



I.E.I NEWS

ANDHRA PRADESH

January - March 2024

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A Century of Service to the Nation

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Chairman - Dr. C V Sriram, FIE

Hon.Secretary - Prof. (Dr.) M L S Devakumar, FIE

Andhra Pradesh State Centre

KIA MOTORS VISIT

On 26 February 2024, IEI AP State Centre Committee members are visit KIA Motors unit at Anantapur, Andhra Pradesh. It is an area spread over 530 acres with a beautiful auditorium and a work training centre, PC lab, with the state-of-the-art facility. It also contained a well-stocked library and a spacious playground for its employees. Surprised to see that there are 123 employees and 275 Robots working round the clock. The image of these Robots working in the assembly line and producing 1040 cars per day is really fantastic. The unit functions

The unit functions with sophisticated and latest cutting edge technology to manufacture efficient cars. In fact, all the personnel are adroit in the effective use of this modern technology. We noticed that excellent coordination, cooperation and automation are the characteristic features of this unit. We believe that in the near future the AI technology would be imbibed into this work culture and would double the rate of production. Hospitality at the unit was very impressive.



The new brand identity, Kia has set out to find ways to achieve new benchmarks and inspire consumers to be more and do more. Till date, Kia India has launched five vehicles for the Indian market – the Seltos, the Carnival, the Sonet, the Carens, and the EV6. Kia India has completed over 6.3 lakh dispatches from its Anantapur plant, including 5 lakh domestic sales and over 1.5 lakh exports. With over 2 lakh connected cars on Indian roads, it is among the connected Car leaders in the country. The brand has a widespread network of 339 touchpoints and is focused on strengthening its footprints across the country.

The e - edition is available at www.apsciei.org

IEI AP SC NEWS LETTER OPENING

IEI APSC NEWS Letter opened by Prof G. V. R. Srinivasa Rao Vice - Chancellor of JNTUA here IEI APSC Committee Members also presented. in that situation Prof G. V. R. Srinivasa Rao Vice - Chancellor of JNTUA told about professional ethics, in present generation we observing ethical knowledge is decreasing and also told about functionalities structure it is not always top to bottom some time we also listen low level people also, all engineers always keep it in mind learning age is not restricted it is a continuous process only need interest and curiosity to learn new things and apply it in regular life. He also told about Ethical Education is a key component of the Educate Together model it's a curriculum that is living in Ireland's equality-based schools and it seeks to offer students the opportunity to meaningfully and critically reflect upon the world around them. In that situation IE(I) Anantapur Local Centre gave a request letter to Prof G. V. R. Srinivasa Rao Vice - Chancellor of JNTUA for land, using that land local centre to construct their own building.

VISIT TO IDEA LAB



Dr. CV Sriram, FIE, Chairman – IEI APSC, Prof. (Dr.) M.L.S Deva Kumar, FIE Hon. Secretary – IEI APSC and other Committee Members Dr. Karanam Suresh Babu, Prof. (Dr.) Brahmaraju, Er. D Ramesh Kumar, Prof. (Dr.) A V Naresh Babu , Prof. (Dr.) V Adinarayana Reddy and Some corporate members also attended the visit, AICTE IDEALAB has been aiming to transform education imparted in the institution to promote multidisciplinary education , innovation and research takes place. IDEALAB creates the platform for innova-

innovation and research to students and faculty with hands-on experience with the latest equipment in order to develop new projects and offer live internships with the industry support . AICTE-IDEA (Idea Development, Evaluation & Application) Lab in its approved institutions for encouraging students for application of Science, Technologies, Engineering and Mathematics (STEM) fundamentals towards enhanced hands-on experience and learning by doing. As per the need of 21st Century Skill enhancement for students (like Critical Thinking, Problem solving, Design Thinking ,Collaboration, Communication , Life long Learning) , New National Educational Policy and Industry 4.0 to promote inter-disciplinary activities amongst different departments of the college to foster creativity among students and faculty and also made available all the facilities of IDEA LAB to the Students and Faculty from other colleges and Schools in the surrounding region of our college.

