**SOUVENIR**: A souvenir consisting of abstracts of the scientific papers/posters, advertisements and general information will be published on the / occasion of the conference. The organizing committee requests all the well-wishers/participants to render their fullest support by way of providing advertisements, scientific inputs, etc. in the souvenir. **ADVERTISEMENT CHARGES:** Tariffs for advertisements in the Souvenir are given below

· Rs 1 00 000 Inside Covers · Rs 50 000 Back cover Full page (B&W) Full page colour : Rs. 25.000 : Rs. 20,000 SPONSORSHIPS: Sponsorships are solicited from well-wishers for organizing the conference as

per details given below:

CATEGORY	FEES	FACILITIES
Platinum	Rs. 5 Lakhs	5 Free delegates, slot for 30 min. oral presentation,
		1 full page colour advertisement, display of logo at the
		venue & exhibition space 3m x 3m
Diamond	Rs. 3 Lakhs	4 Free delegates, slot for 20 min. oral presentation,
		1 full page colour advert. & display of logo at the venue
Gold	Rs. 2 Lakhs	3 Free delegates, slot for 15 min. oral presentation,
		1 full page colour advert & display of logo at the venue
Silver	Rs. 1 Lakh	2 Free delegates, slot for 10 min. oral presentation,
		1 full page colour advert. & display of logo at the venue

EXHIBITION: It has been decided to organize an exhibition of analytical instruments, equipment machinery, books, etc., in connection with the conference. This will provide an excellent opportunity to the participating organizations to display their products for delegates and discuss with experts on the future business scope. Stalls of size 3 x 3 meter shall be provided against payment of Rs. 75,000. ACCOMMODATION: Organizers have reserved limited number of rooms at hotels at and near the conference venue for the participants during the conference period at special discount rates. Hotel assignment will be made on a first-come, first-served basis. Participants are free to arrange accommodation at their own cost. Munnar has a wide choice of good hotels with a wide tariff range. For student-participants, budgeted accommodation can be provided upon request and the same will be confirmed only on receipt of the accommodation charges. Organizing committee can assist the participants to reserve their accommodation. They may contact the convener for assistance.

**REACHING MUNNAR**: Munnar doesn't have an airport or railway station. The nearest Airport to Munnar is at Cochin. The nearest railway station to Munnar is Aluva / Ernakulam at Cochin. Munnar is connected by frequent bus service from/to Aluva /Ernakulam / Cochin and most of the towns in Kerala. It can also be reached by road from Madurai (6 hours) and Coimbatore (6hours) which are located in the state of Tamil Nadu.

ABOUT MUNNAR: Munnar, one of the most beautiful hill stations in India, is situated 135 KM east of Cochin. This is the highest hill station in the breathtakingly scenic and prosperous state of Kerala, hailed as , "God's Own Country". Informally Kerala is rated in the top three tourist destinations in the world by the World Travel & Tourism Council and featured in National Geographic Traveler's "50 greatest places of a lifetime". Munnar considered as the green paradise on earth by many travelers is tranquil, serene and famous for its lush green surroundings, lakes, reservoirs, water falls, forests and tea estates. The guiet environs of Munnar attract visitors to relax in the lap of mother nature. The atmosphere is fragrant with the flavor of tea and cardamom. Tea estates are situated mostly on the inner slopes of an elevated basin like plateau. Some of the tea plantations at an elevation of 2135 metres, are the highest in the world. The enchanting high range of lakes and streams, the low flying clouds, and the mist filled valleys cast spell which lingers long in one's memory. To know more about Munnar kindly log on to www.ktdc.com or www.munnarguide.com
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Dr. M. R. A. Pillai, Group Director, Molecular Group of Companies, Kochi

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Shri. Rakesh Ranjan, Vikram Sarabhai Space Centre, Thiruvananthapuram Dr. K. P. Vijavalakshmi, Vikram Sarabhai Space Centre Thiruvananthapuram-Convener

S. ArunKunmar, Joint Secretary-ISAS, IRE Limited, Mumbai, Co Convener I

Prof(Dr) BolieTherattil, St. Aloysius College, Elthuruth, Trichur-Co Convener II

# **Chairman: Local Organizing Committee**

Dr. R. Rajeev, Vice President -ISAS, Former Head, Analytical & Spectroscopy Division, Vikram Sarabhai ISAS Kerala, Former Professor, Department Space Centre, Thiruvananthapuram- 695022, Kerala Phone +91 9447107553 Email:arerajeev@gmail.com

