INDIAN INSTITUTE OF CHEMICAL ENGINEERS
AMARAVATI REGIONAL CENTRE
(IIChE-ARC)
JKC College Campus, Ring Road, Guntur
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22.06. 2025

ANNUAL REPORT: 2024-2025

Respected dignitaries and esteemed members, a very good morning and warm welcome to you all. I take this opportunity in extending hearty welcome to you all to this **11th** Annual General Meeting (AGM) of IIChE Amaravati Regional Center in hybrid mode. It is my privilege to place the annual report for the year 2024-2025 before you for discussion and approval.

10th AGM on 29.06.2024

The 10th AGM for the year 2023-2024 was held on 29.06.2024 in hybrid mode. Sri Jagarlamudi Murali Mohan Chairman, IIChE-Amaravati Regional Centre presided over the meeting and conducted the proceedings

The 11th AGM unanimously elected the following members as Office Bearers and Executive Committee members of IIChE Amaravati Regional centre for the years 2025-2026 and 2026-2027.

A. NAME & DESIGNATION OF THE EXECUTIVE COMMITTEE MEMBERS FOR THE PERIOD FROM 01.07.2025 TO 30.06.2026.

S.No.	Name & Address	Designation	Membership Number	Mobile No.	Email ID
1	Prof. V. Govardhana Rao # 5A, Pioneer Prestige 4/3, Navabharat Nagar Guntur - 522 006, Andhra Pradesh	Chairman	LF-18811	9885890122	grvadlamudi@gmail.com
2	Sri Jagarlamudi Murali Mohan Managing Director M/s Jocil limited, Dokiparru D. No. 5-91-28/1 1/2, Chandramouli Nagar Guntur-522 007, Andhra Pradesh	Immediate past Chairman	LF-53476	9848135461	jmmohan@hotmail.com jmmohan99@gmail.com
3	Dr. Chilukuri Veera Venkata Satyanarayana Willows-836, Raintree Park Opposite to Acharya Nagarjuna University, Numburu-522 508 Guntur (Dist.), Andhra Pradesh	Vice Chairman	LM-63056	9890626115	satya.cvv@gmail.com
4	Dr. M. Venkateswara Rao Former Professor & Dean Examinations R.V.R. & J. C. College of Engineering (A) # 204 Brundavan Plaza 4th Lane Brundavan Gardens Guntur-522 006, Andhra Pradesh	Honorary Regional Secretary	LF-06492	9440010190	mvrao79@gmail.com
5	Sri R. Banerjee Babu Flat No. 14, Kamalesh Enclave 7/3 Line, Chandramouli Nagar Guntur-522 007, Andhra Pradesh	Honorary Joint Regional Secretary	LM-53479	8247731270	rb_babu@hotmail.com

6	Prof. K. Ramesh Chandra Dept. of Chemical Engineering R.V.R. & J.C. College of Engineering (A) Chowdavaram-522 019 Guntur (Dist.), Andhra Pradesh	Honorary Treasurer	LM-32022	9441536677	kolasani_ramesh@yahoo.co.in
7	Prof. Ashok Kumar Popuri Dept. of Chemical Engineering Vignan's Foundation for Science Technology and Research (Deemed to be University) Vadlamudi-522213, Guntur (Dist.) Andhra Pradesh	Member	LM-53989	9866621633	ashok_kumar_popuri@yahoo.com akpopuri@gmail.com drpak_chem@vignan.ac.in
8	Prof. Nannapaneni Madhavi F.No. 502, Sri Haris Paradize 7th Lane, Syamalanagar Guntur-522006, Andhra Pradesh	Member	LM-73711	9441021731	madhavijkcchempg@gmail.com pgchemistryjkc1997@gmail.com
9	Dr. Gadidamalla Kavitha H.NO: 107, Krishna Nagar 7th Lane south side, Brundavan Gardens, Guntur-522006 Andhra Pradesh	Member	LM-72298	9160429369	sri.kavitha09@gmail.com
10	Prof. Suryadevara Vidyadhara Flat No. 502, Srikara Residency 4/ 1 SVN Colony, Guntur-522006 Andhra Pradesh	Member	LM-73710	9849226300	svidyadhara@gmail.com
11	Sri N. Jani Bhasha D. No. MIG-41, APHB Colony Guntur-522 005, Andhra Pradesh	Member	LM-53480	9948292179	njbhasha@yahoo.co.in
12	Prof. Vinoth Kumar Raja Dept. of Chemical Engineering National Institute of Technology AP, Tadepalligudem- 534101 West Godavari (Dist.) Andhra Pradesh	Member	LAM-56569	9442044040	vinoth@nitandhra.ac.in
13	Sri M. Ramakrishna Flat No. 204; 03-Block Faculty Qtrs.; RGUKT, Mylavaram Road, Nazvid-521 202 Krishna (Dist.) Andhra Pradesh	Member	LM-54715	9542220200	krishna.mtech019@gmail.com
14	Prof. N. Rama Gopal Dept. of Chemical Engineering Vignan's Foundation for Science Technology and Research (Deemed to be University) Vadlamudi -522 213, Guntur (Dist.), Andhra Pradesh	Member	LM-29654	9963106450	nrgbec@gmail.com
1	Sri Venu Babu Gairuboina H.No- 1-51, Navuluru-522 502 Mangalagiri (mandal) Guntur (Dist.), Andhra Pradesh	Invitee	LM-66136	9989947631	venu0511@gmail.com
2	Sri Madala Umamahesh B1105, Jayabheri, The Capital Kunchanapalli, Tadepalli - 522501 Guntur District. Andhra Pradesh	Invitee	LM-73894	9966151533	umamahesh.madala@gmail.com madala_umamahesh@ongc.co.in

3	Sri Koya Subba Rao D. No. 135-4-123 Vihaan Enclave 6th Lane Vijayapuri Colony JKC College Road, Guntur-522006 Andhra Pradesh	Invitee	LM-73857	9866953399	kitsgnt@gmail.com
4	Dr. Talathoti Prem Kumar Former GM, GAIL F.No.111 RK Sai Soudha Apartments, Yadavala Donka Gorantla-522034, Guntur (Dist.) Andhra Pradesh	Invitee	LM-73798	9654217722 9818083847	tpremkumar.04@ gmail.com tpremkumar.2007@ rediffmail.com
5	Prof. K. Prabhakara Rao # Pine-804, Rain tree park (Dwaraka Krishna) Namburu (P.O), Pedakakani-522508, Guntur (Dist.), Andhra Pradesh	Invitee	LM-73682	9676157858	kprao2005@gmail.com drkpr_sh@vignan.ac.in
6	Prof. A. Suryanarayana Flat No. 01, Sri Sai Apartments 5/2 Chandramouli Nagar Guntur -522007, Andhra Pradesh	Invitee	LM-03406	9247775032	rrs.chemicalhod@gmail.com
7	Prof. P. Dinesh Sankara Reddy Dept. of Chemical Engineering National Institute of Technology, AP, Tadepalligudem- 534101 West Godavari (Dist.) Andhra Pradesh	Invitee	LM-31517	9491461980 8309305819	pdsreddy@gmail.com
8	Dr. K. B. K. Rao 13-3/1 Flat GF-5, Tonia Heights Pinnamaneni Teachers Colony Opp. Mana Kalyana Vedika Kanuru, Vjayawada -521007 Andhra Pradesh	Invitee	LM-27678	9441069030	bkraokurra@yahoo.co.in
9	Dr. Karthik Rajendran SRM University Andhra Pradesh Neerukonda-522240 Mangalagiri (Mandal) Guntur (District), Andhra Pradesh	Invitee	LM-73821	: 9962935362	rajendran.k@ srmap.edu.in karthik.1988@ gmail.com
10	Smt. Nazeena Begum Mohammad D/o Md Umar, D. No. 9-204 Ramnagar Gannavaram - 521101 Krishna (Dist.). Andhra Pradesh	Invitee	LM-73826	9704440575	nazeenamohammad@ gmail.com mnazeena@ appcb.gov.in

As for the IIChE National Council decision, all the Student Chapter coordinators and Industrial Consultancy Committee members are included as invites to the EC for better coordination in organizing the Regional Center activities.

B. R & D RELATED ACTIVITIES

I. One Day National Webinar "Circular Economy Approach for Mitigation of Plastic Waste Challenges, Opportunities, and Future Prospects" on 7th October 2024

Background

The global consumption of plastics has been increasing over the years, particularly because they are lightweight, resilient, relatively low-priced and long-lasting. The plastic industry produced approximately 300 million tons of plastics in 2020. Of the total quantity of plastic waste generated, only 7% is recycled, about 8% is incinerated and the residual is landfilled. In the landfilling process, toxic chemicals leach out causing degradation of soil while incineration produces CO, CO_2, oxides of N_2, SO_2 and other toxic gases

causing air pollution and global warming. To limit the global warming and achieve carbon neutral by 2050 or so, it is necessary to reduce the consumption of petroleum and other fossil related raw materials for the production of plastics and energy and replace to certain extent by renewable sources. Further, non-biodegradable plastics persist in the environment for centuries, causing a threat to the eco system. Therefore, to meet the growing consumption of plastics and sustainable environmental material usage in the near future, it is high time that the **circular economy approach** needs to be developed and plastics must be recycled or reprocessed to avoid problems in landfills, emission of greenhouse gases and reduce the production of virgin polymers.

India's Recycling Landscape

India's consumption of plastics is estimated at over 16 million tons annually. However, inadequate waste management systems lead to approximately 26,000 tons of plastic waste being generated daily, of which only a fraction is recycled. Much of this plastic waste ends up in landfills, water bodies, and oceans, causing severe environmental degradation and health hazards. Recognizing the urgency of addressing plastic pollution, the Indian government has implemented several initiatives to promote sustainable plastic recycling: a) Established the Waste to Wealth Mission in 2021 to leverage science, technology, and innovation to create financially viable and sustainable circular economy models. b) Amendments to the Plastic Waste Management Rules in 2022 to tackle plastic waste and move towards a more circular economy for plastics. c) Amendments to the Extended Producer Responsibility (EPR) guidelines which will drive market demand for good quality recycled plastics. These regulatory changes have set clear targets to drive up the use of recycled content in packaging and eliminate single-use plastic packaging. The market for recycling plastic waste in India reached 9.9 million tons in 2023. It is projected that by 2032, this figure could rise significantly to 23.7 million tons.

Over the last two decades or so, several studies have suggested alternatives to the conventional petroleum-based plastics. One such alternative is bioplastics, which are polymeric compounds that are both functionally like synthetic plastics and largely environmentally sustainable. A variety of bioplastics have been developed to address environmental issues associated with conventional petroleum-derived plastics and found that some bio-based plastics cannot be recycled and end up in landfills, which decompose gradually and produce methane gas. Further, the bioplastics may not replace petroleum-based plastics for all applications. For these reasons, people are starting to believe that bioplastics should be used only where suited, with tailor-made properties. Some studies show that the drawbacks associated with bioplastics are less severe when compared to conventional plastics. In order to confirm the eco-friendliness of new bioplastics, future studies need to be conducted through Life Cycle Assessments (LCAs) and Land Use Change (LUC) analyses to determine whether the use of new-generation bioplastics is indeed beneficial to the environment and become alternative to the virgin polymers based on petroleum.

The circular economy model has emerged as a promising approach to addressing the crises of plastic waste management. Unlike the traditional "take, make, dispose" model, the circular economy seeks to extend the life cycle of materials through reuse, recycling, and remanufacturing. This model is crucial for reducing plastic waste's environmental impact while unlocking new economic opportunities in waste management and material innovation. However, adopting a circular economy for plastics presents challenges, such as technological limitations in recycling, insufficient regulatory frameworks, and economic barriers to alternatives. Therefore, collaboration among academia, industry, and policymakers is essential to overcome these obstacles.

Against this backdrop, it was initially proposed to organize a two-day webinar including a special session for students to speak on the proposed topic. As the response from the students was poor, it was decided in the Executive Committee meeting held on 25.9.2024 to postpone the presentation of the technical papers by the students to a later date which will be notified in due course of time and to organize a one-day national webinar consisting of a series of expert lectures to get know the latest developments that have taken place in reducing plastic waste, the challenges, opportunities, and future prospects that exist in circular economy approach for mitigating the plastic waste.

Objective of the Webinar

The primary objective of this webinar was to convene experts from academia, industry, and research institutions to address the global challenge of plastic waste management through the lens of the circular economy. By focusing on resource optimization, recycling, reuse, and the development of biodegradable materials, the webinar aimed to explore innovative solutions that reduce plastic waste generation. The invited lectures are likely be centered around on technological, regulatory, and societal aspects of plastic waste management, providing a platform for students and professionals to contribute to a sustainable future.

Key objectives included:

1. Understanding the Circular Economy: To explain the principles of the circular economy and its potential in transforming plastic waste management by promoting reuse and recycling.
2. Identifying Challenges: To explore the challenges in reducing plastic waste, particularly single-use plastics, and examine the role of technology, policy, and public awareness.
3. Exploring Opportunities: To discuss emerging technologies such as biodegradable polymers and chemical recycling that can mitigate the plastic waste crisis.
4. Fostering Collaboration: To encourage dialogue between industry leaders, researchers, and students on innovations in sustainable plastic waste management.
5. Motivating the Student Community: To inspire the next generation of engineers and scientists to engage in sustainability-focused research and development.

IIChE Amaravati Regional Center, is very happy to inform you all that the one-day National Webinar on “Circular Economy Approach for Mitigation of Plastic Waste: Challenges, Opportunities, and Future Prospects” was successfully organized on 7th October, 2024 by IIChE Amaravati Regional Center in association with all student chapters under IIChE ARC and was hosted by National Institute of Technology Andhra Pradesh (NIT AP), Tadepalligudem. The event served as a platform for experts to share their insights into cutting-edge technologies, successful case studies, and innovative business models that support sustainable plastic waste management.

Inaugural Session

After the prayer by the students of Chemical Engineering, NIT AP, Tadepalligudem, the inaugural session was started at 9.30 am on 07.10.2024 with a warm welcome by the organizing committee, where the theme of the event mitigating plastic waste through the circular economy was introduced.

The dignitaries present on-line at the inaugural session included:

- Sri Jagarlamudi Murali Mohan, Chairman, IIChE ARC and Managing Director, JOCIL Ltd. Guntur
- Smt. Sheela, Vice President, IIChE and Former Deputy Chief Executive, Nuclear Fuel Complex, Hyderabad
- Prof. N. Balasubramanian, Honorary Treasurer, IIChE, Department of Chemical Engineering, Anna University, Chennai
- Mr. Dhawal Saxena, Honorary Registrar, IIChE and CEO & CTO, Bhumista Infra Services, Mumbai
- Dr. V. Govardhana Rao, immediate past Chairman, IIChE ARC & Former Professor, IIT Bombay
- Dr. C.V.V. Satyanarayana, Vice Chairman, IIChE ARC and former Chief scientist, CSIR-NCL, Pune
- Dr M Venkateswara Rao, Honorary Secretary, IIChE Amaravati Regional Centre and Organizing Secretary for the National Webinar

The dignitaries present off-line at the inaugural session included:

- Dr. P. Dinesh Sankar Reddy, Associate Professor, Dept. Chemical Engineering NIT AP, Tadepalligudem
- Dr. Vinoth Kumar Raja, HOD, Department of Chemical Engineering, NIT AP, Tadepalligudem
- Dr. Gourhari Chakraborty, Adhoc Faculty, Department of Chemical Engineering, NIT AP, Tadepalligudem
- Dr. Mohanraj P Adhoc Faculty, Department of Chemical Engineering, NIT AP, Tadepalligudem

The National Webinar was inaugurated by Smt. Sheela Vice President, IIChE & Former Deputy Chief Executive Nuclear Fuel Complex, Hyderabad and Prof. B S Murthy Officiating Director, NIT AP. Presiding over the Inaugural Session Sri J Murali Mohan Chairman, IIChE ARC & Vice President, RVR & JC College of Engineering (A) narrated the programs organized by IIChE ARC and conducted the proceedings. Prof. N. Balasubramanian, Honorary Treasurer, IIChE, Department of Chemical Engineering AG Tech, Anna University, Chennai and Mr. Dhawal Saxena Honorary Registrar, IIChE CEO & CTO, Bhumistha Infra Services Vashi, Navi Mumbai blessed the inaugural function as Guests of Honour. Dr. P. Dinesh Sankar Reddy, Associate Professor, Dept. Chemical Engineering NIT Andhra Pradesh graced the Inaugural function as Special Guest. Dr Vinoth Kumar Raja, HOD, Department of Chemical Engineering, NIT AP welcomed the guests and participants.