The main objective of IDEA LAB is to fulfill the term used by our Prime Minister of India Sri Narendra Modi ji “Atmanirbhar Bharat” which translates to 'self-reliant India' or 'self-sufficient India' that leads to “Making India”

VISIT TO AGRI ENTREPRENUARAL FIELD - ECOLOGY & ENVIRONMEN-TAL SUSTAINABILITY

Dr. CV Sriram, FIE, Chairman – IEI APSC, Prof. (Dr.) M.L.S Deva Kumar, FIE Hon. Secretary – IEI APSC and other Committee Members Dr. Karanam Suresh Babu, Prof. (Dr.) Brahmaraju, Er. D Ramesh Kumar, Prof. (Dr.) A V Naresh Babu , Prof. (Dr.) V Adinarayana Reddy and Some corporate members also attended the visit, They discussed about Ecology & Environmental Sustainability propeller shaft through which the power of the propulsion machinery of the ship is transmitted to the propeller.



Environmental sustainability is the responsibility to conserve natural resources and protect global ecosystems to support health and wellbeing, now and in the future. Because so many decisions that impact the environment are not felt immediately, a key element of environmental sustainability is its forward-looking nature. In fact, the U.S. Environmental Protection Agency defines it as “meeting today’s needs without compromising the ability of future generations to meet their needs.”

VEGETABLE OIL PROCESSING & VALUE ADDED PRODUCTS



The Lecture was given by Dr.P.Venkateshwar on Vegetable Oil Processing & Value-Added Products (Paints).

Explained various pretreatment operations of different oil seeds, oil expelling units, flakers, Desemet solvent extraction operation. Clarified briefly about Processes of Degumming, Neutralization, bleaching and Deodorization in Refining of Oil industries and uses of byproducts like Lecithin gums, neutralized stocks. Also Specified about application of different Chemical

engineering Operations in Veg.oil processing industries.

Paint industry :

Explained about Ingredients in surface coating products by giving emphasis on polymerization of oils, coloring pigments and paint manufacturing operations. As in Ananthapur, KIA industry involves Powder coating technology therefore explained about Powder coatings manufacturing process and powder coatings application procedure by giving emphasis on latest double chamber auto- fluidizing operation techniques.

Industrial Coating Techniques - Dip Coating Method, Solvent - Based Coating Method, Texture Coating Method, Flow Coating Method, Spin Coating Method, Air Spray Coating Method, Electrostatic Air Spraying Method, High Volume Low Pressure (HVLP) Spraying Method.

INTUITION PROCESS

Durgaji Senior Faculty explained about The sixth sense is like a guide for you, it makes it easier for you to choose between the right and wrong. The sixth sense is a combination of all other senses which ends up becoming one strong power for you. Everyone is born with a sixth sense, however, many of us don't know understand how it works. Having a good sixth sense helps us become more confident about making decisions.

It is your sixth sense which helps you get those good and bad feelings before planning anything or taking a big step forward.

You must have heard stories of people that they cancelled a train ticket or flight ticket last moment just because they didn't feel good or right about it and later they got to know that the train or plane they were to ride got crashed. This is the sixth sense that makes people get these feelings and prevent their lives from any harm. Like I said earlier, we all have the sixth sense but we aren't able to connect with it because of all the noise around us.



STUDENT CHAPTER



Speaker - Er. KNS PRAKASH RAO FIE, Committee Member, Mechanical Division, IEI APSC

On 25th Feb At Government Polytechnic Anathapur, IEI student chapter meeting has been arranged by Dr. RamaKrishna Reddy, FIE and chapter Chairman, and IEI , Ananthpur Local Center Hony. Secretary. Er. KNS PRAKASH RAO, FIE and Dr. P. Ravindra Babu FIE attended the meeting as guests and addresses the Student Chapter members.

Er. KNS Prakash Rao during his speech explained the importance of the Polytechnic Students Chapter and advantages the students will get by participating in the student chapter activities regularly. He advocated all the students to think and act like an engineer right from the student level so that they become full pledged engineer with matured minds by the time they comes out of the college. He mentioned that active participation of students in Polytechnic student chapter activities will nurture them as leaders, engineers and entrepreneurs to sustain in the real world.