#### Co-Chairman: Local Organizing Committee

Prof. (Dr.) P. V. Joseph, Vice Chairman of Chemistry, Maharajas College, Ernakulam, Kerala Phone:9447775489 Email:josephpv50@gmail.com

# **Convener: Local Organizing Committee**

# Dr. (Mrs) K. P. Vijayalakshmi

Head, Thermal Analysis, Chromatography & Molecular Modelling Section, Analytical & Spectroscopy Division, Vikram Sarabhai Space Centre, Thiruvananthapuram 695022, Kerala Phone:+91 471 2564751, 9497237242

E mail:vijisura@gmail.com/ kp\_vijayalakshmi@vssc.gov.in

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Phone: +91 22 24228770, Mob: +91 9821173411 Phone +91 4872332863, Mobile +91 846737878

E mail:sadarunkumar@hotmail.com

Prof (Dr.) BolieTherattil. Chemistry Department, St. Aloysius College, Elthuruth, Trichur, Kerala

Email: therattilbolie@gmail.com Chairman: National organizing Committee

# Dr. K. K. A. Rashid, Chairman, ISAS-Kerala Chapter Advisor R&D. Suracsh Filters Pvt. Limited, Kochi

### **National Organizing Committee**

Dr. V. Babu

Manager (R&D) HIL India Limited Udyogamandal 683501,Kerala

Convener

Phone 9447883072 / 9495128982 babuv40dr@gmail.com

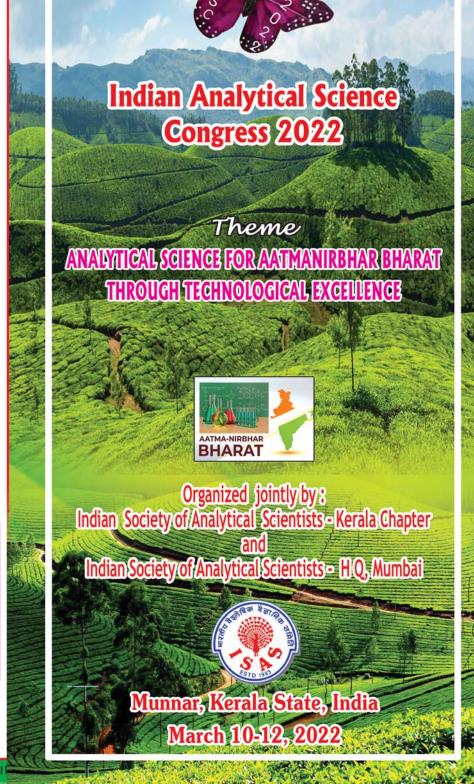
# Co-convener **National Organizing Committee**

Prof (Dr.) Anu Gopinath Dept.of Chemical Oceanography Kerala Univesity of Fisheries and Ocean Studies, Panangad, Kochi- 682506 Phone:9446838319

dranugopinath@gmail.com

# **CONFERENCE SECRETARIAT**

Indian Society of Analytical Scientists, Geethaniali, PRRA-6, Puthalathu Kadavu Road, North Kalamassery 683104, Kerala State Phone +91 484 4039769, +91 99954 05212 isaskerala@gmail.com / iascongress2022@gmail.com Conference website: www.isasc2022.in



The Indian Society of Analytical Scientists (ISAS), was established in 1983 at Bhabha Atomic Research Centre, Mumbai with the aim of dissemination of scientific information in the field of Analytical Sciences. This professional body of analytical scientists in India is engaged in assessing and analysing the impact of measurement sciences on industry, academy, R & D and community. ISAS has nearly 3000 life members and 9 chapters spread all over India. Over the years, ISAS has organized more than 35 national and international conferences on various topics of interest to the scientific community which were all very well attended by leading professionals from India and abroad. In spite of the limitations imposed due to Covid 19 pandemic, ISAS organised a total of 65 Saturday evening ISAS Webinars in two series, one in 2020 and another one in 2021. Our mission is to inform and stimulate researchers to make significant professional achievements in analytical science. We aim to provide scientists, researchers, and students in our country with unlimited access to the latest advances of the analytical sciences. ISAS is committed to raise the level of knowledge and expertise of the entire community of analytical scientists in our country. ISAS Kerala chapter is one of the most active and vibrant chapters of ISAS. In conformity with its mission to strengthen analytical sciences through an integrated strategic agenda of research and development (R&D), human capital and infrastructure, ISAS Kerala Chapter has been organizing conferences / workshops / seminars, etc. and promoting and popularising analytical science in India.

