



From the Director's Desk



By the time this newsletter reaches you, it will already be 2024, and let me wish you and your families the very best that the new year has to offer.

What a curious coincidence that when the country was celebrating its platinum jubilee of independence,

RGIPT gate crashed into the elite club of NIRF's top 100 technical institutions of the country and bagged 79th position in the engineering category.

The institute had another reason to celebrate for having succeeded in establishing an exclusive incubation center, the RGIPT Innovation and Incubation Foundation (RGIPT IIF). On the R&D front, we witnessed a very active period. In addition to publishing high-impact papers we succeeded in receiving major research grants from industries and entered into agreements (MoUs) with several PSUs and industries: Hindustan Aeronautics Limited, Chennai Petroleum Corporation Limited, Oil India Limited, NASSCOM Foundation, Cholamandalam MS Risk Services Limited and Yokagowa Technology Solutions India Private Limited for collaborative research.

The last two months of the period were historic in every sense. We successfully organized our annual flagship programmes Urja Shakti, UDDAN, and Urjotsav with none other than Dr V Narayanan, Director LPSC, ISRO, as the Chief Guest followed by our 7th convocation ceremony for the graduating students. The period came to an end with a large international conference on "Energy Transition – Challenges and Opportunities" that we organized in Kolkata in association with the Indian Institute of Chemical Engineers (IICChE).

Now in its 15th year of existence, the institute has an ambitious plan to offer bachelor's, master's, and doctoral

degree programmes in many other areas of engineering and science and has to transform to become a key player in the education and R&D of energy sectors, not just in India but find a niche of its own globally.

Under its lineage, the institute is uniquely placed to leverage the extensive industry network developed on its own and through its promoters to facilitate student internships and placements.

I thank all the stakeholders for their untiring efforts having brought RGIPT to such great heights. Let's pledge to make 2024, a sustainably secured, and environmentally sensitive operation to underpin our continuing success.

With Warm Regards,
(A S K Sinha)

High-Pitched NIRF Ranking

A special highlight of this period was that the Rajiv Gandhi Institute of Petroleum Technology has secured the 79th position in Engineering Institutions of the All India Annual - 2023 National Institutional Ranking Framework (NIRF). RGIPT's previous year's ranking was 182. This galloping jump in the ranking is due to the continuous efforts of the institute under the adroit leadership of Professor A S K Sinha, Director, RGIPT. This high-pitched improved ranking of the institute is an outcome of our providing the best quality education, fostering interdisciplinary research unlocking innovative solutions in some of the high-priority areas of energy science and sustainable development with substantial industrial collaborations.



"I congratulate the leadership of the Rajiv Gandhi Institute of Petroleum Technology for their stellar performance in a selectively short period. It is not easy to achieve such great heights with so many sponsored projects and a plethora of industrial collaborations in such a short span. It speaks volumes of the leadership."

Padma Vibhushan Professor M M Sharma

Emeritus Professor of Eminence, Institute of Chemical Technology, Mumbai November 17, 2023

Research and Academic Highlights

New Industrial Projects Taken Up

- Microwave assisted mobilization of viscous crude oil for improved oil recovery and flow assurance application: a study on lab to field approach
Oil and Natural Gas Corporation Limited
- Study and One-Step solution for Downhole Problems of Oil India limited using newly synthesized multi-functional drilling fluid additive
Oil India Limited
- Production of Nanocellulose and Dimethyl Furan from Lignocellulosic Biomass (Rice Straw and Green Coconut Shells)
Chennai Petroleum Corporation Limited
- A critical assessment and socio-economic impact of Ayushman Bharat Pradhan Mantri Jan Arogya Yojna
Indian Council of Social Science Research
- Advanced Hydrogen Fuel Cell
Department of Science and Technology

- Examining the RGIPT Corrosion inhibitor formulation developed for mitigating the corrosion led by ethanol blended petrol through industrial field trials by CPCL and commercializing the technology
Chennai Petroleum Corporation Limited
- Lignin valorization: Bio-adhesive for plywood industry.
Numaligarh Refinery Limited

Industrial Projects Completed

- Emergency Locator Transmitter (ELT) Antenna Testing
Hindustan Aeronautics Limited
July 2023
- Development of Materials Applicable for Artificial Photosynthesis or Sustainable Production of Energy
Department of Science and Technology
October 2023
- Resolving the Catalytic Hotspots of Synthesized Hybrid Nano catalysts at Single Turn-Over Resolution
Science and Engineering Research Board
December 2023

Research Breakthrough

Catalyst System and Electrolyzer to Directly Electrolyze Sea and/or Low-grade Water

The research team led by Professor A S K Sinha has developed a viable catalyst system and membrane-less electrolyzer set-up to directly electrolyze sea and/or low-grade water. The presence of salts in the seawater are known to degrade the electrode through the formation of corrosive oxyhalides, block the membrane permeability through scaling, and may cause the evolution of harmful chlorine gas. To overcome this challenge, a nanocatalytic system, capable of resisting the halide ions during the electrolysis process and suppressing the evolution of chlorine gas and corrosion of electrodes has been fabricated, without using membranes. Perceiving the potential commercial viability of the set-up, the DST under the Advanced Hydrogen Fuel Cell program has granted a project worth Rs. 253 lakhs to further the research activities and commercialization of the system.

