



Report on the Seminar: "Electromagnetic Levitation System & Its Innovative Applications"

Date: 29th September 2023
Time: 2:30 PM
Venue: Seminar Hall, RERFGI

• **Introduction**

In the realm of contemporary education and research, the Regent Education & Research Foundation Group of Institutions stands as a beacon of innovation and practical learning. Upholding this tradition, the Institution's Innovation Council (IIC Cell) convened an insightful seminar on "Electromagnetic Levitation System & Its Innovative Applications" on 29th September 2023. This seminar, masterminded under the guidance of Dr. Suman Jana, was not just an academic exercise but a confluence of knowledge, expertise, and visionary thought. It served as a platform for the dissemination of specialized knowledge and encouraged the exploration of futuristic technologies in the field of electromagnetics.

• **Objectives of the Program**

- 1. Educational Enhancement:** To elevate the academic experience by integrating advanced scientific concepts with practical applications, especially in the intriguing domain of electromagnetic levitation.
- 2. Promotion of Innovative Thinking:** The seminar aimed to spark creative and innovative thinking among students and faculty, encouraging them to envision and explore new frontiers in technology.
- 3. Industry-Relevant Learning:** By focusing on applications of electromagnetic levitation in various industrial scenarios, the program intended to bridge the gap between academic learning and industry requirements.
- 4. Expert Knowledge Sharing:** Facilitating the exchange of ideas and knowledge from seasoned experts like Dr. Pabitra Kumar Biswas to the academic community of the institution, enriching the learning ecosystem.
- 5. Interactive Learning Environment:** Creating an engaging and interactive platform for students and faculty to interact with experts, fostering a dynamic learning environment.

• **Organizing committee:**

Sl No.	Name	Designation	Department
1.	Dr. Suparna Panchanan	President	ECE
2.	Dr. Suman Jana	Convener	EEE
3.	Ms. Anamika Basu	NIRF Coordinator	BSH

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4.	Ms. Debarati Ghosh	Member	BSH
5.	Mr. Subhadip Mondal	Social Media Coordinator	CE
6.	Mr. Bipul Dhali	Internship Activity Coordinator	EEE
7.	Mr. Sabyasachi Mukherjee	Member	ME
8.	Mr. Suprovat Basu	IPR Activity Coordinator	MBA
9.	Mr. Krishnakanta Maity	Innovation Activity Coordinator	MCA
10.	Mr. Arindam Bhadury	Member	CE
11.	Mr. Sreedip Ghosh	Startup Activity Coordinator	EE

• Keynote Speaker: Dr. Pabitra Kumar Biswas

The seminar was notably highlighted by the presence of Dr. Pabitra Kumar Biswas, Associate Professor from the National Institute of Technology, Mizoram, as the keynote speaker. Dr. Biswas, a distinguished figure in the field of electrical and electronics engineering, brought with him a wealth of knowledge and experience, particularly in electromagnetic levitation systems.

Expertise and Insight:

Dr. Biswas's expertise in the subject was evident from his comprehensive and lucid explanation of the complex principles underlying electromagnetic levitation. His ability to translate intricate scientific concepts into understandable terms was invaluable for the diverse audience of the seminar.

Innovative Applications:

The focal point of his address was the innovative applications of electromagnetic levitation technology. He elaborated on various cutting-edge uses of this technology, ranging from advanced transportation solutions, such as maglev trains, to its potential in material handling and processing. His presentation not only covered the current state of technology but also ventured into future possibilities and advancements.

Engagement and Interaction:

Dr. Biswas's session was highly interactive, encouraging questions and discussions from the participants. His approachable demeanor and willingness to engage in detailed explanations made the session particularly enlightening for the students and faculty alike. He effectively managed to transform the seminar from a traditional lecture to a dynamic and engaging learning experience.

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Contribution to Learning:

The depth of knowledge shared by Dr. Biswas significantly contributed to the academic enrichment of the participants. His insights provided a deeper understanding of the subject, inspiring the attendees to explore further and contemplate the practical implications of this technology in various fields.

• Event Proceedings

Inauguration and Welcome:

The seminar on "Electromagnetic Levitation System & Its Innovative Applications" commenced with an inaugural ceremony that set a tone of reverence and scholarly pursuit. Prof. (Dr.) Samik Chakraborty, Principal of the Regent Education & Research Foundation Group of Institutions, along with Dr. Pabitra Kumar Biswas and Dr. Suparna Panchanan, inaugurated the event by lighting the traditional Diya. This act, deeply rooted in cultural symbolism, represented the enlightenment that knowledge and learning bring to society.

Session Hosting by Dr. Suparna Panchanan:

Dr. Suparna Panchanan, a respected figure at the institution, hosted the seminar. Her role was pivotal in seamlessly transitioning through various segments of the event, engaging the audience, and facilitating an interactive environment. Her introduction of the keynote speaker and context setting for the seminar theme was both informative and welcoming.