. Prof. V. Govardana Rao, Former Professor at IIT Bombay and Immediate Past Chairman IIChE ARC, welcomed the participants, briefly explained about the importance of the webinar in addressing the plastic waste management and encouraged the student community to engage in sustainability-driven research and innovation in handling the plastic waste.

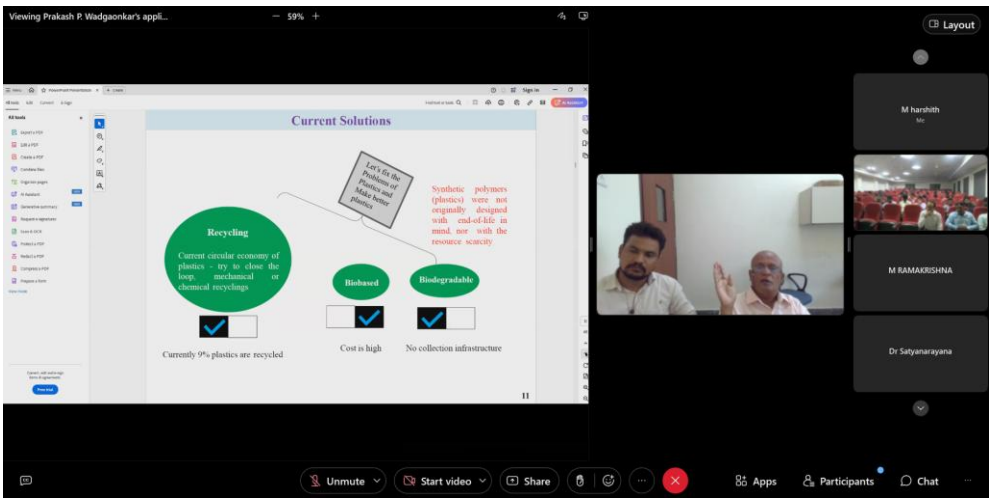
Morning Session (Technical Session I)

After the inaugural session at 10.30 am, Dr. V. Govardhana Rao, immediate past Chairman, IIChE ARC & Former Professor, IIT Bombay Chaired technical session and conducted the proceedings. This session of the webinar featured a series of insightful presentations by distinguished speakers, each addressing key topics related to plastic waste management and sustainability.

- **Dr. Sunil Pandey**, Director of the Circular Economy and Waste Management Division at TERI, delivered a presentation on "Plastic Waste Management in India with Reference to Single-Use Plastics." He emphasized the significant environmental impact of single-use plastics (SUPs), often referred to as "use and throw" items. Dr. Pandey discussed various techniques and strategies that can be employed to mitigate their harmful effects, focusing on regulatory frameworks, public awareness, and emerging technologies in the Indian context.

Dr. Prakash P. Wadgaonkar, Emeritus Scientist at CSIR-NCL, Pune, spoke on "The Greening of

Synthetic Polymers." He addressed the need to make synthetic polymers eco-friendlier, discussing strategies to reduce their environmental impact and develop more sustainable alternatives. His talk also highlighted the challenges and realities of promoting biodegradable materials as substitutes for traditional plastics.



Afternoon Session (Technical Session II)

After lunch at 02.00 pm, Dr. P. Dinesh Sankar Reddy, Associate Professor, Department of Chemical Engineering & Registrar, NIT AP Chaired the session and conducted the proceedings.

Dr. Gourhari Chakraborty, Adhoc Faculty at NIT Andhra Pradesh, focused on "Sustainable Plastics." He presented eco-friendly alternatives to conventional plastics that are designed to minimize waste and pollution. His presentation stressed the importance of promoting a circular economy through the recycling and composting of biodegradable polymers and polymer nanocomposites.

Dr. Mohanraj P delivered a presentation on "The Application of Polymers in Electrochemical Reduction for Wastewater Treatment." He discussed how certain polymers can enhance the efficiency of pollutant removal by acting as conductive or catalytic materials, improving the treatment of waste water.

- **Dr. Sanat Kumar**, Chief Scientist and Head of Upstream and Wax Rheology Division at CSIR-Indian Institute of Petroleum, Dehradun, presented on "Chemical Recycling of Waste Plastics." He explained how this process breaks down plastic waste into its original chemical components, enabling its reuse and helping to reduce the burden on landfills.

Evening Session (Technical Session III)

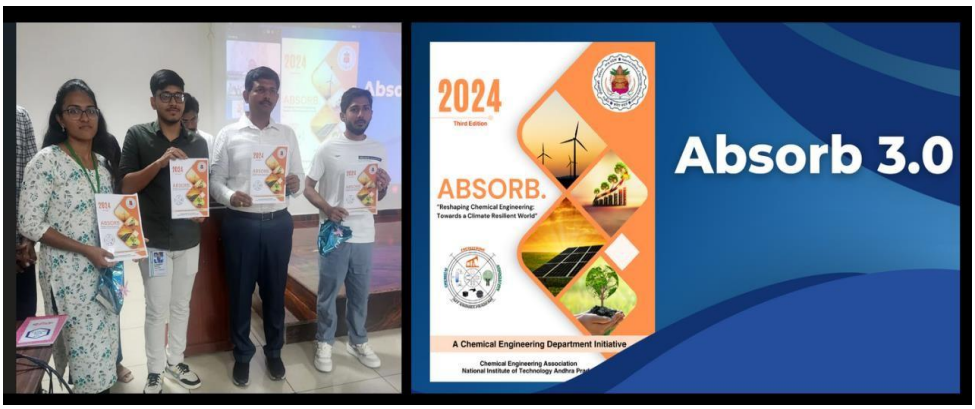
After Tea break at 04.00 pm, Dr C.V.V. Satyanarayana, Vice Chairman, IIChE ARC and former Chief scientist, CSIR-NCL, Pune Chaired the session and conducted the proceedings.

- **Dr. Virendra Kumar Gupta**, Head of R&D Polymer and Senior Vice President at Reliance Industries Limited, spoke on "Circularity in the Plastic Economy." He described how a circular economy aims to create a closed-loop system in which plastic materials are continuously cycled back into production, conserving resources and minimizing environmental impact.

These presentations collectively highlighted innovative approaches to reducing plastic waste, promoting sustainability, and advancing a circular economy in the plastics industry.

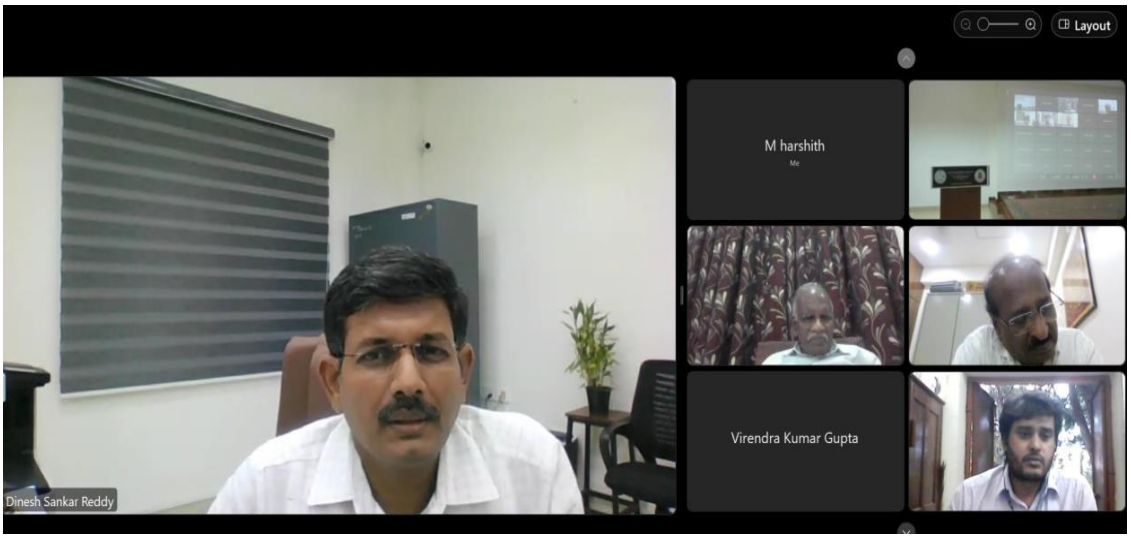
Magazine and Merchandise Launch

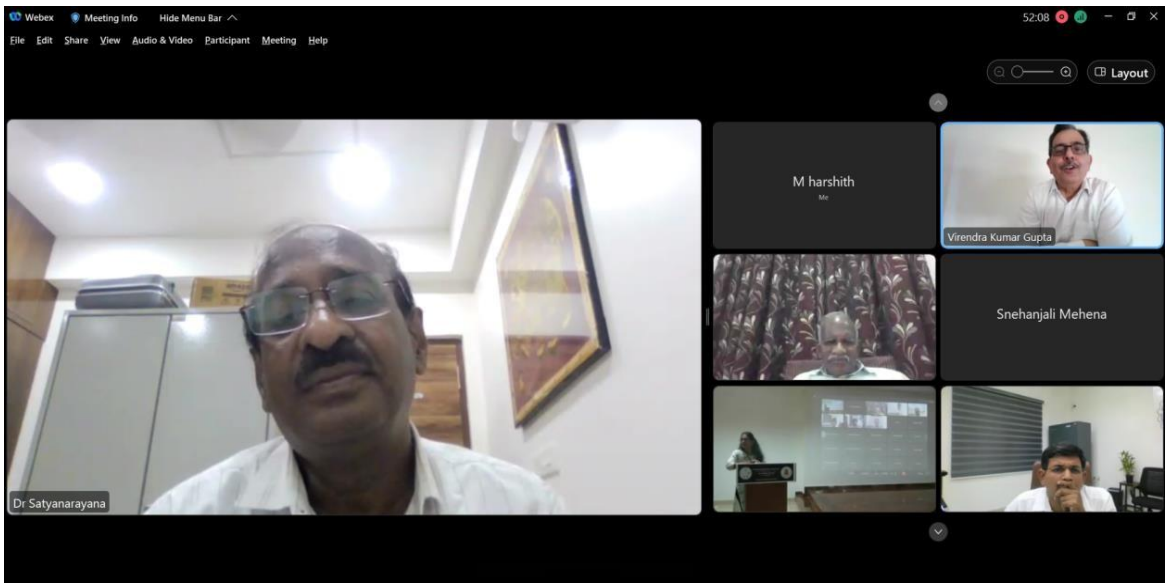
During the event, the Department of Chemical Engineering launched its departmental magazine, “Absorb 3.0”, featuring research and achievements of students and faculty. The department also revealed its new merchandise, symbolizing pride and unity within the Chemical Engineering community at NIT Andhra Pradesh



Query Sessions and Interactions

Each session included an interactive Q&A segment, where participants engaged with the speakers on topics such as the large-scale adoption of sustainable materials, technological innovations in recycling, and the role of policy in advancing circular economy models.





Closing Session

The event concluded with a closing address by Dr Dinesh P Shanker Reddy, who summarized the key takeaways and encouraged continued exploration of the circular economy model as a solution to global plastic waste issues. Dr M Venkateswara Rao, Honorary Secretary, IIChE Amaravati Regional Centre and Organizing secretary for the National Webinar proposed the vote of thanks, expressing gratitude to the dignitaries, speakers, participants, and the organizing team for their valuable contributions towards the grand success of the event.

Conclusion

The National Webinar on "Circular Economy Approach for Mitigation of Plastic Waste" was a significant success, offering a platform for knowledge exchange and collaborative discussions. The event reinforced the critical need for innovation, policy support, and industry-academia collaboration to promote the transition toward a circular economy. As global efforts to mitigate plastic waste intensify, webinars like these highlight the importance of collective action in achieving sustainable development goals. The event attracted eminent experts, faculty members, and students, who gathered to discuss the pressing issue of plastic waste management and explore sustainable solutions through the circular economy approach.

Total number of registered participants = **599** including **100** offline participants (students, faculty and working professionals). The huge response from the participants across many regions of the country is the testimony how curious and enthusiastic the participants are to listen to the expert lectures.

As per the feedback from the participants, all the speakers delivered highly informative, inspiring and thought-provoking lectures of the alarming impact of the plastic waste on the eco-systems and the necessity of circular economy model in addressing for the mitigation of the plastic waste, the on-going developments in this direction and the challenges and opportunities in implementing the circular economy for the plastic waste management in the years to come. They suggested the organizers to conduct many more such webinars in future.

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ప్లాస్టిక్ రహిత సమాజ స్థాపనకు కృషి

తాడేపల్లిగూడెం అర్బన్, న్యూస్‌టుడే: ప్లాస్టిక్ రహిత పర్యావరణ స్థాపనకు ప్రతి ఒక్కరు కృషి చేయాలని ఏపీ నిట్ రిజిస్ట్రార్ పి.దినేష్ శంకర్ రెడ్డి పేర్కొన్నారు. స్థానిక ఏపీ నిట్ ప్రాంగణంలో సర్క్యూలర్ ఎకానమీ అప్రోచ్ ఫర్ మిటిగేషన్ ఆఫ్ ప్లాస్టిక్ వేస్ట్ అంశంపై అవగాహన కార్యక్రమం మంగళవారం నిర్వహించారు. రిజిస్ట్రార్ మాట్లాడుతూ ప్లాస్టిక్ పర్యావరణానికి తీవ్ర హాని చేకూర్చుతుందన్నారు. అనంతరం కార్యక్రమానికి సంబంధించిన పుస్తకాలు ఆవిష్కరించారు. కార్యక్రమంలో విద్యార్థులు తదితరులు పాల్గొన్నారు.

పుస్తకాలను ఆవిష్కరిస్తున్న రిజిస్ట్రార్ దినేశ్‌శంకర్‌రెడ్డి

Date : 09/10/2024 EditionName : ANDHRA PRADESH(WEST GODAVARI)
PageNo : 06

విశాలాంధ్ర

ప్లాసిక్‌తో పెనుముప్పు

విశాలాంధ్ర-తాడేపల్లిగూడెం: ప్లాస్టిక్ రహిత పర్యావరణ స్థాపనకు ప్రతి ఒక్కరూ పాటుపడాలని ఇండియన్ ఇనిస్టిట్యూట్ ఆఫ్ కెమికల్ ఇంజనీర్స్ (ఐ ఐ సిహెస్ ఈ) ఉపాధ్యక్షురాలు డాక్టర్ షీలా సూచించారు.ఇండియన్ ఇన్స్టిట్యూట్ ఆఫ్ కెమికల్ ఇంజనీర్స్ అమరావతి రీజినల్ సెంటర్ (గుంటూరు), ఏపీ నిట్ స్టూడెంట్స్ చాప్టర్స్ సంయుక్త ఆధ్వర్యంలో ఇంచార్జ్ డైరెక్టర్ డాక్టర్ బిఎస్.మూర్తి పర్యవేక్షణలో సర్క్యులర్ ▶మిగతా 2లో..

