Activity Report

on

NATIONAL SCIENCE DAY (2021-22)

CELEBRATIONS

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National Science Day (NSD) –

Focal theme

"Integrated Approach in science and technology for Sustainable Future"

In the year 1928, Indian Physicist Chandrasekhara Venkata Raman made an important discovery in the field of spectroscopy, which was later named after him – the Raman Effect. For his work, Sir C.V. Raman was awarded the prestigious Nobel Prize in Physics in 1930. The NSD is celebrated on 28th February, every year to commemorate the exemplary scientific achievements of the great Indian Scientist Nobel Laureate Sir C.V.Raman and the Raman Effect which brought him the Nobel Prize in Physics. During the year 2021-22, the National Science Day (NSD-22) was celebrated under the Focal theme "**Integrated Approach in science and technology for Sustainable Future**".

The National Council for Science and Technology Communication (NCSTC), in 1986, asked the Government of India to announce February 28 as National Science Day. The government accepted and declared the day as National Science Day. The first National Science Day was celebrated on February 28, 1987. National Science Day is celebrated to raise awareness on the importance of science. Educational institutions celebrate National Science Day by organising public speeches, radio, TV, science movies, science exhibitions on themes and concepts, debates, quiz competitions, lectures and science model exhibitions. The main purpose of celebrating NSD is to spread the message of the importance of Science and it's applications in everyday life among people.

Objectives

1) It is aimed at fostering the spirit of scientific temper among various sections of society by formulating activities in various formats based on the focal theme announced by the NCSTC, DST.

2) NSD celebrations are oriented towards the entire scientific fraternity to rededicate themselves for the cause and development of science and its applications for the welfare of society and mankind.
3) NSD Celebrations shall be used as a platform to inform the students about the importance of Science in National Development and to sensitise them about the role played by Science in the making of Advanced Nations, about the efforts of Govt. of India in the promotion of Science in India and about the facilities being provided to meritorious science students for pursuing higher education in Science.

4) These celebrations also aim at alleviation of superstitions prevailing in the society by fostering Scientific Temper among public from various sections of society.

Sl. No	Name of the Project Coordinator, Implementing Agency
1	2
1	Prof. Sounak Roy, Birla Institute of Technology & Science (BITS), Pilani, Hyderabad
2	Dr. T.Umamaheswari, Prof. Jayashankar Telangana State Agril University (PJTSAU), Siricilla
3	Er.P.Ravindra Reddy, Water and Land Management Training and Research Institute, (WALMTARI), Hyderabad
4	Dr.MVSS Giridhar, Centre for Water Resources, IST, JNT University, Hyderabad
5	Dr.E.Sujatha, Osmania University, Hyderabad
6	Dr.P.Ramesh, SR & BGNR Govt. Arts & Science College, Khammam
7	Dr. N. Mohan Babu, Telangana University, Nizamabad
8	Dr.V.Namratha, Satavahana University, Karimnagar
9	Dr.M.Ramachander Goud, Mahatma Gandhi University, Nalgonda
10	Dr.Chandrasekhar Vasam, Dept. of Pharmaceutical Chemistry Telangana University, Nizamabad
11	Dr.B.Venkatram Reddy, Professor of Physics & Registrar, Kakatiya University, Warangal

Birla Institute of Technology & Science – Pilani, Hyderabad Campus

IMPORTANCE

The Day is observed to mark the discovery of Raman Effect by the great Indian Physicist Sir C. V. Raman on 28th February, 1928. Raman Effect is a phenomenon in spectroscopy discovered by the eminent physicist while working in the laboratory of the Indian Association for the Cultivation of science, Kolkata. After two years of this discovery, Sir C. V. Raman was awarded Nobel Prize in physics (in 1930). Hence the National Science Day is a great day for Indian Science and scientific community. To commemorate and honor this event always in the future, 28th of February was asked to the Indian Government to designate as a National Science Day in India by the National Council for Science and Technology Communication (NCSTC) in the year 1986. Besides, National Science Day offers an opportunity to bring issuesof science on to center stage. The activities organized on the occasion provide public with an occasion to personally attend various programmes and be aware of the emerging issues of immediate concern. Organizing activities with the involvement of large number of people results into purposeful interaction between the science fraternity and the common people for mutual benefit.

Considering these, the Department of Chemistry, BITS-Pilani, Hyderabad campus has organized a day long program on 28th February 2022 to celebrate the National Science Day.The event was Catalysed and supported by National Council for Science & Technology Communication (NCSTC), Department of Science & Technology, Govt. of India and Telangana State Council for Science and Technology (TSCOST). A total number of seventy students (belong to grade-IX to XII) from local high schools have attended the program and participatedin various activities.

BASIC OBJECTIVES

The basic objective of observation of National Science Day is to spread the message of importance of science and its application among the people. This is essential to accelerate the pace of development. Even in the 21st century and despite many significant achievements certain sections of our society are still guided by blind faith and beliefs, which is reflected in the quality of decision making on developmental issues. Observation of NSD attempts at generating scientific minded citizens. Science has contributed a great deal to human welfare.

Through the gospel of reason and experimental observation, by which it works, it has enabled man to acquire intellectual and mental excellence. From the materialistic point of view, ranging from environmental issues, disease eradication, space exploration, energy production, information highway to name a few, science and technology has broken barriers to bring peace and prosperity with a cleaner environment with sustainable use of resource for the benefit of mankind. Biotechnology is making a major impact on agriculture, health, environment, industry and pharmaceuticals. Communication at lower costs, with greater accessibility, is another product of technology. It helps inculcate scientific temper among school children. Health and hygiene issues are prime concerns for the common people. The daily application of science like the use of clean drinking water, knowledge to eradicate contagious disease, the knowhow of various agricultural practices to increase crop production, the usefulness of biodiversity conservation, etc., should be disseminated to the future generation.

ACTIVITIES

- Plenary talks by Prof. Amitabha Chattopadhyay, CSIR Bhatnagar Fellow at CSIR–Centre for Cellular and Molecular Biology, Hyderabad and Prof. T. P. Radhakrishnan, School of Chemistry, University of Hyderabad.
- A documentary film on Sir C V Raman's life and work was screened.
- Demonstration of science experiments, Lab visit, and exhibition on Raman Spectroscopy by BITS Pilani Hyderabad Campus students (For class IX to XII students)
- Poster presentation by invited students on the theme of "integrated approach in science and technology for a sustainable future"' at Auditorium.
- Quiz competition for class IX to XII students
- Prize and Certificate distributions vote of thanks, and closing remarks

LIST OF SPEAKERS

- Prof. Amitabha Chattopadhyay, CSIR Bhatnagar Fellow at CSIR–Centre for Cellular and Molecular Biology, Hyderabad
- Prof. T. P. Radhakrishnan, School of Chemistry, University of Hyderabad.

PROGRAM SCHEDULE

Time	Activities
9:30 AM – 9:45 AM	Registration
9:45 AM – 10:00 AM	Inaugural session
10:00 AM – 11:00 AM	First Plenary talk by **Prof. Amitabha Chattopadhyay,** CSIR Bhatnagar Fellow at CSIR-Centre for Cellular and Molecular Biology, Hyderabad, title of the talk: ***Cholesterol in Biology and Medicine: History, Myths, and Excitement***
11:00 AM – 11:15 AM	Movie on C V Raman's life and work
11:15 AM – 11:30 AM	**Tea-break**
11:30 AM – 1:00 PM	Demonstration of easy science experiments, Lab visit, and exhibition on Raman Spectroscopy by BITS Pilani Hyderabad Campus students (For class IX to XII students)
1:00 PM – 3:00 PM	**Lunch-break** and **poster presentation** by invited students on the theme of ***"integrated approach in science and technology for a sustainable future"'*** at Auditorium foyer.
3:00 PM – 4:00 PM	Second Plenary talk by **Prof. T. P. Radhakrishnan**, School of Chemistry, University of Hyderabad, Title of the talk: **'Molecular Materials'.**
4:00 PM – 5:00 PM	Quiz competition for class IX to XII students
5:00 PM - 5:15 PM	**High-Tea.**
5:15 PM - 5:30 PM	Prize and Certificate distributions, vote of thanks, and closing remarks

INVITATION

NATIONAL SCIENCE DAY

at

Department of Chemistry, BITS Pilani,
Hyderabad Campus

On

February 28, 2022

To commemorate the discovery of the Raman Effect

Catalyzed and supported by

National Council for Science & Technology Communication (NCSTC), Department of Science & Technology, Govt. of India

and

Telangana State Council for Science and Technology (TSCOST)

You are cordially invited to join us at 9:30 AM at the Auditorium,

BITS Pilani, Hyderabad Campus

Birla Institute of Technology & Science, Pilani
Hyderabad Campus
Jawahar Nagar, Kapra Mandal
Hyderabad 500078, Telangana, India

Department of Chemistry, BITS Pilani, Hyderabad Campus

celebrates

NATIONAL SCIENCE DAY

to commemorate the discovery of the 'Raman Effect'

(February 28, 2022)

TALKS BY EMINENT SCIENTISTS

Prof. Amitabha Chattopadhyay
SERB Distinguished Fellow at CSIR–Centre for Cellular and Molecular Biology (CSIR-CCMB), Hyderabad

Prof. T. P. Radhakrishnan
Professor
School of Chemistry, University of Hyderabad, Hyderabad

QUIZ COMPETETION FOR CLASS-IX to CLASS-XII STUDENTS

Entries are invited for the quiz competition for class – IX to Class – XII students in the afternoon session. Each team can comprise of maximum of 3 students.

First Prize: 6000 INR
Second Prize: 3000 INR
Third Prize: 2000 INR

Maximum one team can be registered for the quiz competition. Send your candidature to nsd2022@hyderabad.bits-pilani.ac.in on or before, February 23, 2022.

POSTER PRESENTATION COMPETITION FOR CLASS-IX to CLASS-XII STUDENTS

Entries are invited for the poster presentation competition for class IX to class XII students. The candidates are supposed to prepare poster based on the topic of Science Day theme, announced by our government for this year, which is as follows:

"Integrated approach in science and technology for a sustainable future".

A maximum of two poster based on the above topic will be selected from each school. From amongst the shortlisted posters, the best three posters will be awarded a cash prize along with the certificate of merit.

Send the soft copy of your poster to nsd2022@hyderabad.bits-pilani.ac.in on or before February 23, 2022 with details including name of the student (s), age, school, class and mobile number.

A confirmation email for the selected posters will be communicated by February 25, 2022. Once the poster is selected, the team needs to print the poster on a 34" X 45" flex/hardboard/Chart-paper etc. and display the same at the venue.

First Prize: 5000 INR
Second Prize: 3000 INR
Third Prize: 2000 INR

CONTACT:
Email: nsd2022@hyderabad.bits-pilani.ac.in
For any query, one may contact at 8240732239 and 9748281394. If selected, kindly note that the school has to make its own to and fro travel arrangements to the venue @ BITS Pilani Hyderabad Campus on 28 Feb. 2022.
Registration link: https://forms.gle/2xTXv5SBkwM79vuN9

Venue: Auditorium, BITS Pilani, Hyderabad Campus
Coordinator: Prof. Sounak Roy, Head, Dept. of Chemistry, BITS-Pilani, Hyderabad Campus
Conveners: Dr. Chanchal Chakraborty, Dr. Nilanjan Dey

Capacity Building Program on "Sustainable Agricultural Technology"
Conducted on the occasion of National Science Day celebrations, 2022
(14th to 22nd Feb, 2022)

PROFESSOR JAYASHANKAR TELANGANA STATE AGRICULTURAL UNIVERSITY
AGRICULTURAL COLLEGE, SIRCILLA

Date: 14.02.2022

Inaugural Session

The program was inaugurated on 14th February, 2022 at Agricultural College, Sircilla by Sri. Marupaka Nagesh, Member Secretary, TSCOST and addressed the participants. He narrated the importance of Agricultural Science and its exploitation as technology for the benefit of the nation. He enlighten the objective of the program to encourage youth and women for becoming entrepreneurs through self-employment by taking up activities like waste recycling, kitchen/roof garden etc.

