

27th International Workshop on Electromagnetic Nondestructive Evaluation (ENDE-2024)

March 4-6, 2024

Mamallapuram, India

<https://www.ende2024.in>

ENDE@2024



**Indira Gandhi Centre for Atomic Research
(IGCAR), Kalpakkam, Tamil Nadu, India**



**Indian Society for Nondestructive Testing
(ISNT), Kalpakkam Chapter**

About the Conference

ENDE conference is an important event for all scientists, engineers, and non-destructive testing practitioners with interests in eddy currents, flux leakage, potential drop, magnetic, micro-magnetic and microwave non-destructive evaluation (NDE) techniques. The first in the series took place as a workshop in 1995 in London UK, and has been followed by conferences held in various parts of the world.

The 27th in the series of international ENDE conference is being organised in India. The objective of the conference is to bring together engineers and scientists from universities, research institutions and industries who are active in research, development and industrial applications of Electromagnetic NDE.

Important Dates

	Date
First Call for Papers	15 th October, 2023
Deadline for Short Papers Submission	31 st January, 2024
Notification of Acceptance	1 st February, 2024
Early Bird Registration	15 th February, 2024
Conference dates	March 4 - 6, 2024
Full Paper Submission	31 st March, 2024

Organizers

The conference is jointly organized by Indira Gandhi Centre for Atomic Research (IGCAR), Kalpakkam, India (<http://www.igcar.gov.in/>) and Indian Society for Nondestructive Testing (ISNT) (<https://www.isnt.in>), Kalpakkam Chapter.

IGCAR is engaged in conducting broad based multidisciplinary scientific research directed towards fast reactor technology development including advanced NDE techniques for detection and characterization of defects, microstructures and residual stresses in structural materials.

ISNT promotes the awareness of science and technology of non-destructive testing (NDT) through education, research and exchange of technical information within the country and abroad. The family of ISNT has more than 5000 members comprising of scientists, engineers, researchers, manufacturers and academicians. These specialists represent virtually every industry and discipline involved in the NDT technology.

Venue

The conference will be held in, Mamallapuram, Tamil Nadu, India. Mamallapuram (also called Mahabalipuram) is a UNESCO world heritage site and is famous for traditional art & culture. The town is known for various historic monuments, particularly, monolithic rock carvings, built largely between 700 and 900 AD. Mamallapuram is located about 60 km south of Chennai city along the east coast. This was also the place for the 44th International Chess Olympiad which was held in July-August, 2022 with over 2000 participants from 186 countries. Indira Gandhi Centre for Atomic Research, Kalpakkam is also situated 12 km away from this place.

The nearest international airport is in Chennai and is well connected with the rest of the world. It is also connected to all major cities in India by air, rail and road. Mamallapuram is well connected to Chennai by road and surrounded by good hotels for stay. The month of March here is pleasant with temperatures around 25°C. Indian currency is Rupees (Indian Rupees, ₹). All foreign visitors require VISA to visit India. Invitation letters will be provided on request to the participants. Check the embassy of India in your country for details.

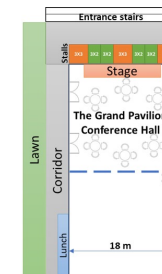
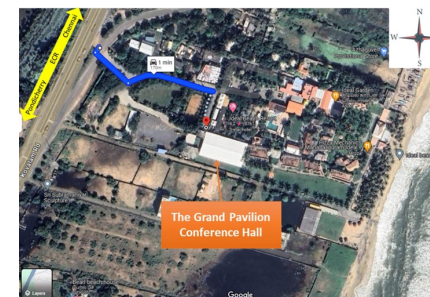
Following are some of the good hotels nearby