Inhibitors for Mitigating the Corrosion Led by Ethanol Blended Fuel

Government of India's policy for the application of biofuel in automotive industries is being challenged due to the corrosive nature of the blended fuel. The corrosive nature of the fuel brings challenges in terms of asset degradation particularly in the field of storage, transportation, and engine application. Therefore, it becomes imperative to use corrosion mitigation strategies. The research team led by Dr Deepak Dwivedi have designed inhibitors that are not only mitigating the corrosion led by ethanol blending but it is also improving the fuel properties such as CV, flash and fire point and are also found compatible with engine. This technology has been transferred to CPCL for commercialization of the product.

Lignocellulosic Biomass to Nanocellulose and Dimethyl Furan

Dr Debashis Panda and his group has proposed a concept for the circular synergy between lignocellulosic biomass and petroleum industry that can achieve Net Zero emissions and bring down oil import bills. The team has developed a one-step thermochemical process for the production of more value-added products from microcrystalline cellulose obtained from the nanocellulosic biomass. Along the value chain of products, nanocellulose, and dimethyl furan are very demanding. 2, 5-Dimethyl Furan is a potential biofuel that can be blended with gasoline, whereas nanocellulose finds vivid applications in CO₂ capture, drilling fluid, radiative cooler, pharmaceuticals, electronic devices and membranes. The process is now commercialized with the help of CPCL for setting up of 2KPD plant at RGIPT and 100 KPD plant at R&D unit of CPCL.

MoUs Signed

Hindustan Aeronautics Limited

Inked on September 23, 2023, MoU aims to evolve a mutually productive framework for collaboration between the two giants to spur design and development of indigenous solutions in the domain of avionics based AI/ML, software engineering, IoT, control engineering, communication engineering including optoelectronics.



Shri C B Ananthkrishnan CMD, HAL presenting a book to Professor A S K Sinha during the signing ceremony

NASSCOM Foundation

This MoU will work for AI and IoT, and aimed at promoting new innovations and improving digital skills of students to support IT Industry and IT-enable services.



Shri Sanjeev Malhotra, CEO, CoE - AI and IoT, NASSCOM and Professor A S K Sinha, Director, RGIPT inking the MoU

Chennai Petroleum Corporation Limited

The MoU, reached on September 21, 2023, aims at building a closer partnership between the two giants by collaborating for the cause of promotion of education, research and innovation of efficient human resources.



Shri Arvind Kumar, Managing Director, CPCL and Professor A S K Sinha, Director, RGIPT showing the MoU document

Oil India Limited

The MoU, signed on December 02, 2023, aims for advancement of academics, research collaboration and exchanges in areas of interest benefiting both the parties.



Shri B J Phukan, Managing Director, NRL and Professor A S K Sinha, Director, RGIPT exchanging the MoU document

Yokogawa Technology Solutions India Private Limited

Inked at the R&D Centre, Yokogawa India Bengaluru, the MoU, is aimed to establish a Centre of Excellence (CoE) at the Energy Institute Bengaluru, a center of RGIPT. The joint



Shri Sanjeev Neelappa, Managing Director, Yokogawa India and Professor A S K Sinha exchanging the MoU document

collaborative research shall be carried out in the focused area of alternate energy and to develop and demonstrate the end-to-end future autonomous total energy solution for alternate energy generation, storage, transportation and their utilization for power generation.

Cholamandalam MS Risk Service Limited

The MoU aims to promote/conduct the Training Programmes for candidates, sourced and approved by the RGIPT

Bharat Petroleum Corporation Limited

The MoU aims to promote working on joint projects, industry participation in modification of course curriculum and joint supervision of M Tech and PhD students.



Dr V Ravi Kumar, CGM (R&D), BPCL and Professor A S K Sinha, Director, RGIPT inking the MoU

New Research Facilities

- Atomic Force Microscope
- BET Surface Area Analyzer
- CHNS Analyzer
- Corrosion Testing Facilities
- Differential Scanning Calorimeter
- High-Pressure Adsorption Analyzer
- High-Resolution Transmission Electron Microscope
- High-Resolution Scanning Electron Microscope
- Inductively Coupled Plasma-Optical Emission Spectrometer
- Nuclear Magnetic Resonance Spectrometer
- Pulse Chemisorption/ Desorption System
- Small/Wide Angle X-ray Scattering System
- X-ray Diffractometer
- X-ray Fluorescence
- X-ray Photoelectron Spectrometer

for additional list of facilities please visit



<https://rgipt.ac.in/en/page/home-cif>

New Laboratory Complex

The newly erected Building of Laboratory Complex is in the framework of the institute's advanced research projects in the arena of **Photochemical Engineering**, **Bioconversion Engineering**, and the **Corrosion Engineering** and is the result of an innovative path that the present leadership has taken, fulfilling a dream that started three years back. This addition to the campus will be a centerpiece of the institute's broad portfolio of work on renewable energy and refining technology helping the institute to reach newer heights.

