Innovation: Connecting Conceptualisation To The Real-World Impact (Kerala Diaspora Talk Series)**

Speaker: Dr. **Suresh C. Pillai**

Director, Health & Biomedical Centre (HEAL)

Head, Nanotechnology and Bio-Engineering Research Group, Atlantic Technological University, Ireland.



Jan
28



- **10:00 am - 07:00 pm: Amuseum Talks**

Curated by Dr. **Jijo P. Ulahannan**

Amuseum Talks: Curated talk series featuring prominent experts from various fields. Curated by Dr. Jijo Ulahannan, TED Fellow and Associate professor of Physics, Government College, Kasargod

The Evolution of Science



Speaker: **Prof. Annapurni Subramaniam**

Prof. (Dr.) Annapurni Subramaniam, Director & Senior Professor, Indian Institute of Astrophysics

“A story to inspire more women to take up science.”



Speaker: **Prof. Raghavendra Gadagkar**

Year of Science Chair Professor at the Centre for Ecological Sciences, Indian Institute of Science, Honorary Professor, Jawaharlal Nehru Centre for Advanced Scientific Research, Honorary Professor, Indian Institute of Science Education and Research, Mohali, and Senior Fellow, Zukunftskolleg, University of Konstanz, Germany.

“What Can We Learn from Insect Societies?”



Speaker: **Dr. Jahnavi Phalkey**

Dr. Jahnavi Phalkey is the Founding Director of Science Gallery Bengaluru. A documentary filmmaker and historian of science and technology formerly based at King's College London, she is the author of Atomic State: Big Science in Twentieth-Century India, and has directed the documentary film Cyclotron.

“Public Engagement and the History of Science”





Speaker: **C. S. Meenakshi**

Executive Engineer (Retired), LSGD, Kerala. Award-winning popular science writer, and independent researcher on cartography

“The Quest About the Quest”



Speaker: **Dr. Sundar Sarukkai**

Founder of the Barefoot Philosophers initiative. His works primarily in the realm of natural and social sciences philosophy.

“The Mystery of Mathematics in the Sciences”

Knowledge and Wisdom



Speaker: **Prof. Partha Pratim Majumder**

Distinguished Professor, National Institute of Biomedical Genomics

“Genes and cancer”



Speaker: **Dr. Rajeev Raghavan**

Faculty at Kerala University of Fisheries and Ocean Studies | South Asia Chair, IUCN Freshwater Fish Specialist Group | Winner of the Fisheries Society of British Isles (FSBI) Medal 2023.

“Mysteries from the Depths: Exploring the Hidden World of Subterranean Fishes”





Speaker: **Vaibhav Kumar**

Co-Anchor, Co-Founder and Executive Director of SwaTaleem Foundation

“Mai Bhi Curie: A Science Initiative for Gender Equity”



Speaker: **Dr. Mrudula G.**

Mrudula is a Senior principal Scientist in the Centre for Electromagnetics of the CSIR-National Aerospace Laboratories (CSIR-NAL).

“Weather and Aviation: The Inseparable Friends”

Science and Creativity



Speaker: **Dr. V. Ramankutty**

Epidemiologist and Public Health specialist, with research interests in non-communicable diseases and health policy | A keen student of data science and AI

“There is Life in Numbers”



Speaker: **Ethiran Kathiravan**

Senior Scientist (Retd.) University of Chicago, United States of America | Ardent writer on popular science, film music, cinema, music and dance.

“Brain and Beliefs”





Speaker: **Prof. Ganesh Bagler**

Prof. Bagler is well-known for his pioneering research in 'Computational Gastronomy.' By building keystone data repositories, algorithms, and applications, he has established the foundations of this emerging data science that blends food with artificial intelligence.

"Blending Food with Artificial Intelligence"

Looking Forward



Speaker: **Prof. Parameswaran Ajith**

Physicist/astrophysicist at the International Center for Theoretical Sciences (ICTS), Bengaluru | Member of the LIGO Scientific Collaboration | Contributed to deciphering the recent LIGO discovery of gravitational waves

"Crisis in Cosmology"



Speaker: **Dr. Rohit Ramakrishnan**

Postdoctoral Researcher at the Centre for High Energy Physics, Indian Institute of Science, Bangalore, with expertise in Quantum Computing and AI, and contributor to both academic and popular discussions in physics and technology.

"Quantum Internet: The Internet of the Future"



Speaker: **Prof. Felix Bast**

Phycologist, Author, and Public Educator | Professor, Department of Botany, Central University of Punjab | Expedition Scientist for Indian Antarctic Mission | Renowned algal taxonomist having discovered several new species from India and Antarctica.