Target group : Unemployed youth
Topic : Waste recycling and Vermicomposting

After the Inaugural session, Dr. T. Uma Maheswari, Associate Dean, Agricultural College, Sircilla has explained the importance of waste recycling through earthworms. Dr. T. Arunbabu, Assistant Professor, Department of Agronomy, Agricultural College, Sircilla invited the unemployed youth (No. 20) of the adopted village, Narshimhulapalli, Thangallapalli Mandal, Rajanna Sircilla District. During the session, he pointed out collection of different types of biodegradable waste produced from Agriculture like crop residues, farm waste. These waste materials can be make effective by 3R process
i.e. Reduce, Reuse and Recycle.

Vermiculturing and vermicompost production

In the afternoon session, Dr. T. Arunbabu explained how earthworms consume biomass and excrete in digested form called worm casts or Black gold. These casts are rich in nutrients, growth promoting substances, beneficial soil micro flora and possess properties of inhibiting pathogenic microbes.

Date: 15.02.2022

Demonstration of vermicompost production

The farmers have attended the demonstration of vermicompost production including the inputsrequired, process of bed formation, release of earth worms, harvesting of the product and finally storage of vermicompost. Farmers were involved in the process of compost preparation by using mobile vermi beds.

Vermiwash production and business plan for vermicomposting

The byproduct in the vermicomposting process is Vermiwash which is a ready to use liquid fertilizer i.e., extract from vermicompost as a medium where earthworms are richly populated. It comprises a massive decomposer bacterial count, mucous, vitamins, different bioavailable minerals, hormones, enzymes, antimicrobial peptides, etc. It is also used for reducing pests and diseases on several crops.

Nutritive value and dosage of vermicompost and vermiwash

The major advantage of vermicompost is it's high nutritive value compared to the any of the compost. In this session, the nutrition value of vermicompost/vermiwash and recommended dosage of vermicompost application at different conditions for various crops were explained.**Date:16.02.2022**

Target group : Farmers
Topic : Integrated Pest Management in Sustainable Agriculture

Farmers from Thornala and Peddur villages attended the training programme on Importance of Integrated Pest Management in sustainable Agriculture. Dr. T. Uma Maheswari, Associate Dean, Agricultural College, Sircilla invited the participants and given brief introduction about the training programme to the farmers. Dr. R. Sathish, Assistant Professor, Department of Entomology, Agricultural College, Sircilla clearly explained about IPM, as an ecosystem approach in crop productionand protection that includes different management strategies (i.e. cultural, mechanical, physical, biological and chemical). IPM mainly aims including the practices to grow healthy crops with minimum use of chemical pesticides by reducing the adverse effects on human health, environment and non- target organisms.

Climate change-exploitation of insect pathogens

The guest faculty, Dr. G. Anitha, Senior Scientist, Dept. of Entomology, AINP on Biological Control, PJTSAU explained about the insect pathogens as disease-causing microorganisms that infect the insect pests eventually killing them. She also explained about the impact of climate change on insect pest population. On one side, warmer temperature lowers the effectiveness of some pesticides and on the other side, it favours insect carriers of many disease pathogens and natural enemies of pests and diseases.

Date: 17.02.2022

Fruit flies as pests of fruits and vegetables

Farmers from the adopted village, Narasimhulapally of Agricultural College, Sircilla attended the training programme. Dr. R. Sathish, Assistant Professor, explained about the importance, bio-ecology and different management practices for fruit flies damaging the fruits and vegetable crops. He also explained about importance of traps for monitoring of fruit flies, traps preparation, methodology and demonstrated practically.

Significance & guidelines for installation of pest monitoring devices

Dr. R. Sathish, Assistant Professor, explained the significance of pest monitoring devices like, Sex pheromone traps, sticky traps (blue, yellow & white), water pan traps, light traps, delta traps, bucket traps etc., and their usage in pest management to the farmers. Later, visited the College farm and demonstrated installation of different pest monitoring devices in the fields of groundnut, castor, mustard, sunflower, black gram, etc.

Date: 18.02.2022

Target group : Girl Students
Topic : Importance of fruits and vegetables in human nutrition

Girls students (22 Nos) from Zilla Parishad High School (ZPHS), Boppapur, Racherla Village, Yellareddypet Mandal, Rajanna Sircilla District have attended the training program. Mrs. K. Bhavya Sree, Assistant Professor, Department of Horticulture, Agricultural College, Sircilla invited all the students for the training programme. The Associate Dean, Dr. T. Uma Maheswari madam gave a brief introduction about the training programme to the students. The nutritive values of different fruits andvegetables and the deficiency symptoms of all the vitamins was discussed. The amount of fruits and vegetables to be included in daily diet according to ICMR standards was explained in detail. With the caption, “Add Colour To Your Diet” she elucidated the importance of intake of different coloured fruits and vegetables by displaying Red, Green, Blue, Purple, Orange, Yellow and White coloured fruits and vegetables.

Value addition of fruits and vegetables

Different value added products like RTS beverages, fruit juices, squash, jam, jelly, marmalade, vegetable pickles, fruit bars, sauces and ketchup were displayed and explained in detail about the importance of value addition. All the students tasted the products and expressed their interest in preparation of value added products.

Awareness on Bureau of Indian Standards, GoI.

In the afternoon session, Mr. Abhi and Mr. S. Venkatesh, Scientists from Bureau of Indian Standards have explained about the standards for the products that have to be checked before purchase like verifying license details, R-Number under CRS and quality through ISI mark. They also gave awareness regarding downloading of BIS CARE APP from play store to know the details.

Date: 19.02.2022

Target group : Women
Topic : Kitchen / Terrace Gardening Agriculture

Homemakers and farm women from Sircilla and Jaggaroapally (25 No's) attended the training program. Mrs. K. Bhavya Sree, Assistant Professor, gave brief introduction about the training programme and proceeded with the importance of growing chemical free, own food at their own placethrough Kitchen / Terrace and Vertical gardening. Different crops suitable for growing in terrace/vertical gardening, different types of containers and different media other than soil used for growing crops, compost preparation and use of organic fertilizers to the crops were discussed.

Terrace Gardening - Success story - Mrs. G. Swarupa

All the women visited the terrace garden model practiced by Mrs. G. Swarupa, resident of Sircilla. The home maker is successfully practicing the terrace gardening from 15 years and apart from getting fruits and vegetables for the family, she is now able to sell vegetable and fruits seeds through online marketing.

Date: 21.02.2022

Target group : Farmers
Topic : Desi varieties of rice-Significance
Farmers from Jillella village of Thangallapally mandal have attended the training programme and Dr. T. Arunbabu explained about green revolution in India where the Indian farmers have concentrated on the production of food grains by introducing the hybrids with application of high amount of inputs resulting in contamination of soil, environment and human health. This ultimately made farmers to realize the importance of the traditional varieties of food crops. Rice being the stable food in India, he explained the importance and significance of desi rice varieties in terms of quality and benefits for achieving the national food security. Dr. Razia Sultana, Professor, Department of Genetics and Plant Breeding has explained the morphological traits of different desi varieties of rice and the process of seed production.

Visit to the Organic farm

In the afternoon session, Dr. T. Arunbabu along with the participants visited the farm, where all organic inputs used for rice cultivation at Vemulavada. The experienced farmer Sri. K. Srinivas garu interacted with the participants about the preparation of organic inputs by using the cow dung and cow urine etc. He also shown the various types of cows i.e. Ghir, Desi cow and punganuru etc. The farmers shown keen interest to cultivate the crops under organic practices.

Date: 22.02.2022

A green Success story - Cultivation of Rice desi varieties

Sri. M. Mallikarjun Reddy, Pedda Kurumapally village, Karimnagar is the only farmer from Telangana to receive Jagjivan Ram Abhinav Kisan Puruskar award from Indian Council of Agricultural Research (ICAR) for cultivating different types of crops through organic farming. Sri. M. Mallikarjun Reddy shared his experience in cultivating desi rice varieties and his journey towards the award winning achievement with all the participants. In the programme, farmers from Ghambhirao peta, Jillella and Thangalappali mandals (no. 36) had attended.

Marketing opportunities and health benefits of desi rice

Experienced farmers cultivating the desi rice varieties, Sri. M. Mallikarjun Reddy garu and Sri. K. Srinivas garu shared their views and discussed with all the particpants about the proposing of FPOs andfuture marketing channels for desi rice varieties. Few of the farmers took forward step for cultivatingthe desi rice in their own fields.


AGRICULTURAL COLLEGE, KUMULA

PROFESSOR JAYASHANKAR TELANGANA STATE
AGRICULTURAL UNIVERSITY

Certificate

This is to certify that Mr./Ms./ .....has attended Capacity Building Programme on "Sustainable Agricultural Technology" in ..... organized by Agricultural College, Sircilla from ..... to ..... This programme has been organized as part of National Science Day - 2022 celebrations, catalyzed & supported by Telangana State Council of Science & Technology (TSCOST) and National Council for Science & Technology Communication (NCSTC), GoI.

(MARUPAKA NAGESH)
MEMBER SECRETARY
TSCOST

(PROF. T. UMA MAHESWARI)
ASSOCIATE DEAN
AGRICULTURAL COLLEGE, SIRCILLA

Press Clippings

శిక్షణ కార్యక్రమం

సిరిసిల్లఅర్బన్: సిరిసిల్ల మున్సిపల్ పరిధి సర్దాపూర్‌లోని వ్యవసాయ కళాశాలలో తెలంగాణ రాష్ట్ర శాస్త్ర సాంకేతిక మండలి ఆధ్వర్యంలో విద్యార్థులు, రైతులకు వ్యవసాయంలోని సాంకేతిక పరమైన విషయాలపై శిక్షణ కార్యక్రమాన్ని సోమవారం ప్రారంభించారు. ఈ సందర్భంగా తెలంగాణ రాష్ట్ర శాస్త్ర సాంకేతిక మండలి సెక్రటరీ మారుపాక నగేశ్ మాట్లాడుతూ ఇట్టి శిక్షణ కార్యక్రమాలు వారం రోజుల పాటు కొనసాగుతాయని, రైతులు ఈ అవకాశాన్ని సద్వినియోగం చేసుకోవాలని సూచించారు. కార్యక్రమంలో నిర్వాహకులు సతీశ్, అరుణ్‌బాబు, భవ్యశ్రీ, కళాశాల సిబ్బంది తదితరులు పాల్గొన్నారు.

సాక్షి Tue, 15 February 2022
https://epaper.sakshi.

వర్మీ కంపోస్ట్ తయారీపై..

రైతులకు అవగాహన కల్పిస్తున్న ప్రొఫెసర్లు

సిరిసిల్లఅర్బన్: సిరిసిల్ల మున్సిపల్ పరిధి సర్దాపూర్‌లోని వ్యవసాయ కళాశాలలో తెలంగాణ రాష్ట్ర శాస్త్ర సాంకేతిక మండలి ఆధ్వర్యంలో వర్మీ కంపోస్ట్ తయారీ, దాని వలన కలిగే ఉపయోగాల గురించి రైతులకు అవగాహన కల్పించారు. తయారు చేసే విధానంపై ప్రయోగాత్మకంగా రైతులకు వివరించారు. కార్యక్రమంలో అసిస్టెంట్ ప్రొఫెసర్ అరుణ్‌బాబు, ఆసోసియేట్ డీన్ ఉమామహేశ్వరి పాల్గొన్నారు.

సాక్షి Wed, 16 February 2022
https://epaper.sakshi.