Student Members (SMIE) are entitled to enjoy following benefits regarding IEI journals: Make free e-access by logging in through www.ieindia.org, Can avail the journal hard copies at a concessional rate, Student Members (SMIE) may access the IEI Library at the headquarters as well as State and Local Centres of IEI. Student Members are entitled to receive the monthly colour tabloid 'IEI NEWS' free of cost. Opportunity to participate in technical events e.g. Seminars, Symposia, Conventions, Workshops etc. organized by various IEI centres at State, National and International levels at concessional rate.

KUMBA KARNA CIVIL STRUCTURE VISIT

Dr. C Sashidhar, FIE Professor in Civil Engineering and IEI AP SC Committee Member he gave the talk on penukonda Kumbakarna garden it is a grate Civil Construction of Anantapur. According to The Imperial Gazetteer of India, Penukonda was a subdivision and taluk of Anantapur district in Madras province. It contains 96 villages covering an area of 677 square miles. The population in 1901 was 92,482 compared with 81,104 in 1891. Penukonda was the headquarters with a population of 6,806. The Penner River flows



along its western and Chitravati river along its eastern boundary. In Penukonda, Kumbakarna garden here spreading over 5 acres has a Gigantic statue of the sleeping Kumbhakarna, measuring 142 feet in length and 32 feet in height into whose cavernous belly one can walk. Several asuras are seen trying to wake up the sleeping Giant, depicting the famous story of this in invincible brother of Ravana in Ramayana

PENUKONDA FORT - CIVIL CONSTRUCTION VISIT



Dr. C Sashidhar, FIE Professor in Civil Engineering and IEI AP SC Committee Member he gave the talk on penukonda Fort, At a distance of 3 km from Penukonda Railway Station, 79 km from Anantapur, 436 km from Hyderabad, 550 km from Vijayawada and 142 km Bangalore, Penu konda Fort is a medieval fort situated at Penukonda in Anantapur district of Andhra Pradesh. Penukonda was once served as the 2nd capital of Vijayanagara Kingdom after the fall of Hampi and was earlier called as Ghanagiri or Ghanadri. According

to the inscriptions, the Penukonda state was gifted by the King Bukka-I to his son Virupanna. This fort was built at the time of Virupanna. This fort was one of the best defenses of the Vijayanagara kingdom. With the decline of Vijayanagara kingdom, the Sultan of Golconda captured this fort. Later Mysore Kingdom captured this fort briefly until British overtook after the fall of Tipu Sultan.

Built on a gigantic hill, the huge and imposing fort offers a spectacular view of the town below. The basement of the walls, bastions and gateways in the fort was made of stone, mortar and lime. The first inner section of the fort residential building designed amenities for royal family members. The central hall of the fort follows Hindu and Muslim architecture. Dome of this hall has been designed in Hindu style of construction, whereas the floor has the signature style construction of Islamic architecture. The fort Penukonda has several temples, famous ones being the temples of Lord Hanuman, Yoga Narasimhaswamy, Kashi Vishwanatha and Lord Yogarama. Most of the temples are currently in ruined state.

WORLD WATER DAY

Chief Guest & Keynote Speaker P.L.N. Kartic highlighted the various sources of water, their quality problems, and the need to purify the water. He stressed on water conservation, ground water recharge and water minimization aspects to handle the water crisis that is being faced by the world today. He introduced few case studies of global water crisis, in particular, the problems faced in Bangalore. He discussed the solutions to address the problems faced by the cities where they have become concrete jungles



with little space for groundwater recharge. He advised few tips to conserve water in the day-to-day life to the audience. The programme is attended by Dr K. Appa Rao, Principal, LBRCE, Dr J. Venkateswara Rao, HOD-Civil Engineering, Dr C.V. Sriram, Chairman, IE(I), AP State Centre, Prof (Dr) MLS Deva Kumar, Hony. Secretary, IE(I), AP State Centre, Dr D. Ramesh Kumar, Committee Member, Civil Engineering Division, IE(I) AP State Centre, few members of IE(I) and faculty members of Civil Engineering Department LBRCE.