"Saving Antarctica: Lifestyle Changes for a Sustainable Future"





Speaker: **Prof. M. M. Shaijumon**

Professor, School of Physics, Indian Institute of Science Education & Research
Thiruvananthapuram | Co-Inventor of 'paper battery', a flexible nanocomposite-based energy
device

“Building Better Batteries for Clean Energy Future”



Speaker: **Dr. Rakhi R. B.**

Principal Scientist in the Centre for Sustainable Energy Technologies, CSIR-NIIST | Winner of
Ramanujan Fellowship and International SABIC Postdoctoral Fellowship at KAUST, KSA |
Named in the compendium on 'CSIR Women Achievers in STEM' 2023 | Working on
nanostructured materials for electrochemical devices

“Supercapacitors: Powering the Future Beyond Batteries”

Jan
29



- **05:00 pm: Public Talk**

Speaker: Dr. **Malini V. Shankar IAS** (Retd.)
Vice Chancellor, Indian Maritime University

Dr. Malini V. Shankar was the Chairperson of the National Shipping Board
(Government of India) and a Member of the Government-appointed Board of
Directors of the IL & FS group of companies. Dr. Shankar was nominated by the IMO
as an Honorary Member of the Board of Directors of the World Maritime University.



Jan
30



- **11:00 am: Kerala Diaspora Talk Series**

Speaker: Dr. **Rajeev Pattathil**

Prof. Rajeev Pattathil is the head of Novel Accelerator Science and Applications at Rutherford Appleton Laboratory, UK. His research interests span various areas of light-matter interactions with a focus on laser-driven plasma accelerators.

Title: **Taare Zameen Par: A brief, yet Intense affair with light**



- **05:00 pm: Public talk**

Speaker: Dr. **Khader vali**

Dr. Khader Vali is an independent forest agricultural scientist and food expert known as the millet man of India. He was awarded Padma Shri, the fourth highest civilian award by Government of India during 2023 and the same was handed over to him by President of India on 5 April 2023.

Title: **The Icon behind Decoding Millets**

Jan
31

11:00 am: Conference conducted by Alliance Française

Theme : **Sustainability and Climate Change**

Speakers:

CMA Nayar

Dr Subash Chandra

Prof. Achuthshankar

Dr. KV Thomas

Dr. Shalini



Feb

02



- **04:00 pm: EduTech Conclave**

Paradigm Shift in Engineering Education for Sustainable Knowledge Development

Prof. **K. N. Satyanarayana**, Director, IIT Tirupati

Prof. **A. Seshadri Sekhar**, Director, IIT Palakkad

Prof. **Venkappayya R. Desai**, Director, IIT Dharward

Prof. **Laxmidhar Behera**, Director, IIT Mandi

Prof. **Shreepad Karmalkar**, Director, IIT Bhubaneswar

Feb

03

- **10:00 am - 04:00 pm: IISER-GSFK Conference**



Prof. P. Balaram

FASc, FNA, FTWAS

DST Year of Science Chair Professor at NCBS and Former Director, IISc Bangalore

Topic : **“The Origins of Life: The Evolution of Biochemistry and the Birth of Biology”**



Prof. S. Sivaram

FASc, FNASc, FNA, FTWAS

INSA Emeritus Scientist and Honorary Professor, IISER Pune

Topic : **“The Role of Chemistry in the Quest of a Sustainable Planet”**



Prof. G. U. Kulkarni

FNASc, FASc, FNA

JC Bose National Fellow and President, JNCASR, Bangalore

Topic : **“Neuromorphic Devices for AI”**



Prof. K. Srihari

Professor, Department of Chemistry, IIT Kanpur

Topic : **“Transition States and Reaction Mechanisms: New thoughts on old paradigms”**



Prof. K. M. Sureshan

FASc

JC Bose National Fellow School of Chemistry, IISER Thiruvananthapuram

Topic : **“A Click that Clicked Well”**



• 05:30 pm: Public talk

Speaker: Shri. **Kamal Kishore**

Shri. Kamal Kishore has worked on disaster risk reduction and recovery issues for over 22 years at the local, national, regional and global levels. Prior to joining the National Disaster Management Authority, he worked with the United Nations Development Programme (UNDP) for nearly 13 years in New Delhi, Geneva and New York.