సమగ్ర సస్య రక్షణపై అవగాహన

అవగాహన కల్పిస్తున్న అసిస్టెంట్ ప్రొఫెసర్

సిరిసిల్లఅర్బన్: వ్యవసాయ సాగులో రైతులు సమగ్ర సస్యరక్షణ చర్యలు చేపట్టాలని వ్యవసాయ కళాశాల డీన్ డాక్టర్ ఉమామహేశ్వరి సూచించారు. వ్యవసాయ కళాశాల దత్తత గ్రామమైన నర్సింహుల పల్లెలో రాష్ట్ర శాస్త్ర సాంకేతిక మండలి ఆధ్వర్యంలో సమగ్ర సస్యరక్షణపై శిక్షణ కార్యక్రమాన్ని నిర్వహించారు. ఈ సందర్భంగా పంటలలో వచ్చే చీడ పీడలను నివారించేందుకు రసాయనిక ఎరువులు వాడకుండా సమగ్ర సస్య రక్షణ పద్ధతులను పాటించాలని రైతులకు అవగాహన కల్పించారు. పర్యావరణ సమతుల్యతను కాపాడుతూ సేద్య, భౌతిక, జీవ నియంత్రణ పద్ధతుల ద్వారా పంట దిగుబడి అధికంగా సాధించవచ్చన్నారు. రైతులకు దీపపు ఎరలు, లింగాకర్షణ బుట్టలు, జిగురు పూసిన ఎరల ప్రాముఖ్యత వాటిని ఏవిధంగా ఉపయోగించాలో ప్రయోగాత్మకంగా వివరించారు. కార్యక్రమంలో అసిస్టెంట్ ప్రొఫెసర్ సతీశ్, కళాశాల సిబ్బంది, రైతులు పాల్గొన్నారు.

సాక్షి Fri, 18 February 2022 https://epaper.sakshi

పోషకాహారంపై అవగాహన సదస్సు

అవగాహన కల్పిస్తున్న ప్రొఫెసర్లు

సిరిసిల్లఅర్బన్: సిరిసిల్ల మున్సిపల్ పరిధి నర్మాలపూర్‌లోని వ్యవసాయ కళాశాలలో తెలంగాణ రాష్ట్ర శాస్త్ర సాంకేతిక మండలి ఆధ్వర్యంలో విద్యార్థులకు పోషకాహారంపై అవగాహన సదస్సును శుక్రవారం నిర్వహించారు. ఎల్లారెడ్డిపేట మండలం బోప్పాపూర్‌లోని జెడ్పీహెచ్ఎస్ విద్యార్థులకు పండ్లు, కూరగాయాలను తినడం వల్ల కలిగే లాభాల గురించి అవగాహన కల్పించారు. వివిధ రకాల పండ్లు, కూరగాయాలను ప్రదర్శిస్తూ వాటి పోషక విలువలు, ఉపయోగాల గురించి వివరించారు. సంపూర్ణ ఆరోగ్యానికి పౌష్టికాహారం ఎంతో అవసరమని, దీనివల్ల రోగ నిరోధక శక్తి పెరుగుతుందన్నారు. కార్యక్రమంలో కళాశాల అసోసియేట్ డీన్ ఉమామహేశ్వరి, ప్రొఫెసర్లు భవ్యశ్రీ, అరుణ్‌బాయి, సతీశ్ పాల్గొన్నారు.

సాక్షి Sat, 19 February 2022 https://epaper.sakshi.

<u>Seminar on "Technological Interventions in Irrigation Sector"</u>
<u>On the occasion of on National Science Day (NSD-2022) on 28-02-2022</u>

Water and Land Management Training and Research Institute (WALAMTARI)

WALAMTARI has celebrated **National Science Day (NSD-2022) on 28th February 2022** with the theme '**Integrated Approach in Science and Technology for a Sustainable Future**' to commemorate the exemplary scientific achievements of the great Indian Scientists Noble Laureate Sir C.V. Raman for the Raman effect, which brought him the Nobel prize in Physics. Honoring a scientist like him instills hope in future generation to pursue their dreams and make a mark in the world of science and technology.

On this auspicious Occasion of **National Science Day (NSD-2022)** which is celebrated every year on 28th February**,** WALAMTARI has organized a Seminar on **"Technological Interventions in Irrigation Sector"**. The Seminar was intended to identify the latest technological Advancement in Water and Land Resources, increase in Water Use Efficiency, soil Moisture Monitoring, Water Quality Monitoring and more crops per drop of water as well as restore the fragile eco-system for Reducing Poverty and Sustainable Economic Development.

This seminar is Catalyzed and Supported by National Council for Science & Technology Communication (NCSTC), Department of Science & Technology (DS&T), Govt. of India & Telangana State Council for

Science and Technology (TSCOST) Dept. of Environment Forests Science & Technology (EFS&T), Government of Telangana.

The Seminar was chaired by Chief guest Dr. Rajat Kumar, IAS garu, Special Chief Secretary, I & CAD Department, Guest of Honours Sri. M. Nagesh garu, Member Secretary, TSCOST, EFS&T Department & Sri.V.Prakash Rao garu, Chairman, TWRDC and Guest Speaker: Sri.Avinash garu, from Bureau of Indian standards.

The Seminar was also led by WALAMTARI officials.
Director General: Er. Z. Srinivasa Rao, Director Engineering and Administration: Er. P.V. Nagender , Director (Agriculture & Research) : Dr.B. Krishna Rao, Course Coordinator: Er.P. Ravindra Reddy, Executive Engineer (O&M), Executive Engineer (H) : Er. G. Ganeshwar Reddy, Executive Engineer / Administrative Officer : Er. M.Nageswara Rao, Asst. Course Coordinator : Er.G.Aishwarya Rani, A.E.E

Presentations given by:

1) Er. Osama Fahim, AEE, I & CAD Dept on topic "Conjunctive use of Surface and Groundwater."
2) Er. B. Sravan Kumar Bejjanki, AEE I& CAD Dept on topic "Mine Craft Weir".
3) Dr.Kada Siddappa M.M., Asst. Professor Department of Agronomy PJTSAU, Hyderabad on topic "Determination of yield, crop coefficient and water productivity of Maize and sunflower under Drip Irrigation in Semi-arid Region of Telangana".
4) Dr. K.Kishan, Teaching Associate, Agriculture Department, College of Agricultural Engineering, Kandi Sangareddy Telangana on topic " Conjunctive Use Planning of Surface and Ground Water Resources".
5) Er. T. Divya Jyothi, AEE, I& CAD Dept on topic "SCADA (Supervisory control and Data Acquisition) communication in Irrigation System".

After the Seminar presentations of the Participants, Prizes were declared by the Seminar Evaluation Team, comprising of WALAMTARI officials Director General, Director (E&A), Executive Engineer(O&M), Executive Engineer(H), Administrative Officer.

Ist Prize was tie between Er. Osama Fahim, AEE, I & CAD Dept on topic "Conjunctive use of Surface and Groundwater." & Dr. Kada Siddappa M.M., Professor Department of Agronomy PJTSAU, Hyderabad. On topic "Determination of yield, crop coefficient and water productivity of Maize and sunflower under Drip Irrigation in Semi-arid Region of Telangana". Ist Prize winners were given Certificate with Mementos and all the remaining participants were given only participation Certificates.

WATER AND LAND MANAGEMENT TRAINING AND RESEARCH INSTITUTE

(WALAMTARI)

CERTIFICATE OF PRESENTATION

This is to certify that Mr./Ms. _____, _____ has presented a paper entitled "_____" in the Seminar on "Technological Intervention in Irrigation Sector" on the occasion of National Science Day organized by **WALAMTARI**, I&CAD Department, Government of Telangana, Hyderabad & catalyzed and supported by **NCSTC, DS&T, Govt. of India and TSCOST, Dept. of EFS&T,** Government of Telangana on 28th February, 2022

(G. AISHWARYA RANI)	(P. RAVINDRA REDDY)	(P.V. NAGENDER)	(Z. SRINIVASA RAO)
AEE (O&M)	EE(O&M)	Director (E&A)	Director General

Two Day Seminar on Water for Smart Livable Cities with a special theme on Water Resources & Large Scale Water Management

16-17, March 2022

Institute of Science and Technology, Jawaharlal Nehru Technological University Hyderabad, Kukatpally, Hyderabad

The Centre for Water Resources, Institute of Science and Technology, JNTUH organized Two Day Seminar on Water for Smart Livable Cities with a special theme on Water Resources & Large Scale Water Management to take stock of the current status of applications in water resources developmentand management and also to identify areas most relevant to ensure sustainable development of water resources and environment to benefit the society at large.

The response to the brochure/circular/emails was overwhelming about 115 participants registered for the seminar. The inaugural function of 2 day seminar was honored by Chief Guest Prof. K. Narasimha Reddy, Vice-Chancellor, Jawaharlal Nehru Technological University Hyderabad (JNTUH). Guest of Honor for the inaugural function was Dr. Pandith Madhunure, Director, Ground Water Department, Dr R.N. Sankhua Chief Engineer, National Water Development Agency, Sri. Marupaka Nagesh, Member Secretary – TSCOST. The presidential address was given by Dr. Sasikala, Director, Institute of Science and Technology, JNTUH and a preface note on seminar was given by Dr. M.V.S.S.Giridhar, Coordinator, Head, CWR, IST, JNTUH.

During the Inaugural function Prof. Katta Narasimha Reddy elucidated on concepts of sustainability in the light of demand for greater urbanization. He emphasized on the immense potential on grey water reuse and need for appropriate treatment mechanisms that reduces burden on fresh water requirement. Sri. Marupaka Nagesh, MS, TSCOST threw light on future scope in the domain of water resources and also elaborated on programs being initiated by the Government of Telangana to conserve the water.

Prof.R.N.Sankhau spoke on interlinking of rivers in our country, prospects there on. There was specific focus on rivers of southern India like Krishna, Godavari, Penna among others. Dr.Pandith Madhnure discussed on ground water resource management and its availability. He stressed that the depletion of water levels in the recent times is a major concern and should be highlighted among future technocrats that will redress the problem at hand.

Prof. Venkat Raju shared his views on practical applications in areas of Remote sensing &GIS involving numerous hydrological problems. He emphasised the importance of upgrading basic engineering education to meet the needs of the industry and the utility of GIS in various fields such as commuting, transportation etc and how GIS has revolutionised even a common man.

Prof. Sasikala discussed on the need to prudently use water resources. She emphasized the need to change in mind sets and attitude about the judicious utilisation of available water resources which has to be developed among all citizens for a better tomorrow. Sri PVK Kalyan Srinivas spoke on the need to have sound fundamentals in every domain which would facilitate industrial practice. Prof. Sarala spoke about the achievements of the centre for water resources department and also emphasized on the steps taken to conserve the rain water on JNTU campus and the role of rain water harvesting.

The 2 day seminar on Seminar on Water for Smart Livable Cities with a special theme on Water Resources & Large Scale Water Management is focused on its attention on various themes such as

1. Groundwater mapping, monitoring and modeling
2. Protection of groundwater quality and quantity
3. Governance ,management and institutional arrangements
4. Surface water monitoring systems and models
5. Protection of surface water quality and quantity
6. Pollution from point sources – agriculture, industry, urban
7. Water stress, droughts and floods, including impact of climate change,
8. Large-scale nature-based solutions and biodiversity
9. Water rights, trading and partnerships
10. Water resource management and adaptation to climate change impacts,
11. Life cycle assessment, water efficiency, water footprint, virtual water, etc.,
12. Planetary boundaries and science of sustainability
13. Water resource management towards Sustainable Development Goals (SDGs)
14. Challenges and progress towards achieving the Sustainable Development Goals

The technical session was followed by the Inaugural function. Professors and practising engineers have spoken out on the need of recognising and mitigating the problem of ground water depletion caused due to growing urbanisation. They emphasised on the utility of new technologies such as Remote Sensing and GIS platforms that makes this more effective. They highlighted that the solutions need to be sustainable, and cost-effective. In essence the underlying focus was on the critical necessity to recognise water as a scarce resource in the first instance and the efforts needed to conserve it for the survival of all living forms including human in the future.