WORLD ENGINEERING DAY



Dr. Chava Srinivas garu said about what is the importance of building with nature, People and economic activities keep on concentrating in large urban areas, mostly located in coastal, deltaic and riverine areas. Land and water use in these urbanizing areas grows dramatically, as do flood risk and climate sensitivity. Moreover, society increasingly demands more safety, prosperity and sustainability. In today's rapidly changing world, the importance of sustainable engineering practices cannot be overstated. In a groundbreaking

initiative, engineers and environmentalists alike are embracing a new approach known as "Building with Nature," aimed at harmonizing human-made structures with the natural environment. Building with Nature represents a paradigm shift in engineering philosophy, recognizing that our built environment can coexist harmoniously with the natural world. By integrating ecological principles into engineering design, construction, and operation, this innovative approach seeks to mitigate environmental impact, enhance resilience, and create more livable communities.

"At its core, Building with Nature is about collaboration with the environment rather than opposition," explains Dr Chava Srinivas, Professor and Head, Department of Civil Engineering, VR Siddhartha Engineering College, Vijayawada, "It's about recognizing that nature holds the key to sustainable development and leveraging its inherent resilience to create a better future for all." With the global community increasingly focused on addressing climate change and fostering sustainable development, Building with Nature has emerged as a beacon of hope for engineers, policymakers, and environmental advocates alike.

EFFECTIVE COMMUNICATION

The Institution of Engineers (India), Anantapur Local Center, Ananthapuramu organized the 'Effective Communication' on 27th January, 2024. The Chief Guest of the event was Smt. R. Radha, Lecturer in English, KSN Degree College, Ananthapuramu. She delivered the lecture very beautifully about the importance of communication in the present situation. She also explained how to face the interviews while using the effective communication skills. She also stressed the following key points about the effective



communication skills. She also stressed the following key points about the effective communication - i. Identify the solution to common challenge, ii. Active listening, iii. Demonstration understanding, iv. It helps to prevent conflict, v. Improve the engagement, vi. Builds trust, vii. Observational skills, viii. effective communication, the event ended with a vote of thanks by Dr. M. Rama Krishna Reddy, IE(I), Anantapuram local Centre. A large number of students from various departments participated in the event.

MOTIVATIONAL SPEECH



The Institution of Engineers (India), Anantapur Local Center, Ananthapuramu organized the 'motivational Speech' on 25th February, 2024. The Chief Guest of the event was Er. P. Ravindra Babu & Prof. M. Babu Rao. They have explained the importance of motivational speech for budding Engineers. The five motivational videos are exhibited to all the students. All students are inspired after listening to the lecturer.

The following key points are explained.

- i. Motivation to learn
- ii. Education prepares you for the future
- iii. Be patient and take small steps
- iv. Development of skills by involving the work
- v. What you learn is yours forever
- vi. How to start a day with positive thinking

This year's celebration coincides with the launch of a new global report on Engineering entitled "Engineering for Sustainable Development: Delivering on the Sustainable Development Goals". The Report's five chapters analyse successively how engineering is essential to sustainability, why it should become more diverse and inclusive, which are the key innovations that will make a difference in delivering the SDGs, what engineering primary and life-long education is needed to achieve those objectives,

WORLD WATER DAY

Chief Guest & Keynote Speaker Dr. P A R K Raju
World Water Day happens each year on March 22. It's a day when we focus on the importance of water and why it's crucial to save it. Water is really important for everything we do every day. Think about drinking water, washing dishes, or watering plants – we need water for all of that! It's essential to celebrate World Water Day because most of the water we use comes from underground sources like wells. These resources are limited, and if we use too much, they might run out.



Water is super important for staying healthy and having a good life. As more and more people need water, it's becoming harder to find enough of it. That's why we need to work together to make sure we use water wisely and don't waste it. We all need to do our part to protect this precious resource.

