Mode of Presentation

Plenary/Invited/Oral/Poster

Conference Venue

DepartmentofPhysics, OsmaniaUniversity,
Hyderabad,Telangana (INDIA)

Contact Details

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Bank Details

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Account Name: AFMSESA-Physics
A/c. No : 44977709687
IFSC Code: SBIN0020071

Important Dates

Abstract submission dead line: Oct 20, 2026
Notification Notification of Acceptance: Oct 30, 2026
Early bird registration fee : Nov 10, 2026
Full-length Paper submission: Nov 23, 2026
Last date of registration: Nov 30, 2026
Journal for Publication(Peer Reviewed) in
Bulletin of Materials Science (Scoppus Index)

Registration Fee Details

Category	Before Nov, 10	After Nov, 10
Faculty / Scientists	**INR 5000/-**	**INR 6000/-**
Industrial Forum (2 days)	**INR 10000/-**	**INR 15000/-**
Exhibitors (3 days)	**INR 10000/-**	**INR 15000/-**
Scholars/Students	**INR 2500/-**	**INR 3500/-**
Accompanying person (India)	**INR 2000/-**	**INR 4000/-**
International Participants	**USD 200**	**USD 300**
Accompanying person (Int'l)	**USD 100**	**USD 150**

Note

- Registration fee includes conference kit and meals
- Accommodation charges will be borne by Participants.

Conference Topics

- Advanced Nanomaterials for Energy Storage and Conversion
- Batteries and Supercapacitor electrode materials
- Quantum computing and Quantum Materials Materials for Sensors, Imaging, and Glasses
- Optoelectronic & Luminescent Materials
- Smart Materials for Renewable Energy
- Advanced Functional Materials
- Catalysts for Environment Remediation
- 2D Materials/Sensors
- High-performance Structural Materials Spintronic and Multiferroic Materials Computational modelling and Simulations

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INTERNATIONAL CONFERENCE ON

ADVANCED FUNCTIONAL MATERIALS FOR SUSTAINABLE ENERGY STORAGE AND APPLICATIONS (AFMSESA-2026)

DECEMBER 29-31, 2026

ORGANIZED BY

Department of Physics

Osmania University,
Hyderabad, Telangana, INDIA

About Conference

The conference theme “International Conference on Advanced Functional Materials for Sustainable Energy Storage and Applications (AFMSESA-2026)” ties togetherthe pressing need for sustainability with the potential of materials science to drive transformative technological solutions. It aims to explore innovative research and development that contributes to a greener, more sustainable future throughcutting-edge advancements in both Battery, and Supercapacitor Technologies and material design applications. Moreover, this conference serves as a pivotalforum for academicians, researchers, and industry professionals across the globe to come together and explore the most recent developments in Battery and materials science. This academic forum serves as a catalyst for the exchange of innovative ideas, research findings, and collaborative initiatives aimed at addressing contemporary challenges for sustainable technology. Participants will have the opportunity to network with leading global experts and gain insights into cutting-edge research. The conference also aims to foster partnerships focusing towards sustainable Battery and materials science.

About Osmania University Hyderabad

Osmania University (OU) established in 1918 by Mir Osman Ali Khan, the 7th Nizam of Hyderabad with his royal decree (farman) on 26 April 1917, is the 7th Oldest in India and the 3rd oldest in South India is one of the premier educational institutions of India encompassing a vast, beautiful, and pollution-free campus sprawling over 1200 acres of land having vast playgrounds and experimental facilities, a botanical garden, a rose garden with Central Instrumental Facility, Gymnasium, Indoor Stadium, well equipped main Library, Hostels for both girls and boys, Administrative Block, Spacious Auditorium, Guest House, Community Centre, Health Centre, Canteen, Bank, and Post office.

The University affiliates 741 aided, government and self- financial colleges/institutions, catering more than 3.20 lakh students. The motto of the University ‘Tamaso mā jyotir gamaya’ (Lead me from darkness to light) is reflected in its vision and mission.

The University has 12 faculties and 53 teaching departments are housed in spacious buildings and have well- equipped laboratories and advanced research facilities. The University awarded with A+ by NAAC. The University achieved 30 rank among top 100 state universities in India as per NIRF-2025 ranking.