Date: 09/10/2024, Edition: 100(West Godavari), Page: 1
Source : https://epaper.visalaandhra.com/

విశాలాంధ్ర

పెనుముప్పు

(1వ పేజీ తరువాయి)

ఎకానమీ అప్రోచ్ ఫర్ మిటిగేషన్ ఆఫ్ ప్లాస్టిక్ వేస్ట్ అనే అంశంపై హైబ్రిడ్ పద్ధతి (ఆన్లైన్ , ఆఫ్ లైన్) లో నేషనల్ వెబినార్ మంగళవారం నిర్వహించారు.ముఖ్య అతిథి డాక్టర్ షీలా మాట్లాడుతూ ప్లాస్టిక్ విషపూరితమైనదని, పర్యావరణానికి పెనుముప్పుగా మారిందని తెలిపారు. ప్లాస్టిక్‌ను విచ్చలవిడిగా వాడటం వల్ల మానవ మనుగడకే ముప్పు వాటిల్లుతుందని చెప్పారు. సముద్రాలు,నదులు, కాలువలు, డ్రైన్ లలో ప్లాస్టిక్ వ్యర్థాలు కలిసి నీటిని కలుషితం చేస్తుండటంతో మానవాళితోపాటు పశు పక్షాదులు, జలచరాలు తీవ్ర ముప్పును ఎదుర్కోవాల్సి వస్తుందని వివరించారు. ఐఐసిహెచ్ఈ హానరరీ రిజిస్ట్రార్ డాక్టర్ దవల్ సక్సేనా , ఐఐసిహెచ్ఈ కోశాధికారి డాక్టర్ ఎన్.బలసుబ్రమనియన్, డైరెక్టర్ సర్కులర్ ఎకానమీ అండ్ వేస్ట్ మేనేజ్మెంట్ డివిజన్ ద ఎనర్జీ అండ్ రిసోర్సెస్ ఇనిస్టిట్యూట్ (తెరి) డాక్టర్ సునీల్ పాండే మాట్లాడుతూ ప్లాస్టిక్ వినియోగాన్ని తగ్గించటంతో పాటు పర్యావరణానికి హాని కలిగించని పేపర్, క్లాత్ సంచుల వినియోగంపై ప్రజలను చైతన్యం చేయాలని సూచించారు. ఏమీరైట్స్ సైంటిస్ట్ పాలిమర్ సైన్స్ అండ్ ఇంజనీరింగ్ డివిజన్ (సీఎస్ఐఆర్) నేషనల్ కెమికల్ లాబరేటరీ డాక్టర్ పి. ప్రకాష్ , చీఫ్ సైంటిస్ట్ హెడ్ అప్ స్ట్రీమ్ అండ్ వాక్స్ రియోలజీ డివిజన్ సిఎస్ఐఆర్ ఇండియన్ ఇన్స్టిట్యూట్ ఆఫ్ పెట్రోలియం డెహ్రాడూన్ డాక్టర్ సనత్ కుమార్,హెడ్ ఆర్ అండ్ డి, పాలిమర్, సీనియర్ వైస్ ప్రెసిడెంట్ రిలయన్స్ ఇండస్ట్రీ లిమిటెడ్ ముంబై డాక్టర్ వీరేంద్ర కుమార్ గుప్తా మాట్లాడుతూ ప్లాస్టిక్ వ్యర్థాలు భూమిలో చేరి, నేల భూసారాన్ని అడ్డుకుంటుందని చెప్పారు. ప్లాస్టిక్ వ్యర్థాలను రీసైక్లింగ్ చేయడం ద్వారా వ్యర్థాలను కొంతవరకు నివారించవచ్చని వివరించారు. ఏపీ నిట్ రిజిస్ట్రార్ డాక్టర్ పి.దినేష్ శంకర్ రెడ్డి, కెమికల్ ఇంజనీరింగ్ విభాగాధిపతి డాక్టర్ వినోత్ కుమార్ రాజా మాట్లాడుతూ బయో పాలిమర్ వస్తువుల వినియోగాన్ని ప్రోత్సహించాలని వివరించారు ముందుగా రిజిస్ట్రార్ కెమికల్ ఇంజనీరింగ్ విభాగానికి చెందిన మ్యాగజైన్ ను ఆవిష్కరించారు. ఈ కార్యక్రమానికి ఆచార్యులు డాక్టర్ జి.చక్రబోర్తి కో ఆర్డినేటర్‌గా వ్యవహరించారు.ఈ కార్యక్రమంలో ఆచార్యులు విద్యార్థులు పాల్గొన్నారు.

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ప్లాస్టిక్ రహిత పర్యావరణ స్థాపనకు ప్రతి ఒక్కరూ పాటుపడాలి

తాడేపల్లిగూడెం ,08 అక్టోబర్ (ఉదయం ధ్వని)

ప్లాస్టిక్ రహిత పర్యావరణ స్థావనకు ప్రతి ఒక్కరూ పాటుపడాలని ఇండియన్ ఇనిస్టిట్యూట్ ఆఫ్ కెమికల్ ఇంజనీర్స్ (ఐ ఐ సిహెస్ ఈ) ఉపాధ్యక్షురాలు డాక్టర్ షీలా సూచించారు. ఇండియన్ ఇన్స్టిట్యూట్ ఆఫ్ కెమికల్ ఇంజనీర్స్ అమరావతి రీజినల్ సెంటర్ (గుంటూరు), ఏపీ నిట్ స్టూడెంట్స్ చాప్టర్స్ సంయుక్త ఆధ్వర్యంలో ఇండార్డ్ డైరెక్టర్ డాక్టర్ బిఎస్.మూర్తి పర్యవేక్షణలో సర్కులర్ ఎకానమీ అప్రోచ్ ఫర్ మిటిగేషన్ ఆఫ్ ప్లాస్టిక్ వేస్ట్ అనే అంశంపై హైబ్రిడ్ పద్ధతి (ఆన్లైన్ , ఆఫ్ లైన్) లో నేషనల్ వెబినార్ మంగళవారం నిర్వహించారు. ముఖ్య అతిధి డాక్టర్ షీలా మాట్లాడుతూ ప్లాస్టిక్ విషపూరితమైనదని, పర్యావరణానికి పెనుముప్పుగా మారిందని తెలిపారు. ప్లాస్టిక్ ను విచ్చలవిడిగా వాడటం వల్ల మానవ మనుగడకే ముప్పు వాటిల్లుతుందని చెప్పారు. సముద్రాలు, నదులు, కాలువలు, డ్రైయిన్ లలో ప్లాస్టిక్ వ్యర్థాలు కలిని నీటిని కలుషితం చేస్తుండటంతో మానవాళితోపాటు పశుపక్షాదులు, జలచరాలు తీవ్ర ముప్పును ఎదుర్కోవాల్సి వస్తుందని వివరించారు. ఐఐసిహెచ్ఈ హానరరీ రిజిస్ట్రార్ డాక్టర్ దవల్ సక్సనా , ఐఐసిహెచ్ఈ కోశాధికారి డాక్టర్ ఎన్.బలసుబ్రమనియన్, డైరెక్టర్ సర్కులర్ ఎకానమీ అండ్ వేస్ట్ మేనేజ్మెంట్ డివిజన్ ద ఎనర్జీ అండ్ రిసోర్సెస్ ఇనిస్టిట్యూట్ (తెరి) డాక్టర్ సునీల్ పాండే మాట్లాడుతూ ప్లాస్టిక్ వినియోగాన్ని తగ్గించటంతో పాటు పర్యావరణానికి హాని కలిగించని పేపర్, క్లాత్ సంచుల వినియోగంపై ప్రజలను చైతన్యం చేయాలని సూచించారు. ఏమీరైట్స్ సైంటిస్ట్ పాలిమర్ సైన్స్ అండ్ ఇంజనీరింగ్ డివిజన్ (సీఎస్ఐఆర్) నేషనల్ కెమికల్ లాబరేటరీ డాక్టర్ పి. ప్రకాష్ , చీప్ సైంటిస్ట్ హెడ్ అప్ ట్రీమ్ అండ్ వాక్స్ రియోలజీ డివిజన్ సిఎస్ఐఆర్ ఇండియన్ ఇన్స్టిట్యూట్ ఆఫ్ పెట్రోలియం డెహ్రాడూన్ డాక్టర్ సనత్ కుమార్, హెడ్ ఆర్ అండ్ డి, పాలిమర్, సీనియర్ వైస్ ప్రెసిడెంట్ రిలయన్స్ ఇండస్ట్రీ లిమిటెడ్ ముంబై డాక్టర్ వీరేంద్ర కుమార్ గుప్తా మాట్లాడుతూ ప్లాస్టిక్ వ్యర్థాలు భూమిలో చేరి, నేల భూసారాన్ని అడ్డుకుంటుందని చెప్పారు. ప్లాస్టిక్ వ్యర్థాలను రీసైక్లింగ్ చేయడం ద్వారా వ్యర్థాలను కొంతవరకు నివారించవచ్చని వివరించారు. ఏపీ నిట్ రిజిస్ట్రార్ డాక్టర్ పి.దినేష్ శంకర్ రెడ్డి, కెమికల్ ఇంజనీరింగ్ విభాగాధిపతి డాక్టర్ వినోత్ కుమార్ రాజా మాట్లాడుతూ బయో పాలిమర్ వస్తువుల వినియోగాన్ని ప్రోత్సహించాలని వివరించారు ముందుగా రిజిస్ట్రార్ కెమికల్ ఇంజనీరింగ్ విభాగానికి చెందిన మ్యాగజైన్ ను ఆవిష్కరించారు. ఈ కార్యక్రమానికి ఆచార్యులు డాక్టర్ జి.చక్రబోర్తి కో ఆర్డినేటర్ గా వ్యహహరించారు. ఈ కార్యక్రమంలో ఆచార్యులు విద్యార్థులు పాల్గొన్నారు.

పెన్ పవర్

ప్లాస్టిక్ రహిత పర్యావరణ స్థాపనకు పాటుపడాలి

తాడేపల్లిగూడెం, పెన్ పవర్, అక్టోబర్ 8:ప్లాస్టిక్ రహిత పర్యావరణ స్థాపనకు ప్రతి ఒక్కరూ పాటుపడాలని ఇండియన్ ఇనిస్టిట్యూట్ ఆఫ్ కెమికల్ ఇంజనీర్స్ ఉపాధ్యక్షురాలు డాక్టర్ షీలా సూచించారు. గుంటూరు ఇండియన్ ఇన్స్టిట్యూట్ ఆఫ్ కెమికల్ ఇంజనీర్స్ అమరావతి రీజినల్ సెంటర్, ఏపీ నిట్ స్టూడెంట్స్ చాప్టర్స్ సంయుక్త ఆధ్వర్యంలో సర్కులర్ ఎకానమీ అప్రోచ్ ఫర్ మిటిగేషన్ ఆఫ్ ప్లాస్టిక్ వేస్ట్ అనే అంశంపై హైబ్రిడ్ పద్ధతి ఆన్లైన్ , ఆఫ్ లైన్ లో నేషనల్ వెబినార్ మంగళవారం నిర్వహించారు. డాక్టర్ షీలా మాట్లాడుతూ ప్లాస్టిక్ విషపూరితమైందని, పర్యావరణానికి పెనుముప్పుగా మారిందని తెలిపారు. ప్లాస్టిక్ ను విచ్చలవిడిగా వాడటం వల్ల మానవ మనుగడకే ముప్పు వాటిల్లుతుందని చెప్పారు. సముద్రాలు, నదులు, కాలువలు, డ్రైయిన్ లలో ప్లాస్టిక్ వ్యర్థాలు కలిని నీటిని కలుషితం చేస్తుండటంతో మానవాళితోపాటు పశు పక్షాదులు, జలచరాలు తీవ్ర ముప్పును ఎదుర్కోవాల్సి వస్తుందని వివరించారు. ఐఐసిహెచ్ఈ హానరరీ రిజిస్ట్రార్ డాక్టర్ దవల్ సక్సనా , ఐఐసిహెచ్ఈ కోశాధికారి డాక్టర్ ఎన్.బాలసుబ్రమనియన్, డైరెక్టర్ సర్కులర్ ఎకానమీ అండ్ వేస్ట్

మేనేజ్మెంట్ డివిజన్ ద ఎనర్జీ అండ్ రిసోర్సెస్ ఇనిస్టిట్యూట్ డాక్టర్ సునీల్ పాండే మాట్లాడుతూ ప్లాస్టిక్ వినియోగాన్ని తగ్గించటంతో పాటు పర్యావరణానికి హాని కలిగించని పేపర్, క్లాత్ సంచుల వినియోగంపై ప్రజలను చైతన్యం చేయాలని సూచించారు. ఏమీరైట్స్ సైంటిస్ట్ పాలిమర్ సైన్స్ అండ్ ఇంజనీరింగ్ డివిజన్ నేషనల్ కెమికల్ లాబరేటరీ డాక్టర్ పి. ప్రకాష్ , చీప్ సైంటిస్ట్ హెడ్ అప్ ట్రీమ్, వాక్స్ రియోలజీ డివిజన్ సిఎస్ఐఆర్ ఇండియన్ ఇన్స్టిట్యూట్ ఆఫ్ పెట్రోలియం డెహ్రాడూన్ డాక్టర్ సనత్ కుమార్, హెడ్ ఆర్ డి, పాలిమర్, సీనియర్ వైస్ ప్రెసిడెంట్ రిలయన్స్ ఇండస్ట్రీ లిమిటెడ్ ముంబై డాక్టర్ వీరేంద్ర కుమార్ గుప్తా మాట్లాడుతూ ప్లాస్టిక్ వ్యర్థాలు భూమిలో చేరి, నేల భూసారాన్ని అడ్డుకుంటుందని చెప్పారు. ప్లాస్టిక్ వ్యర్థాలను రీసైక్లింగ్ చేయడం ద్వారా వ్యర్థాలను కొంతవరకు నివారించ వచ్చని వివరించారు. ఏపీ నిట్ రిజిస్ట్రార్ డాక్టర్ పి.దినేష్ శంకర్ రెడ్డి, కెమికల్ ఇంజనీరింగ్ విభాగాధిపతి డాక్టర్ వినోత్ కుమార్ రాజా మాట్లాడుతూ బయో పాలిమర్ వస్తువుల వినియోగాన్ని ప్రోత్సహించాలని వివరించారు ముందుగా రిజిస్ట్రార్ కెమికల్ ఇంజనీరింగ్ విభాగానికి చెందిన మ్యాగజైన్ ను ఆవిష్కరించారు. ఈ కార్యక్రమానికి ఆచార్యులు డాక్టర్ జి.చక్రబోర్తి కో ఆర్డినేటర్ గా వ్యహహరిం చారు. ఈ కార్యక్రమంలో ఆచార్యులు విద్యార్థులు పాల్గొన్నారు.

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ప్లాస్టిక్ నివారణ కోసం కృషి చేయాలి

తాడేపల్లిగూడెం అర్బన్, అక్టోబరు 8 : ప్లాస్టిక్ రహిత పర్యావరణ స్థాపనకు ప్రతి ఒక్కరూ కృషి చేయాలని ఇండియన్ ఇన్‌స్టిట్యూట్ ఆఫ్ కెమికల్ ఇంజనీర్స్ ఉపాధ్యక్షురాలు డాక్టర్ షీలా అన్నారు. ఇండియన్ ఇన్‌స్టిట్యూట్ ఆఫ్ కెమికల్ ఇంజనీర్స్ అమరావతి రీజినల్ సెంటర్, ఏపీ నిట్ స్టూడెంట్స్ చాప్టర్స్ సంయుక్త ఆధ్వర్యంలో ఇన్‌చార్జి డైరెక్టర్ డాక్టర్ బీఎస్.మూర్తి పర్యవేక్షణలో సర్క్యులర్ ఏకానమి అప్రోచ్ ఫర్ మిటిగేషన్ ఆఫ్ ప్లాస్టిక్ వేస్ట్ అనే అంశంపై హైబ్రీడ్ పద్ధతిలో మంగళవారం నేషనల్ వెబినార్ నిర్వహించారు. ఈ సందర్భంగా డాక్టర్ షీలా మాట్లాడుతూ ప్లాస్టిక్ విషపూరిత మైందని పర్యావరణానికి పెనుముప్పుగా మారిందన్నారు. ఐఐసీహెచ్ఈ హనరరీ రిజిస్ట్రార్ డాక్టర్ దవల్ సక్సేనా, ఐఐసీహెచ్ఈ కోశాధికారి డాక్టర్ ఎన్.బాలసుబ్రమనియన్, ఏపీనిట్ రిజిస్ట్రార్ డాక్టర్ పీ దినేష్‌శంకర్‌రెడ్డి, కెమికల్ ఇంజనీరింగ్ విభాగాధిపతి డాక్టర్ వినోత్‌కుమార్‌రాజా తదితరులు మాటాడారు.