#### ABOUT THE CONFERENCE

It is with great pleasure and honour we are extending warm invitation to all scientists, technologists, professors, students, representatives from industries, etc to participate in the Indian Analytical Science Congress 2022 (IASC-2022) to be held at Munnar, Kerala during March 10-12, 2022, with the theme "Analytical Science for Aatmanirbhar Bharat through Technological Excellence"

The clarion call for Aatmanirbhar Bharat (self-reliant India) by Prime Minister Shri Narendra Modi has brought about a tremendous transformation in the nation's scientific landscape. Analytical scientists in our country took up the call and initiated many projects in mission mode to nurture an ecosystem that promotes research and innovation. In all fields of research, Indian science has seen a resurgence during the past one year. The scientists have come out with great innovations that can compete with any in the western world. The quantum of research output produced during the Covid-19 pandemic is commendable. Science will gather acceptance only if it reaches all. In order to disseminate these research outputs to all scientists, students, teachers, etc. ISAS, the only organization totally devoted to the promotion of analytical science and technology in India, is organizing this conference with the theme,' Analytical Science for Aatmanirbhar Bharat through Technological Excellence'.

Analytical science is an essential and integral part of the entire national development activities, to probe the compositions and structures of matter, study the chemical constituents, contents, distribution, interaction of matters and reveal the space-time rules of matter changes. As the eyes of fundamenta scientific research and social activities relative to human security and health, the goals of analytical science are to design sensitive, selective and specific detection strategies, measuring principles and analytical methodologies, and develop modern detection devices and instruments as well as relative software or control systems. It has played vital roles in various discipline frontiers, and provided important supports for the development of life science, material science, energy science, environment science, healthcare, nuclear and space science. Its significance has been shown in different fields such as new drug development, disease diagnosis and early warning, life process study, food and environment safety, quality control of products, economics, and trade, space exploration, forensic medicine, anti-terrorist activities, etc. Currently analytical science has integrated multidisciplinary research achievements to form itself theory systems and new frontier research fields on fundamental levels, while the development of other related disciplines and the progress of human society constantly challenge analytical science to higher needs, which promotes the continuous development of analytical methodologies and detection instruments.

Different from other chemical disciplines, the progress of analytical science mainly benefits from the achievements in other frontier fields. For example, the separation and analysis in micro / nano-scale depend on the early development and successful application of nanotechnology and microfluidics which are directly related to and benefits from the frontier study of life science, such as genomics and proteomics. The limit of mass and size in space exploration and in vivo analysis is also a catalyst for micro/nano-scaled analytical methodologies and detection devices. Another example is the development of instrumental analysis, which first benefits from the achievements in physics such as electromagnetics, optics, mechanics and electronics, material science, and computer, meanwhile the needs in life science, environment science, and space science hasten new methodologies and detection technologies. Thus, analytical science is established in multidisciplinary development and has the distinct features and outstanding sense of the times.

This conference will focus on the current status and challenges of analytical science and technology To maximize innovation potential, the programme is designed to promote and facilitate crossfertilization between basic sciences, analytical technologies and application areas. The conference aims to forge active cooperation among participants to harness analytical sciences in our effort to a self reliant India (Aatmanirbhar Bharat) for enhanced growth in healthcare, energy sector, agriculture and industrial production, environmental sustainability, etc. It will be a great opportunity for the participants to learn from evidence-based research and discover innovations they can start using immediately. In addition participants will have excellent networking opportunities. IASC 2022 will provide a national platform for sharing and exploring new areas of research and development, enabling the participants to assess emerging technologies in the field of analytical science enriching their knowledge and understanding.

**CONFERENCE DATES**: March 10-12, 2022

VENUE: The conference will be held at Hotel Tea County, Munnar, Kerala State

LANGUAGE: The official language of the conference is English

TECHNICAL PROGRAM: The Conference opens door to researchers to present plenary / keynote / invited talks. Plenary, keynote and invited talks will be given by eminent scientists, contributed papers and posters by young scientists on topics covering analytical, sciences in all its breadth and diversity. Papers on the following topics will be considered for oral / poster presentation at the conference. **TOPICS**: Papers on the following topics will be considered for oral / poster presentations.