Research Profile

High-Impact Publications	62
Papers Presented in Conferences	25
Technologies Transferred	03

Visits on Strengthening R&D

- **Dr Koushik Guha Biswas**, GAIL (Pata Plant), July 02-04, 2023
- **Professor Alok Kumar Singh**, CSIR - Central Institute of Mining and Fuel Research, Dhanbad, July 03-07, 2023
- **Dr Hemant Kumar Singh and Dr Piyush Sarkar**, Oil India Limited, Jodhpur, July 17-21, 2023
- **Dr Shailesh Kumar, Dr Amit Kumar and Dr Sidharth Gautam**, IRS, ONGC Ahmedabad, July 24-28, 2023
- **Dr Abhishek Kumar Singh**, Indian Railways, New Delhi, July 20-22, 2023
- **Professor Atul Sharma, Dr Tathamay Basu and Dr Vipin Amoli**, Keetronics (India) Private Limited, Pune, August 02-05, 2023
- **Dr Gunjan Kumar Agrahari and Dr Debashis Panda**, Ayurved Research Foundation, Sonipat, August 20-21, 2023
- **Professor Sanjay Kumar Kar**, CII Education Summit 2023, Confederation of Indian Industries, New Delhi, August 29, 2023
- **Dr Gunjan Kumar Agrahari and Dr Arvind Singh**, IIT (BHU), Varanasi and Bizel Green Energy, Mirzapur, September 16, 2023
- **Professor M S Balathanigaimani**, Chennai Petroleum Corporation Limited, September 21, 2023
- **Professor Sanjay Kumar Kar**, NGS Conclave, New Delhi, October 05-06, 2023
- **Dr Omvir Singh, Dr V S Sistla, Dr Koushik Guha Biswas, Dr Gunjan Kumar Agrahari and Dr Arvind Singh**, CHT Activity Committee Meet, HP Green Centre, Bengaluru, October 17-18, 2023
- **Dr Debashis Panda**, Indian Institute of Technology, Kanpur, October 29-31, 2023
- **Dr Susham Biswas**, Ankit Gram Sewa Dham Ashram, Ujjain, November 25-26, 2023
- **Dr Shivanjali Sharma, Dr Amit Saxena and Dr Siddhant Prasad**, Oil India Limited and IIT Guwahati, December 02-05, 2023

- **Professor Amit Ranjan**, GAIL (Pata Plant), December 17-20, 2023
- **Gourab, PhD Student, Physics**, Rutherford Appleton Laboratory, UK, July 28-August 4, 2023
- **MBA First Year Students**, Paradip Refinery, Orissa, September 26 - October 03, 2023

Director's Visits

- Brahmaputra Crackers and Polymers Limited Dibrugarh, August 29, 2023
- Chennai Petroleum Corporation Limited Chennai, September 21, 2023
- Students Chemical Engineering Congress Erode, September 22, 2023
- Hindustan Aeronautics Limited Korwa, September 23, 2023
- Numaligarh Refinery Limited Numaligarh, December 02, 2023.
- 76th Indian Chemical Engineering Congress, 2023 Kolkata, December 27-30, 2023
- Institute of Oil and Gas Production Technology, ONGC January 22, 2024
- Sun Petrochemicals Private Limited Mumbai, January 22, 2024
- Hindustan Petroleum Corporation Limited Mumbai, January 23, 2024
- HPCL Management Development Institute Pune, January 24, 2024
- Praj Industries Pune, January 24, 2024
- TATA Motors Limited Pune, January 24, 2024
- Bharat Petroleum Corporation Limited Mumbai, January 25, 2024

Distinguished Visitors

- **Shri Arvind Kumar**, Managing Director, Chennai Petroleum Corporation Limited, July 04, 2023
- **Padma Vibhushan Professor M M Sharma**, Professor of Eminence, ICT, Mumbai, November 16-17, 2023
- **Professor K D P Nigam**, Honorary Professor, Indian Institute of Technology Delhi, November 16-17, 2023
- **Shri Ranjan Mohapatra**, IndianOil Institute of Petroleum Management, Gurgaon, November 16-17, 2023
- **Professor S N Upadhyay**, Emeritus Professor, IIT (BHU), Varanasi, November 29, 2023
- **Shri Ritesh Mukherjee**, Ms **Sonali Dhali** and **Shri Arun Jana**, Centre for Development of Advanced Computing, Kolkata, December 22, 2023
- **Dr V Narayanan**, Director (LPSC) ISRO, November 04, 2023
- **Shri Sudhir Aggrawal**, Ex Deloitte India, November 04, 2023
- **Shri Pankaj Sharmam**, NASCOM, November 04, 2023
- **Dr Bharat Newalkar and Dr Chanchal Samanta**, Bharat Petroleum Corporate R&D Centre, December 23, 2023

- **Shri Sandeep Jain**, geeks_for_geeks, November 04, 2023
- **Shri Ankit Raj**, Growth@Rise, November 04, 2023
- **Shri Ankush Sabharwal**, CoRover.ai, November 04, 2023

Institute Lecture Series

Dr V Narayanan *November 04, 2023*

In a captivating lecture the Director of Liquid Propulsion Systems Centre, ISRO provided a compelling snapshot of India's Space Program, tracing its evolution from its inception in 1969 to its current standing as a global space exploration powerhouse.