The University achieved 121 band in QS-2025 ranking among Southern Asian Universities. The University has been the top among all Telugu state Universities. The University stands as a symbol of academic excellence, cultural heritage, and social development. With its extensive academic programs, vast student body, research initiatives, and commitment to holistic education, OU continues to shape the minds of future leaders, scholars, and professionals while maintaining a pivotal role in the educational landscape of India and Southern Asia.

Department of Physics

The Department of Physics at Osmania University, established in 1918, is one of India’s oldest and most distinguished centers for physics education and research, with a legacy spanning more than a century. The department has earned a strong reputation for excellence in experimental physics, particularly in condensed matter and materials science, with significant contributions in crystal growth, thermoelectric materials, semiconductors, ferroelectric and magnetic systems, and advanced functional materials. Over time, it has expanded into frontier areas such as nanoscience and nanotechnology, spectroscopy and optical physics, high energy and nuclear physics, theoretical and computational physics, and applied domains including thin films, sensors, and energy-related materials. Equipped with advanced research facilities such as Xray diffraction, electron microscopy, spectroscopic systems, and thin-film fabrication units, the department fosters a vibrant research ecosystem supported by premier agencies like DSTFIST, UGC-SAP, DRDO, and CSIR. The department has played one of the most significant roles in advancing the domain of Physics at both national and international levels, through its sustained research output, collaborations, and contributions to scientific knowledge.

The department has been shaped by eminent stalwarts such as Prof. Bhagavantam, an internationally acclaimed crystallographer and former Director of DRDO, whose pioneering work brought global recognition. In addition, the influence of great physicists like Prof. K. S. Krishnan—known for his seminal contributions to magnetism and solid-state physics—has significantly guided and inspired research directions in the department and across the nation. Distinguished academicians such as Prof. B. S. R. Sastry and other senior faculty further strengthened strong research traditions in solid state physics and spectroscopy. In the contemporary era, the department continues to build on this legacy through prominent researchers including Prof. Hari Babu, Prof. Rama Reddy and Prof. S. V. Suryanarayana who are actively engaged in cutting-edge research in materials science, nanotechnology, and device-oriented physics, while fostering national and international collaborations.

With more than 660 Ph.D.s awarded and over 2700 research publications, the department has made a profound impact on the scientific community and has nurtured a distinguished body of alumni who occupy high-profile positions in leading institutions across India and abroad, including organizations such as ISRO, DRDO, BARC and C-MET, as well as reputed universities (India and Abroad) and global research centers. Many alumni have emerged as eminent scientists, academicians, and industry leaders, reflecting the department’s enduring contribution to scientific and technological advancement. Offering comprehensive M.Sc. in Physics, M.Sc. in Applied Electronics, and a Postgraduate Diploma in Radiological Physics and Ph.D. programs with strong theoretical grounding and experimental training, supported by fellowships such as UGC-NET GATE, and CSIR, the Department of Physics at Osmania University continues to stand as a center of excellence, seamlessly blending its rich heritage with modern innovation to address emerging challenges in physics at both national and global levels.

Hyderabad: Historical background

Hyderabad, the capital of Telangana, is a vibrant city that seamlessly blends history, culture, and modernity. Known as the “City of Pearls”, it has been a center of learning, trade, and innovation for centuries. Historical landmarks such as the Charminar, Golconda Fort, Chowmohalla Palace, and the Salar Jung Museum showcase the city’s rich architectural and cultural heritage. In addition to its historical charm, Hyderabad has emerged as a major hub for technology and finance.

The HiTech City houses numerous IT and research companies, while the Financial District is home to global business headquarters, investment firms, and corporate offices. Visitors attending AFMSESA-2026 can explore these modern districts to witness Hyderabad’s dynamic growth in science, technology, and commerce.

Hyderabad also offers a rich culinary experience, with the world-famous Hyderabadi Biryani, traditional street food, and diverse international cuisine. Other attractions include Hussain Sagar Lake, Ramoji Film City, and vibrant shopping districts. With its excellent connectivity via Rajiv Gandhi International Airport, metro, and road networks, reaching Osmania University and other key locations is convenient. For international participants, Hyderabad provides a unique blend of historic heritage, modern infrastructure, and cultural vibrancy, making it an ideal setting for academic engagement, networking, and exploration during AFMSESA-2026

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