ప్లాస్టిక్ తో పర్యావరణకు ముప్పు

పశ్చిమగోదావరి జిల్లా/తాడేపల్లిగూడెం, అక్టోబర్ 08 (ప్రజాకవచం):ప్లాస్టిక్ తో పర్యావరణకు ముప్పు పొంచి ఉందని ఇండియన్ ఇనిస్టిట్యూట్ ఆఫ్ కెమికల్ ఇంజనీర్స్ (ఐ ఐ సిహెచ్ ఈ) ఉపాధ్యక్షురాలు డాక్టర్ షీలా ఆందోళన చేశారు .ఇండియన్ ఇన్స్టిట్యూట్ ఆఫ్ కెమికల్ ఇంజనీర్స్ అమరావతి రీజినల్ సెంటర్ (గుంటూరు), ఏపీ నిట్ స్టూడెంట్స్ చాప్టర్స్ సంయుక్త ఆధ్వర్యంలో ఇంచార్జ్ డైరెక్టర్ డాక్టర్ బిఎస్.మూర్తి పర్యవేక్షణలో సర్కులర్ ఎకానమీ అప్రోచ్ ఫర్ మిటిగేషన్ ఆఫ్ ప్లాస్టిక్ వేస్ట్ అనే అంశంపై హైబ్రిడ్ పద్దతి (ఆన్లైన్ , ఆఫ్ లైన్) లో నేషనల్ వెబినార్ మంగళవారం నిర్వహించారు. ముఖ్య అతిధి డాక్టర్ షీలా మాట్లాడుతూ ప్లాస్టిక్ రహిత సమాజాన్ని సృష్టించే దిశగా ప్రతి ఒక్కరూ అడుగులు వేయాలని పిలుపునిచ్చారు. ప్లాస్టిక్ విషపూరితమైనదని, పర్యావరణానికి పెనుముప్పుగా మారిందని తెలిపారు. ప్లాస్టిక్ ను విచ్చలవిడిగా వాడటం వల్ల మానవ మనుగడకే ముప్పు వాటిల్లుతుందని చెప్పారు. సముద్రాలు, నదులు, కాలువలు, డ్రైయిన్ లలో ప్లాస్టిక్ వ్యర్థాలు కలిసి నీటిని కలుషితం చేస్తుండటంతో మానవాళితోపాటు పశుపక్షాదులు, జలచరాలు తీవ్ర ముప్పును ఎదుర్కోవాల్సి వస్తుందని వివరించారు. ఐఐసిహెచ్ఈ హనరరీ రిజిస్ట్రార్ డాక్టర్ దవల్ సక్సనా , ఐఐసిహెచ్ఈ కోశాధికారి డాక్టర్ ఎన్.బలసుబ్రమనియన్, డైరెక్టర్ సర్కులర్ ఎకానమీ అండ్ వేస్ట్ మేనేజ్మెంట్ డివిజన్ ద ఎనర్జీ అండ్ రిసోర్సెస్ ఇనిస్టిట్యూట్ (తెరి) డాక్టర్ సునీల్ పాండే మాట్లాడుతూ ప్లాస్టిక్ వినియోగాన్ని తగ్గించటంతో పాటు పర్యావరణానికి హాని కలిగించని పేపర్, క్లాత్ సంచుల వినియోగంపై ప్రజలను చైతన్యం చేయాలని సూచించారు. ఏమీరైట్స్ సైంటిస్ట్ పాలిమర్ సైన్స్ అండ్ ఇంజనీరింగ్ డివిజన్ (సీఎస్ఐఆర్) నేషనల్ కెమికల్ లాబరేటరీ డాక్టర్ పి. ప్రకాష్ , చీఫ్ సైంటిస్ట్ హెడ్ అప్ స్ట్రీమ్ అండ్ వాక్స్ రియాలజీ డివిజన్ సిఎస్ఐఆర్ ఇండియన్ ఇన్స్టిట్యూట్ ఆఫ్ పెట్రోలియం డెహ్రాడూన్ డాక్టర్ సనత్ కుమార్, హెడ్ ఆర్ అండ్ డి, పాలిమర్, సీనియర్ వైస్ ప్రెసిడెంట్ రిలయన్స్ ఇండస్ట్రీ లిమిటెడ్ ముంబై డాక్టర్ వీరేంద్ర కుమార్ గుప్తా మాట్లాడుతూ ప్లాస్టిక్ వ్యర్థాలు భూమిలో చేరి, నేల భూసారాన్ని అడ్డుకుంటుందని చెప్పారు. ప్లాస్టిక్ వ్యర్థాలను రీసైక్లింగ్ చేయడం ద్వారా వ్యర్థాలను కొంతవరకు నివారించవచ్చని వివరించారు. ఏపీ నిట్ రిజిస్ట్రార్ డాక్టర్ పి.దినేష్ శంకర్ రెడ్డి, కెమికల్ ఇంజనీరింగ్ విభాగాధిపతి డాక్టర్ వినోత్ కుమార్ రాజా మాట్లాడుతూ బయో పాలిమర్ వస్తువుల వినియోగాన్ని ప్రోత్సహించాలని వివరించారు ముందుగా రిజిస్ట్రార్ కెమికల్ ఇంజనీరింగ్ విభాగానికి చెందిన మ్యాగజైన్ ను ఆవిష్కరించారు. ఈ కార్యక్రమానికి ఆచార్యులు డాక్టర్ జి.చక్రబోర్తి కో ఆర్డినేటర్ గా వ్యహహరించారు.ఈ కార్యక్రమంలో ఆచార్యులు విద్యార్థులు పాల్గొన్నారు.

II. One Day International Workshop on "Production & Utilization of Green Hydrogen for Sustainable Development" on 6th February 2025

Background

Hydrogen can help tackle various critical energy challenges. It offers ways to decarbonize a range of sectors – including long-haul transport, chemicals, and iron and steel – where it is proving difficult to meaning fully reduce CO_2 emissions. It can also help improve air quality and strengthen energy security. Despite very ambitious international climate goals, global energy-related CO_2 emissions reached an all-time high in 2018. Outdoor air pollution also remains a pressing problem, with around3million people dying prematurely each year.

Today, hydrogen is used mostly in oil refining and for the production of fertilizers. For it to make a significant contribution to clean energy transitions, it also needs to be adopted in sectors where it is almost completely absent at the moment, such as transport, buildings, steel, chemicals and power generation. **However, clean, wide spread use of hydrogen in global energy transitions faces several challenges**

The International Energy Agency (IEA) has identified a few near-term opportunities to boost hydrogen on the path towards its clean, wide spread use. Focusing on the serial-world spring boards could help hydrogen achieve the necessary scale to bring down costs and reduces risks for governments and the private sector.

Against this backdrop, a one-day International Workshop comprising of a couple of experts was organized to get know the latest developments that have taken place in production & utilization of green Hydrogen for sustainable development.

I, on behalf of IIChE Amaravati Regional Center, is very happy to inform you all that a one-day International Workshop on **Production & Utilization of Green Hydrogen for Sustainable Development** was successfully organized on 6th February 2025 by PG/UG Chemistry Departments of JKC College(A) in association with IIChE Amaravati Regional Center. At 10.30 am, the International Workshop was inaugurated by the Chief Guest **Dr. Bodedla Govardhana Babu** Research Assistant Professor, Hong Kong Polytechnic University, Hung Hom, Hong Kong. Presiding over the meeting, **Sri J Murali Mohan** Secretary & Correspondent JKC College (A) & Chairman, IIChE ARC narrated the programs organized by JKC College & IIChE ARC. **Dr. Jaidev Kaushik** Assistant Professor, Department of Chemistry, SRM University, AP, **Sri P. Gopi Chand,** Principal, JKC College, **Sri S.R.K. Prasad,** Director P.G. Courses, JKC College graced the inaugural session as Guests of Honour. **Dr V Govardhana Rao**, former Vice Chancellor, Vignan's Foundation for Science, Technology and Research (Deemed to be University) & immediate past Chairman IIChE ARC graced the inaugural function as Special Guest. Dr. Bodedla Govardhana Babu, Dr. Jaidev Kaushik, Dr V Govardhana Rao spoke briefly the importance of Hydrogen Energy Transition from Fossil fuel economy in the context reducing carbon emissions and mitigating global warming. **Dr. N. Madhavi,** Head, Department of Chemistry (PG), JKC College & Organizing Secretary of the workshop and **Dr M Venkateswara Rao** former professor in Chemical Engineering & Dean Examinations RVR&JC College of Engineering (A) and Honorary Regional Secretary, IIChE ARC welcomed the guests and participants.

Technical Sessions I: Session I (11:45 am to 1:00 pm):

Dr. M. Venkateswara Rao former Professor & Dean Examinations, RVR & JC College of Engineering(A) & Honorary Regional Secretary IIChE Amaravati Regional Center presided the session and conducted the proceedings

Dr. Bodedla Govardhana Babu, alumnus of JKC College & Research Assistant Professor, The Hong Kong Polytechnic University, Hung Hom, Hong Kong shared his expertise on the latest developments in fuel cell technology and the challenges in integrating them with renewable energy sources. He focused on designing and synthesizing advanced photocatalysts, particularly porphyrin and phthalocyanine-based materials for production of hydrogen and carbon dioxide reduction. His work is at the forefront of sustainable energy research, tackling some of the most pressing global challenges, such as clean energy production and environmental sustainability. He said he had humble beginning at JKC College with a strong academic foundation in M.Sc. in Organic Chemistry, pursued his Ph.D. in Organic Materials Chemistry at the prestigious Indian Institute of Technology Roorkee with dedication, at present working as Research Assistant Professor at The Hong Kong Polytechnic University, and published an impressive record of 33 research publications 745 citations, reflecting the impact and significance of his work in the scientific community, thus motivating the students to pursue research useful to the society as a whole with the commitment and determination.

Technical Sessions II: Session I (02 to 03.00 pm):

Dr. V.Govardhana Rao former Professor IITB Mumbai, Vice Chancellor, Vignan's Foundation for Science, Technology and Research (Deemed to be University) & immediate past Chairman IIChE ARC presided the session and conducted the proceedings

Dr. Jaidev Kaushik Assistant Professor, Department of Chemistry, SRM University, AP. delved into the importance of Green Hydrogen, Green Chemistry and Challenges in Scaling Green Hydrogen production processes. He talked about environmental sustainability by following Green Chemistry principles with a few industrial examples which he himself developed for reducing the waste, thus reducing carbon footprint in the environment. His research work on green chemistry, nanomaterials, CO2 reduction, photo catalysis, and environmental sustainability which earned him international recognition motivated the students to pursue research.

Both Experts discussed various methods of green hydrogen production, including electrolysis powered by renewable energy, and addressed the technical and economic hurdles in scaling up production to meet future demand. The experts also emphasized the role of green hydrogen in reducing carbon emissions across various sectors

Paper Presentations (both Oral & Poster (3:00 to 4:30 pm):

The paper presentation session provided a platform for researchers and students to showcase their work. Presentations covered diverse aspects of green hydrogen, including production techniques, storage solutions, applications in transportation and industry, and environmental impact. The presentations were followed by interactive discussions, fostering knowledge exchange.

Participants: Total numbers of participants are around 315

The workshop witnessed active participation from B.Tech, B.Sc, and M.Sc students, as well as faculty members and researchers from various institutions. The diverse audience facilitated a rich exchange of ideas and perspectives. The top three presentations by the participants in both oral and poster categories were awarded prizes.

Awards presented to student for oral presentations

S.No.	Name of the Student	Name of the College	Prize
1.	K.Sravanthi	St Ann's College, Guntur	I
2.	Sk.Vaseema	JKC College, Guntur	II
3.	Sk.JohnSaida	JKC College, Guntur	III

Awards presented to student for poster presentations

S.No.	Name of the Student	Name of the College	Prize
1.	G.Venkata Lakshmi & D. Lakshmi Tirupatamma	JKC College, Guntur	I
2.	Ch. Sandeep & Sk.Aashik	JKC College, Guntur	II
3.	A. Teja Pravallika	JKC College, Guntur	III

Conclusion:

The International Workshop on "Production & Utilization of Green Hydrogen for Sustainable Development" served as a valuable platform for disseminating knowledge, fostering discussions, and promoting future interatins in the field of hydrogen energy. The workshop highlighted the immense potential of green hydrogen to contribute to a cleaner and more sustainable energy future. The organizers successfully created an engaging and informative event that inspired participants to contribute to the advancement of green hydrogen technologies.

Feedback and Vote of Thanks (4:30 to 5:00 pm):

The workshop concluded with a feedback session, where participants shared their thoughts and suggestions. The organizers expressed their gratitude to the speakers, participants, sponsors, and volunteers for making the event a success.

గ్రీన్ హైడ్రోజన్‌ను ఉపయోగించుకోవాలి

ఎస్వీఎన్‌కాలనీ, న్యూస్‌టుడే: పెట్రోలు, డీజిల్‌కు ప్రత్యామ్నాయంగా గ్రీన్ హైడ్రోజన్‌ను ఉపయోగించుకోవాలని జేకేసీ కళాశాల కార్యదర్శి జాగర్లమూడి మురళీమోహన్ అన్నారు. జేకేసీ కళాశాల యూజీ, పీజీ రసాయనశాస్త్ర విభాగాలు, అమరావతి రీజనల్ సెంటర్ ఇండియన్ ఇన్‌స్టిట్యూట్ ఆఫ్ కెమికల్ ఇంజినీరింగ్ ఆధ్వర్యంలో 'గ్రీన్ హైడ్రోజన్ ఉత్పత్తి, సుస్థిరమైన అభివృద్ధి కోసం వినియోగం' అనే

ముఖ్యఅతిథులను సత్కరిస్తున్న కళాశాల యాజమాన్యం

అంశం మీద ఒకరోజు అంతర్జాతీయ కార్యశాల శుక్రవారం నిర్వహించారు. కార్యక్రమానికి హాంకాంగ్ విశ్వవిద్యాలయ ఆచార్యులు డాక్టర్ బి.గోవర్ధన్‌బాబు ముఖ్యఅతిథిగా హాజరై గ్రీన్ హైడ్రోజన్ ఉత్పత్తికి సంబంధించిన పరిశోధనలను విశ్లేషించారు. మరో ముఖ్యఅతిథిగా హాజరైన అమరావతి ఎస్ఆర్ఎం విశ్వవిద్యాలయ ఆచార్యులు డాక్టర్ జయదేవ్ కౌశిక్ గ్రీన్ హైడ్రోజన్ ఉత్పత్తి, వినియోగంలో ఎదురయ్యే సవాళ్లను అధిగమించడానికి చేసిన పరిశోధనలను వివరించారు. కార్యక్రమంలో విజ్ఞాన్ విశ్వవిద్యాలయ విశ్రాంత వైస్‌చాన్స్‌లర్ డాక్టర్ వి.గోవర్ధన్‌రావు, ప్రిన్సిపల్ పి.గోపిచంద్, పీజీ కోర్సుల డైరెక్టర్ ఎస్ఆర్‌కె ప్రసాద్, సదస్సు కన్వీనర్ డాక్టర్ ఎం.గౌరీశంకర్, కార్యశాల నిర్వహణాధికారి డాక్టర్ ఎన్.మాధవి, సంయుక్త కార్యనిర్వహణాధికారి ఎం.వెంకటేశ్వరరావు, జోసిల్ ప్రైవేట్ లిమిటెడ్ ప్రతినిధులు పి.వెంకటేశ్వర్లు, డి.వాసుబాబు, అధ్యాపకులు పాల్గొన్నారు.

Date : 07/02/2025 EditionName : ANDHRA PRADESH (AMARAVATI GUNTUR) PageNo :

ABN ఆంధ్రజ్యోతి

గ్రీన్ హైడ్రోజన్‌తో విప్లవాత్మక మార్పులు

గుంటూరు(విద్య),ఫిబ్రవరి 6(ఆంధ్రజ్యోతి): భవిష్యత్తులో గ్రీన్ హైడ్రోజన్ ద్వారా విప్లవాత్మక మార్పులు రానున్నాయని హాంకాంగ్ పాలిటెక్నిక్ వర్శిటీ డైరెక్టర్ డాక్టర్ బీ గోవర్ధన్‌బాబు అన్నారు. గురువారం జేకేసీ కళాశాలలో రసాయనశాస్త్రం, ఇండియన్ ఇనిస్టిట్యూట్ ఆఫ్ కెమికల్ ఇంజనీర్స్ అమరావతి ప్రాంతీయ సెంటర్ ఆధ్వర్యంలో నిర్వహించిన సదస్సులో ఆయన మాట్లాడారు. గ్రీన్‌హైడ్రోజన్ ఇంధనంగా ఉపయోగిస్తే అనేక ఉపయోగాలు ఉంటాయని, కాలుష్యాన్ని అసాధారణ స్థాయిలో తగ్గించవచ్చునని అన్నారు. కార్యక్రమంలో కళాశాల అధ్యక్షకార్యదర్శులు జాగర్లమూడి మురళీమోహన్, ప్రిన్సిపాల్ పీగోపిచంద్, డాక్టర్ ఎం గౌరీశంకర్, డాక్టర్ ఎం వెంకటేశ్వరరావు, విజ్ఞాన్ వర్శిటీ మాజీ వీసి డాక్టర్ గోవర్ధనరావు, జోసిల్ ప్రతినిధులు పీవెంకటేశ్వర్లు, డీ వాసుబాబు తదితరులు పాల్గొన్నారు. ఈ సందర్భంగా నిర్వహించిన పోటీల్లో గెలుపొందిన విద్యార్థులకు బహుమతులు అందజేశారు.

