Rayat Shikshan Sanstha's
Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College
Manchar, Tal. Ambegaon, Dist. Pune
Department of Mathematics

One Day International Conference report 2024-25

The One Day International Conference on "Recent Advances in Energy Harvesting & Applications"(RAEHA) was successfully held on **01/03/2025** in Hybrid Mode, organized by Department of Electronic Science, Physics & Mathematics at Annasaheb Awate College, Manchar. The conference brought together researchers, academicians, industry professionals, and students from diverse countries to explore the latest developments in the field of energy harvesting and its practical applications.

Objectives of the Conference

- To provide a platform for sharing cutting-edge research in energy harvesting technologies.
- To discuss the interdisciplinary applications and emerging trends in energy systems.
- To promote collaboration between academia and industry.
- To encourage young researchers and innovators in the field of sustainable energy.

Inaugural Session

The Inaugural Session of the One Day International Conference) began at 10.00 am with a warm welcome extended to all distinguished guests, keynote speakers, participants, and attendees from across the globe. The traditional lamp-lighting ceremony marked the auspicious beginning of the conference, symbolizing the illumination of knowledge and wisdom. Ms. A. M. Dange, Coordinator of RAEHA-2025, formally welcomed the audience and introduced the objectives and significance of the conference. She outlined the theme, highlighting the importance of sustainable energy and advancements in harvesting technologies. Following the introduction, a felicitation ceremony was conducted to honor the distinguished dignitaries:

- Hon. Dr. Bharat Kale
  Former Scientist – Gr. Director General, C-MET; Director, Materials Science, MITWPU, Pune
- Hon. Dr. Gopinath T
  Faculty, MIT WPU, Pune; Young Associate MASC
- Principal Dr. N. S. Gaikwad
  Principal, Annasaheb Awate College, Manchar

Each guest was presented with a memento and a token of appreciation in recognition of their valuable contributions to the scientific and academic community. The event witnessed active participation from **110 delegates**, including international and national attendees, making it a significant academic milestone for the department.

Dr. Bharat Kale, the keynote speaker, delivered an insightful and thought-provoking address. He elaborated on recent breakthroughs in materials science and their relevance to energy harvesting

technologies, setting an intellectually stimulating tone for the conference. The presidential address was delivered by Hon. Principal Dr. N. S. Gaikwad. He emphasized the institution's commitment to fostering research and innovation and appreciated the efforts of the organizing team in hosting an international-level academic event. Dr. S. C. Mahakal, Organizing Secretary of RAEHA-2025, extended a heartfelt Vote of Thanks, expressing gratitude to all speakers, participants, supporting staff, and attendees (both offline and online) for their involvement and enthusiasm. The entire inaugural session was smoothly conducted by Ms. H. J. Gavit and Dr. S. S. Patil, who served as session anchors, ensuring a seamless flow of the program.

