



The Institution of Engineers (India)

*"102 Years of Relentless Journey towards
Engineering Advancement for Nation-building since 1920"*

All India Seminar on " Optimizing the Demand of Material Science with the help of Recent Technologies"

July 28 - 29, 2023

Organised by

**The Institution of Engineers (India)
TAMILNADU STATE CENTRE**

Under the aegis of

Metallurgical and Materials Engineering Division Board, IE(I)

in association with



Thiagarajar Polytechnic College, Salem

Venue

**TPT Alumni Auditorium
Thiagarajar Polytechnic College
TPT Main Road (Junction)
Salem – 636005 (TN)
www.tpt.edu.in**



ABOUT THE INSTITUTION OF ENGINEERS (INDIA)

The Institution of Engineers (India) or IE(I) is the largest multi disciplinary professional body that encompasses 15 engineering disciplines and gives engineers a global platform from which to share professional interest. IE(I) has membership strength of over 0.8 million. Established in 1920, with its headquarters at 8 Gokhale Road, Kolkata - 700020, IE(I) has served the engineering fraternity for over nine decades. In this period of time, it has been inextricably linked with the history of modern-day engineering.

In 1935, IE(I) was incorporated by Royal Charter and remains the only professional body in India to be accorded this honour. Today, its quest for professional excellence has given it a place of pride in almost every prestigious and relevant organization across the globe. IE(I) functions among professional engineers, academicians and research workers. It provides a vast array of technical, professional and supporting services to the Government, Industries, Academia and the Engineering fraternity, operating from 125 Centres located across the country. The Institution has established R&D Centres at various locations in the country and also provides grant-in-aid to its members to conduct research and development on engineering subjects. For details, please visit www.ieindia.org

ABOUT TAMILNADU STATE CENTRE

The Tamil Nadu State Centre (TNSC) was established originally as the Southern India Centre at Chennai on 22nd December 1922. The Southern Region covered the erstwhile Madras, Andhra, Mysore, Hyderabad and Travancore – Cochin. As more centres were opened in the Southern Region, it was renamed as Madras Centre and later became the Tamil Nadu State Centre (TNSC). TNSC has a special significance in the formation of the Institution; for the IE(I) was registered in 1920 in then Madras Province at Chennai. The registered office was subsequently moved to Calcutta the Head Quarters of IE(I). The Chief Guest for the Inaugural Function of the Annual General Session of IE(I) Madras Centre in 1959 was Thiru K Kamaraj, Chief Minister of Tamil Nadu. The TNSC is the most active centre in the country and has been serving the society in general and the engineering community in particular with the said objectives and plays a significant role in dissemination and proliferation of knowledge amongst its members. With a modest membership to start with, the centre has brought into its fold a large section of fraternity with a membership strength of more than 30000 Corporate Members and more than 80000 Non – Corporate Members widening its horizon of technical activities. The centre has established sixteen Local Centres at Neyveli, Madurai, Coimbatore, Tiruchirappalli, Salem, Kalpakkam, Ranipet, Tuticorin, Hosur, Kanyakumari, Tirunelveli, Thiruvallur, Kanchepuram, Thanjavur, Erode and Kattankulathur to serve more professional groups.

ABOUT THIAGARAJAR POLYTECHNIC COLLEGE, SALEM

Thiagarajar Polytechnic College (TPT), a Govt. Aided, Autonomous Institution, is a sister concern of Sona Institutions, established in 1958, offers 12 Diploma Programmes of three year duration in various disciplines of engineering and technology. Its significant services in technical education have been reflected in achieving many awards and laurels such as the National Level Engineering Education Excellence Award from IE(I), National Level CII Industrial Innovation Awards, NBA accreditation for 5 diploma programmes for 6 years for the third time consecutively, National Level AICTE-CII Mentor Award, etc. The Institution has so far produced more than 65,000 technocrats who are spread across the globe in various coveted capacities and now, the Institution has been morphed as the most respected institution in the country.



TPT is the one and only Polytechnic College ranked in National Institutional Ranking Framework (NIRF) 2023 positioned in the Band of 151-300 in the Innovation Category among the higher education Institutions in India.