Shri Sam Pitroda *November 06, 2023*

A renowned engineer known for his pivotal role in shaping India's telecom and technology landscape in the 1980s, virtually addressed the audience on the theme of "Redesign the World." Pitroda emphasized the need for technological access to drive social change.



Professor M M Sharma *November 16, 2023*

Decorated with Padma Vibhushan, he captivated the audience in chemical engineering with his insights on "Innovations in the Chemical Industry." As the first Indian engineer elected as a Fellow of the Royal Society, UK, Sharma's talk delved into catalysis, reaction kinetics, and microphases.



Shri Ranjan Mohapatra *November 24, 2023*

A distinguished professional of the oil and gas sector, he chosen to speak on a special theme titled "Follow Your Passion: Life Beyond the Classroom,." He highlighted the importance of passion and continuous learning in professional success.



Professor S N Upadhyay *November 29, 2023*

He shared his thoughts on "The Importance of Technical Education in Vernacular Languages." As an Emeritus Professor at IIT BHU and a prolific contributor in various engineering domains, Upadhyay emphasized the need for accessible technical education.



Invited Talks

- **Dr Ankur Pandey**, Emerging Trends in Machine Learning, Vardhman College of Engineering, Hyderabad, July 20, 2023
- **Dr Shivanshu Shrivastava**, Deep Learning Applications in Hybrid RF/VLC for 5G and Beyond Communications, IIIT, Kota, July 23, 2023
- **Dr B Chikondra**, Recent Advances in Power Converter Control for Three Phase and Multiphase Drives for Electric Vehicles Applications, IIT, Patna, December 01-03, 2023
- **Dr Pradeep Das**, Diophantine equations and elliptic curves, BB Ambedkar University, Lucknow, December 22, 2023

Training Programmes Organized

- **Petroleum Refining Technology**, *For officers of Indian Oil Corporation Limited*, June 30, 2023 to July 06, 2023
- **Environment, Social and Governance (ESG) and Responsible Leadership**, *For officers of Indian Oil Corporation Limited*, November 06-08, 2023
- **Petroleum Refining Technology**, *For officers of Chennai Petroleum Corporation Limited*, November 20, 2023 to December 02, 2023

Honours and Awards

- **Dr Tathamay Basu**, Assistant Professor, Sciences and Humanities, **Beamtime Award**, DST-RAL Nano-Mission Project, Government of India
- **Dr Atul Sharma**, Professor, Sciences and Humanities, Ranked in the List of Top 2% Scientist by Stanford University
- **Dr Arshad Aizaz**, Assistant Professor, Sciences and Humanities, **Free Membership for American Chemical Society**, 2023-24, ACS Member Number 31580138

Degrees Awarded

	Discipline	Submitted	Awarded
PhD	Chemical Engineering	--	01
	Computer Science and Engineering	04	01
	Mathematical Sciences	--	01
	Management Studies	01	04
	Petroleum Engineering	--	01
	Sciences and Humanities	05	02
M Tech	Petroleum Engineering		06
	Electrical Vehicle Technology		14
	Energy Science & Technology		07
	Power and Energy System Engineering		06
	Renewable Energy		11
MBA	Management Studies		18
B Tech	Chemical Engineering		62
	Petroleum Engineering		59

Annual Flagship Programmes

Urja Shakti

The institute organizes Urja Shakti intending to inspire engineering female students to develop sound, comprehensive, and convincing solutions for modern-day energy problems. This year more than 100 entries were received for the competition, of which 09 winners were selected and were rewarded with a cash prize. First (Rs 20,000), Second (Rs 15,000), and Third (Rs 10,000). There were 06 consolation prizes of Rs 5,000 each.

This year the Urja Shakti Lifetime Achievement Award 2022 was awarded to Ms Sushma Rawat, Director (Exploration), ONGC *in absentia*.



An Urja Shakti Award winner receiving the certificate and plaque from Dr V Narayanan and Professor A S K Sinha

UDAAN

UDAAN is a Business Plan Competition (BPC) that aims to target to stimulate people of Amethi and nearby districts to come forward with their innovative ideas. The competition provides an opportunity to conceptualize and work on plans to shape interesting business models generating innovative products or services.