PRACTICAL APPLICATIONS OF LARGE LANGUAGE MODELS



Speakers Bhaskar Rao, K. Praveena garu said about the vast expanse of computerized language processing, a revolutionary entity known as Large Language Models (LLMs) has emerged, wielding immense power in its capacity to comprehend intricate linguistic patterns and conjure coherent and contextually fitting responses. Large language models (LLMs) are a type of artificial intelligence (AI) that have emerged as powerful tools for a wide range of tasks, including natural language processing (NLP), machine translation, and

answering. This survey paper provides a comprehensive overview of LLMs, including their history, architecture, training methods, applications, and challenges. The paper begins by discussing the fundamental concepts of generative AI and the architecture of generative pre-trained transformers (GPT). It then provides an overview of the history of LLMs, their evolution over time, and the different training methods that have been used to train them. The paper then discusses the wide range of applications of LLMs, including medical, education, finance, and engineering.

It also discusses how LLMs are shaping the future of AI and how they can be used to solve real-world problems. The paper then discusses the challenges associated with deploying LLMs in real-world scenarios, including ethical considerations, model biases, interpretability, and computational resource requirements. It also highlights techniques for enhancing the robustness and controllability of LLMs, and addressing bias, fairness, and generation quality issues. Finally, the paper concludes by highlighting the future of LLM research and the challenges that need to be addressed in order to make LLMs more reliable and useful.

75th REPUBLIC DAY CELEBRATIONS

The Chairman Dr. V. Adinarayana Reddy, Chairman, Honorary Secretary Er. A. Venkateswarlu and other dignitaries saluting the National Flag. The Institution of Engineers (India) Kadapa Local Centre observed the 75th Republic Day on 26th January 2024 at 7.50 AM. Dr. V. Adinarayana Reddy, Chairman of the IEI, Kadapa Local Centre hoisted the National Flag, at Visvesvaraya Bhavan, Kadapa and Er. A. Venkateswarlu, Honorary Secretary of IEI, Kadapa Local Centre addressed the gathering on this occasion and solicited to make a special membership drive programme by covering all engineering colleges and departments in the jurisdiction of IEI, Kadapa Local Centre. The function was attended by the several senior members and Staff of the Institution. The function ended with the National Anthem.



NATIONAL SCIENCE DAY



The Institution of Engineers (India), Kadapa Local Centre and KSRM College of Engineering, Kadapa jointly organized a Seminar on the occasion of “National Science Day” on 28th February, 2024. The Chief Guest Shri Kompella Sastry, National Governing Council Member of Vignana Bharathi has delivered a lecture on the theme of the day. The brief details of the presentation given are as follows. I am glad to participate in the National Science Day celebrations. Our nation has a long and glorious tradition of scientific enquiry. From ancient times to

the medieval era and then the modern period, this land has been home to exceptional minds who have pushed the frontiers of human knowledge. Their works form a rich treasure of our scientific and cultural heritage. Since Independence, India has placed special emphasis on promotion of scientific temper. Our Constitution itself has enshrined this attitude as a fundamental duty. It is, thus, the duty of every citizen of India “to develop the scientific temper, humanism and the spirit of enquiry and reform”. How did the National Science Day celebrations start? I was told that the Department of Science and Technology received a letter from a science enthusiast – suggesting celebration of a ‘National Scientists’ Day’ on the lines of the ‘National Teachers’ Day’. Acting on this suggestion the Central Government decided to celebrate the National Science Day from 1987.

The day chosen was February 28. That too has a special importance. It was on this day in 1928 that Sir Chandrasekhar Venkata Raman announced his path-breaking discovery of the phenomenon of the scattering of light, known as the ‘Raman Effect’. He was honoured with the Nobel Prize for Physics in 1930.

WORLD ENGINEERING DAY

The Institution of Engineers (India), Kadapa Local Centre and Global College of Engineering & Technology, Kadapa jointly organized a Seminar on the occasion of “World Engineering Day - 2024” on 04th March, 2024. The Resource Person Er. Challa Prathyusha, M. Tech., Academic Consultant, Dr. YSR Architecture & Fine Arts University, Kadapa has delivered a lecture on the theme of the day. The brief details of the presentation given are as follows. Urban transportation systems are integral to the functioning of cities, serving as



lifelines for millions of people worldwide. However, the ever-increasing demand for mobility, coupled with the proliferation of vehicles, has led to a surge in fuel consumption and harmful emissions, posing significant challenges to environmental sustainability and public health. According to recent statistics, urban transportation accounts for approximately 23% of global energy-related carbon dioxide (CO₂) emissions, with road vehicles being the primary contributors