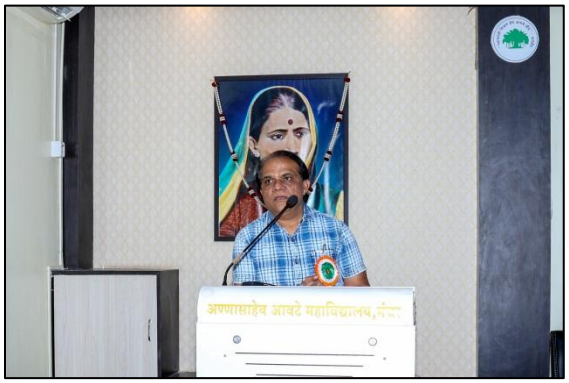






Session I

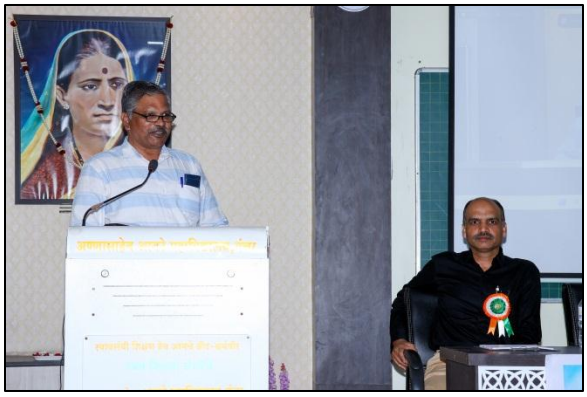
The first technical session of the conference was chaired by the esteemed Dr. Bharat Kale, a renowned expert in material science and energy systems. The session featured an engaging and insightful talk by Dr. Gopinath T, who presented on the topic "Advanced Concepts in Energy Harvesting". Dr. Gopinath's presentation delved into the core principles and emerging mechanisms in energy harvesting technologies. The session concluded with a thoughtful Vote of Thanks by Mr. V. P. Mhaske, who appreciated the speaker's contributions and acknowledged the relevance of the topic in the current energy landscape.





Session II

The second session of the conference was presided over by Dr. S. B. Misal, Assistant Professor at AAC, Manchar, who skillfully moderated the session and ensured its smooth progression. The keynote speaker, Dr. S. D. Sartale, a distinguished professor from Savitribai Phule Pune University, delivered a highly engaging and technically enriching talk. His presentation focused on the emerging trends and research advancements in energy harvesting, drawing attention to the innovations transforming both academic and industrial landscapes.





Session III

The third technical session of the conference was chaired by Dr. S. D. Sartale, who returned to moderate the session with his usual academic finesse. The session featured a virtual expert talk delivered by Dr. B. R. Sankpal, a seasoned professor from Visvesvaraya National Institute of Technology (VNIT), Nagpur. Dr. Sankpal's online lecture focused on Multidisciplinary Approaches in Energy Harvesting Systems, emphasizing the intersection of electrical, mechanical, and materials engineering in developing innovative energy solutions. The speaker was warmly introduced by Mr. H. S. Shirke, who detailed Dr. Sankpal's professional achievements and research credentials. The session concluded with a thoughtful Vote of Thanks by Mr. S. B. Bhalke, who appreciated the clarity and depth of the speaker's insights.





Session IV

The fourth and final session was a significant highlight of the international segment of the conference, conducted in online mode, featuring a global perspective on the advancements in smart energy technologies. The session was chaired by Dr. A. A. Kale, Assistant Professor at AAC, Manchar who opened the session with thoughtful remarks on the importance of international collaboration in renewable energy research. The keynote speaker, Dr. Manisha Phadatare, a researcher at Mid Sweden University, Sweden, presented on the topic of "Smart Energy Systems for Sustainable Development." Mr. M. D. Rokade introduced the speaker with an overview of her academic and research accomplishments in the field of energy systems and sustainability.Following the enlightening session, Mr. P. V. Kurkute delivered a warm Vote of Thanks, expressing gratitude for Dr. Phadatare's contribution and highlighting the relevance of her talk to the theme of the conference.

Valedictory Session

The Valedictory Session of the conference marked the formal conclusion of a fruitful and enlightening day of discussions, presentations, and academic exchange. The session began at 4:00 PM and was gracefully anchored by Ms. H. J. Gavit and Dr. S. S. Patil. Dr. S. C. Mahakal, the Organizing Secretary of RAEHA-2025, opened the session with a warm welcome and expressed gratitude to all the speakers, participants, and dignitaries for their active involvement throughout the day. He provided a brief overview of the day's proceedings, highlighting the diverse and rich content covered across the sessions. Dr. S. D. Sartale emphasized the need for continuous innovation in energy harvesting and encouraged more collaboration between academia and industry. Dr. Manisha Phadatare, joining virtually from Sweden, discussed the global research trends in smart energy systems and encouraged Indian institutions to participate in international research exchanges. Hon. Prin. Dr. N. S. Gaikwad, Principal, AAC Manchar, delivered the presidential address. He commended the efforts of the organizing team and acknowledged the dedication of all volunteers, faculty, and support staff. He also emphasized the college's continued commitment to promoting research, innovation, and sustainable development. The session concluded with a formal Vote of Thanks delivered by Dr. S. T. Shinde, Co-Convenor, RAEHA-2025. He extended heartfelt thanks to all invited speakers, delegates, technical staff and students for making the event a grand success.





Conclusion

The Valedictory Session brought a memorable close to RAEHA-2025, reinforcing the significance of research in energy harvesting and the critical role of academic conferences in driving global innovation.

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