The Science Echo is a trimonthly newsletter that reflects and expounds the manifold achievements of our faculty and students. The institute provides opportunities for students to acquire practical skills and knowledge through a variety of internships, fieldwork and research projects. The accomplished faculty of the institute have had excellent training in advanced research laboratories in the U.S.A, France, Israel, Germany, Japan, South Africa, Taiwan, Portugal etc., and are engaged in various collaborative and interdisciplinary research projects. Through this newsletter, we proudly uncover the academic vigour and intellectual prosperity of our staff and students of Science.

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Release of GIS newsletter “The Science Echo”
by Prof. K. Siva Rama Krishna, Vice-Chancellor (I/C)
April 2019

Voter awareness walk at Vizag Beach
(Prof. K. Siva Rama Krishna, Vice-Chancellor (I/C), Prof. M. Saratchandra Babu, Principal, GIS, Prof. K. Veerabhadram, Director, Prof. G.V. Swamy, NSS Coordinator and NSS Volunteers)
7th April 2019
MoU with Administrative Staff College of India (ASCI) & Dept of Environmental Studies
26th April 2019

Dr. G. Subrahmanyam from ASCI and Prof. KVGD Balaji, Registrar, GITAM exchanged MoU in the presence of Prof. K. Siva Rama Krishna, Vice-chancellor (I/C) (ASCI offers student projects with stipend).

Prof. M. Saratchandra Babu, Principal, GIS, Prof. K. Lakshmi Prasad, Principal, GIT, Prof. S. Rajagopal, Prof. N. Srinivas & Dr. K. Suresh Kumar were present.
Tree Plantation on the occasion of World Environment Day 2019
5th June 2019

Pledge on the occasion of World Environmental Day 2019
Faculty Development Program for young science faculty (FDP)
10-14th June 2019
Workshop on “Green Business Ideas”, Dept. of Environmental Studies
20th June 2019
One day seminar on International Year of Periodic Table organized by Dept. of Chemistry
26th June 2019
EVENTS

World Microbiome day observed by Dept. of Microbiology & FST
27th June 2019
Guest Lecture by Prof. S. Rama Rao
Department of Biotechnology, NEHU, Shillong, on Biodiversity of North East India and its conservation strategies on 18th June 2019, Dept. of Environmental Studies

Dr. D. S. Prasad, Scientist
C-MET, Hyderabad on 25th May 2019
Dept. of Environmental Studies, GIS
Dr. B. Sattibabu  
**Department:** Electronics and Physics  
**Funding Agency:** UGC STARTUP  
**Project title:** Development of lead free based piezoelectric composites for actuator applications

Dr. K. Lakshun Naidu  
**Department:** Electronics and Physics  
**Funding Agency:** UGC STARTUP  
**Project title:** Understanding the Surface Enhanced Raman Scattering (Charge Transfer vs Electromagnetic Enhancement) from Graphene Related Materials Intended for Bio-Sensing Application

Prof. Rama Rao Malla  
**Department:** Biochemistry and Bioinformatics  
**Funding Agency:** DAE-UGC-CSR, Kolkata centre, Kolkata  
**Project title:** Sensitization of drug resident triple negative breast cancer cell lines by combination of radiation and CD151 inhibitor 2-thio-6 azauridine

Dr P. Santhi Latha  
**Department:** Biochemistry and Bioinformatics  
1. **Funding Agency:** UGC STARTUP  
**Project title:** Induction of ferroptosis in oral Cancer Stem cells-Mechanisms involved  
2. **Funding Agency:** DBT, New Delhi  
**Project title:** Role of p53 re activator ellipticine in the induction of autophagy in breast cancer cell: A mechanistic approach to overcome drug resistance

Dr. G.V. Siresha  
**Department:** Biotechnology  
**Funding Agency:** UGC STARTUP  
**Project title:** Studies on the role of BAG-1 as trail sensitises in breast cancer cells
Dr. V. Saikiran
Department: Electronics and Physics
Funding Agency: UGC STARTUP
Project title: Studies of the semiconductor/metal nanoparticles sandwiched between high-k dielectric oxide layers for memory applications and their modification by ion beam irradiation.