This year 87 proposals were received and after several rounds of evaluations, 04 teams were selected and were awarded cash prizes of Rs 25,000 (Winner Team) and Rs 15,000 (Runner-up Team) along with a Certificate of Excellence.



Dr V Narayanan and Professor A S K Sinha jointly presenting the certificate and plaque to the winner of the BPC

Urjotsav

This prestigious national-level technical and entrepreneurship fest of the institute was a conclave of luminaries from various industries and academia working in the domain of the energy and providing solutions leveraging modern technologies. Dr V Narayanan, Director (LPSC) ISRO was the Chief Guest of the occasion. The event witnessed the participation of students from several IITs, NITs and other engineering colleges. On this occasion, several invited lectures were delivered by eminent personalities. A mega science fair was the most lucid attraction of this fest which attracted students who do not have access to many scientific resources and the programme provided them an opportunity to present their innovative ideas in the form of models.

International Conference

Energy Transition - Challenges and Opportunities

Participating as a major partner, RGIPT in association with Indian Institute of Chemical Engineers organized the International Conference “Energy Transition – Challenges and Opportunities” during December 27-30, 2023 at Kolkata. The event brainstormed and explored the social impact of global climate change, mitigation efforts, and energy transition along with other segments of chemical engineering. It also discussed the future basket of energy and the role of chemical engineering principles in shaping the way for the future.

Speaking on occasion, Professor A S K Sinha, Director RGIPT and Chairman of the Conference pitched for the industry-academia collaborations in the energy sector. The event was inaugurated by Dr C V Ananda Bose, Hon’ble Governor, West Bengal, who emphasized the need to control the indiscriminate use of natural resources and find a solution to prevent humanity from disaster.



Professor A S K Sinha welcoming Hon’ble Governor, West Bengal Dr C V Ananda Bose and delivering his presidential address during the Conference

7th Convocation

The 7th Convocation of RGIPT was held on Friday (November 17, 2023). The Chief Guest for the Convocation was Padma Vibhushan Professor M M Sharma, Emeritus Professor of Eminence, Institute of Chemical Technology, Mumbai. Also in attendance were other dignitaries from the academic world and industries apart from the Guest of Honour, Professor K D P Nigam, Honorary Professor, Indian Institute of Technology Delhi, and Director, RGIPT Professor A S K Sinha who was also officiating as President, Board of Governors.

The Convocation began with a majestic and grand academic procession followed by the Goddess Saraswati Vandana sung by the students. The Director in his report touched upon the infrastructure developments on the campus including the establishment of new laboratories and highlighted the newly introduced academic programmes and the initiation of industrial modules for the students while presenting a status on the admissions of foreign students through the Study in India initiative. He also mentioned that the Institute has made considerable progress in the Research and Development front in the last few years and dwelt upon other developments including patents, publications, collaborations, awards, distinguished visitors, student activities, and placement status.

A scintillating medals and awards ceremony was part of the Convocation with Chirag Jain, being awarded the coveted President’s Gold Medal for academic excellence amongst all B Tech programmes and Gaurav Bhatia being awarded the coveted Director’s Gold Medal for outstanding all-around performance amongst all B Tech programmes.



Padma Vibhushan Professor M M Sharma inaugurating the grand opening ceremony of the Convocation

Campus Placements

- **Hindustan Petroleum Corporation Limited**
Ajeet Patel and Ashutosh Bajpai
B Tech Chemical Engineering (2020-24)
- **Torrent Gas Limited**
Mayank Pratap Singh
B Tech Petroleum Engineering (2020-24)
- **Indorama Private Limited**
Abhishek Saini
B Tech Chemical Engineering (2020-24)
- **Shell Business Operations**
Aditya Sharma, Deepak Sharma, Manoj Kumar L M, Mohit Singh and Soumyl Srivastava
B Tech Petroleum Engineering (2020-24)
- **Torrent Gas Limited**
Aqub Quayam, Aparna Trivedi, Siddhartha Jayrakash, Paridhi Gupta, Ananya Chaudhary, Deepank Kumar Pandey, M Praveen Kumar, Divya Dinesan and Sparsh Nagar
MBA (2022-24)
- **Reliance BP Mobility Limited**
Parimal Darbar, Syed Khan, Bijoyendra Borah, Manu N Potti EM, Khushboo Chaudhary, Parasmani Mishra, Aaron C Shobby and Meghna Singh Chhokar
MBA (2022-24)

Student's Accomplishments

- **Ayush Dwivedi**, B Tech III year, CSE gave an AI Software solution to the Garden Reach Shipbuilders and Engineers (GRSE) Limited which can reduce 06 months long manual hull designing process of warships to 01 month automated process, during **GRSE's Innovation Challenge 2023** and received a cash prize of Rs. 50,000. He also got selected for a R&D funding of Rs. 36.5 Lakh as a Principal Investigator individually for his project **Tele Operation through Man-Machine Interface** from the **Army Technology Board, Indian Army**.



