



FOUR-DAY NATIONAL SEMINAR ON "INNOVATIONS IN SCIENCE AND ENGINEERING"



25th – 28th February, 2019

VENUE: Sir MVIT Campus, Bangalore 562157

PROGRAMME HIGHLIGHTS

- ✓ Plenary Talk by Experts
- ✓ Oral, Poster and Idea presentations
- ✓ Ideate / Hackathon competitions
- ✓ Model Presentations



Jointly Organized by

SIR M.VISVESVARAYA INSTITUTE OF TECHNOLOGY
BANGALORE 562 157

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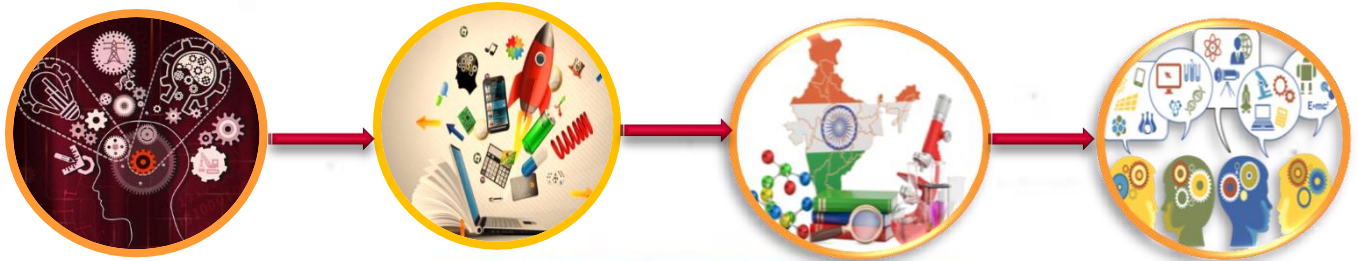
THE NATIONAL ACADEMY OF SCIENCES, INDIA (NASI)
BANGALORE CHAPTER

PATRONS

SRI KRISHNADEVARAYA EDUCATIONAL TRUST

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NATIONAL ACADEMY OF SCIENCES, INDIA



EVENT PARTNERS



PREAMBLE

ABOUT THE NASI

India is a nation on the move, steadily developing into one among the top destinations of the world. However, one of the major concerns facing our GDP is the issue of wealth creation via Product Revolution. Science and Engineering education of its sizeable young population is undergoing a tremendous transformation, and educational institutions need to keep pace with the changing requirements via creative innovations.

The complexities of today's world requires graduates and faculty, who are not only equipped with basic set of core knowledge and bench skills, but also think beyond the box to offer cost-effective solutions to the diversity of dynamic challenging problems faced by our communities. Thus, the learning and doing of Science and Engineering must ensure that these skills are inculcated in their graduates. Such graduates who have practical and relevant precepts embedded into their educational experiences will be in high demand in all job sectors.

A multitude of global challenges and issues where innovative solutions are direly needed are areas related to sustainable development, national security, energy crisis, food and nutrition, health and hygiene, environment, etc. While newer opportunities have emerged, there are newer challenges looming as well. Thus, changes are inevitable and cannot be ignored. In this context, higher education institutions must become well equipped to remain relevant.

The objective of the Four-Day National Seminar is to bring the subject experts and thinkers to address the young minds and enthusiastic talent, and to share the multitude of issues plaguing our society towards attempting to instill ideas in the budding genre, so as to generate plausible innovative solutions. The target audience for the event would be BSc / MSc / BE / MTech / PhD graduates and faculty from across engineering and science institutions in Bangalore. In addition to plenary talks by renowned scientists and technocrats, the event intends to host several competitions like Idea Presentations, Innovative Working Models, Poster Sessions, Oral Presentations, On-site Problem Solving sessions for corporate and social challenges, etc., so as to better engage the enthusiastic minds in more productive ways. Each day would witness, two Expert Lectures in the forenoon session, followed by competitions during the post-lunch sessions. Cash awards and certificates of merit would be provided for the best teams and innovative presenters. An Open Day of exhibits is also being planned on 28/02/2019 for neighboring schools and college students (to commemorate the National science Day) as an out-reach event, as well.

The National Academy of Sciences, India (initially called "The Academy of Sciences of United Provinces of Agra and Oudh") was founded in the year 1930, with the objectives to provide a national forum for the publication of research work carried out by Indian scientists and to provide opportunities for exchange of views among them. The Academy undertakes several "science-society" programs under the guidance of its Presidents and Fellows. As its Past Presidents, very distinguished scientists like Prof. M.S. Swaminathan, Prof. Manju Sharma, Prof. P.N. Tandon, Prof. S.K. Joshi, Prof. Jai Pal Mittal, Prof. V.P. Kamboj, Prof. Ashok Misra, Prof. A.K. Sharma, Prof. Asis Datta and Dr. K. Kasturirangan are keenly associated with the Academy and enormously contributing to its development.