- [Kaldan Samudhra Palace](#) - 5 Star
- [Welcom hotel By ITC Hotels](#) - 5 Star
- [Sheraton Grand Chennai Resort & Spa](#) - 5 Star
- [Radisson Blu Temple Bay](#) - 5 Star
- [Four Points by Sheraton](#) - 4 Star
- [Grande Bay Resort and Spa](#) - 4 Star
- [Charriot Beach Resort](#) - 4 Star
- [Hotel Mamalla Heritage](#) - 3 Star
- [Ideal Beach Resort](#) - 3 Star
- [Hotel Mahabs](#) - 3 Star

Conference Venue

IDEAL BEACH RESORT – THE GRAND PAVILION, MAMALLAPURAM, TAMIL NADU, INDIA

<http://www.idealresort.com>



How to get here

Ideal Beach Resort is on the East Coast Road and well connected with the State capital “Chennai”. It is located merely two and a half kilometers from the cultural town of Mamallapuram / Mahabalipuram and the historical world heritage UNESCO sites and it is very easily accessible both by car, public transportation (bus) or bike!

Distances

- 55 km from Chennai International Airport
- 53 km from Chennai Central railway station
- 32 km from Chengalpattu railway Station
- 18 km from Indira Gandhi Centre for Atomic Research
- 3.5 km from the Mahabalipuram Town

Ground Transportation from Mahabalipuram

- 7 minute by car or taxi
- 25 minutes by bus (Bus No. 589,588,588B)
- 48 minutes on foot, walking along the East Coast Rd

International Steering Committee

Name	Country	Name	Country
Antonello Tamburrino	Italy	Noritaka Yusa	Japan
Artur Lopes Ribeiro	Portugal	Sandor Bilicz	Hungary
Christophe Reboud	France	Satish Udpa	USA
Dominique Lesselier	France	Theodoros Theodoulidis	Greece
Guglielmo Rubinacci	Italy	S. Thirunavukkarasu	India
Gui Yun Tian	UK	Tomasz Chady	Poland
Helena G Ramos	Portugal	Toshiyuki Takagi	Japan
Klara Capova	Slovak Republic	Yiming Deng	USA
Lalita Udpa	USA	Zhenmao Chen	China

National Advisory Committee

Name			
A.K. Das	NTPC, New Delhi	M.T. Shyamsunder	GE (Retd.), Bengaluru
Arbind Kumar	BARC, Mumbai	P.P. Nanekar	BARC, Mumbai
B. Venkatraman	IGCAR, Kalpakkam	Prabhu Rajagopal	IIT Madras
Bikash Ghose	HEMRL-DRDO, Pune	S. Kalyanasundaram	NAL, Bengaluru
C.V. Krishnamurthy	IIT Madras	S. Palit Sagar	NML, Jamshedpur
Kavitha Arunachalam	IIT Madras	Thomas Mathew	NPCIL, Mumbai
Komal Kapoor	NFC, Hyderabad	Umakanthan Anand	Reliance Industries
K. Balasubramaniam	IIT Madras		
M. Arumugam	ISRO, Bengaluru		

Local Organising Committee

Patrons	R. Divakar John Phillip
Conference Chair	Anish Kumar
Convener	S. Thirunavukkarasu
Treasurer	D.N. Sangeetha
Sub-Committees	
Technical	S. Mahadevan (Convener) S. Thirunavukkarasu W. Sharat Chandra Singh Arjun V
Souvenir & Sessions Management	A. Viswanath (Convener) R. Dhayalan G.M.S.K. Chaitanya
Registration	B. Sasi (Convener) K. Arunmuthu G.V.K. Kishore Deepak Patel
Finance	W. Sharat Chandra Singh (Convener) M.V. Kuppusamy Arjun V
Hall Arrangement & Exhibition	S. Mahadevan (Convener) G.M.S.K. Chaitanya T.K. Haneef
Transport & Accommodation	Govind Kumar Sharma (Convener) R. Manoj Kumar Raja Tikesh Kumar Sahu
Catering	K.V. Rajkumar (Convener) S. Ponseenivasan Deepak Patel
Web site Team	S. Thirunavukkarasu

Registration Fees

CATEGORY	Early bird Registration Till January 15, 2024	After January 15, 2024
INDIAN		
Delegates	₹ 17,500	₹ 20,000
Students	₹ 10,000	₹ 12,500
Spouse	₹ 5,000	₹ 5,500
OVERSEAS		
Delegates	\$ 500	\$ 550
Students	\$ 300	\$ 350
Spouse	\$ 200	\$ 200
All prices inclusive of GST @ 18%		

Registration fee includes presentation of one paper, lunch/dinner/coffee and printed proceedings. For more information on registration please contact us at registration@ende2024.in. Individual registration is a must to present the paper at the Conference.