- **Tanmay Bisen** and **Aastha Shayla**, B Tech CSE 2020-24 won **THIRD PRIZE** during 'Hack of Pi' Hackathon organized by PanIIT at a **Global Technology Summit PI WOT**. The tool developed by them atomises the medical claim processing that drastically reduces the processing time.



- **Arjun Krishna**, B Tech III year CEBE, **AICHe Donald F Othmer Second Year Student Academic Excellence Award, 2022-2023**

- **Rajnandani**, B Tech II year CEBE, **Twamika Atri**, B Tech II year PEGE, Best Paper Award, **IICHe-CHEMCON 2023**, December 27-30, 2023
- **Aditi Anasuya**, B Tech I year CSE, **AICHe 1st year Student Recognition Award, 2022-2023**.
- **Praket Singhal** and **Agastya Bharadwaj**, B Tech, I year, Electrical and Electronics Engineering, **3rd position in RC Car Competition, Urjotsav 2023, RGIPT, November 04-05, 2023**
- **Gourab**, PhD Student, Physics, Best Poster Presentation Award, **DAE-SSPS 2023 Conference**, Gitam University, Visakhapatnam, December 20-24, 2023
- **Ajeet Prajapati**, PhD Student, CEBE, Best Paper Award, **IICHe-CHEMCON 2023**, December 27-30, 2023

Student's Chapters News

- **EAGE Student Chapter**
Recognized as the Best EAGE Chapter 2022-23 in the Asia Pacific Region by the European Association of Geoscientists and Engineers
- **AICHe Student Chapter**
Recognized as the Outstanding AICHe Student Chapter 2022-2023 by AICHe
- **IEEE RGIPT Student Branch**
Organized IEEE Smart Village Hackathon August 2023
- **IEEE RGIPT Student Branch**
Organized Career Guidance Session in Frontend VLSI, Speaker: Mr Harshit Gupta, INTEL September 2023
- **IEEE RGIPT Student Branch**
Organized Web3 Solana Bootcamp in collaboration with ACS DTU Chapter November 2023
- **IEEE RGIPT Student Branch**
Organized a LinkedIn Mastery Session Speaker: Mansi Gupta, LinkedIn November 2023
- **IEEE RGIPT Student Branch**
Organized a CODEX CARNIVAL - a coding competition in collaboration with GFG December 2023

Students Council's News

Cultural Council

Shyamotsav

On the auspicious occasion (September 07, 2023) of Krishna Janmastami, the Cultural Council organized 'Shyamotsav' to celebrate the birth anniversary of the revered Lord. Bhajans and kirtans were played to create a spiritually uplifting atmosphere followed by Dahi Handi and Matki Phod events.

DJ Night

For an unforgettable night of dancing and merriment, a DJ night was organized on September 16, 2023. A mix of popular songs was played to create a lively and enjoyable environment. The evening provided an opportunity for people to come together, socialize, and have a good time.

PRATIDHWANI and Dandiya Night

PRATIDHWANI, the annual freshers' event (October 07, 2023), is a dynamic showcase of the newest students' talents and cultural diversity. The evening featured an opening ceremony, a fresher's video shoot, stalls with snacks and crafts, and lively performances by the freshers. In the evening, a lively and colourful Dandiya Night was organized.

Science and Technology Council

World Robotics Championship

The RGIPT's RoboSoccer team's exceptional performance secured a position among the top 15 teams globally in the championship organized by Indian Council for Robotics and Automation, Ministry of Electronics and Information Technology, Government of India during July 25-27, 2023 at Noida. Maze Solver's accuracy secured a coveted position among the top 7 teams globally. The Roborace team managed to qualify the first round of the race entering the semifinals.

Entrepreneurial Series

The event organized on September 23, 2023, aimed to encourage and inspire the students to look into business prospects and cultivate an entrepreneurial mindset. The focal point of the event was Mr Anuj Batra's (an established businessperson and thought leader) speech who presented his personal journey, experiences, and entrepreneurial thoughts. The event was organized in virtual mode.

Pinaka - Water Rocket Competition

Pinaka, a water rocket competition was organized on October 08, 2023 with enthusiastic participation from more than 35 teams, the event aimed to foster creativity, teamwork, and scientific innovation among the student community.

Gym and Sports Council

Annual League Tournaments

The Council organized indoor as well as outdoor league tournaments for Badminton, Basketball, Table Tennis, Carrom and Chess from August 20, 2023 to September 18, 2023. Students participated in the tournaments in large numbers enthusiastically.

Participation in Intercollegiate Tournament

Sumit, II year student of ECE Branch while participating

in UDGHOSH got a silver medal in Powerlifting. This tournament is an annual sports fest of IIT Kanpur



RGIPT's Chess Team bagged 5th position in the tournament.

Mini Marathon (Run for Unity)

Mini Marathon was organized on October 31, 2023 on occasion of the Unity Day. A total of 152 people participated, including students, faculty and staff.