Topic : **“Disaster management measures in india”**



Feb

04

- **10:00 am - 04:00 pm: Programmes conducted by Breakthrough Science Society**

Workshop for science teachers of high schools / higher secondary schools:
"Implementing Scientific Methods in Teaching Science"

Speakers:

Prof. Umesh R Kadhane, IIST Trivandrum
Prof. Kana M Sureshan, IISER Trivandrum



- **05:00 pm: Public talk**

Speaker: Smt. **Nandita Das**

Nandita Das has acted in 40 films in 10 languages. She has garnered much critical acclaim for directing Firaq (2008), Manto (2018) and Zwigato (2023). She has a master's degree in Social Work and continues to be a social advocate for issues of human rights and social justice through her featured talk and her film work.

Feb

05

- **10:00 am - 05:00 pm: Talk series in Geosciences**

This two-day talk series in Geosciences will feature 11 renowned experts from various geoscience disciplines, sharing their knowledge, insights, and experiences with the audience. Dr. K.V. Thomas, former Scientist G & Group Head at NCESS, Thiruvananthapuram, and former Dean at Kerala University of Fisheries and Ocean Studies, Kochi, is coordinating the series.



Speaker: **Dr. Kusala Rajendran**

Dr. Kusala Rajendran is an Indian seismologist and an Honorary Professor at IISc-ISRO Centre of Excellence in Advanced Mechanics of Material, Indian Institute of Science. She was a Professor at Centre for Earth Sciences at the Indian Institute of Science, Bangalore. She has primarily worked on earthquakes and their source mechanisms. She has worked extensively on earthquake patterns in India and is considered to be one of the pioneers in this field.

Topic: **"On being a geophysicist: An exciting journey to faraway lands"**





Speaker: **Dr. Tomson J. Kallukalam**

Dr. Tomson J K has a doctorate in Geology with specialization in Geochemistry/Isotope geochemistry. He is currently working as a Scientist & Group Head at Solid Earth Research Group (SERG) ,NCESS. His research interests are in petrology, major and trace element geochemistry and tectonics of Precambrian high-grade terrains, Isotope geochemical studies, in-situ U-Pb zircon geochronology of Archaean and Proterozoic terrains of South India and Analytical techniques involving ICPMS, LA-ICPMS & LA-MC-ICPMS.

Topic : **“Timekeepers in Earth Science”**



Speaker: **Dr. D. S. Suresh Babu**

Dr. D. S. Suresh Babu is a former Scientist F, Marine Geosciences Group & Head, DTC,National Centre for Earth Science Studies (NCESS). He had carried out successfully 25 R&D and Consultancy projects funded by various state, central and international (TWAS, Italy and DST-ILTP with Russia) government agencies in the fields of beach placer minerals, water resources and coastal zone management.

Topic : **“Submarine Groundwater Discharge in Indian Perspective”**



Speaker: **Dr. Shaji E**

Prof. SHAJI E. is currently working as a Professor & Head in the DEPT. OF GEOLOGY, UNIVERSITY OF KERALA. Prior to the University service he worked as a professional hydrogeologist (Scientist D) in Central Ground Water Board, Ministry of Water Resources, Govt of India. He has 25 years of professional/ industry/teaching experience in Geosciences with focus on groundwater, water resource management, and medical geology.

Topic : **“Aquifers and groundwater resources of Kerala- challenges and prospects”**



Speaker: **Dr. P S Sunil**

Dr. P.S. Sunil currently serves as an Associate Professor,Chairman, Board of Studies in the Department of Marine Geology & Geophysics, Cochin University of Science and Technology (CUSAT).He is a recipient of JSPS Exchange Program Fellowship by Kyoto University, JAPAN and BOYSCAST Fellowship by Department of Science and Technology, Government of India. As part of his research activities, he has been a member of Indian Antarctic Scientific Expedition twice during 2003 & 2005 and Indian Arctic Scientific Expedition four times consecutively during 2013 to 2016.

Topic : **“Indian Travelogue from Equator to Polar Regions: Research Perspectives, Programs, Achievements and Way Forward”**



- **10:00 am - 05:00 pm: Talk series in Geosciences**



Speaker: **Dr. C. P. Rajendran**

Dr. C. P. Rajendran is an adjunct professor at the National Institute of Advanced Studies, Bengaluru, and a director of the Consortium of Sustainable Development (CSP), based out of Connecticut, USA. A prominent geoscientist of India with an international reputation, CP is recognized for his wide range across geological and environmental sciences.

Topic : **“Climate change adaptation strategies for potential changes in land and living environment.”**



Speaker: **Dr. Sachidanand Sinha**

Dr. Sachidanand Sinha is a former Professor of Geography & Regional Development Planning Centre for the Study of Regional Development, Jawaharlal Nehru University, New Delhi. He is currently a visiting Professor at IMPRI New Delhi.

