Technical Programme

25th biennial DAE-BRNS Symposium on Thermal Analysis (THERMANS-2026)
Goa University, Goa, India
November 26-28, 2026.

Day 1: Thursday, November 26, 2026	
7:30 - 8:30	**Registration**
9:00-10:00	**Inaugural Function**
10.00-11.00	**Key note address:** Development and optimization of Thermochemical energy Storage Materials using Thermal Analysis Techniques **Prof. Luis Allan Perez Maqueda, Spain**
11:00-11:40	**Inauguration of stalls and High tea and symposium Photograph**
Session 1: (11:40 to 13:00) **Chair: Dr. S.R. Dharwadkar, Ex. BARC, Mumbai, India**	
IT-1	Nanoparticle assisted local hyperthermia in cancer therapy **Prof. Vesa-Pekka Lehto, University of Eastern Finland, Finland**
IT-2	Thermal Analysis-Guided Designing of Advanced Functional Materials for Sustainable Energy and Environment **Prof. Kulamani Parida, Siksha 'O' Anusandhan, Odisha, India**
FIT-1	Engineering nano-catalysts for advanced hydrogen generation from chemical hydrogen storage systems: addressing key challenges and opportunities **Dr. Amit Ashok Vernekar, CSIR-CLRI, Chennai, India**
Lunch (13:00 – 14:00)	
Session 2 (14:00 to 16:00) **Poster session with floating tea** **A01 -17, A-19 -27, A29 -35, C01-05, C08-09, E01-04, E07-11, E13-22**	
Session 3: (16:00 to 18:00) **Chair: Prof. H. Jena, Head, MCD, IGCAR, Kalpakkam, India**	
IT-3	Novel developments in kinetics of heterogeneous processes **Prof. A Rotaru, Babeș-Bolyai University, Romania**
IT-4	Calphad based alloy design & thermal analysis for FBR applications **Dr. C. Sudha, PMD, IGCAR, Kalpakkam, India**
Oral Presentations	**F-02,F-03, F-04, F-18 & G-06**
Cultural Programme: 18:30 to 20:00	

ITAS Dinner at Symposium Venue (20:00)	
Day 2: Friday, November 27, 2026	
Session 4 (9:30 to 11:05) **Chairs: Prof. R.K. Verma, Magadh University, Bodh Gaya, India**	
PL	Perspective on Thermal Transport Metrology for Super-Thermal Conducting Thin Films for Thermal Management of Electronics **Prof. Raj Narain Singh, Oklahoma State University, USA**
	ITAS Awardee's Presentation
Tea Break (11:05– 11:30)	
Session 5 (11:30 to 13:00) **Chair: Dr. S. Kannan, Former Director, RC & IG, BARC, Mumbai, India**	
IT-5	Researcher-Dependent Variability in Kinetic Analysis of Thermal Decomposition **Prof. Matkco Erceg, University of Split, Croatia**
FIT-2	Beyond Single Crystals: Solving Structure from Powder Diffraction Data **Prof. Digamber G. Porob, Goa University, Goa, India**
FIT-3	Thermal studies in understanding interactions of biomolecules with pharmacological agents: a step-in drug development with chemist's perspective **Dr. Prasad P. Phadnis, ChD, BARC, Mumbai, India**
FIT-4	Exploring the high temperature phase diagram by Spot-Technique **Dr. Dr S Balakrishnan, IGCAR, Kalpakkam, India**
Lunch (13:00 – 14:00)	
Session 6 (14:00 to 16:00) **Poster Session with floating tea** **(Categories B, D, F & G)** **B01-05, B07-13, B15-23, D01-11, F01, F05-17, F19-21, G01-05, G07-08**	
Session 7 (16:00 to 18:00) **Chair: Sr. Prof. Vidhyadatta M. S. Verenkar, SCS, Goa University, Goa, India**	
IT - 6	Thermophysical Properties of Emerging Nuclear Reactor Materials **Prof. Dheeraj Jain, RPCD, BARC, Mumbai, India**
FIT-5	Isothermal Titration Calorimetry – Thermodynamic Tool for Lanthanides and Actinides **Dr. Rama Mohana Rao Dumpala, RACD, BARC, Mumbai, India**
FIT-6	Phase Stability of interaction Products of Ni-Based Alloys in Molten FLiNaK Environments

	Dr. Sumanta Mukherjee, PDD, BARC, Mumbai, India
Oral Presentations	**C06, 07, E05, E06, E12**
Evening Lecture: 18.30 to 19.30 hrs **Chair: Sr. Prof. B. R. Srinivasan, Ex-SCS, Goa University, Goa, India** **Evening Lecture by: Prof. Sunil Kumar Singh, Director, National Institute of Oceanography, Goa**	
Conference Dinner (19:30 onwards)	
Day 3: Saturday, November 28, 2026	
Session 8 (9:30 to 11:00) **Chair: Prof. Raj Narain Singh, Oklahoma State University, USA**	
IT-7	Thermal Analysis of Nuclear Fuels and Materials: Applications, Challenges and Research Perspectives **Prof. Rajesh V Pai, FCD, BARC, Mumbai, India**
Oral Presentations	**A18, A-28, A-36, B06 & B14**
Tea Break (11:00 – 11:15)	
Session 9 (11:15 to 13:00) **Chair: Prof. Rajesh V Pai, Head, FCD, BARC, Mumbai, India** **Special Session on Role of Thermal Analysis in the progress of sciences** **Golden Jubilee year of ITAS (1977-2026)**	
Lunch (13:00 – 14:00)	
Session 10 (14:00 to 16.00) **Chair: Sr. Prof. Arun V. Salker, Ex-SCS, Goa University, Goa, India**	
IT-8	Calphad for multicomponent systems **Prof. Guruvidyathri K, University of Hyderabad, Hyderabad, India**
Technical Presentation	**Technical Presentations from various instrument developers and suppliers**
FIT-7	Commissioning of Knudsen effusion mass spectrometers and investigation of vaporization behaviour of materials relevant to nuclear field **Dr. P Manikandan, IGCAR, Kalpakkam, India**
Tea (16:00 – 16:30)	
Plenary Discussion and Valedictory Function (16:30)	
Total: Key Note -1, PL-1 , IT-8, FIT-7, Oral -15 Posters-115 in 2 sessions (Each 2.0 hrs), ITAS Awardee's Presentations: 5 No's, Technical Presentations –5 No's	

PL- Plenary Talk (35 Min), IT = Invited talk (30 min), FIT = Focused Invited Talk (20 min) & ORALS (12 Minutes), ITAS awardee's Presentation= 70 Minutes, Technical Presentations:70 Minutes