#### A. APPLICATION OF ANALYTICAL SCIENCE

\*Covid 19 pandemic control: Detection, diagnosis, prevention and control; development and evaluation of innovative and cost - effective approaches to reduce analysis time, development and evaluation of drugs and vaccines for Covid 19, Biosensors and nanoscale analytical tools for early detection of Covid 19, etc.

\*Nuclear Science & Technology: Radiobiological chemistry, environmental radiochemistry, production and control of radioisotopes and labelled compounds, nuclear power plant chemistry, nuclear fuel chemistry, radioanalytical chemistry, radiation detection and measurement, nuclear instrumentation and automation, Heavy water production, process and quality control.

\*Pharmaceutical Industry: Drug discovery, drug development quality control, safety and efficacy of druas

\*Environment: Climate control, Air pollution monitoring and control, environmental management, environmental impact assessment, pollutant detection and determination in industrial and municipal waste water, toxicity analysis, industrial hygiene, life cycle assessment, etc.

\*Renewable energy and energy materials: Development of high performance materials, study of the structure and composition of the materials to improve performance, extending life to reduce costs.  $characterization \ techniques \ for \ the \ study \ the \ properties \ of \ energy \ materials, improving \ the \ performance$ of batteries and developing alternatives.

\*Food Technology: Foods, Food Quality and Food Safety.

\*Biology and Medical sciences: Analysis of molecules in biological samples, including blood, urine, and tissue, for understanding biological phenomena., for the development of new drugs and the monitoring of drugs after "in vivo" administration, for diagnostic and prognostic evaluations in various kinds of malignant diseases, techniques in the field of proteomics to provide efficient methods for connecting genetic and protein seguences.etc

\*Agriculture Sector: Analysis of soil, water, crops, fertilizers, pesticides, toxic metals, nutrients, quality control, etc.

\*Defence Sector: Detection of chemical and biological weapons, countering of chemical, radiological, biological and nuclear hazards, QC of explosives and various chemicals and materials required by

\*Space science and technology: Development and qualification of materials for space applications, viz, propellents, catalysts, polymers, adhesives, ceramics, super alloys, fuel cells, batteries.

\*Nano Technology: Processing, production, characterization and evaluation of nano materials. \*Industry and the manufacturing sector: Newproduct development, processing, process control, quality control, etc.

\*Petroleum and petrochemicals industry: QC of crude oil, gasoline, diesel and other petrochemicals, evaluation of catalysts, additives, development of new products, environmental monitoring, etc.

\*Biotechnology: Real-time verification of input raw materials, continuous monitoring of the entire production process, to reduce downtime, recall, and delay, QC of the products.

\*Corrosion prevention and mitigation: For study of causes of corrosion, failures, and prevention strategies for various corrosion phenomena; development of viable solutions, development of technology for corrosion mitigation, corrosion resistant coatings, etc.

\*Paint and pigment industry: Development of new paints and pigments, Process control, QC, efficient utilization of raw materials, development of environment friendly products, development of new processes and technologies.

\*Catalysis and adsorbants: Development of new products, characterization, study of the catalysed reactions, QC of catalysts, catalyst poison analysis, environmental pollution studies, etc.

\*Mineral processing: In the Exploration, Mining and Processing.

\*Recycling of plastic waste, chemical waste and e waste: Analysis of the composition of input waste, process control, analysis and recovery of recovered products, QC, etc. \*Cosmetics and Personal care products \*Polymer and polymer composites

Regulatory Issues and Biosafety Challenges

#### B. ANALYTICAL TECHNIQUES

\*Nuclear Analytical Techniques: Neutron activation analysis (NAA), radiochemical derivative RNAA, ion-beam methods such as prompt G neutron activation analysis (PGNAA) and accelerator mass spectrometry (AMS), X ray fluorescence (XRF) and proton induced X ray emission (PIXE) spectroscopy. Isotopic dilution techniques, etc.

- Sensors- Bio and Chemical
- Thermal analysis
- Microscopic techniques
- Crystallography Chromatographic techniques
- Laser & plasma techniques
- Chemometrics

- Spectroscopic techniques Lab automation
- XRF, XRD
- Mass spectrometry
- Hyphenated techniques Non destructive testing
- Atomic force spectroscopy

- Electrophoresis
- Electrochemical methods
- Online analyzers
- Particle size analysis Molecular probes
- Separation methods

- Raman Spectroscopy
- Imaging techniques
- Pre concentration techniques
- Remote sensing and analysis
- Surface spectroscopy, XPS, AES
- IIMS