Dr. T. Durga Rao
Department: Electronics and Physics
Funding Agency: UGC STARTUP
Project title: Investigation of multi-ferroic properties and threshold switching effects in strain and cation-engineered BiFeO$_3$ thin films.

Dr. P. Vidyullatha
Department: Microbiology and FST
Funding Agency: UGC STARTUP
Project title: Characterization of latency associated genes to identify potential targets for the treatment of tuberculosis.

Dr. P. V. Giridhar
Department: Microbiology and FST
Funding Agency: UGC STARTUP
Project title: Production of high titres of polyhydroxy butyrate for making biodegradable film for food packaging.

Prof. N. Srinivas
Department: Environmental Studies
Funding Agency: UGC-DAE-CSR, Kolkata centre, Kolkata
Project title: Electroremediation coupled with Phytoremediation technique for removal of contaminants from sewage sludge.

Prof. M. Saratchandra Babu
Department: Chemistry
Funding Agency: UGC-DAE-CSR, Kolkata centre, Kolkata
Project title: Effect of Gamma Radiation on Structure, Vis-NIR Luminescence and Cytotoxicity of Lanthanide-based Metal-Organic Frameworks (MOFs)
Prof. N. Srinivas  
**Department:** Environmental Studies  
**Guest lecture:** Air pollution status of Visakhapatnam and its control measures  
**Occasion:** World Environment Day, 5th June, 2019.  
**Organized:** Walkers’ Club, Visakhapatnam

---

Prof. N. Srinivas  
**Department:** Environmental Studies  
**Guest lecture:** Population dynamics and Biodiversity to college teachers. **Organized:** Kendriya Vidyalaya, VSP.
• The Operations Fs- Union, Fs -Intersection and Fs- Complement Operator in Fs- Set Theory – Some Results.
  Dr. Biswajit Rath
  *International Journal of Recent Technology and Engineering, April 2019, 7(6S2), 802-805 (Scopus).*

• Correlation Between Structural, Magnetic and Dielectric Properties of Microwave Sintered Ni-Zn-Al Nanoferrites.
  Chandra Sekhar Ega, B. Rajesh Babu, K. V. Ramesh, M. Sreenivasulu, Y. Purushotham
  *Journal of Superconductivity and Novel Magnetism, May 2019, 1-10 (Scopus).*

• Approach of Density Functional Theory to Molecules Using Gaussian.
  Ch. Ravi Shankar Kumar
  *International Journal of Pure and Applied Physics, April 2019, 15, 1-13*

• Optical properties of magnetron sputtered nanocrystalline gold nitride thin films
  *Mater. Res. Express, June 2019, 6(9), 094001 (Scopus).*

• Effects of ion irradiation on the structural and electrical properties of HfO2/SiON/Si p-metal oxide semiconductor capacitors.
  *Thin Solid Films, June 2019, 682, 156-162 (Scopus).*

• Strategies in Laser-Induced Synthesis of Nanomaterials.
  *V Saikiran*, Mudasir H Dar, L Jyothi, R Kuladeep, D Narayana Rao
  *Nanomaterials Synthesis Design, Fabrication and Applications” Micro and Nano Technologies, June 2019, 149-199 (Book chapter, Elsevier).*

• Synergistic enhancement of apoptosis by coralyne and paclitaxel in combination on MDA-MB 231 a triple negative breast cancer cell line.
  Seema Kumari, Anil Badana, B. Murali Mohan, G. Shailender, *Rama Rao Malla*
  *Journal of cellular Biochemistry, June 2019, doi: 10.1002/jcb.29114 (Scopus).*

• Cognitive Modeling: Role of Artificial Intelligence.
  Prof.K.Vedavathi
  *International Journal of Innovative Technology and Exploring Engineering, April, 2019, 8,8,1624-1629 (Scopus).*
Mr. M. Suresh Kumar and Prof. V. NagaLakshmi
*International Journal of Research in Advent Technology, May 2019, 7(5), 316-322 (UGC Approved journal).*