Topic : **“Changing Paradigms and Challenges in Human Geography: Towards a Knowledge Society”**



Speakers: Shri. **P. Praveen Kumar**, Shri. **A. C. Dinesh**

Shri. P. Praveen Kumar is the director Geo Marine Solutions Pvt Ltd, MoM approved Private Exploration Agency, and former Director-Marine & Coastal Surveys ,GSI.

Shri. A. C. Dinesh is currently working as CTO, Geo Marine Solutions Pvt. Ltd., engaged in planning and coordinating offshore and onshore mineral exploration programs in India and abroad. He is a former Director of Geological Survey of India.

Topic : **“Marine Sand: Fallacies and Realities”**





Speaker: **Dr. Sajin Kumar K.S**

Dr. Sajin Kumar K.S. is an Assistant Professor in Geology, University of Kerala. He completed PhD in 2005 from IIT Bombay ('Geoinformatics in landslide risk assessment and management in parts of Western Ghats, Central Kerala, India'). He joined Geological Survey of India, worked in engineering geology projects and did landslide studies in Himalaya and Western Ghats. He is also an Adjunct Assistant Professor in the Department of Geological and Mining Engineering and Sciences, Michigan Technological University, USA.

Topic : **“The Earth: Its journey through space and time”**



Speaker: **Dr. Sreekumar S.**

Dr.S.Sreekumar, currently works as disaster risk reduction expert in Kerala institute of local administration, kila, thrissur. He was the faculty in the Department of Geology and environmental sciences, Christ college, affiliated to University of Calicut. He was the director of Integrated Rural Technology Centre, Palakkad from 2018-2021. He is the member of advisory committee on landslides, KSDMA. His area of interests include environment and related studies and he had been a resource person (UNDP-GOI) and coordinator for disaster management (UGC) in the past.

Topic : **“Hill slope failures in Kerala: Theory and practice”**



Speakers: **Dr. Anil Kumar Y**

Dr. Anil Kumar holds a Ph.D from IIT Bombay in Metamorphic Petrology on the topic entitled Metamorphic Evolution of Ultrahigh-temperature Granulites around Karur, Tamil Nadu. He has worked for six and a half years (since 2010) as Geologist/Senior Geologist in the Geological Survey of India.

Topic : **“Geochemistry: A tool to decipher the earth’s tectonic processes”**



Feb
07



- **10:00 am: Public Talk**

Speaker: Prof. **Morten P. Meldal** (Nobel Laureate)

Prof. Morten P. Meldal is a Danish chemist and Nobel laureate who was awarded the 2022 Nobel Prize in Chemistry, jointly with Carolyn R. Bertozzi and Karl Barry Sharpless, "for the development of click chemistry and bioorthogonal chemistry". He is a professor of chemistry at the University of Copenhagen Denmark.

Feb
08

- **10:00 am - 04:00 pm: Science Communication**

One-day Workshop in collaboration with
Kerala Media Academy

Feb
09

- **10:00 am - 04:00 pm: IISER-GSFK Conference**

Subject: **BIOLOGY**

Feb
10

- **10:00 am - 04:00 pm: IISER-GSFK Conference**

Subject: **MATHEMATICS**



Feb

11

- **10:00 am - 05:00 pm: Citizen Science Congress**
Session I: Case studies of citizen science initiatives

Kerala Bird Atlas

Kerala Bird Atlas (KBA) was an ambitious citizen science project to map the distribution and abundance of birds in an entire Indian state for the first time.

Community weather monitoring system, Hume Centre

The community weather monitoring system in Wayanad with a set a model in localised weather forecast, especially for the farming community.

iNaturalist, citizen biodiversity monitoring platform

The iNaturalist platform is based on crowdsourcing of observations and identifications. An iNaturalist observation records a person's encounter with an individual organism at a particular time and place. An iNaturalist observation may also record evidence of an organism, such as animal tracks, nests, or scat.

SeasonWatch, Season AI monitoring of trees

SeasonWatch is an India-wide citizen science project following the patterns of emergence and maturation of leaves, flowers and fruits ("phenology") on common tree species of India.

Elevating Geographic insights : Harnessing Citizen Science Through OpenStreetMaps

OpenStreetMap(OSM) Kerala

OSM Kerala is a passionate group of individuals who share a deep love for maps and are committed to keeping geospatial data open and accessible. Their involvement with OpenStreetMap (OSM) in India began in earnest in 2007. Over the past 13 years, the OSM Kerala Community has played a pivotal role in promoting and enhancing OSM data in the region.