Finally, the program concluded with the Valedictory function. The Chief Guest for the function was Dr. G.K Viswanadh, Director, UGC-HRDC, JNTUH, welcome address by Dr.M.V.S.S. Giridhar, Professor and Head, Centre for Water Resources, IST, JNTUH, Presidential address by Dr. Ch. Sasikala, Director, Institute of Science and Technology, JNTUH and vote of thanks by Dr. C. Sarala, Professor, CWR, IST, JNTUH.

Dr G K Viswanadh appreciated and congratulated IST for their continuous efforts in organising several seminars and conferences with special focus Research oriented programs. He specially appreciated the

faculty of Centre for Water Resources Dr M.V.S.S Giridhar and Dr C. Sarala for their untiring efforts in conducting the programs which have a lot of relevance in the current scenario of water scarcity looming across that resulted due to urbanization. He also emphasized on conjunctive approach byusing the upcoming technologies such as Geomatcis, Internet of Things (IOT) and Artificial Intelligence(AI) to manage the existing resources which is highly required for better standards of living. He emphasized on the non uniformity in the availability of water with time and space that needs to be carefully addressed by proper water resource management at individual as well as local levels.

He discussed that the knowledge on IS Codes plays a significant role in the construction industry and strictly adhering to the codes ensures safety to occupants as well structures. He emphasized on sustainability and the economic prospects which needs to be embedded in the construction field for a better future. He also shared his views on the significance of high rise structures specially focused on the high rise hospitals and their relevance to cater to the needs of the current population growth and their demands by keeping in view of their availability of the resources in mind. Finally, he has concluded that Internet of things and AI plays a significant role in managing the resources needed for smart cities and infrastructure demands from the ever increasing population.

నమస్తే తెలంగాణ

వీసీ కట్టా నరసింహారెడ్డికి జ్ఞాపికను అందజేస్తున్న నీటివనరుల విభాగం అధిపతి గిరిధర్

స్వచ్ఛమైన గాలి.. నీరు కావాలి

జేఎన్‌టీయూహెచ్ వీసీ నరసింహారెడ్డి

కేపీహెచ్‌బీ కాలనీ, మార్చి 16 : నగరాలు నివాసయోగ్యంగా ఉండాలంటే స్వచ్ఛమైన గాలి-నీరు అందుబాటులో ఉండాలని, వీటికోసం తెలంగాణ ప్రభుత్వం చేస్తున్న కృషి గొప్పదని జేఎన్‌టీయూహెచ్ వైస్ చాన్స్‌లర్ కట్టా నరసింహారెడ్డి అన్నారు. బుధవారం పర్సిటీ ఐఎస్‌టీ, నీటి వనరుల విభాగం ఆధ్వర్యంలో వాటర్ ఫర్ స్మార్ట్ లివబుల్ సిటీస్ విత్ ఏ స్పెషల్ టీమ్ ఆన్ వాటర్ రిసోర్స్ అండ్ లార్జ్ స్కేల్ వాటర్ మేనేజ్‌మెంట్ అన్న అంశంపై సదస్సు నిర్వహించారు. ఈ సదస్సుకు ముఖ్య అతిథులుగా వైస్ చాన్స్‌లర్ కట్టా నరసింహారెడ్డి, గ్రౌండ్ వాటర్ డిపార్ట్‌మెంట్ డైరెక్టర్ పండిత్ మధుర్నే, ఎన్‌డబ్ల్యూడీఏ చీఫ్ ఇంజినీర్ ఆర్.ఎన్.సన్‌కుహా, ఎస్‌ఐటీ డైరెక్టర్ శశికళ, నీటి వనరుల విభాగాధిపతి ఎంవీఎస్‌ఎస్ గిరిధర్ పాల్గొన్నారు. ఈ సందర్భంగా వారు మాట్లాడుతూ... హైదరాబాద్ నగరంలో నాటి నుంచే అద్భుతమైన నీటి వనరులు ఉన్నాయని అన్నారు. తెలంగాణ రాష్ట్ర ముఖ్యమంత్రి సీఎం కేసీఆర్ మిషన్ భగీరథ, మిషన్ కాకతీయ లాంటి పథకాలతో నీటి వనరులను పెంపొందించే కార్యక్రమాలు చేపడుతున్నారని పేర్కొన్నారు. నగరంలో పెరుగుతున్న జనాభాకు అనుగుణంగా తాగునీటిని అందించేందుకు కృష్ణా, గోదావరి జలాలను తీసుకొస్తున్నారని కొనియాడారు. నగరంలో ప్రజలు జీవించాలంటే స్వచ్ఛమైన గాలి, తాగునీరు అవసరమని, వీటికోసం ప్రభుత్వం చేస్తున్న కృషి అభినందనీయమని అన్నారు. కార్యక్రమంలో అధ్యాపకులు, విద్యార్థులు పాల్గొన్నారు.

Date : 17/03/2022 EditionName : Hyderabad PageNo : Page 11

One Day National seminar on

Medicinal Botany in Drug Discovery: A Modern Perspective

On 22-02-2022 on the Occasion of **NATIONAL SCIENCE DAY-2022**

Department of Botany, Osmania University

Theme of the Seminar

Plants have been utilized as medicines for thousands of years. These medicines initially took the form of crude drugs such as tinctures, teas, poultices, powders, and other herbal formulations. The specific plants to be used and the methods of application for particular ailments were passed down through oral history. Eventually information regarding medicinal plants was recorded in herbals. In more recent history, the use of plants as medicines has involved the isolation of active compounds, beginning with the isolation of morphine from opium in the early 19th century. Drug discovery from medicinal plants led to the isolation of early drugs such as cocaine, codeine, digitoxin, and quinine, in addition to morphine, of which some are still in use. Isolation and characterization of pharmacologically active compounds from medicinal plants continue today. More recently, drugdiscovery techniques have been applied to the standardization of herbal medicines, to elucidate analytical marker compounds.

Drug discovery from medicinal plants has evolved to include numerous fields of inquiry and various methods of analysis. The process typically begins with a botanist, ethnobotanist,

ethnopharmacologist, or plant ecologist who collects and identifies the plant(s) of interest. Collection may involve species with known biological activity for which active compound(s) have not been isolated (e.g., traditionally used herbal remedies) or may involve taxa collected randomly for a large screening program. It is necessary to respect the intellectual property rights of a given country where plant(s) of interest are collected.

Phyto chemists (natural product chemists) prepare extracts from the plant materials, subject these extracts to biological screening in pharmacologically relevant assays, and commence the process of isolation and characterization of the active compound(s) through bioassay-guided fractionation. Molecular biology has become essential to medicinal plant drug discovery through the determination and implementation of appropriate screening assays directed towards physiologically relevant molecular targets. Pharmacognosy encapsulates all of these fields into a distinct interdisciplinary science. Through the deliberations of this seminar, we will disseminate the importance of modern interventions in medicinal botany that are essential in the drug discovery from the plant sources.

Brief Report of the seminar

The program started with a prayer song and lamp lightening. For the Inaugural session, Prof. B. Ramadevi, Chairperson, BOS Department of Botany, moderated the session, and Prof. A. Balakishan, Dean, Faculty of Science UCS, Osmania University, was the Chief Guest. He spoke about the importance of medicinal botany in drug discovery with live examples. He shared his experience with plant-based medicine in the management of various diseases.

The guest of Honor-Prof. B. Veeraiah, Principal, UCS, Osmania University, shared his childhood experience and how the village medical practitioners use herbs to treat seasonal diseases. He stressed the importance of plant-based medicine in the corona pandemic. The special Invitee and Key Note Speaker, Prof. T. Pullaiah, UGC BSR Faculty Fellow, Department of Botany, Sri Krishnadevaraya University, Anantapur, has motivated the mass with his profound knowledge about medicinal plants and his association with the herbs. Prof. P. Kamalakar, Head of the Department of Botany, and Prof. B. Ramadevi, Chairperson, BOS Department of Botany, also shared their experience on plant research and various biological hotspots of the world.

Later, Dr. E. Sujatha, Associate Professor Department of Botany, and Organizing Secretary of the seminar addressed the gathering about the theme and the lacuna in the herbal drug technology and drug discovery from plants. She also stressed the responsibilities of the students, especially the young botanists, in the conservation of flora.

Prof. T. Pullaiah, UGC BSR Faculty Fellow, Department of Botany, Sri Krishnadevaraya University, Anantapur, has given the keynote address to the gathering through PowerPoint presentation and have shared the importance of various plants of India with the habitat. He motivated the students about the importance of documentation and the problems we have faced with neem and turmeric patents. Dr. A. Sabitha Rani, Associate Professor Department of Botany, has moderated the session.

After the Tea break, in the second session, Dr. K. Suresh Babu, Sr. Principal Scientist, Natural Products Laboratory, CSIR-IICT, Hyderabad, has given an excellent lecture on the various steps and challenges in drug discovery. He also explained the importance of standardization of herbal formulation, different standardization methods, and personal experiences with adulteration practices. Dr. K. Shailaja, Associate Professor, Department of Botany, has moderated the session.

In the third session, the speaker was Dr. J. Kotesh Kumar, Principal Scientist, CSIR-CIMAP, Hyderabad. He has shared the various high-yielding varieties of Importance Indian medicinal plants that give high yields of secondary metabolites and the technologies developed by CIMAP-Hyderabad. He also stressed the importance of patenting and documentation of the research. Dr. B. Kiran Kumar, Assistant Professor, Department of Botany was the moderator.

In the fourth session, Dr. B. Sadasivaiah, Assistant Professor in Botany, Dr. BRR Govt. College, Jadcherla Mahbubnagar, Telangana, was the speaker. He has motivated the students with the unsung heroes of plant conservation in India. He also created enthusiasm in plant research and conservation by sharing India's rare and new plants. Dr. Azeem Unnisa, Asst. Prof. , Department of Environmental Sciences has moderator for this session.

After tea break, in the fifth session, Officials from Bureau of Indian Standards, Hyderabad Branch, gave an introduction about the BIS and the importance of standards. They have also explained the mobile app for the awareness and complaints regarding the standards. In the valedictory session, Prof. G. Mallesham, Dean, Development and UGC affairs, UCS, Osmania University, was the Chief Guest and motivated the students about the commercialization if herbal knowledge to be self-reliant

Sri M. Nagesh, Member Secretary, TSCOST, Hyderabad was the Guest of Honor and have shared the commitments of the government to support these awareness programs. He also motivated students with his experience in herbal medicine and the opportunities for the students in the herbal-based industries. Prof. P. Kamalakar, Head, Department of Botany, acknowledged the organizer and speakers for the wonderful sessions and the supporting funding agencies and motivators for the support. Prof. B. Ramadevi, Chairperson, BOS Department of Botany, has also shared her views. Dr. E. Sujatha, Associate Professor, Department of Botany & Organizing Secretary of the seminar, has congratulated and felicitated all the speakers, chief guests, guest of honors, TSCOST, and other supporting agencies for the success of the event. Later the session has ended with National anthem.

National Seminar on "Emerging Trends in Chemical and Materials Science Research"

Department of Chemistry,

SR & BGNR Govt. Arts & Science College (A) Khammam

The programme was inaugurated by paying rich tributes to the science wizard Sir C.V. Raman the first Science Nobel Laureate of India. The days was commemorated thediscovery of Raman Effect using the available simple optical instruments on 28th February, 1928. Of late the Raman effect is used to analyze a wide range of materials, including gases, liquids, and solids. The Raman spectroscopy can analyze highly complex materials such as biological organisms and human tissue.

The Seminar provided an excellent learning platform to the enthusiastic scholars from various institutions, universities, faculty members and rural students in and around Khammam district, to interact with researchers and Professors of eminence of reputed institutes like CSIR-IICT- Hyderabad, IITM, NIT-Warangal, NIPER-Hyderabad, Central University of Gujarat-Gandhinagar, Osmania University, Krishna University, Kakatiya University, Yogi Vemana University, Vignan's VFSTR, Guntur. This National Seminar is the first national level programme, organised under the auspices of the Department of Chemistry ever since the establishment of this institution. It paved way to the students of Khammam district to have good exposure, interaction and scientific temperament. More so ever by organizing this sort of activity, the institute was able to draw the attention of the philanthropists who helped in the development of the college and there by encouraged the students very well. The highlights of the seminar are as under:

1) The interaction with the reputed Scientists, Professors, Researchers, Entrepreneurs, Industrialists and technologists enhanced their skills, knowledge, and evinced research interests among students and also faculty of Khammam district.