Remittance may be made in the form of Demand Draft in favour of: **“ISNT Kalpakkam Chapter” payable at SBI Kalpakkam.** Online payment may also be made to:

Account Name	ISNT KALPAKKAM CHAPTER
Account Number	00000037851623660
Account Type	Current Account
Bank	State Bank of India
Branch	Kalpakkam Branch
IFSC Code	SBIN0002219 (India)
SWIFT Code	SBININBB298 (International)

Abstract Submission

Contributed papers from authors are invited on topics listed in the scope of the conference. Authors are requested to submit unpublished one or maximum two A4 pages of extended abstracts. Please visit website to download the Abstract Template. Authors of the accepted papers will be encouraged to submit full length papers for peer review and publication in a special issue of [International Journal of Applied Electromagnetics and Mechanics](#), IOS Press.

Scope of the conference

- Analytical and Numerical modelling in ENDE (Eddy current, Flux Leakage, Potential Drop, Magnetic, Micro Magnetic and Microwave NDE techniques)
- Inverse Problems and Imaging
- Industrial Applications in ENDE
- Data Fusion, Signal and Image processing methods
- Machine learning methods and surrogate modelling
- Material characterization (stresses, microstructure and defects in metallic and composite)
- Microwave NDE, Ground Penetrating Radar, and Terra Hertz Imaging
- Advanced ENDE sensors such as electromagnetic acoustic transducers (EMAT) and novel applications including Biomedical

Contact Us

Please visit <https://www.ende2024.in> for details. For queries related to accommodation, transportation or any other information regarding ENDE-2024, please contact us at info@ende2024.in or registration@ende2024.in

Dr. Anish Kumar
Chairman, ENDE-2024
Head, NDE Division
MMG, IGCAR
Kalpakkam - 603 102, TN, INDIA
E-mail: anish@igcar.gov.in
Tel.: +91 44 27480232

Dr. S. Thirunavukkarasu
Convener, ENDE-2024
Head, EMSI Section
NDE Division, IGCAR
Kalpakkam - 603 102, TN, INDIA
Email: sta@igcar.gov.in
Tel.: +91 44 27480500 Extn. 23630

History of ENDE Workshops

ENDE	Location	Year
1st ENDE	London, UK	1995
2nd ENDE	Tokyo, Japan	1996
3rd ENDE	Reggio Calabria, Italy	1997
4th ENDE	Chatou, France	1998
5th ENDE	Des Moines, USA	1999
6th ENDE	Budapest, Hungary	2000
7th ENDE	Kobe, Japan	2001
8th ENDE	Saarbrücken, Germany	2002
9th ENDE	Saclay, France	2003
10th ENDE	East Lansing, USA	2004
11th ENDE	Iwate, Japan	2006
12th ENDE	Cardiff, United Kingdom	2007
13th ENDE	Seoul, Korea	2008
14th ENDE	Dayton, United States	2009
15th ENDE	Szczecin, Poland	2010
16th ENDE	Chennai, India	2011
17th ENDE	Rio de Janeiro, Brazil	2012
18th ENDE	Bratislava, Slovakia	2013
19th ENDE	Xi'an, China	2014
20th ENDE	Sendai, Japan	2015
21st ENDE	Lisbon, Portugal	2016
22nd ENDE	Saclay, France	2017
23rd ENDE	Detroit, USA	2018
24th ENDE	Chengdu, China	2019
25th ENDE	Budapest, Hungary	2020
26th ENDE	Thessaloniki, Greece	2023