The Academy while starting with 57 ordinary Members and 19 Fellows, has now 1755 Members and 1777 Fellows from all parts of the country; including 16 Honorary Fellows and 97 Foreign Fellows from various disciplines of Science and Technology. The Academy is financially supported by the Department of Science & Technology, Ministry of Science & Technology, Govt. of India; and it is also recognized as the Scientific and Industrial Research Organization by the DSIR, Govt. of India.

NASI - envisions the cultivation and promotion of Science & Technology in all its branches through -

- (a) promoting scientific and technological research related to the problems of societal welfare;
- (b) publication of proceedings, journals, memoirs, transactions and other works as may be considered desirable;
- (c) organizing meetings and hold discussions on scientific and technological problems;
- (d) undertaking, through properly constituted committees and bodies, the scientific work(s) of technological or public importance.
- (e) co-operating with other organizations in India and abroad, having similar objects, and to appoint representatives of the Academy to act on national and international bodies;
- (f) securing and managing funds and endowments for the promotion of science and technology;
- (g) organizing a Science Library;
- (h) performing all other acts, matters and things that may assist in, conduce to, or be necessary for the fulfillment of the above mentioned aims and objects of the Academy;
- (i) creating an adequate impact of the Academy all over the country, by opening Chapters on number of Fellows and Members are available.

f the Academy in other cities in the country, where reasonable

**SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
(Sir MVIT)**

PLENARY SPEAKERS

Started in 1986, Sir M.VIT has been an institute of technical repute in the state of Karnataka, offering Eight Undergraduate Programmes and Five Post-graduate Programmes. The institute is affiliated to Visvesvaraya Technological University (VTU) and approved by the All India Council for Technical Education (AICTE). The institute is also NAAC and ISO-9001:2008 organization. Nine of its departments are recognized as R & D centers by VTU, under which the faculty are executing projects sponsored by various funding agencies like AICTE, UGC, AR&DB, DST, DBT, ICMR, BIRAC, VTU, Ministry of power, etc. Several Scholars have obtained their PhD degrees and many have registered for their research degrees at these centres.

- **Prof. Ashok Misra**, Ex-Director, IIT, Mumbai
- **Prof. Jayant Haritsa** (Infosys Prize Winner), IISc, Bangalore
- **Dr Kota Harinarayana**, Formerly VC-UoH, DRDO, ADE, HAL
- **Dr. Ravi Subrahmanyam**, Director, Raman Research Institute, Bangalore
- **Prof. Narayan**, Molecular Electronics Lab, JNCASR, Bangalore
- **Dr. Vijayalakshmi Ravindranath** Director, Brain Research Inst. , IISc, Bangalore
- **Dr Bharat Kumar Mohan**, CEO, Sensara Technologies
- **Dr. Anshuman Das**, CEO, Labby Technologies, USA

THRUST AREAS

Aeronautical Engineering, Aerospace Engineering, Automobile Engineering, Agriculture & Food Engineering, Biotechnology, Biochemical engineering, Computer Science Engineering, Civil Engineering, Electrical Engineering, Electronics and Communication Engineering, Electrical and Instrumentation Engineering, Environmental Engineering, Industrial and Production Engineering, Information Technology, Instrumentation Engineering, Mechanical Engineering, Marine Engineering, Metallurgical Engineering, Mining engineering, Naval Architecture and Ocean Engineering, Petroleum Engineering, Textile Engineering, Physics, Chemistry, Maths, Biology Management, Energy, Health, etc.

WHO ARE WELCOME TO ATTEND

Research Scholars, Post-Graduates and Under-Graduate Students pursuing all branches of Engineering and Sciences Degrees (BSc / MSc / BE / MPhil / MTech / PhD graduates) and Faculty from across Engineering / Science Departments at Universities / Affiliated colleges, are invited to register for this unique event. **For the dissemination of information & awareness on the prospects of these emerging domains, students of Std XII are also encouraged to participate.**

SUBMISSION OF ABSTRACTS FOR ORAL / POSTER / IDEA / MODEL PRESENTATIONS

- All persons engaged in projects and developing / validating PoCs, having potential for commercialization of their technologies related to diverse aspects of Engineering and Science disciplines, possessing innovative ideas for addressing societal problems, not limiting to the thrust areas mentioned above, are welcome to submit the **ABSTRACTS for Oral / Poster / Ideate / Model / Hackathon Competitions** (not exceeding 300 words) in the proper format, on or before the **12th February 2019**.
- Put-together, a maximum of TWO abstracts can be submitted by each research team / project group / presenting author.
- The ABSTRACTS must be neatly typed in 12-point font size (Times New Roman) in double space with two hard copies along with CD/soft copy, duly highlighting the category under which it is submitted). **The presenting authors should compulsorily state their mailing address, telephone, e-mail and fax numbers.**
- **Quality ABSTRACTS would be selected by the Technical Screening Committee.**
- The Organizing Committee preserves the right for Accepting / Rejecting the abstracts for resresentation at the event.