EMERGING TECHNOLOGY IN ELECTRONICS COMMUNICATION



The Institution of Engineers (India), Kadapa Local Centre and ECE Department, Annamacharya Institute of Technology & Sciences (AITS), Kadapa jointly organized National “Conference Emerging Technology in Electronics Communication” on 6th March, 2024. The event was inaugurated and delivered key note address by Dr. V. Adinarayana Reddy, Chairman, IEI, Kadapa Local Centre. . After the inauguration the resource person Dr. P.V. S. Murali Krishna, MIE, Professor & HoD, Dept. of ECE, AITS, Utukur has delivered a lecture on the

theme of the day. CETEC- 2K24, the National Conference is to provide an opportunity for Professionals and students to present research findings to gain experience in the field and receive invaluable input from colleagues about how to strengthen their work, and disseminate exciting and cutting-edge findings from their field of study.. Around 60 students presented and 18 faculty members were participated in this program. Certificates were distributed along with guest lecturer. CETEC- 2K24 was well organized by faculty of ECE Department, AITS Kadapa. In this program couple of conference Papers Were Presented from various college students.

The objective of this conference is to enhance the student’s creativity, thinking ability, team work, research findings etc. Students can learn how to prepare presentations and they can gain some knowledge and also learn how to improve communication skills etc. All faculties of ECE Departments AITS, Kadapa feels proud to organize CETEC - 2K24 event and would like to convey thanks to The Institution of Engineers (India), Kadapa Local Centre and Management, Principal of AITS, Kadapa for their advice and cooperation extended to us.

WORLD WATER DAY

The Institution of Engineers (India), Kadapa Local Centre and KSRM College of Engineering, Kadapa jointly conducted a lecture on the occasion of World Water Day on 22nd March 2024. The Chief Guest & Speaker Er. K. Sreenivasulu, M. Tech., Superintending Engineer, Water Resources Dept., Kadapa had delivered a lecture on the theme of the day "Water for Peace". The brief details of the presentation given are as follows. Every year since 1993, World Water Day (22 March) raises awareness and inspires action to tackle the



water and sanitation crisis. It is about taking action to tackle the global water crisis of the 2.2 billion people living without access to safe water. It is a United Nations observance coordinated by UN-Water. The theme is proposed in advance by UN-Water. It is aligned with the annual publication of the UN World Water Development Report, published by UNESCO on behalf of UN Water. Water scarcity, accelerated by climate change, affects water availability and may threaten peace and security. This role of water, as a contributing factor for triggering wars, sheds light on the significance of the protection of water during armed conflict. Keeping water out of war not only contributes to preserving an indispensable natural resource for life but also serves as a tool for the hostile parties to start negotiations, building trust and peace.

The uneven distribution of water resources and the competition between the multiple uses of those resources combined with the growth of the world's population has given rise to a debate on future 'water wars'. While some predict such wars, others indicate that no 'water war' has taken place since 4,500 years ago. According to the latter view, increased competition for water could become the catalyst for more intense co-operation in the future. Beyond the arguments about the existence of 'water wars', when one looks at the interactions between riparian states over shared water resources, it may be noticed that those interactions include forms of both conflict and co-operation between states.

Naturally, water is the most abundant resource on earth. However, only a small quantity – around 2.53% – of it is fresh water that can be used for agriculture, human consumption, and industrial purposes. Moreover, a significant part of this freshwater is locked up in ice or in groundwater resources. Some of those resources, having insignificant or no source of recharge by surface waters, can become non-renewable resources and risk being exhausted. As a scarce resource, water has the potential for triggering conflict and these may become increasingly important as water scarcity is accelerated by human factors. One of the main concerns regarding the possibility of conflict over water, is the occurrence of armed hostilities between states. Hostilities may take several forms, such as intra-state armed conflicts, national violence, skirmishes, and occupation of a territory. 6 In looking at the linkage between water and international peace and security, one may consider water not only as a factor triggering war but also as a weapon and an objective of armed conflict, often a neglected topic in studies on the relationship between water and armed conflict. 7 Finally, limitations on access to water and the environmental damage to water resources caused by armed conflict endanger the security of a population as a whole, rendering the return to peace longer and more difficult in countries affected by war..