TECHNICAL LECTURES AT A GLANCE

PLENARY LECTURES

S. No.	Speaker Name	Organization
PL-01	Dr. CHRISTOPHE REBOUD	CEA, FRANCE
PL-02	Dr. KOMAL KAPOOR	CHIEF EXECUTIVE, NUCLEAR FUEL COMPLEX, HYDERABAD, INDIA
PL-03	Prof. WALTER ARNOLD	SAARLAND UNIVERSITY, GERMANY
PL-04	Prof. KRISHNAN BALASUBRAMANIAM	INSTITUTE PROFESSOR, IIT MADRAS, CHENNAI, INDIA

KEYNOTE LECTURES

S. No.	Speaker Name	Organization
KL-01	Prof. KAVITHA ARUNACHALAM	IIT MADRAS, CHENNAI, INDIA
KL-02	Dr. ANIL KUMAR DAS	NETRA, NEW DELHI, INDIA
KL-03	Mr. ARBIND KUMAR	QAD, BARC, MUMBAI, INDIA
KL-04	Dr. APARNA SHEILA VADDE	GE AEROSPACE, JFWTC, BENGALURU, INDIA
K-L05	Prof. YIMING DENG	MICHIGAN STATE UNIVERSITY, USA
KL-06	Mr. M.B. JADHAV	NPCIL, HQ, Mumbai, India

**35 CONTRIBUTORY PAPERS BY DIFFERENT
AUTHORS**

Sponsorship opportunities

Sponsorship Level	Fee	Benefits to Sponsor
Platinum Sponsor	₹ 5.00 Lakhs	<ul style="list-style-type: none"> ➤ Banner and display of Logo during the conference ➤ 3 standard size (3 m x 3 m) exhibition stall at venue ➤ Logo in website and souvenir ➤ One-page profile of the organisation in souvenir ➤ Full page colour advertisement in souvenir ➤ Free registration for 4 delegates
Gold Sponsor	₹ 3.00 Lakhs	<ul style="list-style-type: none"> ➤ Banner and display of Logo during the conference ➤ 2 standard size (3 m x 3 m) exhibition stall at venue ➤ Logo in website and souvenir ➤ One-page profile of the organisation in souvenir ➤ Full page colour advertisement in souvenir ➤ Free registration for 2 delegates
Silver Sponsor	₹ 2.00 Lakhs	<ul style="list-style-type: none"> ➤ Banner and display of Logo during the conference ➤ 2 standard size (3 m x 3 m) exhibition stall at venue ➤ Logo in website and souvenir ➤ One-page profile of the organisation in souvenir ➤ Full page colour advertisement in souvenir ➤ Free registration for 1 delegate

Exhibition Stall at Venue

Stall for 3 days with 1 Table, 2 Chairs, Spot light and one universal plug point, one page colour Advertisement in souvenir and free registration for one delegate	Stall size 3 m x 3 m	Fee ₹ 1.00 Lakh
<u>Special Offer for Indian Startups</u>		
Stall for 3 days with 1 Table, 1 Chair, Spot light and one universal plug point, one page colour Advertisement in souvenir and free registration for one delegate	Stall size 3 m x 2 m	Fee ₹ 35000/-

Advertisement Fee Detail

Advertisement Page	Cost
Back Outside Cover - Colour	₹ 75,000/-
Inside Cover - Colour	₹ 60,000/-
Full Page (Inside) - Colour	₹ 50,000/-
Half Page (Inside) - Colour	₹ 25,000/-

All prices exclusive of GST @ 18%

Advertisements in Souvenir (Required from the advertiser)

Paper size : A4
 Print Area : 17 x 24 cm
 Print material : Preferably Soft copy / Art work / Typed Material / Positive

For more information on sponsorship opportunities, and stall booking for exhibition, please contact us at info@ende2024.in