CALL FOR PAPERS: The organizing committee has great pleasure to request participation of scientists, professors, technologists, academicians and students in the conference. Keynote, Plenary and Invited Talks by experts in the respective fields, and presentation of contributory papers by scientists engineers / academicians / professionals / research scholars across India will form the main program of the conference. The duration of plenary and key note talks will be 45 minutes, invited talk 30 minutes and contributed talks15 minutes. Authors are encouraged to contribute and help to shape the conference through submissions of their research abstracts, papers and posters. Also, high quality research contributions describing original and unpublished results of conceptual, constructive, empirical, experimental, or theoretical work in all areas that address themes and topics of the conference are welcome. An extended one page abstract of the technical paper should be submitted by e-mail to isaskerala@gmail.com or isascongress2022@gmail.com before 31st, December 2021. Authors will be notified of the acceptance of abstract by January 15, 2022.

ABSTRACT FORMAT: Authors wishing to present papers at the Conference are requested to submit an abstract of not more than 500 words. The abstract should be in English and conform to the following format: Title in Times New Roman 14, bold capital letters, centered; Author(s) Name(s) in Times New Roman 12, centered, presenting author's name underlined; affiliation and address (including e-mail) in Times New Roman 12, centered; Text in Times new Roman 12. Please give a margin of 3 cm on top and bottom and 2.5 cm on left and right side of each page. Figure caption should be given under the figure and table heading should be given on the table, both in Times New Roman 12. References in the text should be in square brackets and they should be listed at the end of the extended abstract in the ascending order, with initials and names of all authors, journal name (italic), Year, volume (bold in italic), page numbers. For example M. L. P. Reddy, V. Divya and Rani Pavithran, Dalton Trans., 2013, 42,15249. Books should be sighted as follows: K. Binnemans, Handbook on the Physics and Chemistry of Rare Earths, Elsevier, Amsterdam, 2005, vol. 35, pp. 107-272. An electronic version of the abstract should be e-mailed to the Convener, IASC 2022 before December 31st, 2021. E-mail isaskerala@gmail.com / isascongress2022@gmail.com. All correspondence regarding paper submission should be sent to: Convener - Local organizing committee. Abstracts will be considered by a panel of referees for inclusion in the programme. Authors will be notified whether their abstract has been accepted or not before January 15th, 2022. Abstracts Book will be available to registered narticinants

AWARDS: Best contributed papers (oral and poster) will be awarded.

REGISTRATION FEE: All participants including invited speakers are requested to register for the conference. Registration will enable you to entitle for entry to conference sessions, exhibitions, teal coffee breaks, conference lunch and conference kit. Spouses are eligible for entry to conference, exhibitions, tea/coffee breaks and conference lunch. In addition to the scientific activities of the conference, site seeing tours may be arranged upon request. For more details, please contact the information / travel desk at the conference Registration fees are as below

efore February After February Spot Rs.5000 Rs. 5500 Rs. 6000 Participants (Indian) Participants (Foreign) US \$ 1000 US \$ 1250 Rs. 1500 Students Students-ISAS Members Rs. 1000 Rs. 2500 SAS Life Members Rs. 2000 US \$ 500 Accompanying Person (Indian)

### Accompanying Person (Foreign) PAYMENT OPTIONS:

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	Delegates	Mode of	Beneficiary Account Details	
	Origin	Transfer		
	Foreign	Wire	Account No: 37073566874,	
	Delegates	Transfer*	Beneficiary Name: ISASC 2022	
	Indian	Account	Bank: State Bank of India; Branch: Kalamassery,	
	Delegates	transfer/NEFT/	Address: Kalamassery, 683104 Kerala State, India	
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Demand Draft shall be drawn in favour of "ISASC 2022", payable at Ernakulam and to be sent to Chairman - Local Organizing Committee

\*Participants must bear the fees their bank charges for the remittances out of their accounts REFUND AND CANCELLATION POLICY: For cancellations submitted by 1st March 2022, 50% of your conference registration fees will be refunded. Please note that refund will be made after deducting the processing fee charged by our bank. No refund of conference registration fee available for cancellations after 1st March 2022. No refunds will be made for no shows. Cancellation request must be received in writing only via e-mail: isaskerala@gmail.com / isascongress2022@gmail.com

# IMPORTANT DATES:

31st, DECEMBER 2021 Abstract submission closes on Acceptance of abstracts 15<sup>th</sup>, JANUARY 2022 Early-bird registration ends on 15th, FEBRUARY 2022