WORLD WATER DAY

The Institution of Engineers (India), Kakinada Local Centre organized a lecture on the occasion of World Water Day on 22nd March 2024. The Speaker Dr. M. Ramesh, FIE, IEI, Kakinada local Centre had delivered a lecture on the theme of the day.

The theme for World Water Day 2024 is 'Water for Peace'. This is an adaptation of the central promise of the 2030 Agenda for Sustainable Development: as sustainable development progresses, everyone must benefit.



HOW DOES IT RELATE TO WATER?

Sustainable Development Goal 6 (SDG 6) includes a target to ensure availability and sustainable management of water for all by 2030. By definition, this means leaving no one behind.

WHAT IS THE PROBLEM?

Today, billions of people are still living without safe water – their households, schools, workplaces, farms and factories struggling to survive and thrive.

Marginalized groups – women, children, refugees, indigenous peoples, disabled people and many others – are often overlooked, and sometimes face discrimination, as they try to access and manage the safe water they need.

WHAT DOES 'SAFE WATER' MEAN?

'Safe water' is shorthand for a 'safely managed drinking water service': water that is accessible on the premises, available when needed, and free from contamination.

WHY IS IT IMPORTANT?

Whoever you are, wherever you are, water is your human right. Access to water underpins public health and is therefore critical to sustainable development and a stable and prosperous world. We cannot move forward as a global society while so many people are living without safe water.

WHAT IS THE HUMAN RIGHT TO WATER?

In 2010, the UN recognized "the right to safe and clean drinking water and sanitation as a human right that is essential for the full enjoyment of life and all human rights."

The human right to water entitles everyone, without discrimination, to sufficient, safe, acceptable, physically accessible and affordable water for personal and domestic use; which includes water for drinking, personal sanitation, washing of clothes, food preparation, and personal and household hygiene.

WORLD ENGINEERING DAY

The Institution of Engineers (India), Visakhapatnam Local Centre had organized a technical activity on 04th March, 2024 at 06.00 PM at Seminar Hall, IEI through Virtual mode.

Speaker, Sri Ravi Eswarapu, CEO of Andhra University Incubation Hub & President, TiE, Visakhapatnam while delivering lecture on “Engineering Solutions for a Sustainable World”.



Additive manufacturing (3D printing): Allows for creating complex structures using minimal material, reducing waste compared to traditional subtractive manufacturing methods. **Industrial symbiosis:** Optimizes resource use by creating a network of companies where one's waste becomes another's raw material, minimizing overall environmental footprint. **Closed-loop manufacturing:** Designs products and processes that allow for easy disassembly and material recovery, facilitating recycling and reuse at the end of the product's life cycle.

WORLD WATER DAY



The Institution of Engineers (India), Visakhapatnam Local Centre had organized a technical activity on 22nd March, 2024 at 06.30 PM at Seminar Hall, IEI, VLC.

Speaker, Sri Er. K. V. Sivananda Kumar, BE (Civil), Superintending Engineer, Rural Water Supply & Sanitation Dept., Gov. of AP, Visakhapatnam while delivering lecture on “Water for Peace”. Every year, World Water Day (22 March) raises awareness and inspires action to tackle the water and sanitation crisis.

It is a United Nations observance, coordinated by UN-Water and led by one or more UN-Water Members and Partners with a related mandate. The theme is proposed in advance by UN-Water and is aligned with the annual publication of the UN World Water Development Report, published by UNESCO on behalf of UN-Water, with its production coordinated by the UNESCO World Water Assessment Programme (WWAP). In 2024, the theme of World Water Day is ‘Leveraging water for peace’ and the name of the World Water Development Report is ‘Leveraging Water for Peace and Prosperity’. The World Water Day campaign is simply called ‘Water for Peace.’

‘Water for Peace’ explained Water can create peace or spark conflict. When water is scarce or polluted, or when people have unequal or no access, tensions can rise between communities and countries. More than 3 billion people worldwide depend on water that crosses national borders. Yet, out of 153 countries that share rivers, lakes and aquifers with their neighbors, only 24 countries report having cooperation agreements for all their shared water.