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సాక్షి

భవిష్యత్తు గ్రీన్ హైడ్రోజన్‌దే

గుంటూరు ఎడ్యుకేషన్: ఇంధన రంగంలో భవిష్యత్తు గ్రీన్ హైడ్రోజన్‌దేనని హాంకాంగ్ పాలిటెక్నిక్ యూనివర్శిటీ ప్రతినిధి డాక్టర్ బి. గోరవర్ధన్‌బాబు పేర్కొన్నారు. జేకేసీ నగర్‌లోని జేకేసీ కళాశాలలో గురువారం రసాయనశాస్త్ర విభాగ ఆధ్వర్యంలో ''స్థిరమైన అభివృద్ధి కోసం గ్రీన్ హైడ్రోజన్ ఉత్పత్తి–వినియోగం''పై గురువారం అంతర్జాతీయస్థాయి వర్క్‌షాప్ నిర్వహించారు. ముఖ్య అతిథిగా పాల్గొన్న గోవర్ధన్ బాబు మాట్లాడుతూ గ్రీన్ హైడ్రోజన్ ఉత్పత్తిపై తాను చేసిన పరిశోధనలను విశ్లేషణాత్మకంగా వివరించారు. ఎస్ఆర్ఎం యూనివర్శిటీ ప్రతినిధి డాక్టర్ బి.జయదేవ్ కౌశిక్ మాట్లాడుతూ గ్రీన్ హైడ్రోజన్ ఉత్పత్తి, వినియోగంలో ఎదురయ్యే సవాళ్లను అధిగమించేందుకు చేసిన పరిశోధకులకు వివరించారు. పర్యావరణానికి హాని కలిగించని ఇంధన వనరులను వినియోగించడం ద్వారా పర్యావరణ పరిరక్షణ సాధ్యమవుతుందని వెల్లడించారు. కళాశాల కరస్పాండెంట్ జాగర్లమూడి మురళీమోహన్ మాట్లాడుతూ ప్రస్తుత కాలంలో బొగ్గు, డీజిల్, భారీ ఇంధన చమురుతో పోలిస్తే గ్రీన్ హైడ్రోజన్ క్లీన్ ఎనర్జీగా ఉపయోగపడుతుందని అన్నారు. విద్యార్థులకు, పరిశోధకులకు మౌఖిక, పోస్టర్ ప్రదర్శన పోటీలను నిర్వహించి, విజేతలకు బహుమతులు అందజేశారు. వర్క్‌షాప్‌లో కళాశాల అధ్యక్షుడు డాక్టర్ రాయపాటి శ్రీనివాస్, ప్రిన్సిపాల్ పి.గోపీచంద్, పీజీ కోర్సుల డైరెక్టర్ ఎస్ఆర్కే ప్రసాద్, వర్క్‌షాప్ కన్వీనర్ డాక్టర్ ఎం. గౌరీశంకర్, డాక్టర్ ఎన్. మాధవి, డాక్టర్ ఎం. వెంకటేశ్వరరావు, విజ్ఞాన్ వర్శిటీ విశ్రాంత వీసీ డాక్టర్ వి. గోవర్ధనరావు, జోషిల్ సంస్థ కెమిస్టులు పి.వెంకటేశ్వర్లు, డి.వాసుబాబు పాల్గొన్నారు.

ముఖ్య అతిథులను సత్కరించిన మురళీమోహన్, ఎస్ఆర్కే ప్రసాద్, గోపీచంద్, తదితరులు

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Source : https://epaper.sakshi.com/

III. Prof. M. Venkateswara Rao 3rd Endowment Lecture on 18th February 2025

We are very happy to note that 3rd Prof. M. Venkateswara Rao Endowment Lecture was successfully organized on 18th February 2025 by IIChE Amaravati Regional Centre in association with all student chapters under IIChE ARC and hosted by Rajiv Gandhi University of Knowledge Technologies, Nuzvid, Andhra Pradesh. Prof. Jagadish Chennupati, President, Australian Academy of Science delivered the 3rd Endowment lecture on "Semiconductor Nanostructures for Optoelectronics, Energy, Sensors and Neuroscience Applications".

At 10.00 a.m. the program began with inviting the guests on to the dais by Ms. P. Lashmi Prasanna and Ms. A. Anvitha third year students of Chemical Engineering, Rajiv Gandhi University of Knowledge Technologies (RGUKT), Nuzvid. Ms. Ch. Sai Triveni and Ms. P. Yogini Bala second year students of Chemical Engineering from RGUKT started the event with a prayer followed by lighting the lamp by the dignitaries on the dais. Sri J. Murali Mohan, Chairman, IIChE Amaravati Regional Centre presided over the inaugural function and conducted the proceedings.

The dignitaries present off-line in the inaugural session:

- Prof. S. Amarendra Kumar, Director, Rajiv Gandhi University of Knowledge Technologies, Nuzvid, Andhra Pradesh
- Dr. V. Govardhana Rao, immediate past Chairman, IIChE ARC & Former Professor IITB, Mumbai
- Dr. M. Venkateswara Rao, Honorary Secretary, IIChE Amaravati Regional Centre and Former Professor & Dean of Examinations, RVR & JC College of Engineering(A), Guntur
- Dr. B. Lakshmana Rao, Administrative Officer, Rajiv Gandhi University of Knowledge Technologies, Nuzvid
- Dr. Sadu Chiranjeevi, Dean, Academics & Assistant Professor, Department of Computer Science and Engineering, RGUKT, Nuzvid
- Dr. T. Durga Bhavani, Dean Student Welfare for Girls & Mentor in IT, RGUKT, Nuzvid
- Sri M. Madhusudhana Reddy, Assistant Professor & Head, Department of Chemical Engineering, RGUKT, Nuzvid
- Sri M. Ramakrishna, EC member IIChE ARC & Assistant Professor, Department of Chemical Engineering, RGUKT, Nuzvid

The dignitaries present on-line in the inaugural session:

- Sri Jagarlamudi Murali Mohan, Chairman, IIChE ARC and Managing Director, JOCIL Ltd. Guntur.

- Prof. Jagadish Chennupati, Distinguished Professor & Head of Semiconductor, Optoelectronics & Nanotechnology group in the Department of Electronic materials, Australian National University, Australia & President, Australian Academy of Science

- Dr. Ajay Bansal, President, IIChE and Professor, Department of Chemical Engineering & Registrar, Dr B R Ambedkar National Institute of Technology, Jalandhar

- Dr. R. Parthiban, Vice President, IIChE and Professor, Department of Chemical Engineering, S.S.N. College of Engineering, Kalavakkam, Chennai

- Dr. Parag R Gogate, Vice President, IIChE and Professor, Department of Chemical Engineering, Institute of Chemical Technology, Matunga, Mumbai

- Dr. C.V.V. Satyanarayana, Vice Chairman, IIChE ARC and former Chief scientist, CSIR-NCL, Pune

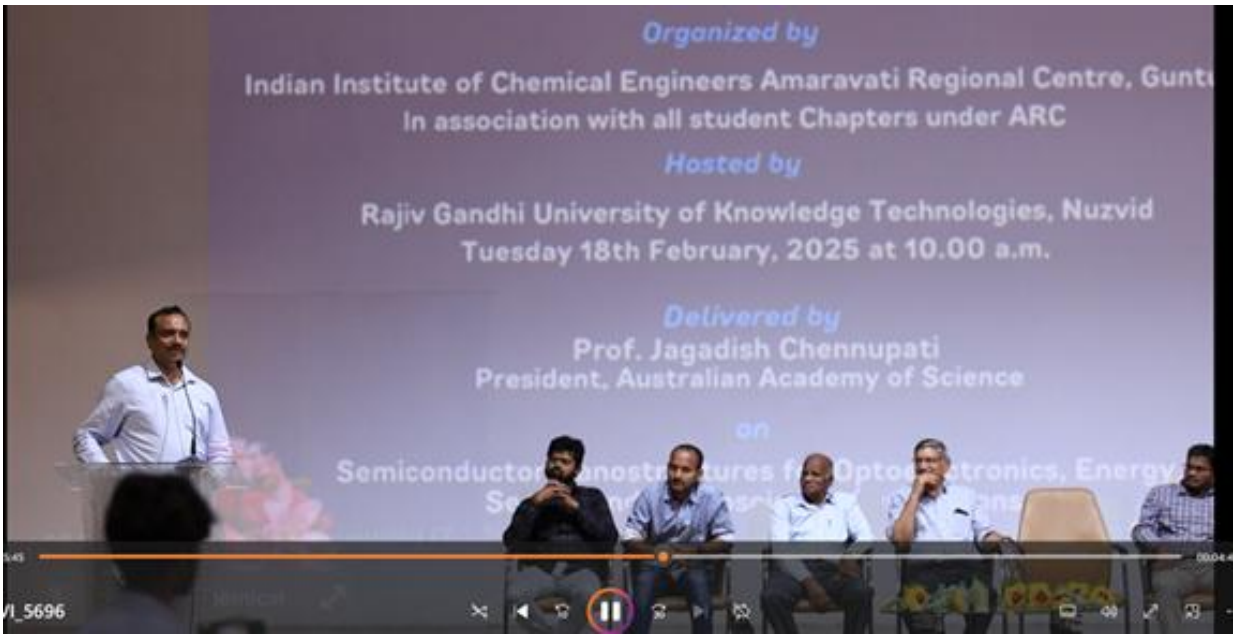
Presiding over the inaugural session, Sri J. Murali Mohan, Chairman, IIChE Amaravati Regional Centre warmly welcomed the IIChE office bearers who joined on-line, viz., Prof. Ajay Bansal, President-IIChE and the Chief Guest, Prof. R. Parthiban, Vice-president, IIChE and Prof. Parag R Gogate- Vice-president, IIChE both the Guests of Honour for the inaugural function, Prof. S. Amarendra Kumar Director, RGUKT, Nuzvid, Prof. Jagadish Chennupati, the distinguished speaker of the Endowment Lecture, other dignitaries on the dais, participants both on-line and off-line from different Universities/Institutions including RGUKT-Nuzvid, RVR &JC College of Engineering(A), Guntur, JKC College, Guntur, Vignan's Foundation for Science, Technology & Research (Deemed to be University), Vadlamudi, Guntur, NIT AP, Tadepalligudem, and many other Universities/Institutions across the country for Endowment Lecture. Due to unavoidable circumstances Sri J. Murali Mohan, is not able deliver the Chairman's message and requested Prof. V. Govardhana Rao, immediate Chairman IIChE ARC the read out the Chairman's message, sent by Sri J. Murali Mohan, Chairman.

The Chief Guest Prof. Ajay Bansal, President IIChE along with Prof. S. Amarendra Kumar, Director RGUKT inaugurated the event. In his inaugural message, Prof. Ajay Bansal welcomed all the participants both on-line and off-line who are attending the 3rd Prof Venkateswara Rao Endowment lecture. He congratulated Prof Rao for instituting an Endowment Lectures at the Amaravati Regional centre and also at the National level (headquarters of IIChE). He appreciated Dr Rao for his active role both in Amaravati regional centre in conducting many programmes useful to the students and faculty and in National level serving as a Council member of IIChE. He also appreciated IIChE Amaravati Regional Centre for securing either 1st or 2nd best Regional Centre awards many times in a short span of 10 Years of its establishment and Prof. Venkateswara Rao's active role. He spoke about the National education policy which allows the interested students to move into various inter-disciplinary programmes of their interest. He further added that the endowment lecture to be delivered today by Prof. Jagadish Chennupati is one such lecture where there is something interesting for each one of us and the lecture would surely give some research direction for the students and other research personnel working in various inter disciplinary programmes such as optoelectronics, energy, neuroscience using semiconductor nanostructures.

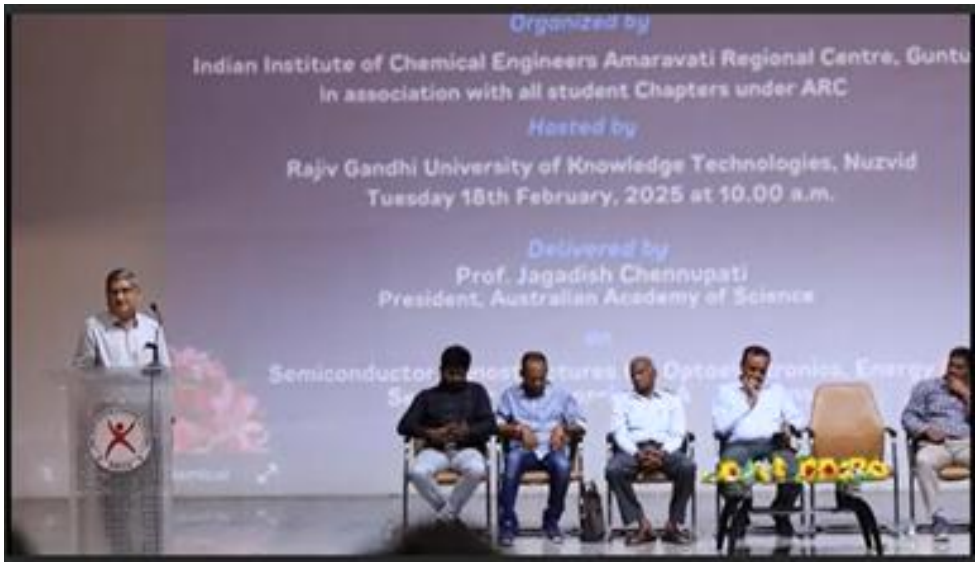
Prof. R. Parthiban, Vice President IIChE graced the occasion as a Guest of Honour. He congratulated Prof. M. Venkateswara Rao for instituting the endowment lecture and appreciated him for his active role both in Amaravati Regional Centre and in National Council as a council member. He said that the applications of nanomaterials have been growing significantly and use of nanomaterials in photo voltaic cells has greatly improved the efficiency of the cells. He further added that the nanomaterials are the need of the hour by integrating them in renewable energy applications in promoting sustainable environment.

Prof. Parag R Gogate, Vice President IIChE graced the function as Guest of Honour. In his message he mentioned about his personal relation with Prof. M. Venkateswara Rao and the various activities being organized by IIChE for the benefit of the chemical engineering students. He said that the chemical engineers have a vital role in developing nanomaterials which have applications not only in chemical engineering but also in other areas such as electronics etc. He also appreciated Prof. Rao for instituting endowment lectures both at Amaravati Regional Centre and also at National level to expose chemical and allied engineering students, faculty and industry personnel to the current emerging technologies and practices.

Welcoming the on-line and off-line participants, Prof. S. Amarendra Kumar Director, Rajiv Gandhi University of Knowledge Technologies, Nuzvid appreciated the IIChE Amaravati Regional Centre for organizing an Endowment Lecture in the name of Prof. M. Venkateswara Rao and also the other activities organized by IIChE ARC. He also assured that the Institute will cooperate and extend all support to organize many more activities by IIChE ARC at RGUKT, Nuzvid Campus in future too.



Prof. M. Venkateswara Rao said that the Endowment Lecture instituted by him with the support of ARC members as one of the annual events of IIChE ARC is to motivate chemical & allied engineering student community especially in ARC region and expose them to the emerging technological developments and practices of Chemical & allied Engineering and Chemical Industry. He briefly narrated about his journey from a rural background to the university level education in a city, the social and technological challenges he faced and how he overcame them. It is with this background, he said, that he intended to institute an annual endowment lecture to expose the students to the advanced technological developments in chemical & allied engineering at regular intervals through this lecture. He also expressed his gratitude to all guests for gracing the occasion and the distinguished speaker Prof. Jagadish Chennupati for accepting to deliver the Endowment Lecture and the Director, RGUKT, Nuzvid for hosting the Endowment Lecture.



Dr. V. Govardhana Rao, former professor IITB, Mumbai and immediate past Chairman, IIChE ARC Chaired the Endowment Lecture Session and conducted the proceedings. Chairing the session, Dr. V. Govardhana Rao said that nanomaterials is a multidisciplinary area and chemical engineers can play a major role in synthesizing nanomaterials and they have wide applications in the products we use in our daily life. He further added that today's distinguished speaker Prof. Jagadish Chennupati is going to deliver the 3rd endowment lecture of Prof. M. Venkateswara Rao on Semiconductor Nanostructures applications in Optoelectronics, Energy and Neuroscience and Prof. Jagadish is a true visionary, a great scientist and leader in the field of nanoscience, nanotechnology and semiconductor nanostructures. He has dedicated his career to finding innovative solutions for Optoelectronics, Energy, sensors, Neuroscience applications and many more . He is associated with many top research groups across the world and we are fortunate to be in the presence of such a great scientist delivering a lecture in a multi-disciplinary area of significant importance in emerging technologies relevant to the societal needs.

