

### About Naval Science and Technological Laboratory [NSTL]

NSTL is a premier R&D laboratory of DRDO for Design and Development of Advanced Underwater Weapons, Hydrodynamics Studies and Warship Technologies. The Laboratory established world class test Facilities for



experimental evaluations of designs of marine platforms and equipment. As a part of its mandate, NSTL also established expertise in Technologies such as Underwater Shock, Vibration & Noise, acoustic sensors and acoustic signal processing.

### About Acoustical Society of India (ASI)

Acoustical Society of India (ASI) was established and registered at Visakhapatnam on 31st July, 1971 with the major objective of "The advancement of science & technology of all branches of acoustics". ASI conducts National Symposium on Acoustics annually to disseminate the latest trends in Acoustics among the professionals in the country. The Society has 30 local chapters and a combined membership of about 1100. It has 26 institutional members representing Indian Industry and 15 leading foreign experts as honorary fellows of the society.

### About Visakhapatnam City

Visakhapatnam (Vizag) is the largest city in the Indian state of Andhra Pradesh. Nestled between the Eastern Ghats mountain range and the Bay of Bengal, the city is one of the fastest growing cities in the country. After independence, Visakhapatnam developed into one of the country's chief ports and became the headquarters of the Eastern Naval Command of the Indian Navy. The city houses Andhra University, one of the famous educational establishments. The city is often known as The Jewel of the East Coast, and The City of Destiny. Visakhapatnam's beaches (such as Ramakrishna Beach and Rushikonda), parks (such as Kailasagiri and VUDA Park), museums (such as the Kursura Submarine Museum and Visakha Museum), Araku Valley and Borra Caves) have helped the city become one of the most attractive tourist destinations. The city is connected by all three chief modes of transport (Air, Rail and Road).

### COMMUNICATION ADDRESS :

#### Dr. V. Ramakrishna

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Visakhapatnam - 530 027  
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### Registration Form - NSA 2024

Name : \_\_\_\_\_  
Designation/Rank : \_\_\_\_\_  
Organization : \_\_\_\_\_  
Address : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Mobile : \_\_\_\_\_  
Email ID : \_\_\_\_\_  
Category : Member /Non-Member /Research Scholar /Student  
Advertiser / Sponsorship / Stall  
If Member, Membership No. : \_\_\_\_\_

### Registration Fee Details

D.D./Cheque No.: \_\_\_\_\_  
Drawn in favour of 'National Symposium on Acoustics'  
Drawn on Bank : \_\_\_\_\_  
NEFT Transaction ID : \_\_\_\_\_  
Account No. : 42994813897  
Bank & Branch : State Bank of India, NSTL Branch, Visakhapatnam  
IFS Code : SBIN0011161  
Dated \_\_\_\_\_ Amount Rs. \_\_\_\_\_

Signature of Participant

### For Further Correspondence :

#### CONVENOR, NSA-2024

Mobile : 97033 19880, Landline : 0891-2586268  
E-mail: nsavizag2024@gmail.com

# NSA-2024

## 51<sup>st</sup> National Symposium on Acoustics

(NSA-2024)

27- 28 September, 2024

Call for Papers and Information Brochure

-: SPECIAL THEME :-

### "Sustainable Acoustics"

Organized By



Naval Science and Technological Laboratory  
DRDO, Visakhapatnam

Under the aegis of



Acoustical Society of India (ASI)



## About the Symposium

As a part of ASI's endeavors to spread the importance and latest developments of Acoustics, a two-day National Symposium (NSA-2024) will be jointly organized by NSTL, DRDO and ASI during 27-28 September 2024 at NSTL Campus in Visakhapatnam. Large number of delegates from Industries, R&D Institutes and Academia are expected to participate in the symposium. Two prominent lectures of NSA every year are **M.S. Narayanan** Memorial Lecture and **Prof. Rais Ahmed** Memorial Lecture. Shri MS Narayanan was a Renowned Acoustician in Transducers & Electro-Acoustics and was Vice-President of ASI during 1990-92. Prof Rais Ahmed was a reputed Speech Scientist and was President of ASI during 1979-80. Apart from these lectures, several invited talks by domain experts of acoustics and contributed papers will be presented. An exhibition of latest acoustic instruments and articles will be displayed. Special focus will be on sustainable acoustics which is expected to provide valuable insights on futuristic direction for developments in the field of acoustics.

## Call for Papers

NSA 2024 invites papers related to various disciplines in Acoustics for presentation and publication in the proceedings. Selected articles will be published in Journal of Acoustical Society of India. The papers must be original contributions of authors not published elsewhere. A technical committee will scrutinize the papers and decision of the committee will be final for acceptance of the paper. Topics of discussions are listed below:

- ★ Architectural Acoustics
- ★ Physical/Applied/Engineering/Vibro-Acoustics
- ★ Building & Environment Acoustics
- ★ Noise Pollution and Control
- ★ Signal Processing in Acoustics
- ★ Speech, hearing and Music
- ★ Underwater Acoustics
- ★ Aero Acoustics
- ★ Bio-acoustics
- ★ Acoustic Materials
- ★ Ultrasonics
- ★ Any other relevant topic

## Submission of Abstract:

The abstract shall be typed in the Times New Roman 12 font size with minimum 250 words and maximum of 300 words.

## Submission of Full Paper:

On receipt of intimation of acceptance of abstract, author(s) can submit full paper in prescribed template.