2) Students and faculty learnt the synthesis of efficient drug to cure and control the non-infectious and infectious diseases by developing innovative methods of drug delivery and new approaches to treating diseases.

3) The influence of Nanotechnology on Traditional Medicine was debited. The combination of nanotechnology with traditional herbal medicine may provide a useful tool in designing future herbal medicine with improved bioavailability profile and less toxicity.
4) Diversity Oriented Synthetic Methodologies for the Molecules of Biological Interest were debited.

5) Development of new Methodologies using Bismuth (III) and Iron (III) salts as green catalysts were also presented and explained thoroughly.

6) Molecular Hybridization Approach: Accelerating the Design of New Anticancer Agents in Drug Discovery was discussed.

7) Development of a rapid and Cost-Effective and Feasible Method for the Evaluation of Vitamin D Deficiency Using Advanced Mass Spectrometry Based Methods was highlighted.

8) Design and Synthesis of Spiro heterocyclics as Potent Anticancer and Antitubercular Agents, and Temperature and Co-ordination Dependent Superhydrophobic MOFs for Gas Separation and Oil Spills Cleanup Applications were explained and discussed at length.

9) The synthesis, structures, characterizations, properties and applications those novel SPCPs were discussed.

10) Advancement of Nanomedicine in Cancer Therapy was presented minutely.

11) Design and Synthesis of some Novel Heterocyclic Compounds and their Biological Evaluation were explained in detail. To have first hand information.

12) Synthetic Strategy – The Disconnection Approach was explained very well.

13) The organic Materials based on Hetero Polycyclic Aromatic Hydrocarbons for Organic Thin-Film Transistors Applications were discussed.


National Science Day Celebrations-2022
A two day National Seminar on
"Emerging Trends in Chemical and Materials Science Research"
25th & 26th FEBRUARY, 2022


Synthesis of novel 1,3,4-oxadiazole derivatives and their biological properties

రసాయనిక శాస్త్ర ఆవశ్యకత పెరిగింది

సావనీర్‌ను ఆవిష్కరిస్తున్న దృశ్యం

ఖమ్మంఖానాపురం హవేలీ, ఫిబ్రవరి 25: 21వ శతాబ్దంలో రసాయనిక శాస్త్ర ఆవశ్యకత పెరిగిందని హైదరాబాద్ సీఎస్ఐఆర్-ఐఐసీటీ సీనియర్ ప్రిన్సిపాల్, శాస్త్రవేత్త డాక్టర్ కే.సురేష్‌బాబు అన్నారు. సైన్స్ వారోత్సవాల సందర్భంగా నగరంలోని ఎస్సార్&బీజీఎన్నార్ కళాశాల రసాయనశాస్త్ర విభాగం ఆధ్వర్యంలో ప్రిన్సిపాల్ డాక్టర్. మహమ్మద్ జాకీరుల్లా అధ్యక్షతన శుక్రవారం జరిగిన ఎమర్జింగ్ ట్రెండ్స్ ఇన్ కెమికల్ అండ్ మెటీరియల్స్ సైన్స్ రీసెర్చ్ అనే అంశంపై నిర్వహిస్తున్న రెండు రోజుల జాతీయ సెమినార్‌లో ఆయన ముఖ్య అతిథిగా పాల్గొని మాట్లాడుతూ 21వ శతాబ్దిలో మారుతున్న ఆహారపు అలవాట్లు, వాతావరణంలో జరుగుతున్న మార్పుల వల్ల అనేక రుగ్మతలు కలుగుతున్నాయన్నారు. దీనివల్ల వైరస్‌లు విజృంభిస్తున్నాయని, వీటిని అరికట్టేందుకు రసాయనశాస్త్రం భిన్నరూపాల్లో కీలకపాత్ర పోషిస్తున్నదని సురేష్‌బాబు పేర్కొన్నారు. ఈ సెమినార్‌లో కేయూ కెమిస్ట్రీ విభాగం శాఖాధిపతి జీ. బ్రహ్మేశ్వరి, కేయూ కెమిస్ట్రీ ఛైర్మన్ ప్రొఫెసర్ వాసుదేవరెడ్డి, ప్రొఫెసర్లు ఎం,శంకరయ్య, డాక్టర్. బీ. ఈశ్వరయ్య, బీ. మురళీధరరెడ్డి, ఎం.సుబ్రహ్మణ్యం, సదస్సు కన్వీనర్ డాక్టర్ రమేష్, రవిమారుత్, కేఎస్. రత్నప్రసాద్, డాక్టర్.కే.సీతారాం తదితరులు పాల్గొన్నారు.

National Seminar on "Recent Trends in Electronics (NSRTE-2022)

Department of Physics, South Campus, Telangana University, Kamareddy.

The program started with welcoming the guests by Dr. Haritha Lakkaraju, Co-convener of the seminar. The program was officially started by lighting of the lamps by the guests followed by prayer song sung by students. The welcome address was delivered by Dr. G. Lalitha, Co-chairman of the seminar. She introduced Department of Physics and the activities of the staff and students.

Later, the convener of the program Dr. N. Mohan Babu, explained about the theme of the seminar and also thrown light on the importance of Electronics in daily life. He mentioned topics. He emphasized that electronic devices has become an integral part of daily life and it has become difficult to exist without them. It has been observed that Robots,Drones and Artificial intelligence is replacing humans in major works and wished that the deliberations will be fruitful and the participants would be benefitted.

Then, the Principal of South Campus, Telangana University Dr. K. Lavanya wished the students all the best and shared her experiences with physics and emphasized the importance of Electronics in student's life. She expressed that these type of seminar will impart knowledge to the research scholars and students.

The distinguished speaker Dr. M. Chandrasekhar from IIT, Hyderabad also addressed the gathering and appreciated the efforts the organizers and gave his wishes to the success of the conference. He also thanked the convenor of the conference for inviting him to give the talk. Another speaker Dr. M. Chandresekhar from BDL, Hyderabad highlighted the importance of seminar topic in the current scenario and requested the Vice-chancellor to sanction funds to improve the Electronics Labs. One more speaker Dr. K. Vijay Kumar Gupta from Kwality Photonics, Hyderabad has given the real time examples of electronics and shown a model of UV disinfectant light which kills Carona virus. He spoke about the history of LED's.

The chief guest of the function Prof. D. Ravinder, Vice-Chancellor, TU addressed the gathering. In his speech, sir explained the importance of Electronics in real life. He appreciated the convenor for inviting renowned personalities as speakers. He appealed to the students to get benefit of the seminar. He also promised to help the Department of Physics in all possible ways.

The first technical session has started with the address of Mr. K. Vijay Kumar Gupta. He has explained elaborately about the history of LED and applications of LED. He also explained the manufacturing process flow of LED. He also emphasized on bin sorting and packing of LED and also focussed on typical LED spectra. The post lunch session was started with talk by Dr. M. Chandrasekhar, IIT Hyderabad. He has explained about the spintronic devices for memory and logical applications. Sir has started his talk with the introduction of magnetic materials, their history and classification. He involved the students into the lecture and explained the origin of spintronics and how they revolutionized the data storage. Sir, motivated the students to do research especially in the field of spintronics. There was a poster session by the scholars and students of the

that the seminar is targeted to cover recent trends of Electronics broadly and its related

department and other colleges. They have presented their work and interacted with the speakers. The audience also clarified their doubts by speaking in person.

Dr. M. Chandrasekhar from BDL, Hyderabad has given a view of research going on in the field of Electronics. Sir has explained how the technology has developed from past to present and how it is useful in day to day life. He discussed the development in speed and size of the electronic devices.

The program has come to an end with valedictory session. Dr. N. Mohan Babu, Convenor has presented the overall report of the seminar. The participants have given their feedback and said they got utmost benefit from the lectures in the seminar. Certificates were distributed to the registered participants of the seminar. The program has come toan end by vote of thanks by Dr. N. Mohan Babu.

నానో టెక్నాలజీతో ఉజ్వల భవిష్యత్తు

భిక్కనూరు, న్యూస్‌టుడే: భవిష్యత్తులో నానో టెక్నాలజీ, సౌర విద్యుత్తు రంగాల్లో మెరుగైన ఉద్యోగావకాశాలు ఉన్నాయని తెవివి ఉపకులపతి రవీందర్‌గుప్తా అన్నారు. భిక్కనూరు తెవివి దక్షిణ ప్రాంగణం ఫిజిక్స్ విభాగంలో ఎలక్ట్రానిక్ రంగంలో నూతన పోకడలు అనే అంశంపై మంగళవారం జాతీయ సెమినార్ నిర్వహించారు. ముఖ్యఅతిథిగా ఉపకులపతి హాజరై మాట్లాడారు. నేటి సమాజంలో ఎలక్ట్రానిక్స్ పాత్ర కీలకమైందన్నారు. ఫిజిక్స్ విద్యార్థులకు పరిశోధనల్లో మెరుగైన అవకాశాలున్నాయని పేర్కొన్నారు. చదువుకునే సమయంలోనే విద్యార్థులను ఇంటర్న్‌షిప్‌కు ఎంపిక చేసి క్షేత్రస్థాయిలో భౌతిక శాస్త్రం అనుభవాలను అందిస్తామని క్వాలిటీ ఫొటానిక్స్ కంపెనీ డైరెక్టర్ డా. విజయ్‌కుమార్ అన్నారు. ప్రిన్సిపల్ డా. లావణ్య, డా. చంద్రశేఖర్, విభాగాధిపతి లలిత, కన్వీనర్ మోహన్‌బాబు, హరిత పాల్గొన్నారు.

జాతీయ సెమినార్‌లో పాల్గొన్న తెవివి ఉపకులపతి రవీందర్‌గుప్తా. ప్రిన్సిపల్ లావణ్య తదితరులు

పరిశోధనలకు నిధులు ఇస్తాం

సెమినార్‌లో పాల్గొన్న వైస్ చాన్సలర్ రవీందర్‌గుప్తా

భిక్కనూరు: పరిశోధనలు చేసేందుకు విద్యార్థులు ముందుకొస్తే అందుకు అవసరమైన నిధులు మంజూరు చేస్తామని తెలంగాణ యూనివర్సిటీ వైస్‌ఛాన్సలర్ రవీందర్‌గుప్త అన్నారు. మంగళవారం భిక్కనూరులోని తెయు సౌత్‌క్యాంపస్‌లో భౌతిక శాస్త్ర విభాగం ఆధ్వర్యంలో నిర్వహించిన జాతీయ సెమినార్‌లో ఆయన పాల్గొని మాట్లాడారు.

మారుతున్న కాలానికి అనుకూలంగా పరిశోధన రంగంలో విద్యార్థులు తగిన మెళకువలు పాటించాలని సూచించారు. ప్రస్తుతం టెక్నాలజీ రంగంలో ఎలక్ట్రానిక్స్ పాత్ర ఎంతో గొప్పదన్నారు. పరిశోధన రంగంలో విద్యార్థులకు అవకాశాలు మెండుగా ఉన్నాయని నానో టెక్నాలజీ సౌర విద్యుత్ రంగాల్లో మెరుగైన ఉద్యోగ అవకాశాలు ఉన్నాయన్నారు. క్వాలిటీ ఫొటోనిక్స్ డైరెక్టర్ విజయ్‌కుమార్ మాట్లాడుతు భౌతికశాస్త్రం నందు పరిశోధనలు చేయాలని సూచించారు. భారత్ డైనమిక్ లిమిటెడ్ మిధాని సీనియర్ మేనేజర్ చంద్రశేఖర్ మాట్లాడుతు విద్యార్థులు మారుతున్న కాలానికను గుణంగా నైపుణ్యాన్ని పెంపొందించుకోవాలని సూచించారు. కార్యక్రమంలో ప్రిన్సిపల్ లావణ్య, హెచ్‌వోడీ లలిత, ఆచార్యులు డాక్టర్ లలిత, మోహన్‌బాబు, హరిత, నాగరాజు, విజయ్‌కుమార్‌లు పాల్గొన్నారు.


