

Important Dates

Receipt of Extended Abstracts: **Nov. 15, 2017**

Acceptance of Extended Abstracts: **Nov. 30, 2017**

Final Paper Submission: **Dec. 31, 2017**

Conference Dates: **Jan. 23-25, 2018**

Registration

Participants ₹ 5000/-

Students ₹ 500/- (Restricted to 50 students)

Registration fee includes Registration kit containing a copy of the conference proceedings (soft copy), souvenir, participation in technical sessions, refreshments, lunch and dinner.

Online Registration Only

<http://www.nal.res.in/ncscstase2018> (Please fill the online form before January 10, 2018)

Mode of payment

Online Payment: Payment will be accepted through bank transfer. The bank details are: State Bank of India, NAL Branch, Kodihalli, Bengaluru 560017. Account No. 37073700130, IFSC Code-SBIN0004815.

Offline Payment: Cheque / Demand Draft for the appropriate amount to be raised in favour of NCSCSTASE2017, Payable at Bengaluru and to be sent to the Secretary of the Conference.

For details contact

Dr L Rangaraj

Secretary, NCSCSTASE-2018

Sr. Principal Scientist, Materials Science Division, CSIR-National Aerospace Laboratories, PB No. 1779, Kodihalli, Bengaluru 560 017

Tel.: 91-080 25086285 / 25086263

Email: secretaryncscst@gmail.com

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National Conference on Contributions of SC/ST Scientists and Technologists towards Advancement of Science and Engineering (NCSCSTASE) 2018

January 23-25, 2018

Venue:

S. R. Valluri Auditorium
CSIR-National Aerospace Laboratories
Kodihalli, Bengaluru 560 017

Council of Scientific and Industrial Research (CSIR), New Delhi

The Council of Scientific & Industrial Research (CSIR), known for its cutting edge R&D knowledgebase in diverse S&T areas, is a contemporary R&D organization. Having Presence Across Nation (PAN), CSIR has a dynamic network of 38 national laboratories, 39 outreach centres, 3 Innovation Complexes and 5 units. CSIR's R&D expertise and experience is embodied in about 4600 active scientists supported by about 8000 scientific and technical personnel.

CSIR-NAL, Bengaluru

The CSIR-National Aerospace Laboratories (NAL) was established in 1959 under the Council of Scientific and Industrial Research (CSIR) and this year CSIR is celebrating its Platinum Jubilee Year during 2016-17. Over the past decades, NAL has successfully contributed to the growth of aerospace R&D activities in the country and in particular to the projects of national importance in the defense and space sectors. This has been done through building up of expertise and establishing various facilities. CSIR-NAL has also taken up the mandate for the design and development of small civil aircraft for the country's needs. As a result of its successful efforts and significant contributions, NAL has come to be recognized internationally as a major centre for aerospace research and development activities.

Welfare Schemes for SC/ST Community at CSIR-NAL, Bengaluru

CSIR-NAL offers various welfare schemes for the upliftment of SC/ST community. In the year 1993 two major schemes were introduced, one of the schemes invites meritorious students who have secured highest marks in science subject in SSLC examination conducted by Karnataka Examination Board. This scheme involves a cash award along with the visit of students to our organization to explore the career opportunities in the scientific area. This is also extended to the wards of the NAL employees. Another scheme provides one-year apprentice training for ITI students with stipend, and the program helps the students to get involved in

major R&D activities being carried out in NAL thus helping them to get hands on experience, upgrade their technical knowledge while working with scientists and technical staff. This helps them to find better avenues in their future prospects. Under this project as many as 425 ITI students were provided the training till date.

In the year 1994, CSIR-NAL also introduced training programmes to fresh Diploma, B.Sc., and Engineering Graduate students. This gives an opportunity to get trained at various nationally and internationally recognized facilities of NAL and their association with the Scientists to upgrade their skills and knowledge. Under this scheme, 375 Graduate Engineers, 220 Diploma holders were inducted to various Divisions of NAL and this programme has also helped the unemployed youth to find very good placements during the tenure of the training and also after the completion of the training.

CSIR-NAL has also offered welfare measures by inviting the unemployed youths from the general public for the following training programmes during the years 1998 and 2003. During the period 14-21 December 1998, a free training programme on "Fibre Glass Composite Technology" was held and about 25 candidates participated in the programme. This training programme has helped the unemployed youth to get hands-on experience in the composite field and has paved the way for starting their own small scale industries or to get a suitable employment elsewhere. A free computer software, hardware and networking training was conducted for the unemployed SC/ST youth during 17-20 March 2003. About 20 candidates participated in this programme and upgraded their skills and knowledge in these fields.

About the Conference

CSIR-NAL extended its full support to conduct the first "National Conference on Scientific Achievements of SC/ST Scientists and Technologists" as the part of Golden Jubilee celebration of CSIR-NAL during 14-16 April 2009.

As part of CSIR's Platinum Jubilee celebrations CSIR-NAL, Bengaluru is hosting the second

"National Conference on Contributions of SC/ST Scientists and Technologists towards Advancement of Science and Engineering" (NCSCSTASE-2018). The conference will provide a forum for SC/ST scientists and technologists working in R&D organizations, academia and industrial agencies to exchange information on their contributions to science and engineering and also to explore networking possibilities to achieve technological advancement.

The Conference will comprise of keynote addresses, plenary lectures, invited lectures, contributed papers and will also showcase the Aerospace Technologies of NAL. A dedicated session for the research students is also planned.

Conference Topics

Significant research contributions/findings, R&D trends, and future prospects of science and engineering technologies are solicited in the conference.

❖ Aeronautical and Aerospace:

- Design, manufacturing, testing & analysis of components
- Structural Analysis and optimization
- Multiscale modelling of composites
- Damage tolerance of composite structures
- Experimental Structural Dynamics and Aeroelasticity
- Simulation & Mathematical Modelling
- Experimental Aerodynamics
- Wind tunnel testing, Re-entry Aerodynamics, Missile and Launch Vehicles
- Non-Destructive testing and Evaluation
- Structural Health Monitoring

❖ Propulsion Technologies

- Combustion
- Turbomachinery
- Heat transfer
- Rocket Propulsion
- Computational fluid dynamics of propulsion components

❖ Electronics and controls

- Design, Manufacturing, Testing, Analysis
- Software development
- Embedded Systems
- Image & Video Processing

❖ Conventional and Non-Conventional Energy Sources

❖ Materials and Composites:

- Metals, polymers, ceramics
- Metal-matrix, polymer-matrix, ceramic-matrix and nano-composites
- Sensors and Actuators

❖ Simulation/Modelling:

- Computational Fluid Dynamics (CFD) Applied to Multi-Disciplinary Areas
- High Performance Parallel Computing, Computational heat transfer, Design and Optimisation

❖ Robotics

❖ Vehicle system and Engineering

Call for Technical Papers

Authors are invited to electronically submit extended abstracts of their original work written in English in the areas of interest to the conference. The extended abstract is to be of approximately three to four pages in the word format which includes figures, tables and references. Abstract is to be submitted as an e-mail attachment to secretaryncscst@gmail.com.

All the submitted abstracts will be peer reviewed and authors of selected abstracts would be requested to submit the full length paper. The papers selected would be published in the conference proceedings. Besides, a souvenir containing abstracts would also be brought out.

For more details please visit the website

For detailed information, online pre-registration, advertisements and updates, please visit the conference website linked to www.nal.res.in/ncscstase2018.