• Behavior Reliance Anomaly Detection with Customized Compact Prediction Trees.
Dr. T. Uma Devi
*International Journal of Innovative Technology and Exploring Engineering, June, 2019, 8, 1495-1502 (Scopus).*

• Isolation Forest and Xg Boosting For Classifying Credit Card Fraudulent Transactions.
Dr. T. Uma Devi
*International Journal of Innovative Technology and Exploring Engineering, June 2019, 8(8), 41-47 (Scopus).*

• Opinion mining and Sentiment analysis of TELANGANA election on twitter data
Ms. K. Vanitha
*Pramana Research journal (National), April 2019, 9(4), 147-154 (UGC Approved journal).*

• An Analysis and Effective Identification on Bi-variate Medical Datasets using Machine Learning Techniques.
Ms. K. Vanitha
*International Journal of Management, Technology and Engineering, April 2019, 9(4), 2839-2846 (UGC Approved journal).*

• Brain Tumor Detection Using Various Classification Techniques.
Dr. M. Sesha Shayee
*Journal of Engineering Research and Application, Series-II (5), May 2019, 01-12.*

• Self-healing concrete to remediate cracks using bacteria under optical microscope.
Saimohan B, Surya Teja Ch, Dr. P. V. Girdhar, Srinija P and Vamsidhar KVN
*Journal of Emerging Technologies and Innovative Research, 6(6), June 2019, 562-565.*

• Multiple Shoot Regeneration in Seed-derived Immature Leaflet Explants of Red Dragon Fruit (*Hylocereus costaricensis*).
• Improved ethanol productivity and ethanol tolerance through genome shuffling of *Saccharomyces cerevisiae* and *Pichia stipitis*. Karuna Devi Jetti, Ramesh Reddy GNS, Deviram Garlapati, *Sai Kishore Nammi* *International Microbiology, 2019, 22(2), 247-254 (Scopus).*


• A Straightforward Route to Aromatic Excited States in Molecular Motors that Improves Photochemical Efficiency. J. Wang, *B. Oruganti* and B. Durbeej, *ChemPhotoChem 2019, 3, 450-460 (Web of Science).*

• Design and Synthesis of 1,3,4-Thiadiazole Derivatives as Novel Anticancer and Antitubercular Agents. D. Chandra Sekhara, D. V. Venkata Rao, A. Tejeswara Rao, U. Lav Kumar, and *Anjali Jha* *Russian Journal of General Chemistry, 2019, 89 (4), 770–779 (Scopus).*

• Hydrodermal synthesis, photoluminescence and antiproliferative activity of RE3+ doped Ca3(PO4)3 nanorods Vema Reddy B, *Rama Rao Malla* and *Saratchandra Babu M* *IRBM, 2019, 1–9 (Scopus).*
Dr. S. Sreedhar
Department: Applied Mathematics
National Conference: Advances in Computational Fluid Dynamics, 12-13, April 2019
Title: Unsteady MHD free convective flow through porous medium past a vertical porous plate in the presence of heat flow
Organized by: Department of Mathematics, Andhra Kesari Tanguturi Prakasam University, Ongole

Dr. P. V. Giridhar
Department: Microbiology and FST

Dr. Nagaveni Shivshetty
Department: Microbiology and FST

Dr. G. Srinivas Rao
Department: Chemistry
workshop: Science and Engineering of Materials using Ion Beams and Gamma Radiations” May 28-29, 2019
Organized by: UGC-DAE Consortium for Scientific Research, Kolkata Centre & Variable Energy Cyclotron Centre
Dr. D. Suryakala  
**Department:** Chemistry  
Summer Research Fellowship Programme Teacher - 2019 by Indian Academy of Sciences, BENGALURU  
**Organized by:** Department of Chemistry, Hyderabad Central University

---

Prof. M. Anitha  
**Department:** Biotechnology  
iON Digital Zone iDZ, Sheela Nagar, Visakhapatnam center nominated as an observer, DBT-JRF programme, April 14, 2019  
**Organized by:** Biotech Consortium India Limited, New Delhi.