After brief introduction of the topic and the speaker, Dr. Govardhana Rao invited Dr. C. V. V. Satyanarayana, Vice Chairman, IIChE ARC to introduce the distinguished speaker Prof. Jagadish Chennupati to the audience. Dr. Satyanarayana formally introduced Prof. Jagadish to the august audience by saying the following:

Prof. Jagadish Chennupati has obtained his B.Sc. (Physics) Degree from Acharya Nagarjuna University, M.Sc. (Tech) Degree in Applied Physics (Electronics) from Andhra University and M.Phil. & Ph.D. Degrees in Physics from Delhi University. He has worked as Lecturer in Physics and Electronics at Sri Venkateswara College, Delhi University during 1985-1988. He was a post-doctoral fellow in Engineering Physics at Queen's University, Kinhston, Ontario, Canada during 1988-1990. Prof. Jagadish has joined Australian National University in 1990 and established and heading Semiconductor Optoelectronics and Nanotechnology Group. He is currently Distinguished Professor of Physics and Engineering. He published more than 1000 research papers (780 journal papers) and supervised more than 75 Ph.D. students

and 50 post-doctoral fellows. He delivered more than 250 plenary/keynote/invited talks at prime conferences in the world and collaborated with scientists from 30+ countries. He has been elected as a Fellow of 14 Science and/or Engineering Academies of USA, UK, Australia, India, Europe, China and a Fellow of 16 professional societies such as IEEE, MRS, APS, AAAS. He has received many awards including UNESCO Medal for his contributions to nanoscience and nanotechnology, IUMRS Somiya award for his contributions to materials research, IEEE Photonics Society Engineering Achievement Award, IEEE Pioneer Award in Nanotechnology, Boas Medal and Lyle Medal for his contributions to Physics, Optica Nick Holonyak Jr. Award for his contributions to optoelectronics, ECS Thomas D. Callinan Award. Prof. Jagadish has received Australia's Highest Civilian Honour, Companion of Order of Australia in January 2016 from the Governor General of Australia and Pravasi Bharatiya Samman Award in January 2023 from the President of India for his contributions to science and technology and education. Prof. Jagadish and his wife Vidya have established "The Chennupati and Vidya Jagadish Endowment" at the Australian National University to support Bachelors/Masters students and young scientists in physics to visit Australian National University for 3 months to gain research experience and to develop collaborative networks. He is currently serving as the President of the Australian Academy of Science and in the past served as President of IEEE Photonics Society (2018, 2019), IEEE Nanotechnology Council (2008, 2009) and Australian Materials Research Society (2016-2019). His achievements and contributions to the society are great inspiration for all the young students, scientists and teachers to work hard and contribute to the society whatever they could.

After introduction of the speaker, Dr. Satyanarayana warmly invited Prof. Jagadish Chennupati to deliver the 3rd Endowment Lecture of Prof. M. Venkateswara Rao saying that we are very much privileged to have him today as the speaker for this lecture.

Congratulating Prof. M. Venkateswara Rao for instituting the endowment lecture and appreciating the IIChE ARC for inviting him to deliver the Endowment Lecture, Prof. Jagadish Chennupati covered various aspects of semiconductor nanostructures in energy, optoelectronics and neuroscience applications**.** He highlighted the importance of semiconductor applications in the area of energy transition from fossil fuels to renewable sources in the context of global warming and climate change. The fossil fuels-based energy which has increased many folds over the last a few decades have significantly increased the emission of greenhouse gases causing global warming and has a great impact on the environment. Unexpected catastrophic disasters across the world, melting of ice glaciers, rising sea levels, increased frequency of forest fires, loss of biodiversity etc are the indicators of climate change. The 2/3rd CO_2 concentration in the atmosphere is due to use of fossil fuels in the power plants. Prof. Chennupati referred the Intergovernmental Panel on Climate Change (IPCC) held in Paris in 2015 where world leaders agreed to limit the mean surface temperature rise to 2 ^oC, preferably to 1.5 ^oC compared to pre-industrial levels and to achieve carbon neutral by 2050. He also said there are global challenges to reduce greenhouse gases by switching over to renewable sources of energy (solar, wind, hydro, nuclear etc) from fossil fuel-based energy to limit the CO_2 levels in the atmosphere below 500 ppm. Policy changes are needed to generate 16 TW energy from renewable sources by 2050 to mitigate global warming. Jagadish emphasized hydrogen energy to de-carbonize the various sectors such as transport, buildings, chemicals, and iron and steel and power generation

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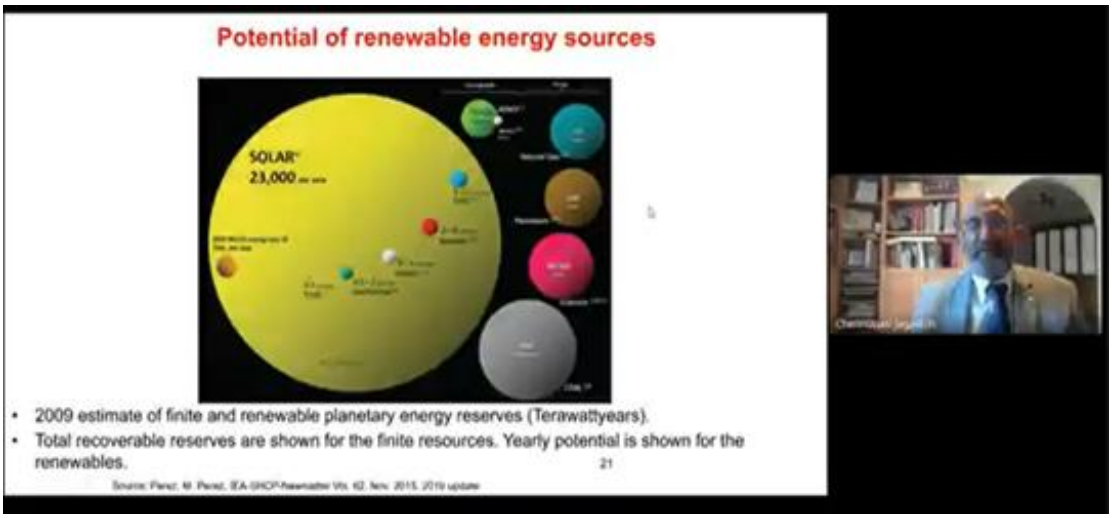
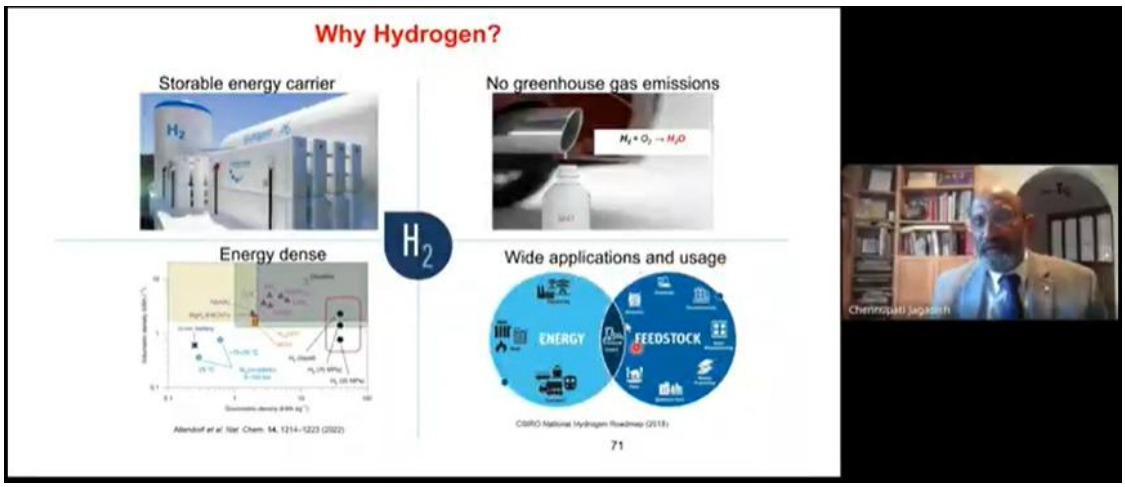


In the context of electricity generation and hydrogen production, He said that there is limitless availability of solar radiation for thermal energy, power generation and explained various solar cell technologies, solar concentrators, solar cell efficiencies in converting solar radiation to electricity, solar cell efficiency verses band-gap energy of different semiconductors, perovskite solar cells for high performance and low production costs, energy storage by hydro pumping, electrochemical batteries etc. He also dealt the current technological developments and the use of nanostructures in the area of optoelectronics and neuroscience.



The lecture by Dr. Jagadish Chennupati is the source of motivation to the participants to work in the area of semiconductors and their applications especially in the area of hydrogen energy transition for decarbonization.

Overall, the lecture was very informative, inspiring and stimulating experience to all the participants, especially the students and the young scientists exposing them to the current technological advances of semiconductor nanostructures in the area of energy transition from fossil fuels to renewable sources of energy for decarbonization of the environment and in the area of neuro science applications.

At the end, Sri M. Ramakrishna, Assistant Professor, Department of Chemical Engineering, RGUKT, Nuzvid & Executive Committee member of IIChE ARC proposed the vote of thanks.

Total number of participants (both online & offline) is around **670** (570 students & 100 faculty & working professionals). The huge response of the participants across many regions of the country is the testimony how curious and enthusiastic the participants are to listen to the Endowment Lecture.

As per the feedback from the participants, Prof. Jagadish Chennupati delivered a highly informative, inspiring and thought-provoking lecture on "**Semiconductor Nanostructures for Optoelectronics, Energy, Sensors and Neuroscience Applications".** The participants suggested the organizers to conduct many more events in future.

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సౌరశక్తి నుంచి హైడ్రోజన్ ఉత్పత్తి

నూజివీడు రూరల్, న్యూస్‌టుడే: సోలార్ పవర్ నుంచి హైడ్రోజన్ ఉత్పత్తికి అనేక పరిశోధనలు జరుగుతున్నాయని ఐఐసీహెచ్ఇ అధ్యక్షుడు ప్రొ.అజయ్ బన్సల్ తెలిపారు. మంగళవారం నూజివీడు ట్రిపుల్ ఐటీలో నానో టెక్నాలజీ, అప్లికేషన్ల నిర్వహణపై సెమినార్ నిర్వహించారు. ఈ సెమినార్‌ను ప్రొ.అజయ్ బన్సల్ నూజివీడు ఆర్జీయూకేటీ డైరెక్టర్ రిజిస్ట్రార్ ప్రొ.సంద్ర అమరేంద్రకుమార్‌తో కలిసి ప్రారంభించారు. ఆస్ట్రేలియన్ అకాడమీ ఆఫ్ సైన్స్ అధ్యక్షుడు ప్రొ.జగదీష్ చెన్నుపాటి మాట్లాడుతూ శక్తి మూలాల నుంచి హైడ్రోజన్ ఉత్పత్తి, సోలార్, గాలి వంటి పునరుత్పత్తి శక్తి వనరులు, ఫోటో వోల్టాయిక్ సెల్స్, సోలార్ సామర్థ్యంపై వివిధ సమస్యలను వివరించారు. అమరేంద్రకుమార్ మాట్లాడుతూ ఇండియన్ ఇనిస్టిట్యూట్ ఆఫ్ కెమికల్ ఇంజినీరింగ్, అమరావతి రీజినల్ సెంటర్ నిర్వహిస్తున్న పలు కార్యక్రమాలను ప్రస్తావించి అభినందించారు. ఐఐసీహెచ్ఇ చేపట్టే భవిష్యత్తు కార్యక్రమాలకు తన మద్దతు ఉంటుందని ప్రకటించారు. ఈ కార్యక్రమంలో ఐఐసీహెచ్ఇ వైస్ ప్రెసిడెంట్‌లు ప్రొ.ఆర్.పార్థిబన్, ఆర్.పరాగ్ గోగటే, గౌరవ కార్యదర్శి ఎం.వెంకటేశ్వరరావు, ఐఐసీహెచ్ఇ ఏఆర్‌సీ చైర్మన్ జాగర్లమూడి మురళీమోహన్, ఐబీటీ బాంబే మాజీ ప్రొఫెసర్ వి.గోవర్ధనరావు, ఐఐసీహెచ్ఇ ఏఆర్‌సీ ఉపాధ్యక్షుడు సీవీవీ సత్యనారాయణ, ఆర్జీయూకేటీ ఏవో లక్ష్మణరావు, డీన్ అకడమిక్స్ చిరంజీవి, కెమికల్ ఇంజినీరింగ్ విభాగం హెచ్‌వోడీ ఎం.మధుసూధన రెడ్డి, కోఆర్డినేటర్ ఎం.రామకృష్ణ, పీఆర్వో రాజేశ్ తదితరులు పాల్గొన్నారు.

జ్యోతి వెలిగించిన అనంతరం అజయ్ బన్సల్, అమరేంద్రకుమార్

Date : 19/02/2025 EditionName : ANDHRA PRADESH(ELURU) PageNo :

నూజివీడు: నానో టెక్నాలజీ పై సెమినార్

నూజివీడు ట్రిపుల్ ఐటి కళాశాలలో మంగళవారం నానో టెక్నాలజీ పై సెమినార్ నిర్వహించారు. ప్రొఫెసర్ అజయ్ బంసల్, ఆస్ట్రేలియన్ అకాడమి ఆఫ్ సైన్స్ అధ్యక్షులు సీనియర్ లెక్చరర్ ప్రొఫెసర్ జగదీష్ చెన్నుపాటి లు సెమి కండక్టర్ నానో స్ట్రక్చర్ లు - న్యూరో సైన్స్ అప్లికేషన్ లు అనే అంశంపై విద్యార్థులకు వివరించారు. క్యాంపస్ డైరెక్టర్ అమరేంద్ర కుమార్, అధ్యాపక బృందం, విద్యార్థులు పాల్గొన్నారు.

ABN ఆంధ్రజ్యోతి

భవిష్యత్ నానో టెక్నాలజీదే

నూజివీడు టౌన్, ఫిబ్రవరి 18 (ఆంధ్రజ్యోతి): ప్రపంచ భవిష్యత్ నానో టెక్నాలజీపై ఆధారపడి ఉందని ఆస్ట్రేలియా అకాడమీ ఆఫ్ సైన్స్ అధ్యక్షుడు ప్రొఫెసర్ చెన్నుపాటి జగదీష్ అన్నారు. నూజివీడు ట్రిపుల్‌ఐటీ క్యాంపస్‌లో నానో టెక్నాలజీ, అప్లికేషన్స్‌పై సెమీనార్ నిర్వహించారు. ఈ కార్యక్రమానికి ముఖ్య అతిథిగా హాజరైన ఆయన మాట్లాడుతూ సెమీ కండెక్టర్ నానోస్ట్రక్చర్, ఎన్‌ఆర్‌జీ సైన్సెస్, న్యూరో సైన్స్ అప్లికేషన్స్ అనే అంశాల పై ఆయన విద్యార్థులకు వివరించారు. ట్రిపుల్‌ఐటీ డైరెక్టర్ అమరేంద్రకుమార్, అమరావతి ఇనిస్టిట్యూట్ ఆఫ్ కెమికల్ ఇంజినీరింగ్ ఉపాధ్యక్షులు ఆర్.పార్థిబన్, ఆర్.ఫరగ్‌గోగటే, ఎం.వెంకటేశ్వరరావు విద్యార్థులకు పలు అంశాలను వివరించారు.

సెమినార్‌ను జ్యోతిప్రజ్వలన చేసి ప్రారంభిస్తున్న దృశ్యం

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IV. Short Term Training Programme(STTP) on "Process & Equipment Design using CHEMCAD from 2nd June to 6th June 2025

The Department of Chemical Engineering Vignan's Foundation for Science, Technology & Research (Deemed to be University), Vadlamudi in association with Innovent Process Solutions Private. Limited, Pune and IIChE Amaravati Regional Centre, Guntur conducted a 5-day Short Term Training Programme on "Process & Equipment Design using CHEMCAD" during 2nd June to 6th June 2025.

The Chief Guest Professor A. Sarath Babu, National Institute of Technology, Warangal inaugurated the event. In his inaugural message Professor A. Sarath Babu welcomed all the participants both on-line and off-line who are attending for the STTP. He congratulated both VFSTR and IIChE Amaravati Regional Centre for organizing the STTP on the latest topic **Process & Equipment Design using CHEMCAD**. Mr. Gautam Pradhan and Dr. Asish Nag also addressed the participants on the occasion as Guests of Honour. Prof. Ramesh Naidu Mandapati Dean, Student Affairs and Coordinator for the STTP presided over the inaugural session and conducted the Proceedings.