Meenachil River - Rain Monitoring (MRRM)

The rain-river monitoring initiative that was begun in the Save Meenachilar WhatsApp group during the 2018 flood has been grown into MRRM process in 2021.MRRM has Support from institutions like Institute of Tropical Meteorology (IITM Pune), Environment Science Department Thiruvananthapuram, Saintgits Engineering College Pathamuttom and Thopps Technologies.



Citizen Science Initiative Analyzing Galactic Data on the Zooniverse Platform

(Zooniverse, a citizen science portal initiated by the Citizen Science Alliance, serves as a collaborative platform where various research projects leverage public participation to complete tasks requiring human intervention).

Session II - Panel Discussion on Prospects and Possibilities of citizen science in India

Speakers: Dr. K.H. Amitabh Bachan

Assi. Prof & Research Guide, Research Department
of Botany, MES Asmabi College, Kodungallur

Dr. Anson CJ

Assistant Professor
Inter University Centre for IPR Studies
Cochin University of Science and Technology, Kochi.

Praveen J

Scientist, Nature Conservation Foundation

Dr. Vijay Kumar

Former Head of Department of Community Medicine, MCH, Thiruvananthapuram.

M P Shajan

Coordinator
Community Resource Centre, Puthenvelikkara

Feb

12

- One day program conducted by
Kerala Sasthra Sahithya Parishad

Venue 1: **GSFK Pavilion Complex**

Venue 2: **Virology Institute Auditorium**

GSFK Luca Evolution Quiz - State Level Finals



10:00 am - 04:00 pm: National Seminar

Seminar Theme: **Science and Technology Policy for India - A Way Forward**

Moderator: Jiju P Alex, Member, Planning Board of Kerala

- **Science and Technology in India Today: Inaugural Presentation - Prof. Sandhya P. Koushika** DBS-TIFR, Mumbai, India (30 mins)
- **S&T in India's Yesterdays - Dr. T. V. Venkateshwaran**, Former Scientist, Vigyan Prasar (40 mins)
- **The Present Status of Science in India: A Global Perspective - Dr. Rethesh Krishnan**, The Editor, Sasthragathy (30 mins)
- **Indian Scientific Community: The Challenges Ahead - Dr. K.N. Ganesh**, Former President, KSSP (30 mins)
- **S&T in India: The Way Forward - A PSM Perspective - Dr. Sabyasachi Chatterjee**, Former President, AIPSN (40 mins)

Special Session: Kerala Science Scenario

Moderator: Dr. R. Ajayakumar Varma, Chairman, State Environmental Appraisal Committee, Kerala

- **An Overview of S&T Institutions of Kerala - M.C. Dathan**, Scientific Advisor to the Chief Minister of Kerala (30 mins)
- **S&T of Kerala: Towards a Knowledge Society - Dr. K.J. Joseph**, Director, GIFT (40 mins)
- **Responses from Research Scholars (60 mins)**

04:00 pm - 05:00 pm: People's Science Movements in India

05:00 pm - 06:00 pm: Parishath@60: 60 years of KSSP in Kerala Society a Fusion of Audio Visual & Art Presentation.



09:00 pm - 09:30 pm: She Archives: A malayalam drama on the issues of working women in our patriarchal society and about the rights and plights of the **LGBTQIA+** community.

Script: **Sajitha Madathil**

Director: **Arunlal**



- One day program conducted by **CSIR-NIIST**



Night Skywatch and Tenting

in collaboration with Kerala State Science &
Technology Museum & Priyadarshini Planetarium

January 2024

20th, 21st, 23rd, 27th, 28th, 30th

February 2024

3rd, 4th, 6th, 10th, 11th, 13th

Tuesdays, Saturdays and Sundays, 6 pm to 12 am





**Cultural
Programmes
and Events**



Jan
15

Cultural Programme
Artists:
**M.G. Sreekumar,
Mridula Warriar,
Rahman, Anju Joseph**