---

Prof. Anjali Jha  
**Department:** Chemistry  
FDP on the topic Novel Strategies and Applications in Organic Chemistry, 17-22 June 2019  
**Organized by:** Department of Chemistry National Institute of Technology Calicut, Kerala
7 steps to publishing in a scientific journal

Writing for academic journals is a highly competitive activity, and it’s important to understand that there could be several reasons behind a rejection. Furthermore, the journal peer-review process is an essential element of publication because no writer could identify and address all potential issues with a manuscript.

1. Do not rush submitting your article for publication.
2. Select an appropriate publication outlet.
3. Read the aims and scope and author guidelines of your target journal carefully.
4. Make a good first impression with your title and abstract.
5. Have a professional editing firm copy-edit (not just proofread) your manuscript, including the main text, list of references, tables and figures.
6. Submit a cover letter with the manuscript.
7. Address reviewer comments very carefully.

https://www.elsevier.com/connect/7-steps-to-publishing-in-a-scientific-journal
Ms Kalyani Pravallika M.Sc. (Physics, I Year )
Department: Electronics and Physics
Recognition: Summer internship - 2019
NIT Kerala, Calicut

Mr Pavan Kumar M.Sc. (Physics, I Year )
Department: Electronics and Physics
Recognition: Summer internship - 2019
NIT Kerala, Calicut

Mr. Rahul Roy, Integrated M.Sc.,
Department: Biotechnology
Recognition: UGC-NRC Summer Fellowship
School of Chemistry, University of Hyderabad

Mr. Tridip Mitra
Department: Biotechnology
Recognition: Summer Internship
Anthropological Survey of India, Kolkata

Ms. Ritika Mohanty
Department: Biotechnology
Recognition: Summer Internship
Anthropological Survey of India, Kolkata

Ms. Anushka Kundu
Department: Biotechnology
Recognition: Summer Internship
Anthropological Survey of India, Kolkata
Student corner

Ms. Swagata Dutta
Department: Biotechnology
Recognition: Summer Internship
Anthropological Survey of India, Kolkata

Mr. Ankit Kumar
Ms. Thammanna Parida
Ms. Swathi
Department: Environmental Studies
Recognition: Summer Internship on Industrial Safety in Fertilizer Industry
Cormandel Fertilizers Limited, Visakhapatnam

B. Sahithi, G. Vidhya Dharani, G. Divya, G. Divya,
G. Rohini Reddy, Sindhu Sameera
BEM, 4th Semester
Department: Environmental Studies
Recognition: Summer Internship on Environmental Management
Rastriya Ispat Nigam Limited, Steel Plant, VSP

K. Prathyusha
Department: Environmental Studies
Recognition: Summer Internship on Environmental Management
Hindustan Petroleum Corporation Limited
Mr. Bishal Kumar Lohani, Lab technician
Ms. Buddha venkata sai vaishnavi Quality control
Ms. C lakshmi poojitha Food Executive
Ms. Pandala srinija Food Executive
Ms. Paramata durga tejaswi Food Executive
Mr. Raju kumar  Food Executive
C P Aquaculture (India) Pvt Ltd. 104, GNT Rd, Redhills, Chennai, Tamil Nadu 600052

Mr. Parre saran kumar
Mr. Tetala nagireddy
Mr. Venkata prakash pulle
Divis Laboratories Ltd vishakapatnam

Mr. Magapati venkata ramana
Food Executive
Parikshan Labs,Chennai

Ms. Shreya Pusapati
Department: Biotechnology
Recognition: Received 2nd prize in quiz competition on World Microbiome Day- 2019
Name: Ms. K. Madhavi  
Department: Chemistry  
Awarded Ph D degree, April 2019  
Research guide: Prof. M. Saratchandra Babu

Name: Ms. Pasupuleti Amita Corolina Martin  
Department: Biochemistry and Bioinformatics  
Awarded: Ph D degree, June 2019  
Research guide: Dr. N. Nageswara Rao Reddy