## Guidelines for paper submission:

- ★ Experimental investigation with specific conclusions
- ★ Original Contribution, not published earlier
- ★ Case studies of industrial importance
- ★ Simulation studies with practical demonstration/result
- ★ Design of instruments / Systems / Software

## Format for submission of paper

- ★ Paper should not exceed 8 (eight) A4 Size sheets
- ★ Font : Times New Roman
- ★ Margins : Left = 1.5 Inch  
Right, Top & Bottom = 1.0 Inch
- ★ Abstract: 11 Point Italic with single line spacing to be placed after title and other details.
- ★ Key words : 4 (Four)
- ★ Text : 12 Point normal justified  
Para heading: 12 Point Bold Sentence case,  
Spacing = 1.5 lines, Figures to be inserted in jpg Format.
- ★ At least one of the authors is required to register and attend the conference for presenting the paper.
- ★ E-mail of the corresponding author should be given.

## Important Dates:

|   |             |
|---|-------------|
| Last date of Receipt of Abstracts                   | 22 Jun 2024 |
| Acceptance of Abstracts                             | 30 Jun 2024 |
| Last Date of Receipt of Full Manuscripts            | 30 Jul 2024 |
| Last Date of Acceptance of Peer Reviewed Manuscript | 20 Aug 2024 |
| Date of Receipt of Camera Ready Manuscript          | 10 Sep 2024 |

## National Advisory Committee:

|                         |                           |
|-------------------------|---------------------------|
| Dr VK Aatre, DRDO       | Dr SS Agarwal, CSIR       |
| Prof ML Munjal, IISc    | Prof S Narayanan, IIT(M)  |
| Dr BVA Rao, IIT(M)      | Dr V Mohanan, CSIR        |
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|  |
|--|
| Dr DD Ebenezer, OS Retd, NPOL, Kochi             |
| Dr B Chakraborty, Sc G (Retd.), NIO, Goa         |
| Dr AR Mohanty, Prof, IIT, Kharagpur              |
| Dr VA Tabhane, Prof Retd, Pune University        |
| Dr G.V. Krishna Kumar, Sc G, NSTL, Visakhapatnam |
| Dr D. Radha Krishna, Sc G, NSTL, Visakhapatnam   |

## ASI Executive Council:

|                                     |                                  |
|-------------------------------------|----------------------------------|
| Dr DK Aswal, President              | Dr Ajish Abraham, Vice President |
| Dr Mahavir Singh, General Secretary | Dr I Johnson, Joint Secretary    |
| Dr Kirti Soni, Treasurer            | Dr B Chakraborty, Chief Editor   |
| Dr Rita Paikaray, Member            | Dr SV Ranganayakulu, Member      |
| Dr Yaser Rafat, Member              | Dr V Ramakrishna, Member         |

## Organizing Committee :

|                       |   |
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| <b>Chief Patron :</b> | <b>Dr. Samir V Kamat,</b> Chairman, DRDO  |
| <b>Patron :</b>       | <b>Dr Y Sreenivas Rao,</b> DS & DG(NS&M), DRDO  |
| <b>Co-Patrons :</b>   | <b>Dr. Abraham Varughese,</b> OS & Director, NSTL<br><b>Dr. H.N. Das,</b> Sc G & Associate Director, NSTL |

## Organizing Chair :

**Er PVS. Ganesh Kumar,** OS Retd, NSTL & Past Vice President, ASI

## Convenor:

**Dr V. Ramakrishna,** Scientist F, NSTL & EC Member, ASI

## Co-Convenor:

**Sri M. Padmanabham,** Scientist F, NSTL

## Registration Fee:

| Category Registration          | Fee (INR) |
|--------------------------------|-----------|
| Industry Non-ASI / USI Members | 4,500/-   |
| Academics Non-ASI              | 4,000/-   |
| ASI / USI Members              | 3,500/-   |
| Students / Scholars            | 1,500/-   |

Registration fee covers symposium kit, certificate and refreshments. GST as applicable (18% as of now) to be added to above fee.

## Sponsorship:

|                  |                 |
|------------------|-----------------|
| Platinum Sponsor | : Rs 2,00,000/- |
| Gold Sponsor     | : Rs 1,50,000/- |
| Silver Sponsor   | : Rs 1,00,000/- |
| Co-sponsor       | : Rs 50,000/-   |

All the above sponsors except co-sponsor will get full page color advertisement and cosponsor will get full page B&W advertisement in the souvenir plus 8, 5, 2 & 1 delegates free registration for the conference respectively for platinum, gold, silver & co sponsors.

## Advertisement in Souvenir

A conference souvenir will be published comprising the abstracts of papers and advertisements of firms. Firms/ Establishments are invited to book their advertisements at following tariffs:

|                           |               |
|---------------------------|---------------|
| Back cover                | : Rs 50,000/- |
| Inside front / back cover | : Rs 30,000/- |
| Full page (Colour)        | : Rs 15,000/- |
| Half page (Colour)        | : Rs 8,000/-  |
| Full Page (B&W)           | : Rs 7,500/-  |
| Half Page (B&W)           | : Rs 4,000/-  |

## Exhibition:

An exhibition of acoustic instruments and related articles would be held near the venue of the symposium. Stalls will be provided with table, two chairs and power supply with adequate lighting and a pedestal fan. Display items and charts to be brought by the firm booking the stall. Tariff for each stall is Rs 30,000/- plus GST as applicable (18% as of now). Firms are invited to utilize this opportunity to show case their products/articles to the delegates from all over India.