Jan
21

Cultural Programme
Artist:
Stephen Devassy



Jan
27

Cultural Programme
Artist:
Asha Sharath



Jan
30

Cultural Programme
Artist:
Navya Nair



Feb
03

Cultural Programme
Artist:
**Meera Nair
& V Company
Dance Studio**



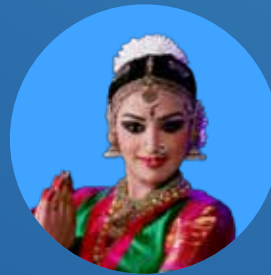
Feb
07

Cultural Programme
Artist:
Dr. Methil Devika



Feb
08

Cultural Programme
By
Regatta



Feb
09

Cultural Programme
Artist:
Mahalakshmi



Feb
10

Cultural Programme
Band Show by
**Sitara's
Project Malabaricus**



Feb
11

Cultural Programme
Artists:
**Roopa Ravindran
& Paris Laxmi**



Feb
14

Cultural Programme
Band Show by
Oorali

15th January 2024

- Musical Programme

Artists: **M G Sreekumar, Mridula Warriar, Rahman, Anju Joseph**

21st January 2024

- Cultural Programme
by **Stephen Devassy**

27th January 2024

- Cultural Programme
Artist: Ms. **Asha Sharath**

30th January 2024

- Cultural Programme
Artist: Ms. **Navya Nair**

3rd February 2024

- Cultural Programme
Artist: Ms. **Meera Nair & V Company Dance Studio**



7th February 2024

- Cultural Programme
Artist: Ms. **Methil Devika**

8th February 2024

- Cultural Programme
Artists : **Regatta**

9th February 2024

- Cultural Programme
Artist: Ms. **Mahalakshmi**

10th February 2024

- Cultural Programme
Artist: Ms. **Sitara's Project Malabaricus**



11th February

2024

- Cultural Programme

Artist: Ms. **Roopa Ravindran** & Ms. **Paris Laxmi**

14th February

2024

- Cultural Programme

Band Show by **Oorali**

15th February

2024

- **Closing Ceremony**





Frequently asked Questions

- *What is the Global Science Festival Kerala (GSFK), 2024?*

The Global Science Festival Kerala (GSFK) is a celebration of science. It is a uniquely crafted event, artistically designed and thematically curated to offer an immersive experience in the world of science. This festival is the culmination of the collaborative efforts of over 200 scientists, artists, and engineers, all coming together to build this event from the ground up. At its heart, GSFK is a celebration of science, where world-renowned scientists and artists gather to share their knowledge and passion. It's an opportunity for attendees to engage with the wonders of science in a setting that blends scientific rigour with artistic creativity, making it a truly one-of-a-kind experience. The first edition of GSFK focuses on Life Sciences.

- *What is unique about GSFK?*

Global Science Festival Kerala is unique in its approach of blending science and art. It is carefully curated based on a theme, and each and every part of it is artistically designed. Even while using cutting-edge technology, GSFK is not a technology exhibition. It uses technology as a means to communicate the beauty and philosophy of science.

- *Why GSFK?*

The Global Science Festival Kerala tries to foster a knowledge society. It aims to promote scientific reasoning and propagate the core values of science — its philosophy, methodology, and objectivity. By attending GSFK, participants get a unique opportunity to experience the beauty and intricacies of science firsthand.

- *When and Where is GSFK held?*

The Global Science Festival Kerala is scheduled to take place from 15th January 2024 to 15th February 2024. The venue is the Bio 360 Life Sciences Park, located in Thonnakkal, Thiruvananthapuram, Kerala.

- *What are the festival entry timings?*

9:00 am to 10:00 pm. Festival closes at 12:30 am everyday.

- *Who is the Global Science Festival Kerala (GSFK) intended for?*

GSFK is designed for a diverse audience, including festival attendees, art lovers, night sky watchers, science enthusiasts, professional scientists, students, and anyone else looking forward to an enjoyable and enriching experience. The festival caters to a wide range of interests and backgrounds, making it a perfect destination for anyone keen on exploring the fascinating world of science and art.



- *What are the events associated with the Global Science Festival Kerala?*

GSKF 2024 is packed with a range of events and activities:

(i) Curated Science Exhibition: An all-month-long exhibition over 20+ acres, featuring artistically designed displays and world-renowned art installations like the Museum of the Moon & Mars, Universe Walk-in, Life-size T-Rex fossil, Foucault's Pendulum, Darwin's ship HMS Beagle, and AR/VR experiences.

(ii) Public Talks: Sessions by notable figures including Nobel Prize winner Professor Morten P. Meldal, NASA's Dr. Madhulika Guhathakurta, and Professor Robert Potts, among others, at the festival venue and selected Kerala institutions.

(iii) Night Sky Watching: An overnight experience at the festival, observing the night sky through telescopes.

(iv) Industrial Pavilions: Exhibition spaces for renowned companies and organizations to showcase their innovations and success stories.

(v) Marine Show: An enchanting aquatic show at the festival venue.
Cultural Programmes: Performances by internationally recognized artists at the festival.