Name: Dr. S. Deepthi  
Department: Electronics and Physics  
Awarded: Ph D degree, June 2019  
Research guide: Dr. Ch Ravi Shankar Kumar

Name: K. Divya  
Department: Biotechnology  
Awarded: Ph D degree, June 2019  
Research guide: Dr. K.V.Chaitanya
Dr. Kishore, Dept of Chemistry received DST (SERB) project

Release of GIS newsletter “The Science Echo”
by Prof. K. Siva Rama Krishna, Vice-Chancellor (I/C)
MoU with Administrative Staff College of India (ASCI)  
26th April 2019

Release of GSAT-2019 results by Prof. K. Siva Rama Krishna, Vice-Chancellor (I/C)  
15th May 2019
GIS IN MEDIA

GSAT counselling on 30\textsuperscript{th} May 2019

World Environment Day
(5\textsuperscript{th} June 2019)
Faculty Development Program (10th June 2019 to 14th June 2019)

Workshop on Green Business Ideas Organised by Dept. of Environmental Studies in association with Climate Launch pad (19th June 2019)

ANDHRA JYOTHI - 20.06.2019
வல்லுனர் ஸ்ரீராம் கே. தீர்த்தத்தில்

வல்லுனர் ஸ்ரீராம் கே. தீர்த்தத்தில் பார்வைக்கு வந்து விளக்கும் முறை அடைய்கிறது. இப்பட்டாரில் சாலையில் முக்கியமான இருந்து குழியில் முழு சிற்றுட்பெருக்கிவிளக்கும். விளக்கிற உள்ளாக்கும் பார்வை எதுவும் நோக்கினாலும் காணப்படும். விளக்கி மறை விளக்கும் வாய்ந்தை தண்டுச் செய்யும் பார்வை என்பது என்பது வெளியே விளக்கி மறை விளக்கும் வாய்ந்தை தண்டுச் செய்யும். விளக்கி மறை விளக்கும் வாய்ந்தை தண்டுச் செய்யும்.

வல்லுனர் ஸ்ரீராம் கே. தீர்த்தத்தில் பார்வைக்கு வந்து விளக்கும் முறை அடைய்கிறது. இப்பட்டாரில் சாலையில் முக்கியமான இருந்து குழியில் முழு சிற்றுட்பெருக்கிவிளந்து விளக்கிற உள்ளாக்கும். விளந்து எதுவும் நோக்கினாலும் காணப்படும். விளந்து என்பது என்பது வெளியே விளந்து என்பது என்பது வெளியே விளந்து என்பது என்பது வெளியே விளந்து என்பது என்பது. விளந்து என்பது என்பது வெளியே விளந்து என்பது என்பது வெளியே விளந்து என்பது என்பது வெளியே விளந்து என்பது என்பது. விளந்து என்பது என்பது வெளியே விளந்து என்பது என்பது வெளியே விளந்து என்பது என்பது வெளியே விளந்து என்பது என்பது
International Year of Periodic Table (26th June 2019)

World Microbiome Day (27th June 2019)
Broccoli sprout compound may restore brain chemistry imbalance linked to schizophrenia

They say the results advance the hope that supplementing with broccoli sprout extract, which contains high levels of the chemical sulforaphane, may someday provide a way to lower the doses of traditional antipsychotic medicines needed to manage schizophrenia symptoms, thus reducing unwanted side effects of the medicines.
Natural compound found in broccoli reawakens the function of potent tumor suppressor

Long associated with decreased risk of cancer, broccoli and other cruciferous vegetables -- the family of plants that also includes cauliflower, cabbage, collard greens, Brussels sprouts and kale -- contain a molecule that inactivates a gene known to play a role in a variety of common human cancers. In a new paper published today in Science, researchers, led by Pier Paolo Pandolfi, MD, PhD, Director of the Cancer Center and Cancer Research Institute at Beth Israel Deaconess Medical Center, demonstrate that targeting the gene, known as WWP1, with the ingredient found in broccoli suppressed tumor growth in cancer-prone lab animals.
Novel microscope can non-invasively diagnose, treat diseases: Study

Toronto: Scientists have developed a specialised microscope that has the potential to diagnose diseases like skin cancer as well as perform precise surgery without making any incisions in the skin. According to the study published in the journal Science Advances, the microscope allows medical professionals to pinpoint the exact location of an abnormality, diagnose it and treat it instantly.