29/03/2022


NATIONAL SEMINAR
ON
RECENT TRENDS IN ELECTRONICS
(NSRTE - 2022) 29th March 2022
CHIEF PATRON
Prof. D. Ravindar
PATRON
Prof. K.Shivshankar
Speakers:
29/03/2022


NATIONAL SEMINAR
ON
RECENT TRENDS IN ELECTRONICS
(NSRTE - 2022) 29th March 2022
CHIEF PATRON
PATRON
Prof. K.Shivashankar
Speakers
29/03/2022


RECAP
LED STRUCTURE: TRADITIONAL

One Day Symposium on
RECENT ADVANCES IN SCIENCE FOR SUSTAUNABLE FUTURE (RASSF-2022)

Organized on the occasion of National Science Day on 28-02-2022

University College of Science, Satavahana University ,Karimnagar

The University College of Science, Satavahana University, Karimnagar have successfully organized one day symposium on "Recent advances in science for sustainable future (RASSF-2022) on 28-02-2022.

The Inaugural session started with lightening of lamp by the Chief guest Prof. Mallesh, key note addresse Prof N.Lingaiah, guest speaker Dr. Ananthan, Distinguished speaker Prof S.Srihari, President of function Dr A.jeyanthi Principal UCSc. Programme started with Welcom addresse by president about science day importance and seminar introduction. Convenor of seminar gave brief note on seminar proceedings, celebration of science day on the discovery of Raman effect, creating awareness among people on recent advances in science for a sustainable life, how technology is applying as imp role in medical field, artificial intelligence, material science etc.

Dr N.lingaiah in his key note addresse gave a brief message on importance of Raman effect, how science in combination of other branches physics, biology, computer science, chemistry is promoting for betterment of life. He also spoke about present challenges in the society in the form of various diseases, and the drugs which were discovered. Dr Ananthan gave message on how pollution in the environment changing food habits, life style are creating hazardous health problems in our day to day life. Prof S. Srihari gave his message on importance of science day about Raman effect and motivated students to do research and develop innovative thoughts to discover new things for future generations. Finally Chief Guest of the programme Prof S.Mallesh gave his message on how science and philosophy are connected together ,how basic science from ancient times is contributing towards health and how research is progressing in every field for betterment of life. He also addressed students to develop interest in research and also a number of job opportunities are awaiting in every field to succeed themselves. Then we had felicitation programme to guests followed by prize distribution to the winners in essay competition, Quiz competitions followed by vote of thanks by Mr.D.Vijay Kumar.

Prof N. Lingaiah gave an excellent lecture on Indian Pharma Vision and its impact, present status of Indian Cancer report by W.H.O, importance of Open Source Drug Discovery towards anti-tuberculosis programme, role of IICT in Generics and health care.

His lecture started first with the importance of National Science Day and its objective to bring awareness to the people about the scientific applications in their daily life. Also Raman effect was discovered with just spending 500rs which shows money is not a matter, mind is a matter. He spoke about the turnover of Indian pharma industry which was 30 billion rupees and after independence India developed 21 drugs of which 14 drugs developed by CSIR IICT.KUDOS CM9 was the first world Ayurveda drug discovered with no side effects. It is more effective in benign and malignant tumour treatment.

In the next session we had a lecture by Dr Ananthan Scientist NIN Hyd on Nutritional value of foods. He explained nutritional value of some foods like millets which are more suggested in place of rice due to their high fibre content , low glycemic index. He mentioned about different varieties of rice in the country which are providing macro and micro nutrients. Also he highlighted the importance of millets, other cereals like maize,ragi,which combat various non communicable diseases like hypertension, obesity cancer. Other aspects of his lecture include food composition table-2017,developed by NINwhich includes proximate components of various foods available in country. He also gave information on how malnutritution, deficiency of vitamins, proteins lead to T.B and other health disorders. India after green revolution increased crop production to meet the growing population but resulted in decrease in quality of food. He told the role of NIN in increasing quality in food providing all the nutrients essential for healthy life.

Prof. S. Sihari sir has delivered a lecture on Mossbauer Spectroscopy to the students and faculty on the eve of Science Day Celebrations. He explained the principle of Mossbauer spectroscopy ,recoil energy and the Doppler shift how it is related to recoil energy and the factors that influence the recoil energy. He also highlighted the distribution of energies of emitted and absorbed γ-rays and the energy associated with the γ-rays for absorption by the sample nucleus. He also explained the mossbauer experimental set up consisting of a) Source nucleus in continuous moton b) Sample nucleus c) Coolant d) Detector.

He has stressed on the presentation of mossbauer spectrum and the factors that influence the absorption of γ-rays by the sample which includes a)Resonance line shift from change in chemical environment (isomer shift or chemical shif) b)Quadrupole interactions by taking $Fe(CO)_5$ molecule c)magnetic interactions He has also focused more on applications of Iron and Tin compounds and explained the configurational information and diamagnetic nature of Sodium nitroprusside. He also explained the structural study of iron carbonyls namely $Fe(CO)_5$,$Fe_2(CO)_9$ and $Fe_3(CO)_{12}$..


UNIVERSITY COLLEGE OF SCIENCE
SATAVAHANA UNIVERSITY
Karimnagar, Telangana - 505 002
&
Telangana State Council of Science & Technology
Organizes
ONE DAY SYMPOSIUM
On
ECENT ADVANCES IN SCIENCE FOR SUSTAINABLE FUTURE
(RASSF-2022)
On the Occasion of National Science Day 28th February, 2022


ONE DAY SYMPOSIUM
On
(RASSF-2022)
Nagarapu
Convenor
V. Namratha


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Minor Research Project Entitled Phytoremediation of Fluoride

Mahatma Gandhi University, Nalgonda

Objectives

a) Preparation of Zr(IV)-loaded tamarind seed powder
b) Estimation of fluoride by SPANDS method after defluoridation of water using Zr(IV)-loaded tamarind seed powder
c) Studying the effect of pH, Incubation period & adsorbent dose on defluoridation of water
d) Optimization of the process using Response Surface Methodology by changing the factors which effect the defluoridation process

Scope of Work

The scope of the present study is to evaluate the use of zirconium loaded tamarind seed powder as adsorbent for removal of fluoride from water. Optimization of the dose required and the other parameters which are affecting the process will be investigated. The work would be statistically analysed by means of Response surface methodology.

Abstract

Fluorine, abbreviated as F, with only one stable isotope, fluorine-19 is a pale yellow gas made of diatomic molecules, F2, under ordinary pressure and temperature. Fluorine is the thirteenth most prevalent element in the Earth's crust. Fluorosis, a condition caused by high fluoride levels in water resources, has received a lot of attention over the last three decades all around the world. Over the years, India has achieved significant progress in moulding water availability. Higher concentrations can induce teeth mottling and even higher concentrations of fluoride can cause several serious health risks. Fluoride concentrations are rising in the environment, including water resources, as a result of growing urbanisation. Fluorosis is caused by a high quantity of fluoride in drinking water, which causes tooth enamel degradation and a variety of illnesses. The present study reports the fluoride uptake potential of Zr(IV)-loaded tamarind seed powder (Zr(IV)-SBP) from water. Zr(IV)-TSP was synthesized by loading Zr(IV) onto tamarind seed powder. Batch experiments were carried out to examine the monitoring factors for the uptake of fluoride onto the investigated adsorbent. Response surface methodology (RSM) was used for experimental designing and analyzing optimum conditions for defluoridation. The optimal pH and incubation period was determined based on RSM statistical optimization. RSM methodology was adopted for analyzing the concentration at which maximum

response which is fluoride removal takes place. The optimum conditions as analyzed by RSM are initial concentration, 0.99 mg/L; pH 5.41 and adsorbent dose, 11.24 g/L.

Results & Discussion

The effect of the prepared zirconium loaded tamarind seed powder (Zr-TSP) adsorbent at various doses, pH and incubation time was investigated and the amount of fluoride bound to the adsorbent was calculated. Various concentrations (in grams) of the biosorbent (0.25, 0.5, 0.75, 1.0, 1.5, 2.0, 2.5) were taken and incubated with fluoride containing water (10mg/L). This concentration of fluoride was taken as this is seen in many areas of Nalgonda district of Telangana state of India. The study reveals that the adsorbent concentration of 1.5 grams bound with the highest amount of the fluoride (38 %) in this study. Lowest amount of fluoride binding was seen bound at 0.25 grams of the prepared zirconium loaded tamarind seed powder (Zr-TSP). Based on the above observations, the amount of bioadsorbent taken for further studies was 1.5 g.

The effect of time course which is incubation time of binding was investigated and the amount of fluoride bound to the adsorbent was calculated. The data shows that 16 hrs of incubation showed 68% of binding of fluoride to this adsorbent. There was not much variation in the binding percentage of 16, 18 and 20 hours of incubation. Hence, 16 hrs of incubation was taken as optimum for highest binding of fluoride to Zr-TSP for further studies.

Lastly the effect of pH was investigated. It was found that neutral of slightly basic conditions (pH 7.0, 7.5 and 8.0) was optimum for binding of fluoride to the Zr-TSP adsorbent. Less amounts of fluoride were bound to the adsorbent at lower pH which was acidic. Neutral pH conditions favored the binding of the adsorbent to fluoride while acidic pH was not favorable for fluoride binding to this adsorbent. Based on the above obtained values, the RSM was used to statistically optimize the adsorption of fluoride to the adsorbent.

Conclusion: RSM methodology was adopted for analyzing the concentration at which maximum response which is fluoride removal takes place. The optimum conditions as analyzed by RSM are initial concentration, 0.99 mg/L; pH 5.41 and adsorbent dose, 11.24 g/L.

National Science Day – 2022 Celebrations on 23rd & 28th February, 2022

Department of Pharmaceutical Chemistry, Telangana University

Date: 23.02.2022

The Department of Pharmaceutical Chemistry, Telangana University has organized National Science Day on 23rd & 28th (2 days) and conducted POPULAR SCIENCE LECTURES PROGRAM. The program is catalysed and supported by DST, GoI, NCSTC, TSCOST & Dept.of EFS&T, Govt. of Telangana.

The Day-1 program forenoon session on 23rd February was inaugurated by Prof. Ravinder Dachepalli, Hon,ble Vice-Chancellor, Telangana University. Being a professor of Physics, he demonstrated about the impact of Raman Effect in contemporary S&T to the Students. Dr. Shireesha Boyapati (Chairperson of the organizing committee), Dr. Satyanarayana Mavurapu (organizing Secretary) and Dr. Chandra Sekhar Vasam (Program Coordinator) explained about the latest developments in basic and advanced research and the interdisciplinarity in the field of S&T.

Dr. G. Narahari Sastry, Director, CSIR-North Eastern Institute of Science & Technology (NEIST), Jorhat, Assam gave an invited lecture in the afternoon. He gave a lecture on 'Role of Artificial Intelligence and Machine Learning in Chemical and Pharmaceutical Sciences'. Indeed, it is an advanced, interdisciplinary and interesting topic for both students and faculty. The department of Pharmaceutical Chemistry is now intended to introduce 'Artificial Intelligence and Machine Learning' topics in syllabus to explore employment and higher education opportunities for students.

There was an interaction program organized with the students to know career opportunities after the M.Sc. Degree. During this session Dr. Sastry agreed to provide major research project work to six (6) students of M.Sc. Pharma Chemistry course. The students have already received invitation from Dr. Sastry and going join in CSIR-NEIST.

Date: 28.02.2022

The Day-2 program forenoon session of Popular Science Lecture Program on 28th February was inaugurated by Prof. R. Limadri, Hon'ble Chairman, Telangana State Council of Higher Education (TSCHE). Prof. Papi Reddy (former Chairman, TSCHE) and Prof. Ravinder Dachepalli, Hon'ble Vice-Chancellor, Telangana University have also joined him. Prof.