(vi) Doll Museum: A delightful exhibit by the Kerala State Council for Child Welfare, suitable for all ages.

(vii) Climate Change Photo Exhibition: A thought-provoking exhibition by Alliance Française, focusing on the effects of climate change.

(viii) Sci-Fi Film Festival: In collaboration with the Kerala State Chalachithra Academy, featuring a range of science fiction films.

(ix) Outreach: Pre-festival programs across Kerala, spreading scientific awareness and hosting educational lectures and activities in various institutions.

- *How long does it take to experience the festival?*

To experience the festival at its fullest, attendees have to be prepared to spend at least 8-9 hours at the venue. The recommended way to attend GSKF is to get a two day ticket.

- *What is the nearest railway station and how far away is it from the venue?*

Chirayinkeezhu Railway station, 8.9 km
Trivandrum Central Railway Station, 24.3 km

- *What is the nearest bus stop and how far away is it from the venue?*

Attingal Bus Stop, 8.7 km



- *Is GSFK open to the public?*

Yes, GSFK is a ticketed event open to the public.

- *How can I participate in GSFK?*

You can participate by booking your tickets through GSFK's official website or directly at the venue, or Amuseum office.

- *What is the cost of tickets for GSFK?*

The entry fee varies based on different categories. See the tariff for detailed information.

- *Where can I book the tickets?*

Visit www.gsfk.org or scan the code on the 'Ticket Tariff' page.

- *Where can I get updates on GSFK?*

Check the official website of GSFK, <https://www.gsfk.org/> or follow GSFK's official social media handles for the latest updates on the festival.
Social Media Pages Link: <https://linktr.ee/gsfk>

- *Do kids require a ticket?*

Children below the age of 10 do not require a ticket.

- *Is there any concession available?*

Yes. School students who come in groups from their institutions (minimum of 30 students) are eligible for entry fee concessions. Entry to Differently Abled persons is free of cost.

- *Can ticket category option be changed?*

Once payment is made, no option could be changed or cancelled.



- *What items are prohibited inside the exhibition?*

Explosive items and weapons not allowed.

Banned or prohibited drugs not allowed (Please note: Substance Abusers not allowed. If by any chance, any commotion is created, you shall be exempted or dismissed from the festival venue).

Outside food not allowed.

Plastic covers/carry bags not allowed.

Kids under 10 years should be accompanied with at least one care-taker.

People with physical disability should be accompanied with at least one care-taker.

- *Does student package include plus one and plus two students?*

Student package is applicable for up to plus two level grade students.

- *What is the nearest Airport and how far away is it from the venue?*

Thiruvananthapuram International Airport, 25 km.

- *Are there washroom and toilet facilities available inside the venue?*

Yes. There are proper toilet and washroom facilities provided within the exhibition venue.

- *What is the total Area of the exhibition venue*

20 acres of land has been utilised for conducting the main exhibition.

- *Are there parking facilities provided for the vehicles?*

Yes. There are valet parking facilities provided for both 2-wheelers and 4-wheelers.

- Capacity for 2-wheeler parking : 300
- Capacity for 4-wheeler Parking : 1000
- Capacity for bus-parking : 70





Ticket Tariff

Scan to book tickets



Category	Single Day	Two Day
For Adults/Attendees above the age of 18	INR 250/-	INR 400/-
For Children below the age of 18 and above 10	INR 150/-	INR 250/-
For children below the age of 10 (Not Applicable for Schools)	Free	Free
Students entering as a group from school with 2 faculty members of the school (not less than 30 students)	Without food, INR 100/-	NA
	With lunch, INR 200/-	NA
	Fresh-Up facility; Breakfast, Lunch and evening tea INR 400/-	NA
Package : Class A (One night stay)	NA	Class A - 3 star hotel accommodation with Breakfast, Lunch and Dinner included + add on packages
		Option 1. Per person INR 6,500/-
Option 2. Family of 4 (2 adults, 2 kids) - INR 11,500/-		
Package : Class B (One night stay)		Class B - 'Home stay' accommodation with Breakfast, Lunch and Dinner included + add on packages
	Option 1. Per person INR 4000/-	
Option 2. Family of 4 (2 adults, 2 kids) - INR 10,000/-		
'Gift a Ticket' Fresh-Up facility; Breakfast, Lunch and evening tea	INR 750/-	NA
Add on packages		
Show	Rs.	
VR experience	50/-	
War	50/-	
Additional events/bookings we have :		
Tenting and skywatching event (4 persons per tent)	10,000/-	Including food, two day exhibition ticket and add on packages.
Tenting and skywatching event (2 persons per tent)	7,500/-	Including food, two day exhibition ticket and add on packages
AMUSEUM Talk (per head)	1,500/-	Lunch + refreshments + one day exhibition ticket free
IISER Conference	1,000/-	Lunch + refreshments

* Please make sure that you select the ticket category of your preference carefully before the payment step.