CONTACT PERSONS

Dr. H G NAGENDRA

ORGANIZING SECRETARY

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COORDINATOR & TREASURER

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REGISTRATION FEES

DELEGATE TYPE

UG / PG / PhD Students
Faculty / Industry

FEES

: Rs. 500/-
: Rs. 1000/-

ADVISORY COMMITTEE

Dr. G Padmanaban	NASI, ALLAHABAD
Dr. Ashok Misra	NASI, BANGALORE.
Dr. N S Dinesh	IISc, BANGALORE
Dr. A C Chandrashekhar Raju	SRI KET, BANGALORE

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Dr. Rajendra Kumar Patil	SIR MVIT, BANGALORE
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Dr. Bhanuprakash	Member
Dr. Sandhya Suswaram	Member
Dr. Vanipriya	Member
Dr. Supriya	Member

REGISTRATION BY POST

Fill in the Registration form and mail a copy of it along with the RTGS / NEFT / DD details drawn in favor of, **payable at Bangalore on or before 20th February , 2019.**

- Registration fee includes access to all Scientific sessions, Conference materials, Refreshments / Lunch on all days (**but excludes accommodation**).
- Participants selected for Oral/ Poster / Idea presentations **will not** be provided any TA / DA.
- No travel assistance of any kind will be available for registered delegates, other than Plenary Speakers / Invitees / Jury Members.
- **Contribution of abstracts for poster is not mandatory for registration for participation at the event.**
- Individual registration of authors & co-authors mandatory for receiving the certificates.
- Common DD/RTGS/NEFT may be made for a group of participants from an institute, but it is mandatory to register individually via the forms.
- Incomplete application forms and the applications not submitted through proper channel are likely to be rejected.
- **Cash Awards of INR 3K, 2K and 1K for Day-Wise Best Presentations under each category of the competition**

KEY DATES

- **Submission of Abstracts** : **February 12th 2019**
- **Notification to Authors** : **February 15^h 2019**
- **Last date of Registration** : **February 20th 2019**
- **Conference Dates** : **February 25th – 28th 2019**

A Souvenir containing selected Articles, Technical abstracts of all Oral / Poster /project ideas presented at the National Seminar will be brought out on the occasion for distribution to the delegates and related organizations in the country. This event will be attended by professionals, engineers, industrialists, academicians, scientists and policy makers from all over the Country. It will give ample opportunity to the educational institutions, financial bodies and industries to interact with and to publicize their services and products. Sponsorship is an excellent way for the organizations to receive recognition. All interested are invited to sponsor and support this prestigious National event.

TARIFF DETAILS

- **Platinum - Rs. 50,000/-**
5 Free delegates + One sponsored article in the souvenir + Logos on banners, brochures and posters + Full-page back-outer advertisement in souvenir (Color) + One stall for all 4 days.
- **Diamond - Rs. 40,000/-**
4 Free delegates + Logos on banners, brochures and posters + Full-page front-inner advertisement in souvenir (Color) + One stall for all 4 days.
- **Gold - Rs. 30,000/-**
3 Free delegates + Logos on banners, brochures and posters + Full-page front-inner advertisement in souvenir (Color) + One stall for all 4 days.
- **Silver - Rs. 20,000/-**
2 Free delegates + Logos on banners and posters + Full-page advertisement in souvenir (Color) + One stall for all 3 days.
- **Stalls (10ft x 10ft) - Rs. 10,000/-**
One stall for all 4 days + Half-page advertisement in the souvenir (B & W): Stalls dealing in scientific products, books, stationery , food items etc. are welcome.
- **Advertisement in Souvenir :**
Rs. 5,000/- Full-page advertisement (B & W)
Rs. 3,000/- Half page advertisement (B & W)

Advertisement matter/materials may be sent together with DD/cheque drawn in favor of PRINCIPAL, SIR MVIT, BANGALORE

Participant Name: _____

Organization : _____

Mobile Number: _____

E-Mail: _____

Date of Registration: DD/MM/YYYY

Delegate type: **Student / Faculty / Industry**

Are You submitting an Abstract for Oral / Poster / Idea competition ? **Yes / No**

If YES, please mention the Title of the abstract, Author's name, Presenting Author with * Mark, Affiliation /Organization Name and Address.
[Attach a copy of the abstract with this form]

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Accommodation Required : **Yes/No**
(Accommodation provided on rental charges as per institutional norms for on first come basis.

For Details Contact:
Mr. Ilayaraja, Hostel Warden Ph: 7760011769)

Payment of registration fee :
DD number: _____
Bank Name: _____
Branch Name: _____
RTGS / NEFT Details (Transaction ID):

Signature of the Delegate Date:

***Filled in copies may be sent to any of the contact Addresses in the brochure**
****Copies of this format should be made for each Delegate/Participant**

ACCOUNT NAME: PRINCIPAL, SIR MVIT
ACCOUNT NUMBER: 183110000011
IFSC CODE: KKBK0008084