Naseem, HOD, Department of Pharmaceutical Chemistry and Prof. M. Aruna, Dean Faculty of Science, TU provided the opening remarks of program on NSD-22. Later, three (3) invited lectures are organized during the forenoon session.

Dr. G. Kumaraswamy, Assistant General Manager, DIVIs Laboratories, Hyderabad gave invited lecture on 'Indian scientists and their inventions: A Perspective'. This lecture was so interesting in realizing the amazing knowledge and contribution by ancient Indian Scientists. Dr. Akula Venugopal, Senior Principal Scientist, CSIR-IICT Hyderabad gave invited lecture on the perspectives of Raman Spectroscopy in Heterogeneous Catalysis thatindeed is a part of syllabus of our students. Our students have got good information about the usefulness of Raman Spectroscopy in reaction monitoring and product identification.He also disclosed about OPERENDO Spectroscopy for online reaction monitoring.

Dr. K. Rajaram, Assistant Professor, EFL University, gave an invited lecture on Science Communication. He informed the students about the power of communication and opportunities for science students in media and other relevant areas. Yhe afternoon was begun with quiz program to the students. There were six (6) teams of students participated in the competition. The winners and runners were awarded with certification.

Poster presentations

1st Place	**2nd Place**	**3rd Place**
1. N. Saisudha	1. T. Jhansi	1. B. Amulya
2. B. Anurekha	2. S. Keerthana	2. K. Girija
3. T. Sathwika	3. D. Arun nayak	3. M. Lavanya
4. A. Prameela		4. D. Rachana

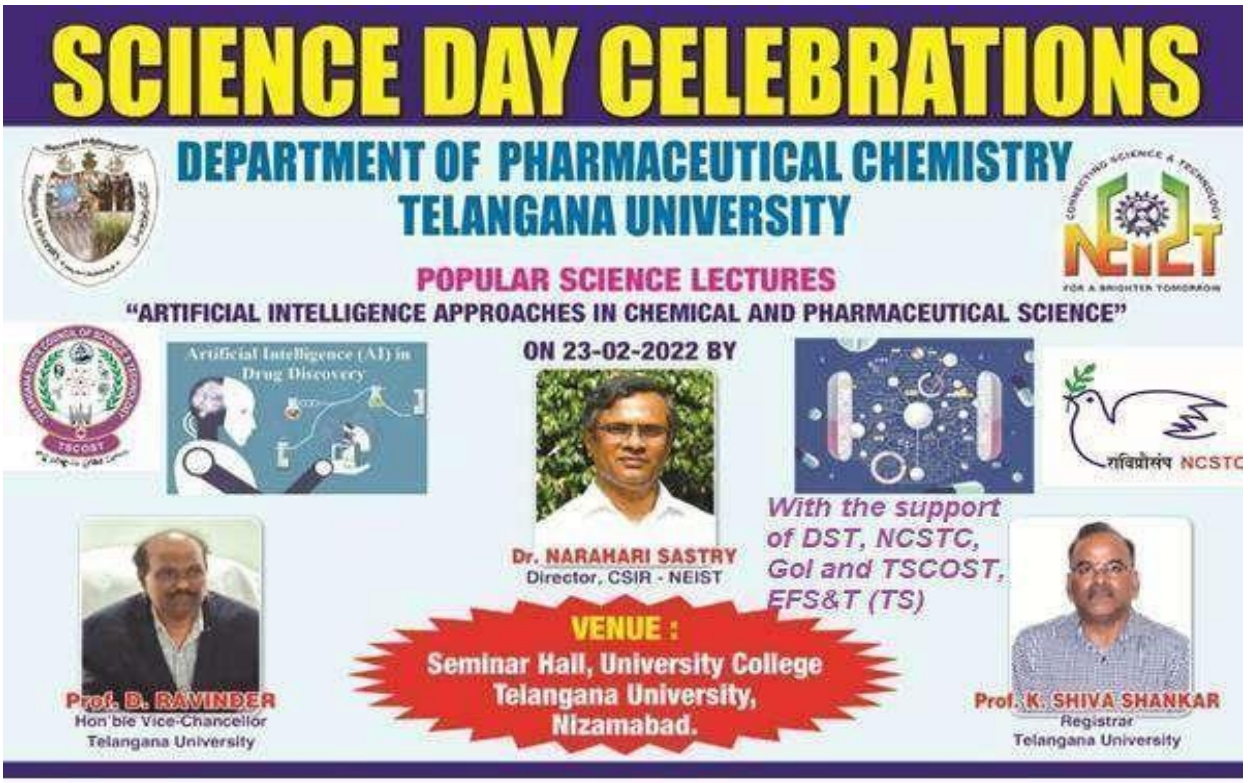
The final event in the afternoon was poster presentation. The guest speakersDr. G. Kumaraswamy, Dr. Venugopal and Dr. Rajaram have participated in the evaluation process. All the participants have interacted very much with the evaluators and answered the questions/ comments raised. The winners were awarded with certification.

Quiz Competition

1st Place	**2nd Place**	**3rd Place**
1. B. Amulya	1. M. Madhu	1. P. Bharath
2. L. Lohitha	2. G. Pramod	2. M. Lavanya
3. D. Arun nayak	3. K. Pranay	3. B. Anil Kumar
4. J. Ishwarya	4. K. Chandhu	4. G. Navaneetha
5. B. Praveena	5. E. Naveen	5. P. Premalatha
6. K. Chandana	6. G. Suchithra	6. K. Preethi
7. B. Ram shivasurya		

Overall, the program was grand success. The students are real beneficiaries in terms of invited lectures, quiz program and poster presentation.

Brochure-1 for NSD-22 on 23-02-2022



Brochure-2 for NSD-22 on 28-02-2022

NSD-22 Inaugural Address by Prof R. Limbadri, Chairman, TSCHE on 28-02-2022 along with Prof Ravinder Hon'ble Vice-Chancellor, TU-NZB

NSD-22 celebrations Invited Lecture by Dr. Narahari Sastri, Director, NEIST-CSIR Labs, Jorhat, Assam on 23-02-2022

Invited Lecture by Dr. Kumaraswamy, DIVIs Laboratory, Hyderabad on 28-02-2022

Invited Lecture by Dr. Akula Venugopal, IICT-Hyderabad on 28-02-2022

NEWS PAPER CLIPPINGS

ఈనాడు నిజామాబాద్

మంగళవారం మార్చి 1, 2022 5

సైన్స్‌పై అవగాహన అవసరం

తెవివి క్యాంపస్, న్యూస్‌టుడే: శాస్త్ర, సాంకేతిక, విద్య, వైద్య రంగాల్లో అనూహ్య మార్పులు చోటు చేసుకుంటున్నందున ప్రజల్లో సైన్స్‌పై అవగాహన కల్పించాలని ఉన్నత విద్యా మండలి వైస్‌ఛైర్మన్ ఆచార్య లింబాద్రి పేర్కొన్నారు. తెవివిలో ఫార్మాస్యూటికల్ కెమిస్ట్రీ ఆధ్వర్యంలో నిర్వహించిన సైన్స్ దినోత్సవంలో ఆయన ముఖ్య అతిథిగా హాజరై ప్రసంగించారు. దేశాభివృద్ధికి సైన్సు, టెక్నాలజీ, ఇన్నోవేషన్, రీసెర్చ్ అండ్ డెవలప్‌మెంట్ రంగాల్లో మరింతగా కృషి చేయాలని వివరించారు. ఆర్థిక వ్యవస్థకు సైన్సు టెక్నాలజీ రంగాల తోడ్పాటు అవసరమని ఉన్నత విద్యా మండలి మాజీ ఛైర్మన్ ఆచార్య పాపిరెడ్డి అన్నారు. వీసీ ఆచార్య రవీందర్, ఐఐసీటీ మాజీ శాస్త్రవేత్త కుమారస్వామి, వేణుగోపాల్, ఇఫ్లూ యూనివర్సిటీ సహాయ ఆచార్యుడు రాజారాం ప్రసంగించారు. ఫార్మాస్యూటికల్ విభాగాధిపతి ఆచార్య నసీం, డీన్ ఆచార్య అరుణ, సెమినార్ కన్వీనర్ చంద్ర శేఖర్ యాదవ్, కోకన్వీనర్లు శిరీష, సత్యనారాయణరెడ్డి, అధ్యాపకులు, పరిశోధకులు, విద్యార్థులు పాల్గొన్నారు.

● తెవివి న్యాయ కళాశాలలోనూ కెమిస్ట్రీ విభాగం ఆధ్వర్యంలో జాతీయ సైన్స్ దినోత్సవం నిర్వహించారు. ప్రధానవక్త సీసీఎంబీ శాస్త్రవేత్త నీరడి దినేష్ హాజరై మాట్లాడారు. విభాగాధిపతి బాలకిషన్, వీసీవోఎస్ సాయిలు, అధ్యాపకులు నాగరాజు, విద్యార్థులు పాల్గొన్నారు.

రౌండ్ టేబుల్ సమావేశం

తెవివి క్యాంపస్: తెవివిలో నెలకొన్న సమస్యలపై ఎస్‌ఎఫ్‌ఐ ఆధ్వర్యంలో సోమవారం రౌండ్ టేబుల్ సమావేశం నిర్వహించారు. ఏఐఎస్‌ఎఫ్, ఎన్‌ఎస్‌యూఐ, టీఆర్‌ఎస్‌వీ, పీడీఎస్‌యూ సంఘాల నాయకులు పాల్గొన్నారు. తెవివి అభివృద్ధికి నోచుకోలేదని, భారీగా ఉన్న అధ్యాపక పోస్టులు యూజీసీ నిబంధనల ప్రకారం భర్తీ చేయాలని కమిటీ జిల్లా కార్యదర్శి శ్రీశైలం డిమాండ్ చేశారు. అనంతరం వర్సిటీకి బస్సు సౌకర్యాలు మెరుగుపర్చాలని ఆర్టీసీ ఛైర్మన్ బాజిరెడ్డి గోవర్ధన్‌కు వినతిపత్రం ఇచ్చారు. నాయకులు రమురాం, వేణురాజ్, భాను, సంతోష్ పాల్గొన్నారు.

నిధులు కేటాయించాలి

తెవివి క్యాంపస్: రాష్ట్ర బడ్జెట్‌లో తెవివికి రూ.200 కోట్లు కేటాయించాలని ఉన్నత విద్యా మండలి ఛైర్మన్ ఆచార్య లింబాద్రికి పీడీఎస్‌యూ ఆధ్వర్యంలో వినతిపత్రం ఇచ్చారు. కార్యదర్శి సంతోష్, నాయకులు రాజేందర్, సుజిత్ తదితరులు పాల్గొన్నారు.