REGIONAL LANGUAGES PROMOTION DAY

The Institution of Engineers (India), Visakhapatnam Local Centre had organized a technical activity on 21st February, 2024 at 03.00 PM at Government Polytechnic, Kancharapalem, Visakhapatnam.

Speaker, Cmde D Chandra Sekhar, Technology Director, Quality & Reliability, NSTL, Visakhapatnam while delivering lecture on “Regional Languages promotion Day”. In my view language is not a name for some group of words.



It is a ready-made power that a man gets from birth. No one can describe the transcendental joy he gets when he speaks his mother tongue while being able to put his feelings into words and express himself to others, if he has to speak his language. Mother tongue is not only the language from the mother, but it is the language that gave us the first expression of our feelings, at that young age when we were not affected by hypocrisy. The feelings of that day are the real mother feelings in our life. It was the mother tongue of those days.

NATIONAL SCIENCE DAY



The Institution of Engineers (India), Visakhapatnam Local Centre had organized a technical activity on 28th February, 2024 at 06.30 PM at Seminar Hall, IEL.

Speaker, Sri Dr A Srinivas Kumar, FIE, Outstanding Scientist & Technology Director (Retd), Naval Science & Technological Laboratory (NSTL), Visakhapatnam while delivering lecture on “Indigenous Technology for Viksit Bharat”.

E-mobility, short for electric mobility, refers to the use of electric vehicles (EVs) for transportation purposes. It encompasses a range of electric-powered vehicles, including electric cars, electric buses, electric scooters, and electric bicycles. E-mobility is gaining momentum globally as a sustainable alternative to conventional internal combustion engine vehicles, primarily due to its potential to reduce greenhouse gas emissions and dependence on fossil fuels. Here are key aspects and considerations related to e-mobility:

1. **Environmental Benefits:** E-mobility helps reduce air pollution and greenhouse gas emissions, contributing to efforts to combat climate change and improve air quality in urban areas. Electric vehicles produce zero tailpipe emissions, especially when powered by renewable energy sources such as solar or wind.
2. **Energy Efficiency:** Electric vehicles are generally more energy-efficient than internal combustion engine vehicles, converting a higher percentage of energy from the grid to power the vehicle.



Dr. C V Sriram, FIE
Chairman, IEI AP SC

Highest Activities Conducted by Top Two Centres

1. Andhra Pradesh State Centre - 11
2. Kadapa Local Centre - 5



Prof. (Dr.) M L S Deva Kumar, FIE
Hon. Secretary, IEI AP SC



75th REPUBLIC DAY CELEBRATIONS - KADAPA



NATIONAL SCIENCE DAY - KADAPA



WORLD ENGINEERING DAY - KADAPA



EMERGING TECHNOLOGY IN ELECTRONICS COMMUNICATION - KADAPA



WORLD WATER DAY - KADAPA



WORLD WATER DAY - KAKINADA



WORLD ENGINEERING DAY - VLC



WORLD WATER DAY - VLC



REGIONAL LANGUAGES PROMOTION DAY - VLC



NATIONAL SCIENCE DAY - VLC



MEMBERSHIP DRIVE - ANANTAPUR



VEGETABLE OIL PROCESSING - ANT LC



KIA MOTORS VISIT- AP SC & ANT LC



IEI AP SC NEWS LETTER OPENING



VISIT TO IDEA LAB - AP SC & B LC



VISIT TO AGRI ENTREPRENUARAL FIELD



VEGETABLE OIL PROCESSING - AP SC



INTUITION PROCESS - AP SC



STUDENT CHAPTER - AP SC & ANT LC



KUMBA KARNA VISIT - AP SC & ANT LC



PENUKONDA FORT VISIT - AP SC & ANT LC



WORLD WATER DAY - AP SC



WORLD ENGINEERING DAY - AP SC



EFFECTIVE COMMUNICATION - ANT LC



MOTIVATIONAL SPEECH - ANT LC



WORLD WATER DAY - BHIMAVARAM LC



**PRACTICAL APPLICATIONS OF LARGE
LANGUE MODELS - BHIMAVARAM LC**