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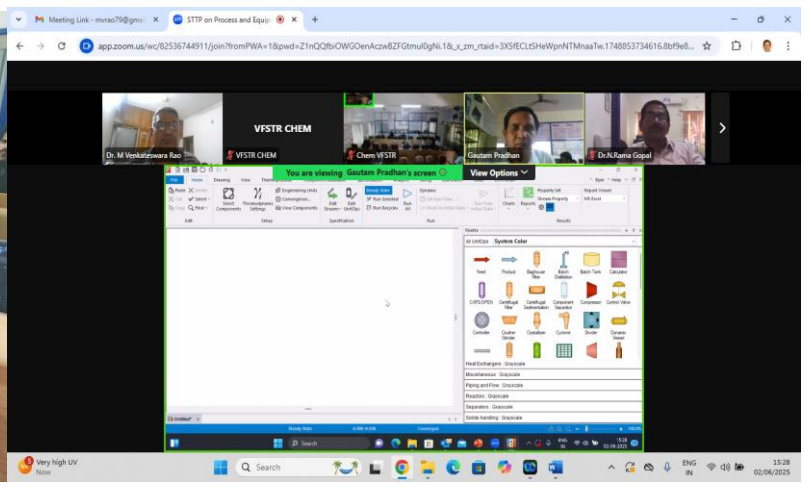
Resource persons:

1. Dr. A. Sarath Babu Professor, National Institute of Technology, Warangal, member IIChE ARC
2. Mr. Gautam Pradhan-Director-Innovent Process Solutions Pvt Ltd, Pune
3. Dr. Asish Nag-Ex Design Director –IOCL
4. Dr. N. Ramagopal, Professor, Vignan's Foundation for Science, Technology & Research (Deemed to be University), Vadlamudi. member IIChE ARC

The Participants: 9 from Industry, 18 from academia (including research scholars) registered and participated in the program in addition to the on-line participants.

Prof. M. Venkateswara Rao, former Professor & Dean Examinations, RVR & JC College of Engineering and Honorary Secretary, IIChE Amaravati Regional Centre participated in the event online.



The following are the details of resource persons, topics and outcomes.

Date	Resource Person	Topic	Outcome
02.06.2025	11.00 am to 12.00 noon Dr. A. Sarath Babu Professor, National Institute of Technology (NIT), Warangal	Lecture: Introduction to flow sheeting approaches	Participants understood modeling phenomenon of components of flow sheeting. Participants understood scientific approach of feeding data to CHEMCAD
	12.00 noon to 01.00 pm	Interactive Session: Introduction to flow sheeting approaches	
03.06.2025	11.00 am to 01.00 pm Dr. A. Sarath Babu Professor, National Institute of Technology (NIT), Warangal	Lecture: Partitioning & Tearing of flow sheeting	The participants understood how process flowsheets are analyzed by CHEMCAD in terms of portioning and tearing. The participants understood algorithms of partitioning and tearing. The faculty participants got insights of how CHEMCAD can be exploited as a tool to import various core courses basics/fundamentals
	02.00 pm to 05.00 pm Dr. A. Sarath Babu Professor, National Institute of Technology (NIT), Warangal Mr.Gautam Pradhan Director – Innovent Process Solutions Pvt Ltd, Pune	Interactive session & Quiz on Partitioning & Tearing of flow sheeting Hands on session on introduction to GUI of CHEMCAD	
04.06.2025	11.00 am to 01.00 pm Mr. Gautam Pradhan Director – Innovent Process Solutions Pvt Ltd, Pune	Lecture cum Demonstration of Process Simulations Using CHEMCAD - Part I	The participants understood/ learnt how to simulation various separators and reactors using CHEMCAD
	02.00 pm – 05.00 pm Mr. Gautam Pradhan Director – Innovent Process Solutions Pvt Ltd, Pune	Lecture cum Demonstration of Process Simulations Using CHEMCAD - Part II	
05.06.2025	11.00 am to 01.00 pm Mr. Gautam Pradhan Director – Innovent Process Solutions Pvt Ltd, Pune	Lecture cum Demonstration of Piping network analysis Using CHEMCAD - Part I	The participants understood what is a piping network in Process Industry The participants learnt how to build piping network of their interest Using CHEMCAD
	02.00 pm to 03.00 pm Mr. Gautam Pradhan Director, Innovent Process Solutions Pvt Ltd, Pune	Lecture cum Demonstration of Piping network analysis Using CHEMCAD - Part II	The participants learnt to simulate piping network of their interest Using CHEMCAD The participants learnt how to cross check

	03.00 pm to 05.00 pm Dr. N. Rama Gopal, Professor Vignan's Foundation for Science, Technology & Research (Deemed to be University), Vadlamudi	Hands on session on Simulation of VCM manufacturing process using CHEMCAD.	piping network simulations results The participants learnt how to build a process flowsheet and converge it. The academia got insights of how CHEMCAD is an indispensable tool of IDPs, Projects works, design consultancy and so on.
06.06.2025	10.00 am to 01.00 pm Dr. Asish Nag-Ex Design Director – IOCL	Lecture on Refinery operations-I	Participants got idea of various practical aspects of refinery operations which can be resolved by using CHEMCAD
	02.00 pm to 04.00 pm Dr. Asish Nag, Ex-Design Director, IOCL 04.00 pm to 05.00 pm Dr. N. Rama Gopal, Professor Vignan's Foundation for Science, Technology & Research (Deemed to be University), Vadlamudi	Lecture on Refinery operations-II Hands on session on Simulation of VCM manufacturing process using CHEMCAD - Contd….	

Conclusions:

- The program motivated the participants to participate in future STTP's and/or FDP's on how CHEMCAD software can be effectively exploited to enhance the depth of B. Tech curriculum and also to go beyond.
- CHECAD user manual hard copies are prepared and distributed to all participants.

V. "Off-Site Emergency Plan for Guntur District" proposed by Dy. Chief Inspector of Factories, Guntur District, Andhra Pradesh.

A proposal is received from Sri Siva Kumar Reddy, Dy. Chief Inspector of Factories, Guntur District, Andhra Pradesh to develop an "Off-site emergency plan for Guntur district" for mitigating adverse effects arising out of chemical hazards, which has the potential to cause serious damage or loss of life beyond the factory boundary. The matter has been initially discussed at length in the Executive Committee (EC) meeting of IIChE ARC held on 11.2.2025 and decided to constitute the following committee to examine in detail about the feasibility to take up the proposed task.

1. Dr. V. Govardhana Rao
2. Dr. M. Venkateswara Rao
3. Sri R. Banerjee Babu
4. Sri N. Jani Basha
5. Dr. N. Madhavi
6. Dr. C.V.V. Satyanarayana
7. Dr. G. S. Venkata Ratnam- Invitee

The committee met a couple of times during February and March 2025, studied a similar plan developed for East Godavari District, Andhra Pradesh where many chemical and petrochemical factories are in operation. Some valuable suggestions have been received from Sri Siva Kumar Reddy, Dy. Chief Inspector of Factories. The committee's observations and suggestions with regard to the in-house expertise of IIChE ARC for consequential/risk analysis of hazard chemicals and the information/ data required from the Directorate of Industries/District administration were thoroughly discussed in the EC meeting held on

20.3.2025. It was noted from the preliminary estimates that the number of companies and the quantities of toxic and hazards chemicals handled by the companies in Guntur district are very limited as of now. However, the district emergency authorities have a statutory responsibility for the preparation of the district Off-Site emergency plan based on inputs from the On-Site emergency plans of the industries. The efficacy of any Off-site emergency plan therefore depends on effective measures/resources availability within the factory for on-site emergency plan, safety audit reports of the company and these plans/audit reports may be vetted by expert committee before preparing an off-site emergency plan. Keeping the above in mind, the following decisions are made in the EC meeting held on 20.3.2025 for the effective implementation the proposed task.

A. The IIChE ARC has the expertise in carrying consequential/risk analysis of all toxic/hazards chemicals handled by the industries in the Guntur district and hence capable of preparing Off-Site emergency plan for Guntur district.

B. For carrying out the hazard analysis, collecting the information from different sources and preparing the report, some financial commitment and disbursal is required

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C. It is desirable to form an association of Environment, Health and Safety (EHS) by the stakeholder companies similar to the one formed in East Godavari district or to form a stakeholder's association as authentic body to take responsibilities wherever required.

D. The list of companies belonging to MAH-A and MAH-B categories, their location, nature of activity, contact details along with inventory of all toxic, hazard and other chemicals being used by the companies needs to be provided.

E. Material data sheets of all chemicals used/stored in the company are to be provided.

F. A letter either from the Stakeholders association of Guntur district or Directorate of Industries for carrying out the prosed task by IIChE ARC is required.

G. Formation of an expert committee to assess the on-site emergency plans, safety audit reports etc not only for making Off-Site emergency plan, but also for periodic monitoring/ upgrading the safety requirements etc. similar to the one formed in East Godavari district is desirable for effective functioning of the Off-Site emergency plan.

An appropriate decision may be arrived after receiving feedback from Sri Siva Kumar Reddy, Dy. Chief Inspector of Factories, Guntur district.

VI. Student Chapter Activities: one/two-day activities

a) RVRJCCE Student Chapter: Chemical Engineering Contest for Knockout-2024 (ChECK-2024) on 28th December 2024.

With the kind permission from the Management and Principal, IIChE RVR&JCCE student chapter, Department of Chemical Engineering, RVR & JC College of Engineering(A) in association with IIChE Amaravati Regional Centre successfully organized a National Level Chemical & Allied Engineering and Science Student Meet **"Chemical Engineering Contest for Knockout-2024 (ChECK-2024)** with the theme **"Emerging Trends in Chemical, Pharmaceutical, Energy and Environmental Engineering"** consisting of Technical Paper presentations, Elocution, Group discussion and Technical quiz competitions on 28th December, 2024. The objective of this students' meet is to provide a forum for promoting the interaction and improving the competency among the students of Chemical and Allied Engineering and Science fraternity.

Total number of participants from various Institutions 195

At 10.00 a.m. the program began with inviting the participants and judges by Ms. K. Krishnaveni, and Mr. S. Chakri III/IV B. Tech Chemical Engineering students of RVR & JC College of Engineering(A).

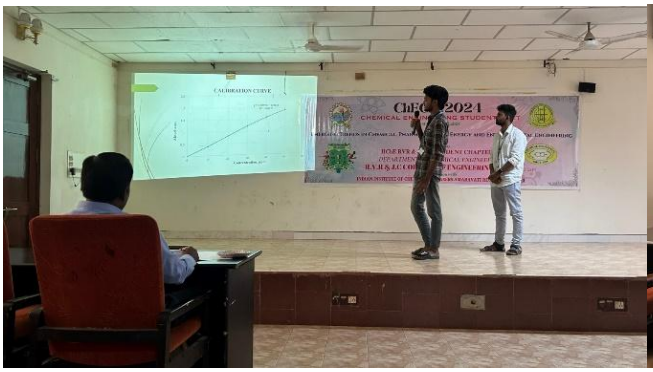
Dr. K. Ramesh Chandra, Assoc. Prof. & HOD i/c, Department of Chemical Engineering and Honorary Treasurer, IIChE Amaravati Regional Centre welcomed participants, faculty and judges. The Convener Dr. D.N.V.Satyanarayana, faculty members of Chemical Engineering Department and participants from various Colleges are participated in the event "ChECK 2024".

After welcome session, at 10.30 a.m., the parallel Technical Paper Presentations I & II were organized.

Judges for Technical Paper presentations

1. **Dr. P. Bangaraiah**, Professor, VFSTR University, Vadlamudi, Guntur and EC member IIChE Amaravati Regional Centre.
2. **Mr. Mindi Ramakrishna**, Asst. Professor, RGUKT, Nuzvid. and EC member IIChE Amaravati Regional Centre.

Number of participants in paper presentation event 58



Papers presented 34

Prize winners in Paper presentations

S.No.	Paper No.	Name of the Student	Name of the College	Prize	Amount In Rs.
1.	CHETP-04	D. Hareetu	RGUKT, Nuzvid	I	3,000/-
2.	CHETP-22	G. Srikanth	R.V.R.&J.C College of Engineering (A), Guntur	II	2,000/-
3.	CHETP-19	K. Praveena K. Gayathri	CHIPS, Guntur	III	1,000/-
4.	CHETP-3	Sk. Aashik	JKC College(A), Guntur	Consolation	---

After lunch, at 01.30 p.m., the group discussion competition was conducted.

Judge for Group Discussion competition

Dr. N. Phani Pooja, Asst. Prof., M & H department, RVR&JC College of Engineering(A)

Number of participants in Group Discussion 38


Prize Winners in Group Discussion

S.No.	Name of The Student	Name of the College	Prize	Amount in Rs.
1.	M. Harshavardhan	VFSTR, Vadlamudi, Guntur	I	3,000/-
2.	Ch. Bala Abhishek Chand	R.V.R.&J.C CE(A), Guntur	II	2,000/-
3.	A. Gowtham	ANITS, Visakhapatnam	III	1000/-
4.	P. Siva Teja	R.V.R.&J.C CE(A), Guntur	Consolation	--

At 02.30 p.m., the Elocution competition was conducted.

Judge for Elocution competition
Dr. K. Sudhakar, Asst. Prof., M & H department, RVR&JC College of Engineering

Number of participants in elocution event 22

Prize Winners in Elocution

S.No.	Name of The Student	Name of the College	Prize	Amount In Rs.
1.	A. Vamsi Krishna	CHIPS, Guntur	I	3,000/-
2.	M. Harshavardhan	VFSTR, Vadlamudi, Guntur	II	2,000/-
3.	Ch. Bala Abhishek Chand	R.V.R.&J.CCE(A), Guntur	III	1000/-
4.	K. Siva Sai	VFSTR, Vadlamudi, Guntur	Consolation	--

After tea break, at 03.30 p.m., the Technical Quiz competition was conducted.

Number of participants in Technical Quiz 56 (28 teams)


Prize Winners in Technical Quiz

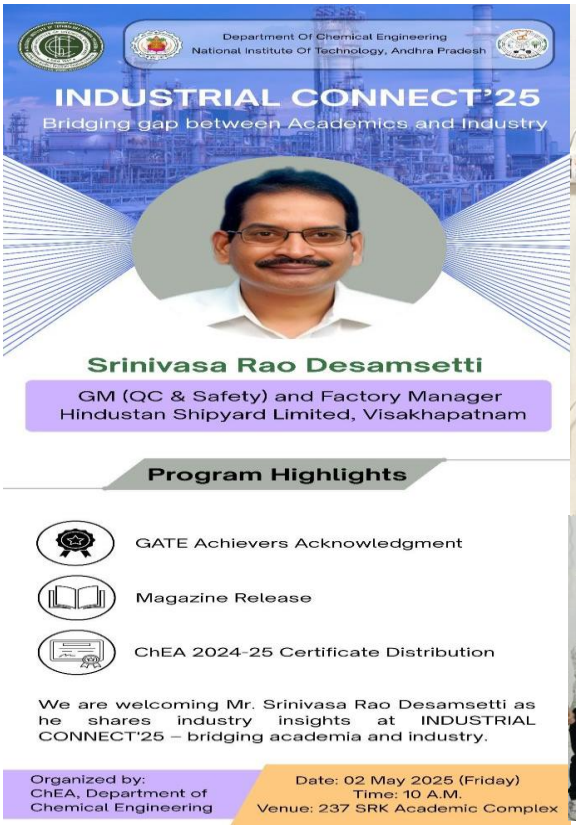
S.No.	Name of the Student	Name of the College	Prize	Amount in Rs.
1.	N. Sailaja A. Gowtham	ANITS, Visakhapatnam	I	3,000/-
2.	S. Sudgeer A. Yamuna	ANITS, Visakhapatnam	II	2,000/-
3.	G. Manoj I. Hemanth Kumar	R.V.R.&J.C CE(A), Guntur	III	1000/-
4.	M. Umesh D. Hareetu	RGUKT, Nuzvid	Consolation	--

At 04.45 p.m. the event came to an end with prize distribution ceremony. After getting feedback from the participants, **Dr. K. Ramesh Chandra**, Assoc. Professor & HOD i/c, Dept. of Chemical Engineering., **Dr.D.N.V.Satyanarayana**, Convener, ChECK 2024 and all other faculty members of Chemical Engineering Department along with the judges for various events have distributed the certificates and prizes for the winners of various events.

Closing the proceedings **Dr.D.N.V.Satyanarayana**, Convener, ChECK 2024, thanked the Management of RVR&JC College of Engineering (A), for readily accepting the proposal and providing necessary financial and moral support and Principal, RVR & JC College of Engineering(A) **Dr. Kolla Srinivas** for his encouragement & guidance and the Staff & Students of Chemical Engineering Department for their efficient services rendered. The convener conveyed his sincere thanks to all the Judges and participants for making the event a successful one. He also expressed his sincere thanks to all the Managements and the Principals of other Colleges for their active support in sponsoring the students. He expressed his gratitude to the organizing committee members especially the Chairman, IIChE Amaravati Regional Centre **Sri J. Murali Mohan** and Honorary Secretary, IIChE ARC **Prof. M. Venkateswara Rao** for their invaluable support. He expressed his sincere thanks to all the members of IIChE ARC for their valuable suggestions and support for successfully organizing the event. Finally, the convener expressed his thanks to all those who supported the programme directly or indirectly for the success of the student meet.

b) National Institute of Technology Andhra Pradesh (NIT AP) Student Chapter: Industrial Connect'25 on 2nd May 2025

IIChE NIT AP Student Chapter, Department of Chemical Engineering, National Institute of Technology Andhra Pradesh Tadepalligudem in association with IIChE Amaravati Regional Centre organized an Invited Talk in **Industrial Connect'25** (Bridging gap between Academics and Industry) on 2nd May 2025.