"Our technology allows us to scan tissue quickly, and when we see a suspicious or abnormal cell structure, we can perform ultra-precise surgery and selectively treat the unwanted or diseased structure within the tissue -- without cutting into the skin," said Yimei Huang from the University of British Columbia in Canada.
Nearly a quarter of West Antarctic ice is now unstable

By combining 25 years of European Space Agency satellite altimeter measurements and a model of the regional climate, the UK Centre for Polar Observation and Modelling (CPOM) have tracked changes in snow and ice cover across the continent.

A team of researchers, led by Professor Andy Shepherd from the University of Leeds, found that Antarctica's ice sheet has thinned by up to 122 metres in places, with the most rapid changes occurring in West Antarctica where ocean melting has triggered glacier imbalance.

The team found that the pattern of glacier thinning has not been static. Since 1992, the thinning has spread across 24% of West Antarctica and over the majority of its largest ice streams -- the Pine Island and Thwaites Glaciers -- which are now losing ice five times faster than they were at the start of the survey.
When it comes to performing a calculation destined to arrive at an exact result, humans are hopelessly inferior to the computer. In other areas, humans are still lengths ahead of it:

An example is signal processing, which plays an important role in autonomous driving. In the search for new computer concepts that are closer to the human brain, research is concentrating, amongst others, on probability-based computing. Together with his team, physicist Professor Ulrich Nowak from the University of Konstanz is investigating how these computers of the future can be made possible by using what are known as skyrmions, i.e. magnetic vortex-like configurations, as bit units.

In collaboration with physicists from Johannes Gutenberg University Mainz, the researchers have now been able to show both in theory and experimentally how magnetic vortices can be used for new computing methods. The results were published in the current issue of the scientific journal Nature Nanotechnology.
FORTHCOMING EVENTS

18th - 19th Nov, 2019
Rome, Italy

Advances in Catalysis and Green Chemistry
On behalf of Organizing Committee, Longdom Conference inviting you to attend the upcoming summit on “Catalysis and Green Chemistry” on Oct 14-15, 2019 Rome, Italy. It is focusing on ‘Propelled catalysis and Advanced Perception on Chemical Transformation and Chemistry’ to enhance and explore kledge.

https://www.longdom.com/catalysis

Chemistry 2019 extends its heartfelt welcome to "World Congress on Chemistry" to be held from August 19 - 20, 2019 in the alluring city of Kuala Lumpur, Malaysia with the theme "Delving into advances in Chemistry Research and Innovations", which will consolidate Keynote Sessions, Oral Sessions, Poster Sessions, Young Research Forum, Symposia, Exhibitors, Panel discussions and Networking.

https://www.chemistrycongress.org/
The World Cancer Congress (WCC) is a recognised international conference which encourages effective knowledge transfer and best practices exchange amongst over 3,500 cancer control and public health experts from 150 countries.

https://www.worldcancercongress.org/about-world-cancer-congress

5th World Congress on Controversies in Breast Cancer (CoBrCa)

When is Less More?

September 4-6, 2019
San Francisco, CA, USA

HOSTED BY
University of California

https://cobrca.org/
FORTH COMING EVENTS

Pyroliq 2019: Pyrolysis and Liquefaction of Biomass and Wastes
An ECI Conference
June 16-20, 2019
Maryborough Hotel
Cork, Ireland


World Congress on Lasers, Optics and Photonics
Theme: Advancements of Lasers, Optics and Photonics in Modern
September 23-25, 2019
Barcelona, Spain

http://www.phronesisonline.com/optics-conference/
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