* There is no ticket cancellation & refund available.

* For customised ticketing services, contact Ms. Dhanya (Ph: +9162380 82976) or Ms. Shibi (Ph: +9162822 53084).

* For hospitality services, contact Mr. Shyam V. S. (Ph: +9194475 89773).

* Packages that include food and accomodation must be booked two days in advance.

Organisers & Collaborators

The Global Science Festival Kerala is a collaborative initiative organized by the **Department of Science and Technology (Government of Kerala)**, the **Kerala State Council for Science, Technology & Environment**, and **Amuseum ArtScience**.



Department of Science
and Technology
Govt. of Kerala



Kerala State Council for
Science, Technology &
Environment

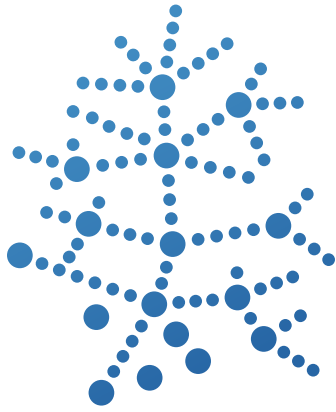
The Kerala State Council for Science, Technology and Environment (KSCSTE) is an autonomous body under the Ministry of S&T, Kerala, constituted in November 2002 to be an agency for change and development through Science and Technology. The council promotes and activates programmes for increasing the stock of knowledge in science, and fine tunes policies which are significant and for the sustained development of humanity. This has been achieved through various schemes and programs and by the R &D organisations established by the council.

AMUSEUM

Amuseum ArtScience
Thiruvananthapuram

'Amuseum ArtScience' is a new age concept foundation of independent intellectuals, artists, scientists and cultural enthusiasts. It aims to create a knowledge pool based on the convergence of art and science to build an ever growing cultural archive of creativity. It carries out activities that provide space, opportunities and support to Art and Science Projects. Amuseum collaborate with voluntary agencies, non-governmental organizations both national and international, and Government for enhancing the interaction of artistic and scientific activities with the public.





Department of Science and Technology Govt. of Kerala



Kerala State Council for Science, Technology & Environment

AMUSEUM

Amuseum ArtScience Thiruvananthapuram



Visvesvaraya Industrial & Technological Museum



United States Consulate General Chennai



British Council



Consulate General of the Federal Republic of Germany Bengaluru



Alliance Française Trivandrum



APJ Abdul Kalam Technological University



Indian Institute of Science Education and Research Thiruvananthapuram



CSIR India



National Institute for Interdisciplinary Science and Technology



Kerala State Industrial Development Corporation



Cochin International Airport Limited



Indian Oil



Indian Space Research Organisation



Kerala Startup Mission



Kerala IT



Technopark Thiruvananthapuram



Infopark Kochi



Cyberpark



Government Medical College Trivandrum



Government Medical College, Parippally



Institute of Advanced Virology Government of Kerala



Digital University Kerala



Cochin University of Science and Technology



Kerala State Youth Welfare Board



Corporation of Thiruvananthapuram



Thiruvananthapuram District Panchayath



Kerala State Council for Child Welfare



Kerala State Science and Technology Museum



Kerala State Higher Education Council



Kerala Sastra Sahithya Parishad



Bio 360 Life Sciences Park



Axomedia



Banking Partner

Supported by



Kite Victors



Treistel



Studio Recycle Bin



Sreenethra Eye Hospital



Amateur Astronomers Organisation



Public Works Department



Kerala Water Authority



Kerala State Electricity Board



Kerala Suchitwa Mission



Kerala State Pollution Control Board



Kerala Police



National Cadet Corps



National Service Scheme



Kerala Fire and Rescue Service



Student Police Cadet



Kerala Tourism Department



Kerala Tourism Infrastructure Ltd



Kochi Water Metro



Vizinjam International Seaport Thiruvananthapuram



National Centre for Earth Science Studies Thiruvananthapuram



Chintha Publications



D C Books



Mathrubhumi Books



Kerala Police Cyber Dome



Kerala State Organ and Tissue Transplant Organisation



Meghadoot



ICT Academy Kerala



NADI Foundation



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