Keynote Address by Dr. Pabitra Kumar Biswas:

The core of the seminar was the enlightening keynote address by Dr. Biswas. His detailed exposition on electromagnetic levitation systems and their applications captured the audience's attention. The session was marked by an impressive blend of theoretical knowledge, practical insights, and foresight into future technological advancements.

Interactive Session and Q&A:

Post the keynote address, an interactive Q&A session ensued, where Dr. Biswas addressed queries from students and faculty members. This segment was particularly engaging, providing attendees the opportunity to clarify doubts, explore deeper into the subject, and discuss real-world applications.

Participation and Engagement:

The seminar saw active participation from the attendees, including 44 students, 5 internal faculties, and 4 external faculties. The high level of engagement was evident in the lively discussions and the keen interest shown by the participants during the Q&A session.

Conclusion and Vote of Thanks:

The seminar concluded with a vote of thanks by Prof. (Dr.) Samik Chakraborty. He expressed gratitude towards Dr. Biswas for his invaluable contributions, Dr. Panchanan for her excellent hosting, and all the

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participants for their active involvement. Prof. Chakraborty's closing remarks underscored the importance of such seminars in fostering a culture of learning and innovation within the academic community.

• Participants

Participation Summary:

- Total Participants: 53
- Students: 44
- Internal Faculties/Teaching Assistants: 5
- External Faculties: 4

Diverse Audience:

The seminar on "Electromagnetic Levitation System & Its Innovative Applications" attracted a diverse group of participants, reflecting the inclusive and broad-reaching nature of the event. This diversity not only added to the richness of the discussions but also exemplified the seminar's appeal across various academic and professional spheres.

Student Participation:

A significant portion of the audience was composed of students, with a total of 44 students in attendance. These participants, hailing from different academic years and specializations, brought with them a vibrant curiosity and eagerness to learn. Their active participation, particularly in the Q&A session, highlighted their keen interest in the subject and its applications.

Faculty and Teaching Assistants:

The seminar was also attended by 5 internal faculty members and teaching assistants from the Regent Education & Research Foundation Group of Institutions. Their presence underscored the importance of continuous learning and academic engagement for educators. The faculty members' involvement in the discussions enriched the seminar's intellectual environment.

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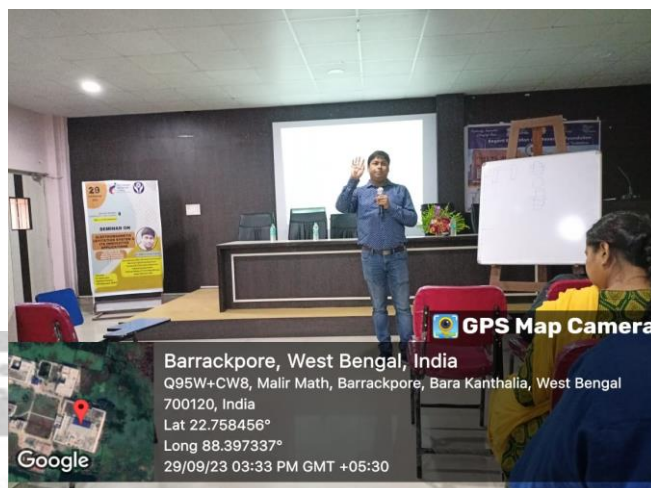
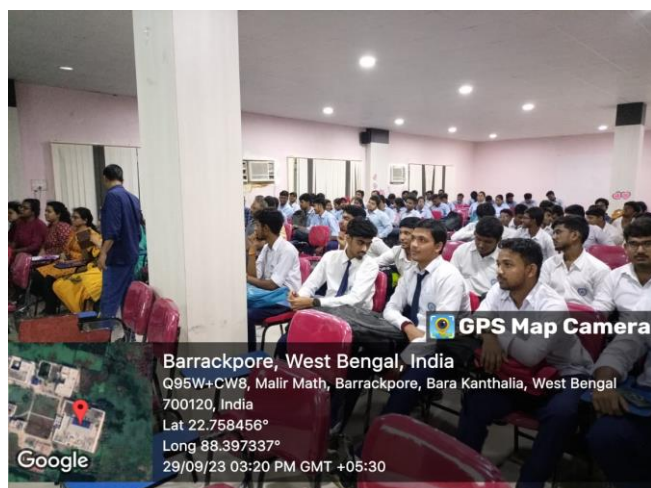
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External Faculty Attendance:

Adding to the seminar's academic depth were 4 external faculty members. Their participation not only facilitated an exchange of ideas and perspectives between different institutions but also provided a broader context to the discussions. The external faculties' insights and contributions were invaluable in understanding the wider implications and applications of the subject matter.

• Feedback and Interaction

Positive Reception:

The seminar on "Electromagnetic Levitation System & Its Innovative Applications" was met with

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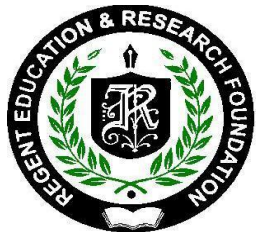
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overwhelmingly positive feedback from the participants. This positive reception is a testament to the seminar's relevance, the quality of the presentation, and the overall organization of the event.