Best Innovative Educational Practices such as Student Centric Learning (SCL), Learning Management System (LMS), Student Facilitators for Peer Learning, Employer Centric Learning, Speakers' Forum, etc. are being implemented and followed in the Institution to raise the standards of the students on par with International. TPT has registered 54 patents and obtained 1 Patent and 1 copyright.

TPT students are continuously winning prizes for their innovative projects and products in various National and International competitions like First Prizes in TNSI Awards 2020 & 2021 for the innovative projects "Smart Dache" and "Smart Fertilizer and Seed Spraying Vehicle", First Prize in Smart India Hackathon 2020 for Smart Farming Solutions, First Prize in International Makeathon for the innovative project "e-bike FUERZA", etc.

TPT-Continuing Education Centre under Collaborative Industry Institute Connect Project (CIICP) offers a number of short-term certification programmes in software, hardware, communication, soft skills, skill development, etc. and nearly 1.00 lakh students have been certified.

Centre for Civil Testing and Consultancy has been functioning for more than five decades to offer testing services for all the building and road materials and recently obtained NABL accreditation.

For more information, please visit: www.tpt.edu.in

ABOUT THE SEMINAR

This seminar covers a broad spectrum of material science and its research including functional materials, ceramic matrix composites, light alloys, additive manufacturing welding and coatings. This seminar will showcase the advances in research as materials and their manufacture from automotive to aerospace application.

The engineers serving in the industries of eminence, scientists from research and development laboratories, faculty members, educational institutions, research associates and students pursuing their study in metallurgical engineering, material sciences, production engineering, mechanical engineering etc., will get benefitted by attending this seminar.

PAPERS FOR PRESENTATION

1. Material Science and Nano Technology
2. Automation in Welding
3. Advanced materials and processes.
4. Ceramic Matrix Composites
5. Aerospace Materials
6. Functional Materials
7. Ultrasonic additive manufacturing

Call for Papers

Prospective authors are invited to submit their manuscripts reporting original research and recent developments in the topics related to the conference to reach the administrative office not later than **15th July, 2023**. Kindly submit the soft copy of the presentation material in word format to our office email id : leitamilnadu@gmail.com



MEMBER / DELEGATE REGISTRATION

IEI Members Delegate Fee	INR 1000/-	Research Scholars / Students INR 500/-
Non IEI Members Delegate Fee	INR 1500/-	

GST 18 %. Applicable extra

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DATES TO REMEMBER :

➤ Submission of Abstracts	- 3 rd July 2023
➤ Acceptance of Abstracts	- 06 th July 2023
➤ Last date of Submission of Papers	- 15 th July 2023
➤ Seminar Dates	- 28 th - 29 th July 2023

SOUVENIR ADVERTISEMENTS :

You may also give wide publicity of your products in our Souvenir that will be released on the occasion. The following are the advertisement rates :

Outside Back Cover Page (Multicolour)	INR 25,000/- (2 Free Delegates)
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Dr N I Maheshwari, Committee Member, IE(I) TNSC

Er P K Natesan, Committee Member, IE(I) TNSC

Er S Priya, Committee Member, IE(I) TNSC

Dr A Kannan, Lecturer (Sr.Gr.) - Mechanical, Thiagarajar Polytechnic College, Salem

CONTACT: Convener, The Institution of Engineers (India), Tamilnadu State Centre

No 19, Swami Sivananda Salai, Chepauk, Chennai – 5

Email id: ieitamilnadu@gmail.com, Mobile No. : 9962950333



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with the help of Recent Technologies”**



The Institution of Engineers (India)

Tamil Nadu State Centre

July 28 - 29, 2023

REGISTRATION FORM / ADVERTISEMENT BOOKING FORM

The Honorary Secretary
The Institution of Engineers (India)
Tamil Nadu State Centre
19, Swami Sivananda Salai
Chepauk, Chennai-600 005

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19, Swami Sivananda Salai, Chepauk, Chennai 600 005.

Ph : 044-25360614 / 9962950333

Email : ieitamilnadu@gmail.com, tnsc@ieindia.org

Web : www.ieitnsc.org