సైన్స్‌పై చైతన్యవంతం చేయాలి

తెయూ(డిచ్‌పల్లి): సామాన్య ప్రజలను సైన్స్‌పై అవగాహన కల్పించి, చైతన్యవంతం చేయాలని విద్యావేత్తలు, రాష్ట్ర ఉన్నత విద్యామండలి వైస్ చైర్మన్ ప్రొఫెసర్ ఆర్.లింబాద్రి పిలుపునిచ్చారు. తెలంగాణ విశ్వవిద్యాలయం ఫార్మాస్యూటికల్ కెమిస్ట్రీ విభాగం ఆధ్వర్యంలో కంప్యూటర్ సైన్స్ కళాశాల సెమినార్ హాల్‌లో సోమవారం నిర్వహించిన సైన్స్ దినోత్సవాలను ప్రొఫెసర్ లింబాద్రి ప్రారంభించారు. ఈ సందర్భంగా ఆయన మాట్లాడుతూ.. సైన్స్‌పై మక్కువ విద్యార్థులు తాము ఎండుబున్న వివిధ సైన్స్ విభాగాలలో అత్యున్నత స్థాయిలో కృషి చేసి సూతన ఆవిష్కరణలు, పరిశోధనలు అభివృద్ధి చేయాలని పిలుపునిచ్చారు. రాష్ట్ర ఉన్నత విద్యామండలి మాజీ వైస్ చైర్మన్ ప్రొఫెసర్ టి.పాపిరెడ్డి మాట్లాడుతూ.. భారత ఆర్థిక వ్యవస్థకు సైన్స్

మాట్లాడుతున్న రాష్ట్ర ఉన్నత విద్యామండలి వైస్‌చైర్ ప్రొఫెసర్ ఆర్.లింబాద్రి

టెక్నాలజీ రంగాల కొత్తాలు ఎంతో అవసరమన్నారు. తెయూ వైస్ చాన్సలర్ ప్రొఫెసర్ డి.రవీందర్ మాట్లాడుతూ.. ఆత్యున్నత స్థాయిలో అంతర్జాతీయ పరిశోధనలు, పబ్లికేషన్ లు ఉండాల్సిన

తెయూ సమాచారం

ఆవశ్యకతను వివరించారు. కార్యక్రమంలో రిసోర్స్ పర్సన్‌గా పాల్గొన్న ఐసీటీ మాజీ సీనియర్ సైంటిస్ట్ డాక్టర్ టి.కుమారస్వామి మాట్లాడుతూ.. భారతదేశానికి చెందిన గొప్ప సైంటిస్టుల జీవిత విశేషాలను, సాంకేతిక, ఆస్ట్రానమీ రంగాలలో వారి ఆవిష్కరణలను వివరించారు. మరో రిసోర్స్ పర్సన్ ఐసీటీ సీనియర్ సైంటిస్ట్ డాక్టర్ వేణుగోపాల్ పునరుత్పాదక ఇంధన వనరుల ఆవశ్యకతను ప్రాధాన్యాన్ని ఉదాహరణలతో వివరించారు. ఇంగ్లీష్ ఆండ్ ఫారిన్ లాంగ్వేజెస్ యూనివర్సిటీ అసిస్టెంట్ ప్రొఫెసర్ డాక్టర్ రాకారాం మాట్లాడుతూ.. సైన్స్ కమ్యూనికేషన్ గురించగా, సామాన్య ప్రజలకి తేలుపెట్టిన ఆవశ్యకతను వివరించారు. అనంతరం ప్రొఫెసర్ ఆర్.లింబాద్రిని, ప్రొఫెసర్ టి.పాపిరెడ్డిని, తెయూ వీసీ ప్రొఫెసర్ రవీందర్‌లను సన్మానించారు. కార్యక్రమంలో తెయూ అధ్యాపక సిబ్బంది, విద్యార్థులు పాల్గొన్నారు.

ప్రజోపయోగ ప్రయోగాలు నిర్వహించాలి

తెయూ(డిచ్‌పల్లి): రసాయన, ఔషధ రంగాల్లో కృత్రిమ మేధ సహకారంతో శాస్త్రవేత్తలు ప్రజోపయోగ ప్రయోగాలు నిర్వహించాల్సిన అవసరం ఉందని అస్సాం రాష్ట్రంలోని జోర్హాట్ నీస్ట్ లాబొరేటరీ జాతీయ పరిశోధన సంస్థ డైరెక్టర్ గరికపాటి నరహరిశాస్త్రి అభిప్రాయం వ్యక్తం చేశారు. తెలంగాణ యూనివర్సిటీలో 28న నిర్వహించే జాతీయ సైన్స్ దినోత్సవం సందర్భంగా బుధవారం 'ఆర్టిఫీషియల్ ఇంటిలెజెన్స్ ఇన్ కెమిస్ట్రీ- ఫార్మసీ' అనే అంశంపై ఆయన మాట్లాడారు. తెయూ వీసీ రవీందర్ మాట్లాడుతూ జాతీయ పరిశోధన సంస్థలతో యూనివర్సిటీని అనుసంధానం చేస్తూ ఈ పాపులర్ లెక్చర్ సిరీస్‌ను నిర్వహించడం హర్షనీయమన్నారు. ప్రొఫెసర్ నసీం, అధ్యాపకులు వాసం చంద్రశేఖర్, శిరీష బోయపాటి పాల్గొన్నారు.

సాక్షి Thu, 24 February 2022
https://epaper.sakshi.co

టీయూలో సైన్స్ లెక్చర్

డిచ్‌పల్లి, ఫిబ్రవరి 23 : ఈనెల 28వ తేదీన నిర్వహించే జాతీయ సైన్స్ దినోత్సవం సందర్భంగా తెలంగాణ యూనివర్సిటీలోని ఫార్మాస్యూటికల్ కెమిస్ట్రీ పాపులర్ సైన్స్ లెక్చర్‌ను బుధవారం ఏర్పాటు చేశారు. అస్సాంలోని జోర్హాట్ నుంచి నీస్ట్ లాబోరేటరీ జాతీయ పరిశోధన సంస్థ డైరెక్టర్ డాక్టర్ గరికపాటి నరహరి శాస్త్రి ప్రధాన వక్తగా హాజరై 'ఆర్టిఫీషియల్ ఇంటిలెజెన్స్ ఇన్ కెమిస్ట్రీ అండ్ ఫార్మసీ' అనే అంశంపై ప్రసంగించారు. వీసీ డి.రవీందర్ మాట్లాడుతూ జాతీయ పరిశోధన సంస్థలలో తెలంగాణ యూనివర్సిటీని అనుసంధానం చేస్తూ పాపులర్ లెక్చర్ సిరీస్‌ను నిర్వహించడం హర్షణీయమని అన్నారు. ఆచార్య నసీం, డాక్టర్ వాసం చంద్రశేఖర్, విద్యార్థులు తదితరులు పాల్గొన్నారు.

National Science Day (NSD) Celebrations-2022
Focal Theme: Integrated Approach in S&T for Sustainable Future

Kakatiya University, Warangal – Telangana State

Kakatiya University, Warangal has organized National Science Day Celebrations on March 30, 2022, by making participation of UG & PG students, research scholars and faculty of various departments of the University. The University has organized a One-Day workshop to reach scientific temper among the student community that invited eminent scientists from DRDO, Hyderabad, Bureau of Indian Standards (BIS), Hyderabad and Social scientists from Vignana Darshini, Hyderabad.

The Vice-Chancellor, in his message, stated that science is needed of the hour to make a better future by combining social sciences and natural sciences, including technology, for the development and benefit of society. The Registrar, in his message, gave the contribution of sir. C.V. Raman's "Raman Effect" brought laurels to the Indian society through the Noble Prize, and the Government of India dedicated the day to national science celebrations throughout the country.

Keynote Speaker, Mrs T. Shirisha, Scientist G, Research Centre for Immarat (RCI), Defense Research Development Organization (DRDO), Hyderabad, presented on "Guided Missiles", Anti-tank guided missiles were designed to destroy the tank. Many of you may wonder which is the deadliest anti-tank missile.

Invited speaker Scientist-F, Mrs Laxmi Tiwari, from Defense Electronics and Research Laboratory (DLRL), Defense Research Development Organization (DRDO), Hyderabad, delivered a talk on **Electronic Warfare** and stated in her presentation that, Electronic warfare (EW), Department of Defense (DOD), are military activities that use electromagnetic energy to control the electromagnetic spectrum and attack an enemy.

The invited speaker, the Head, Bureau of Indian Standards, Mr KV Rao, delivered a lecture on finding standards in all Jewellery Ornaments and all other products that we use in day-to-day life. Hence, he advised that whenever a customer buys the products, only ISI marks. The founder Vignana Darshini, Mr T Ramesh, said that S&T should help the day-to-day life of human beings and improve the quality of life of human beings. Therefore, one should learn ancient knowledge of science through innovative societal practices.

The One-Day workshop has ended with the concluding presidential remarks that science has played a vital role in the present-day scenario to control various diseases the present public is suffering and experiencing and novel and innovative discoveries so that its benefits reach the common public and society. The students participated in competitions conducted by the University College, Kakatiya University, like – Elocution, Essay Writing and Quiz competitions on the topics of the given theme of this year – 2022. These competitions were conducted Department-wise and Course-wise, and large scale students participated and expressed their views on science & technology for a sustainable future. Finally, the Guests distributed the prizes to the winners and runners who had participated in the competitions.

ABN
ఆంధ్రజ్యోతి

సైన్స్‌తోనే మానవ జీవన మనుగడ

కేయూ వీసీ ప్రొఫెసర్ తాటికొండ రమేశ్

కేయూ క్యాంపస్, మార్చి 30 : సైన్స్‌తోనే మానవ మనుగడ ఆధారపడి ఉందని కేయూ వీసీ ప్రొఫెసర్ తాటికొండ రమేశ్ అన్నారు. బుధవారం కేయూ సెనేట్ హాల్‌లో క్యాంపస్ కళాశాల ప్రిన్సిపాల్ ప్రొఫెసర్ బి.సురేశ్‌లాల్ అధ్యక్షతన జాతీయ సైన్స్ దినోత్సవం జరిగింది. ఈ సందర్భంగా హాజరైన వీసీ ప్రొఫెసర్ తాటికొండ రమేశ్ ముఖ్య అతిథిగా హాజరై జ్యోతి ప్రజ్వలన చేసి మాట్లాడారు. సైన్స్‌తోనే సమ్మిళిత అభివృద్ధి సాధ్యం అవుతోందని చెప్పారు. కొవిడ్ మహమ్మారిని ఎదుర్కొనేందుకు సైన్స్ దోహద పడిందన్నారు. సైన్స్, జీవితం రెండు వేర్వేరు కావన్నారు. సైన్స్, సాంకేతిక పరస్పర ఆధారాలని చెప్పారు. ప్రధాన వక్తగా హాజరైన డీఆర్‌డీవో శాస్త్రవేత్త డాక్టర్ శిరీష మాట్లాడుతూ.. సైన్స్‌తో అద్భుతాలు, రక్షణ రంగంలో సైన్స్‌ది ప్రధాన పాత్ర అని చెప్పారు.

మరోక డీఆర్‌డీవో శాస్త్రవేత్త లక్ష్మీ తివారీ మాట్లాడుతూ సైన్స్‌తోనే శాంతి, రక్షణ సాధ్యమని చెప్పారు. భవిష్యత్‌లో యుద్ధాలు వస్తే బయోలాజికల్ యుద్ధాలేనని చెప్పారు. శక్తి వినియోగంతో పాటు వినాశనం పెరిగిందని అన్నారు. హైదరాబాద్ విజ్ఞాన దర్శిని వ్యవస్థాపకులు తాటి రమేశ్ మాట్లాడుతూ.. భారతీయ యువత నోబెల్ పురస్కారాలపై దృష్టి సారించాలని, ఆ దిశగా పరిశోధనలు తీసుకురావాలని చెప్పారు.

రిజిస్ట్రార్ ప్రొఫెసర్ బైరు వెంకట్రామిరెడ్డి మాట్లాడుతూ.. సైన్స్‌తోనే సొసైటీ అని.. సైన్స్‌లోనే మానవత్వం ఉందన్నారు. బ్యూరో ఆఫ్ ఇండియన్ స్టాండర్డ్స్ సైంటిస్ట్ కేవీ రావు, కేయూ సైన్స్ డీన్ ప్రొఫెసర్ కె.డేవిడ్, టి.శ్రీనివాసులు, అకాడమిక్ డీన్ డాక్టర్ జి.షమీతలు పాల్గొన్నారు. సైన్స్ దినోత్సవం సందర్భంగా నిర్వహించిన పోటీల్లో ప్రతిభ చూపిన విద్యార్థులకు బహుమతులను అందచేశారు. ఈ సమావేశంలో బోధన, బోధనేతర సిబ్బంది, పరిశోధకులు, విద్యార్థులు పాల్గొన్నారు.

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ONE-DAY WORKSHOP on
NATIONAL SCIENCE DAY CELEBRATIONS - 2022
KAKATIYA UNIVERSITY