The programme

At 10.00 a.m. the programme was initiated with the welcome address by Dr. Vinoth Kumar Raja, Assistant Professor, Head of the Department of Chemical Engineering, NIT Andhra Pradesh & Coordinator IIChE-Student Chapter NIT Andhra Pradesh. Inviting the Guests and the participants, Dr. P. Dinesh Sankar Reddy, Registrar (I/c) addressed the gathering with his inspirational talk. After the Dr. P. Dinesh Sankar Reddy's address, Dr. Gourhari Chakraborty, Faculty in-charge IIChE-Student Chapter NIT Andhra Pradesh and Faculty advisor-chemical engineering association, NIT Andhra Pradesh, introduced the event 'Industrial connect-2025' to the audience. The motivation of the event was to build a strong bridge between academics and industry, so that learning leads to impact, and ideas lead to innovation. These events will give students a clear picture of what industries expect, the skills that matter, and how they can prepare for a successful career. Then Host gave a brief introduction of speaker **Srinivasa Rao Desamsetti,** GM (QC & Safety) and Factory Manager at Hindustan Shipyard Limited in front of the audience. The speaker gave an insightful presentation in front of the audience consisting of UG students, research scholars and faculty. A brief description of IIChE student chapter & ChEA activities of the Academic Year: 2024- 25 was presented by Mr. Saify Imam, Secretary, ChEA,2024-25. The Chief Guest Srinivasa Rao Desamsetti along with another accompanying industry person was felicitated by Dr. Vinoth Kumar Raja, Dr. P. Dinesh Sankar Reddy, Prof. G. Ravi Kiran Sastry and Dean R & C, NIT Andhra Pradesh. The Department of Chemical Engineering Magazine '**Absorb. 4.0'** was launched by the dignitaries. GATE achievers of the Department of Chemical Engineering were felicitated with a memento and certificate by the chief guest along with Dr. Vinoth Kumar Raja, Dr. P. Dinesh Sankar Reddy, Prof. G. Ravi Kiran Sastry and Dean R & C. At the end Ms. Harshita, Co-secretary, ChEA, concluded the event and proposed the vote of thanks.

IIChE National Institute of Technology Andhra Pradesh Student Chapter Logo Design

Description: In view of the need for a dedicated logo for the IIChE-Student Chapter, National Institute of Technology Andhra Pradesh, one design was selected among the designs made by students. Devi Sri Priya Sivalanka, a student from the 2022-26 batch made the design of the selected logo for the IIChE-Student Chapter, National Institute of Technology Andhra Pradesh. The logo was launched formally through the event 'Industrial Connect-2025'. The newly designed logo was made as per the mother institute (IIChE) logo.

c) **Rajiv Gandhi University for Knowledge Technologies (RGUKT), Nuzvid Student Chapter: TECKZITE Workshop and Pre-Events: 9th to 12th March 2025**

Pre-Events on 09-03-2025: Every year IIChE RGUKT Nuzvid student chapter will take initiative and conduct the south Indian biggest techno-management fest called TECKZITE. Before the event starts there will be some pre-events like workshop on EXCEL for Chemical Engineers conducted by BHARATH CHELLABOYINA, working in Aspen company. Students went through the concepts like,

- Line sizing and Pump hydraulics
- Control valves and Separator sizing
- Compressor settle out calculation
- Blowdown inventory

50 students participated in the pre-events and having hands on experience. The students have gained more knowledge and had hands on experience in doing calculations.

TECKZITE'25 from 10-03-2025 to 12-03-2025: RGUKT student took initiative for conducting south India biggest techno-management fest called TECKZITE every year with the Administration support, where students from different universities and colleges participate actively. As a part of it, IIChE RGUKT Student Chapter also took part and conducted 4 events.

Event-1: VISIONARY VOYAGE
Navigating ideas, igniting innovations.
Event-2: ALCHEMY EMPIRE
Turning vision into reality.
Event-3: FINAL KEY
Every lock has a key.
Event-4: CHEM AI QUEST
Where engineers meet intelligence.

Around 75 students participated in the above events and turned their ideas into reality. Students proved them and their skills in these events conducted by the IIChE RGUKT Student Chapter.

VII. Guest Lectures Organized

a) RVRJCCE Student Chapter

S. No.	Name of the Speaker & Designation	Date	Topic	Address
1.	Sri. Vamsi Krishna Somanchi Lead Process Engineer	21-09-2024	Higher studies and employment for chemical engineers in foreign countries	Cannocare Pharma 5 Blooms busy Court, Bath Road, Tw595X, London.
2.	Gokavarapu Hema Chandra, Prompt Engineering Expert	21-09-2024	AI modules use in chemical engineering.	Soul AI, Hyderabad & USA
3.	K Yeswanth Krishna Charan,Program Manage	19-10-2024	AI Fluency Modules	CELA, Microsoft Pragathi Nagar, Hyderabad
4.	Smt.MD. Nazeena Bagum Environmental Engineer	23-01-2025	Pollution Control Aspects	Reginal Office, APPCB for Guntur & Palnadu Dts.
5.	Mr.Mindi Ramakrishna Asst. Professor	20-03-2025	Higher education and career opportunities for chemical engineers	Department of Chemical Engineering RGUKT, Nuzvid, Krishna District, AP-521202
6.	Dr. T. Sunil Kumar Professor & Head	22-03-2025	Innovation concept to prototype development of a thermal air sterilizer	Dept. of Chemical Engineering Indian Institute of Technology, Tirupati-517619 Yerpedu – Venkatagiri Road, Yerpedu Post, Tirupati District, Andhra Pradesh.

b) NIT AP Student Chapter

S. No.	Name of the Speaker & Designation	Date	Topic	Address
1	Dr. Anjan Kumar Tula Associate Professor	23.01.2025	Bridging Academia and Industry: Research Opportunities, Product Design and Analytics	Zhejiang University, China

The Programme

The programme was initiated by Dr. Vinoth Kumar Raja, Assistant Professor, Head of the Department of Chemical Engineering, NIT Andhra Pradesh & Coordinator IIChE-Student Chapter NIT Andhra Pradesh, with a welcome address. Then Host introduced the speaker, Dr. Anjan Kumar Tula, Associate Professor, Zhejiang University, China, to the audience. After the introduction, Dr. Anjan Kumar Tula shared his work with the audience through a Power Point presentation. His speech mostly covered the prospects of research opportunities in product design and analytics. He motivated students to pursue higher studies abroad. The interaction session showed significant interest among the students. All faculty members, Research Scholars, and UG students were part of the audience. After the insightful speech, the speaker was felicitated by the HOD along with all faculty members. The event ended with the distribution of intramural sports prizes among the awardees.

c) Rajiv Gandhi University for Knowledge Technologies (RGUKT) Student Chapter

S. No.	Name of the Speaker & Designation	Date	Topic	Address
1	Sri Teja Naidu Chedalla Senior Engineer	02-03-2025	Navigating life after B. Tech in Chemical Engineering – Gate, M. Tech Opportunities and PSU work life	Danieli India Limited.
	Ravi Surya Challagundla Deputy Manager			Havells India Limited.
	Ajay Talari Production Engineer			IOCL-Paradip
2	Ravi Surya Challagundla Deputy Manager	28-03-2025	Gateway to MBA	Havells India Limited.
	Akhil Kandunoori Management Consulting Analyst			Accenture strategy & Consulting.

VIII. Industrial Study Visits

a) RVRJCCE Student Chapter

S. No.	Date	Industry Visit / Tour	Class	Name of the Industry visited
1.	11-07-2024	One day	B.Tech. Semester V [Third Year]	M/s. Jocil Limited, Dokiparru-522 438 Medikondur (Mandal), Guntur (Dist.), Andhra Pradesh

2.	24-08-2024	One day	B.Tech. Semester VII [Fourth Year]	The Andhra Sugars Limited Venkatarayapuram, Tanuku- 534 215 Andhra Pradesh

b) RGUKT Nuzvid Student Chapter

S. No.	Date	Industry Visit / Tour	Class	Name of the Industry visited
1	03-02-2025 to 05.02.2025	Three days	B.Tech. [Third Year]	HPCL – Visakha refinery and Srikar Laboratories, Visakhapatnam Andhra Pradesh
2	27-03-2025	One day	B.Tech. [Second Year]	M/s. Jocil Limited, Dokiparru-522 438 Medikondur (Mandal), Guntur (Dist.), Andhra Pradesh

a) Awards

Dr. M. Vekateswara Rao, Honorary Regional Secretary informed the members that IIChE Amaravati Regional Centre is bestowed with **Best Regional Centre** Award for the year 2023-2024 under B Category Regional Centres. The members of AGM felt very happy and congratulated the Chairman Sri Jagarlamudi Murali Mohan for successfully leading the team to get the award.

C. NON – R & D ACTIVIES

I. EC Meetings

With the co-operation and support of all the EC members, **Ten Executive Committee meetings** have been organized during the year 2024-25.

Details of the IIChE ARC meetings

S.No.	EC Meeting	Date
1	1st meeting	03.08.2024
2	2nd meeting	28.08.2024
3	3rd meeting	25.09.2024
4	4th meeting	09.11.2024
5	5th meeting	16.12.2024
6	6th meeting	29.01.2025
7	7th meeting	11.02.2025
8	8th meeting	20.03.2025
9	9th meeting	30.05.2025
10	10th meeting	22.06.2025

II. Endowment Fund

Dr. M. Venkateswara Rao informed to the members that M/s Aditya Engineers, Hyderabad (represented by M. Hanumantha Rao and I. Tulasi Babu, both are the students of Prof. M.Venkateswara Rao) generously donated Rs. 50,000/- (rupees fifty thousand only) to the Endowment fund in the name of Prof. M. Venkateswara Rao.

All the EC members expressed their appreciation and conveyed their sincere thanks and happiness to Sri M. Hanumantha Rao and Sri I. Tulasi Babu for their generous contribution. With the addition of Rs.50, 000/-(rupees fifty thousand only) plus Rs.11,500/-(as per the National Council decision, 30% of interest on existing FD of Rs.5,50,000/- is to be fed back to the principle amount.) the total amount of the

Endowment fund in the name of Prof. M. Venkateswara Rao becomes Rs.6, 11,500/- (Rupees six lakh and eleven thousand and five hundred only). Fixed Deposits (1) for Rs.5,50,000/-(12.06.2023) and (2) for 61,500/- (22.04.2024) of the Endowment fund was deposited with the rate of interest 7.0% and 4.5% respectively. After maturity date ie on 15.07.2024, the total amount of Rs.6,11,500/- (the existing Fixed Deposits for Rs.5,50,000/- and Rs 61,500/-) is again deposited on 15.07.2024 as single Fixed Deposit for Rs.6,11,500/- (Rupees six lakh and eleven thousand and five hundred only) of the Endowment fund in the name of Prof. M. Venkateswara Rao with rate of interest 7.25% for 399 days.

III. Renewal of IIChE ARC Website: http://iichearc.org.in and other expenditure

Website related to IIChE Amaravati Regional Centre was hosted during the year 2022-23 and renewed for the years 2023-24, 2024-25, 2025-26 and 2026-27. The website has been updated for the years 2023-24, 2024-25 with the information related RC Executive Committee meetings, newly enrolled life members and student members, events organized by RC & student chapters etc.

The expenditure related to renewal of website

Website renewal fee for the years 2025-26 and 2026-27(two years)	Rs. 1578.84

IV. Income-Expenditure related renovation of IIChE ARC office room during the year 2024-25

With the support of Sri Jagarlamudi Murali Mohan Secretary & Correspondent of JKC College and Chairman IIChE ARC, the office room is provided with Wi-Fi connection. The office is also equipped two more working tables (6 feet X 2 feet).

The expenditure related to renovation work

a.	Teak wood beading for meeting tables related to IIChE Amaravati Regional office (35 feet length)	Rs. 2500.00
b.	Two working tables (including transport charges)	Rs. 8500.00
c.	Wi-Fi connection (sponsored by JKC College) approximate cost	Rs. 8000.00

V. Updating the database of the IIChE Members with details (first time with all details)

(Membership number, Name, Present/Permanent address, Email IDs and Mobile numbers)

We have received a letter from IIChE headquarters on 26.03.2024, requesting all Regional Centres to initiate a drive for update the Membership Database of their respective Regional Centres. In addition to the letter cited above, we have received the detailed information related to members of IIChE ARC from headquarters on 10.04.2024. Every year we are uploading the updated information related to the ARC members in the IIChE ARC website and forwarding the same to the headquarters along with AGM report. For the present year ie 2024-25 also, the member's information received from the headquarters was circulated (through email) to all the members and requested them to update their information (LM number, Name, present/permanent address, emails and phone numbers) as required by the headquarters. Efforts were taken to get the information by contacting them on phone and also by email wherever required. For the present year also, the updated information will be forwarded to the headquarters along with AGM report (Annexure V). 63 members (total members related to IIChE ARC is 143) are enrolled as life members of IIChE during the last three years through Amaravati Regional Centre.

VI. Enrollment of IIChE Life Organizational membership, Life Membership and Student Membership

A. Life Organizational membership

Vignan's Foundation for Science, Technology & Research (Deemed to be University) Guntur -Tenali Road, Vadlamudi 522213, Guntur District, Andhra Pradesh is enrolled as IIChE life organizational member during the year 2024-25 (membership number 02-02-05)

B. Life Membership

The following 21 members were enrolled as IIChE life members from ARC during 2024-25

1. LM-73797 Dr. Awadh Kishor Kumar
2. LM-73798 Dr. Talathoti Prem Kumar
3. LM-73815 Dr. Lavu Rathaiah
4. LM-73821 Dr. Karthik Rajendran
5. LM-73825 Mr. Tarigopula Venkateswara Rao
6. LM-73826 Smt. Nazeena Begum Mohammad
7. LM-73827 Mr. Kalyanam Yaswanth Krishna Charan
8. LM-73828 Mr. Ravindra Ravuri
9. LM-73829 Mr. Pentela Rama Rao
10. LM-73841 Mr. Nagarjuna Koniki
11. LM-73842 Mr. Vasu Babu Daggubati
12. LM-73857 Mr. Koya Subba Rao
13. LM-73858 Mr. Gogineni Sambasiva Rao
14. LM-73866 Mr. Naripella Prakasa Rao
15. LM-73867 Mr. Talluri Purnachandra Rao
16. LM-73868 Mr. Bandaru Hari Prasada Rao
17. LM-73869 Mr. Paladugu Sivasankara Rao
18. LM-73881 Mr. Dodda Anjaneya Prasad
19. LM-73892 Dr. Aduri Pavan Kumar
20. LM-73894 Mr. Madala Umamahesh
21. LM-73899 Mr. Yamparala Gopichand

The following 5 members information were updated and transferred from "UC South" to IIChE Amaravati Regional Centre during 2024-25

1. LM-13553 Prof. C. Kesava Rao
2. LAM-28111 Mr. Lella Pratap Kumar
3. LAM 62140 Dr. Banavath Anil Kumar Naik
4. LAM 33062 Mr. T.V.V. Gopala Krishna
5. LAM-33934 Mr. Kammara Prathapu

C. Student Membership

The following 6 students were enrolled as IIChE student members from NIT AP during 2024-25

S.No.	Name of the student	Roll No.	SM Number	Year	Date of Registration
1	Nanduri Venkata Naga Bhuvaneswari Devi	222124	SM- 4091552	III	08-09-2024
2	Vijay Kumar	223129	SM- 4091583	II	10-09-2024
3	Naval Kishor Patil	222125	SM-24101768	II	03-10-2024
4	Ajay Kumar	223101	SM-25010062	II	19-01-2025
5	Swapnanil Paul	223124	SM-25010059	II	19-01-2025
6	Divyanshu Maurya	223110	SM-25010063	II	20-01-2025

With this, I submit the annual report together with the income expenditure statement cum balance sheet for the financial year 2024-25 for approval of esteemed members of Indian Institute of Chemical Engineers, Amaravati Regional Center.

Thank you one and all

(Sri Jagarlamudi Murali Mohan)
Chairman, IIChE ARC

(M.Venkateswara Rao)
Hon. Regional Secretary, IIChE ARC