Social Services Council

ARPAN Science Fair 2023

The Social Services Council organized a Science Fair under the banner of ARPAN aimed at providing practical science and technology knowledge to students from nearby schools on November 04, 2023. The objective was to enhance students' understanding of science and technology, especially for those who lacked access to laboratories and practical learning opportunities. Dr V Narayanan, Director (LPSC) ISRO was the Chief Guest of the occasion.



Outreach (Gyanarpan) Activities

Mentoring School Students

In an impactful initiative, from September 2023 to December 2023, Gyanarpan organized classes, catering to 9th to 12th-grade students across Gyanarpan's centers at Tilo, Rajafatehpur, Chhatoh, and Jagdishpur. Over 1600 students were provided with an abundance of learning

opportunities, facilitated by a dedicated team of 250+ volunteers@ RGIPT. An entrance test was also organized to identify meritorious students in the region.

Miscellanies Campus News

Opening of RGIPT Innovation and Incubation Foundation

One of the major developments during this period was the establishment of an exclusive Incubation Center, the RGIPT Innovation and Incubation Foundation (RGIPT IIF). This center aims to encourage and support knowledge-based entrepreneurship amongst students and local entrepreneurs that may result in creating successful startups for financial and social benefits.

Fresher's Orientation

This is a most crucial and sought-after event in the institute's academic calendar designed to welcome and assist incoming UG students for their easy transition into the institute's environment. The orientation, which was held on August 12, 2023, welcomed a diverse cohort of students, accompanied by their parents, faculty members, and staff.

Addressing the students, the President of RGIPT's Board of Governors, Dr S Shamasundar, delivered an exceptionally inspiring welcome speech.



Professor A S K Sinha, Director RGIPT addressing the students and interacting with parents

Professor A S K Sinha, Director RGIPT enlightened the new students about the salient aspects of UG course structure. He shared his vision about specialized branches in nation-building including Petroleum Engineering with Geo Science, Petrochemicals and Polymers, Renewable Engineering, and Electric Engineering with a focus on Electric Vehicles. He also emphasized the need to bridge boundaries between

different branches and the significance of selecting a proper mix of elective courses in major and minor areas, enabling the development of expertise at the crossroads of diverse fields.

Swachhata Pakhwada

Swachhata Pakhwada was observed from July 01 to July 15, 2023 and the institute took part in the cleanliness drive for Freedom from Filthiness.

Another Swachhata-related event was observed on October 01 under the banner of **Swachhata HI SEWA** to carry out 1 hour of shramdaan. A big event on cleanliness was organized under the active patronage of Director, Professor A S K Sinha. .

Inauguration of Beauty Parlour

Institute is gearing up to groom its female students in more ways than one. To make the campus more women-friendly, a beauty parlour for women has come up during this period.

Named "Nishtha Beauty Parlour" the facility was inaugurated by the First Lady of the Institute, Mrs Rama Rukhaiyar on September 08, 2023, in a ceremony witnessed by the presence of several female students, faculty, and staff. Speaking on the occasion Mrs Rukhaiyar said that the establishment of this facility will make the life of our female students and women on the campus very convenient. After all, a visit to a parlour is also about relaxing.



First Lady Mrs Rama Rukhaiyar inaugurating the Parlour

New Eatery in the Campus U S Bakers Shop

There is a new addition to the already existing night canteen/eatery on the campus – a Bakery Shop "U S Bakers" with additional facilities for providing coffee and snacks to the students and residents of the campus.



Professor A S K Sinha, Director RGIPT inaugurating the Bakers Shop

The shop was inaugurated by Professor A S K Sinha, Director, RGIPT on October 16, 2023. Inaugurating this new facility, Professor Sinha said that this was a long-standing request by students and faculty and the institute is always ahead in bringing such enablers to the campus to make life of the students comfortable.

Inauguration of Kidzee Multimedia Facility Center

A multi-media facility center was established in the Kidzee Preschool on the RGIPT campus. It was inaugurated by Professor A S K Sinha, Director, RGIPT on October 19, 2023.

The occasion was graced by the presence of the children's parents and teachers, the members of the Kidzee Preschool Committee, and a few faculty belonging to RGIPT. Addressing the gathering, Professor A S K Sinha, Director, RGIPT said that with the growing impact of technology in education, smart classrooms have become necessary even for the preschool system. These classrooms equipped with state-of-the-art technological equipment make the teaching-learning process more interesting, innovative, and interactive.



An assemblage of children and their parents at the venue

Alumni Corner

Young Alumni Achievement Award 2023

This year (2023) the Youngest Alumni Achievement Award was presented to Mr Sanidhya Narian, (B Tech, Chemical

Engineering, 2008-2012 Batch) for his outstanding success, creativity, and innovation in his chosen field of profession.