Engagement During the Seminar:

The level of engagement during the seminar was notably high. Participants actively engaged with the keynote speaker, Dr. Pabitra Kumar Biswas, through thoughtful questions and discussions. This interaction was a highlight of the event, facilitating a deeper understanding of the subject and fostering a collaborative learning atmosphere.

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Date: 15.09.2023

NOTICE

Subject: Seminar on Electromagnetic Levitation System & Its Innovative Applications

This is to notify all interested staff, students, and members of the RERF community that the IC Cell of RERF will organize a distinguished seminar on the topic of "Electromagnetic Levitation System & Its Innovative Applications".

Details of the seminar are as follows:-
- Date: 29th September 2023
- Time: 2:30 PM onwards
- Venue: Seminar Hall, RERF Campus

We are honored to have Dr. Pabitra Kumar Biswas, Associate Professor, Department of Electrical and Electronics Engineering, National Institute of Technology Mizoram, as our keynote speaker for the event.

All diploma and B.Tech students from any year and all faculty members are encouraged to participate. A registration link will be provided shortly. This seminar offers participants an excellent opportunity to delve deeper into real-world applications, fostering a better understanding and inspiring innovative thought processes. Beyond the certificate of participation, attendees will gain insights that can be pivotal in shaping their academic and professional pursuits.

All are cordially invited to attend and enrich their knowledge on this topic.

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INSTITUTION'S INNOVATION COUNCIL
(Initiative of RERF)

29 SEPTEMBER 2023

PLACE OF THE EVENT
SEMINAR HALL, RERF CAMPUS

TIME: 2:30 PM ONWARDS

SEMINAR ON

ELECTROMAGNETIC LEVITATION SYSTEM & ITS INNOVATIVE APPLICATIONS

ORGANIZED BY IC, REGENT EDUCATION & RESEARCH FOUNDATION GROUP OF INSTITUTIONS

Convenor:
Dr. Suman Jana
Assistant Professor,
EEE Department, RERFI

Last Date of Registration is 28th sept, 2023

CLICK HERE TO REGISTER

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Barrackpore, Kolkata

Proudly Presents

Certificate of Appreciation
with heartiest gratitude to

Dr. Pabitra Kumar Biswas

Electrical Engineering Department,
National Institute of Technology Mizoram,
Aizawl, Mizoram, India

for his phenomenal and worthy Seminar program
on
"Electromagnetic Levitation System & Its Innovative Applications"
on 29th September, 2023

DR. SUMAN JANA
CONVENOR, IIC, RERFI

DR. SAMIK CHAKRABORTY
PRINCIPAL, RERFI

Feedback from Students:

Students, as a significant part of the audience, expressed particular appreciation for the seminar. They found the session to be enlightening, with many highlighting how the seminar broadened their perspective on electromagnetic levitation and its applications. The students' feedback underscored the seminar's success in enhancing their academic and intellectual horizons.

Faculty Insights:

Feedback from faculty members and teaching assistants was equally positive. They appreciated the seminar for its advanced content and the opportunity it provided for professional development and staying updated with the latest trends in the field.

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External Faculty Contributions:

The external faculties provided valuable insights during the seminar, adding depth to the discussions. Their feedback emphasized the importance of such interdisciplinary and inter-institutional collaborations in academic circles.

• Conclusion and Outcome

Successful Achievement of Objectives:

The seminar on "Electromagnetic Levitation System & Its Innovative Applications" successfully met its objectives, creating a rich educational experience that combined theoretical understanding with insights into practical applications. The event effectively bridged the gap between academic knowledge and real-world technological advancements.

Enhanced Understanding and Inspiration:

One of the key outcomes of the seminar was the enhanced understanding of electromagnetic levitation systems among the participants. Students and faculty alike gained valuable insights into this advanced field, sparking curiosity and inspiration for further exploration and research.

Catalyst for Future Endeavors:

The seminar served as a catalyst for future academic and research endeavors. The discussions and

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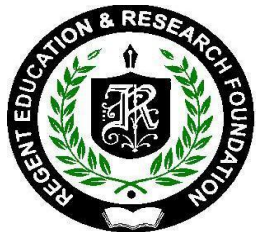
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interactions during the event laid the groundwork for potential collaborative projects, research initiatives, and further study into the subject matter.

Strengthening Academic and Industry Relations:

By focusing on innovative applications, the seminar also contributed to strengthening the relationship between academia and industry. It emphasized the importance of staying abreast of technological developments and their practical implications.

Acknowledgment of Contributions:

In conclusion, the seminar's success was a collective achievement, made possible by the contributions of the keynote speaker, Dr. Pabitra Kumar Biswas, the diligent organization by the IIC Cell, and the active participation of students, faculty, and external academicians. The seminar demonstrated the institution's commitment to fostering an environment of learning, innovation, and collaboration.

Looking Forward:

Moving forward, the seminar sets a precedent for future events of similar caliber and relevance, encouraging continued engagement and intellectual growth within the Regent Education & Research Foundation community.

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