Mr Sanidhya Narian receiving the Award by Professor A S K Sinha, Director RGIPT in esteemed presence of Professor M M Sharma and Professor K D P Nigam

राजभाषा गतिविधियाँ

Half-yearly meeting of TOLIC, Amethi

The second half-yearly meeting of the Town Official Language Implementation Committee (TOLIC) of Amethi District was held on November 29, 2023, under the Chairmanship of Professor A S K Sinha, Director, RGIPT to promote the usage of the Hindi language in the official works of Central Government Organizations including Banks and PSUs. On this occasion, a scientific book titled 'जल एवं अपजल के विश्लेषण की मानक विधियाँ' authored by Professor S N Upadhyay, Former Director, IIT-BHU was released jointly by Professor A S K Sinha, Director, RGIPT and Shri Chhabil Kumar Meher, Deputy Director (Implementation).

Energy Institute Bengaluru a center of RGIPT

Attendance in Conferences/Talks

- **Dr Roopa Manjunatha**, (1) 3rd International Conference on Emerging Techniques in Computational Intelligence, Mahindra University, Hyderabad, September 21-23, 2023; (2) India Oil and Gas Pipeline Conference, Bengaluru, October 13-14, 2023
- **Dr Hakeem Niyas U S**, COMSOL Conference, Gokulam Grand Hotel, Bengaluru, November 30-December 01, 2023
- **Alisha Das**, 9th IEEE International Conference on Smart Instrumentation, Measurement, and Applications Kuala Lumpur, Malaysia, October 17-18, 2023
- **Almas**, 9th International Conference on Advances in Energy Research, Indian Institute of Technology Bombay, December 12-14, 2023
- **Dr Hakeem Niyas U S**, JNANA CHILUME – 2023 (Spring of Knowledge), *Emerging Frontiers in Solar Thermal Technology: A Comprehensive Overview*, JAIN (Deemed-to-be University), Bengaluru, November 17, 2023

Assam Energy Institute a center of RGIPT

Orientation Program

Organized on August 02, 2023 for 2023-24 Batch witnessed the participation of all the faculty and staff. The program was honored to have Shri Rajesh Tiwary, Group General Manager (Production) and Surface Manager, ONGC, Assam Asset as the Chief Guest.

Annual Technical and Cultural Fest

Organized during November 03-05, 2023 with the Chief Guest Padmashri Jadav Payeng, the environmental activist and forestry worker, popularly known as the Forest Man of India. The three-day event saw the participation of several students from AEI and other neighboring colleges.

3rd Convocation

Held on December 01, 2023, witnessed the esteemed presence of Professor A S K Sinha, Director RGIPT and Hon'ble Union Minister of State for Petroleum and Natural Gas, Shri Rameshwar Teli, as the Chief Guest. Shri Pranjal Changmai, Managing Director BCPL was the Guest of Honour. Other dignitaries in attendance were Shri Aditya Yadav, Deputy Commissioner, Sivasagar, Shri Rajesh Tiwary, ONGC Executive Director and Shri Subhrajyoti Bora, Superintendent of Police, Sivasagar. A total of 172 students received Diplomas for the academic session 2022-2023. Gaurav Dutta of Chemical Engineering



Faculty@ AEI with Professor A S K Sinha and Hon'ble Union Minister of State MoPNG Shri Rameshwar Teli

and Akangsha Hazarika of Petroleum Engineering were awarded the President's and Director's Medal, respectively.

Workshop and Outreach Activities

- **Art and Craft Workshop** organized for the kids on September 09, 2023.
- **Cyber Security Awareness Workshop**, Instructor: Shri Biju Pegu, Gratia Technology Private Limited, Assam, September 13, 2023
- **Lecture on Art of Mind Control**, Instructor: ISKCON Guwahati, October 03, 2023
- **Competition for the School Students** organized on November 23, 2023.

Hindi Pakhwada

Observed during September 15-30, 2023 and aimed to promote an encouraging environment of Hindi among the institute community. The concluding day was graced by the presence of Shri Sunil Kumar, Senior Official Language Officer, ONGC, Nazira.

Placement News

78% of students were placed in companies like Berger Paints, Subros, Krishna-Groups, Britannia, Ashoka Buildcon Limited, Larsen and Turbo.

Colloquia/Talks

- **Mrs Purabi Kalita**, Oil India Limited, Moran, September 19, 2023
- **Mr Tridip Dutta**, Chief Manager (Chemical), BCPL, September 20, 2023
- **Mr Nitul Kalita**, Senior Manager (Mechanical), BCPL, September 20, 2023
- **Mr Sudarshan Baishya**, Chief Engineer (Instrumentation), Oil India Limited, Moran, September 20, 2023
- **Smt Drishti Bokotial**, EHS Specialist, Flipkart Private Limited, September 21, 2023

Industrial Visit

- **2nd and 3rd-Year Students of Petroleum Engineering, Electronics and Instrumentation Engineering, and Fire and Safety Engineering**, OIL Moran and ABRPL Numaligarh, October 12-14, 2023

RGIPT Jais Launches New Academic Programmes

MBA in Energy Transition (for Working Professionals)

B Tech in Mechanical Engineering

These programmes will commence from the Academic Year 2024-25

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