DST-ANRF/SERB

sponsored

International Conference on

Resilient Innovations for Subsistence Environment

(ICRISE-2025)

21st & 22nd November, 2025

REPORT

Organized by

Department of Chemistry

Government College (A), Rajahmundry

Preface

The Department of Chemistry at the College has resolved to organize a successor International Conference to the previous year's International Conference on Biobased Environment for Sustainable Territory (ICBEST-2024). This event invites distinguished scientists from across the globe.

In the contemporary era, forging a sustainable future is imperative. As humanity acts both as creator and destroyer of its environment, the Department sought to establish a collaborative platform with fellow intellectuals. The objective is to explore resilient innovations and eco-friendly solutions that address pressing global environmental challenges and yield sustainable outcomes. Accordingly, the theme "Resilient Innovations for Subsistence Environment (ICRISE-2025)" was adopted, with the conference scheduled for November. The Department further resolved to publish selected papers in a Springer Nature journal, enhancing the event's prestige.

Subsequently, permission was obtained from the Principal, Dr. Ramachandra R. K., to proceed under the leadership of Sri T. Srinivasa Rao as Convenor, and Sri V. Sridhar and Dr. G. Tejaswini as Organizing Secretaries. Invitations were extended to suitable speakers; the conference flyer and brochure were disseminated and online registrations commenced.

The Department extends its profound gratitude to the Department of Science and Technology (DST)-ANRF/SERB for the generous financial support that enabled the grand organization of this event. We also express our sincere appreciation to the Commissioner of Collegiate Education, Andhra Pradesh, Dr. Bharat Narayana Gupta, for his continued encouragement and for sanctioning on-duty leave to participants attending the conference. Furthermore, the Department is deeply grateful to the Joint Director, Commissionerate of Collegiate Education, Andhra Pradesh, Dr. C. Krishna; and to the Regional Joint Director, Zone-I and Zone-II, Commissionerate of Collegiate Education, Andhra Pradesh, Dr. P.V. Krishnaji, for their kind cooperation; as well as to the Principal for his unwavering guidance.

The programme featured 01 Keynote Speaker, 07 Senior Scientists (2 International and 5 National), and 02 Young Scientists. In addition, 281 registered participants, comprising Faculty members, Research Scholars, Industry experts, Postgraduate Students and Undergraduate Students from various institutions and universities of the states of Andhra Pradesh, Telangana, Tamilnadu and Odisha.

DST-ANRF/SERB sponsored International Conference on Resilient Innovations for Subsistence Environment (ICRISE-2025)

The Department is deeply appreciative of Prof. K. R. Prasad, Indian Institute of Science, Bangalore (Recipient of the Shanti Swarup Bhatnagar Award in Chemical Sciences-2014) for graciously accepting our invitation to deliver the keynote address despite his demanding schedule.

Similar appreciation is extended to Dr. Srinivas Kalidindi, Lead Investigator, BBRC-Syngene International Ltd.; Dr. Srinivasa Karra, Director of Medicinal Chemistry, Avilar Therapeutics; Dr. Adinarayana Doddi, Associate Professor, Indian Institute of Science Education and Research, Berhampur; Prof. Rajeswara Rao M., Associate Professor, Indian Institute of Technology, Dharwad; Dr. Bandi Suresh, Assistant Professor, Malaviya National Institute of Technology, Jaipur; Dr. M. L. N. Acharyulu, Associate Professor, Centurion University of Technology and Management, Vizianagaram; and Dr. Pratap Kollu, Assistant Professor, University of Hyderabad. Each has kindly agreed to share their significant research contributions.

The faculty of chemistry department extend deepest gratitude to Dr. Ramakrishna Rao, Retired Principal and Chemistry Lecturer, for his unwavering support from the inception of the ICRISE-2025 conference through to its successful conclusion. Several resource persons were his former students and alumni of the institution and this event provided them a meaningful opportunity to express their appreciation and reciprocate his mentorship.

The scientific community also responded enthusiastically, submitting numerous research articles. The Department is also sincerely thankful to Atlantis Press (part of Springer Nature) for publishing the eligible papers in the Conference Proceedings.

INDEX

Chemistry Department Meeting Minutes – Resolutions dated 06.10.2025

100 Staff Meeting No -9/2025-2026 06/10/2025

A Meeting of the Staff Members of the Chemistry department was held on 6/10/25 at Staff room under the Chairmanship of Incharge of the department to discuss the proposal to Organizing - a "Two-Day International Conference titled IC-RISE-25 Resilient Innovations for Subsistence Environment during the Month of November - 2025

After detailed deliberations, the faculty Members of the department unanimously resolved the following

1) To organize a Two day International Conference IC-RISE-25 in the Month of November focusing on recent advancements & interdisciplinary innovations in Environmental Subsistence and allied research areas
2) To apply for financial assistance to the Department of Science and Technology DST-ANRF under appropriate funding Scheme to support the successful organization of the Conference as the department organized DST-SERB Sponsored School in 2024.
3) To Seek the approval of Prof K.S. Prasad Shanthi Swaroop Bhatnagar awardee and Senior Scientist IISC Banglore for serving as Key Resource person and fix the dates of Conference on his Convinient dates.
4) To Seek approval from the Eminent national & Internation Speakers, academicians and Industrial Persons to act as resource persons.
5) To Constitute an organizing Committee Comprising faculty members of Dept of Chemistry for effective Co-Ordination of all academic, financial and logistic arrangements Related to Conference
5) To approach potential Collaborators, Sponsors and Institutions for academic and financial

partnership to enhance the Quality and Outreach of the Event.

It was resolved to Submit this proposal to the principal of the college for necessary approval and and onward Communicate to DST-ANRF for funding Consideration.

1. J. YACOB
2. K Venkaiah
3. V. SRIDHAR
4. B. Venkata Rao
5. T. NARASIMHA MURTHY
6. B Hallikarjuna
7. G. Tejaswini
8. N. Baby Nirmala
9. P. Sireesha
10. M. Padmaja
11. M. Savitha Kumari
12. U. Saicrishna
13. M. PRASAD
14. M. Sudhakaram
15. DR. CH. Rajani
16. M. PRIYANKA
17. Dr. J. Suresh.
18. Dr. P. Sreeja Sree
19. L. Rafeeuddin
20. [illegible]
21. J. Sathish Sr.
22. P Murali Krishna
23. P. Sivakumar
24. Nagaraj Sam

Principal's Permission

C NO: 01/GCRJY/CHEMISTRY/ICRISE-25/2025

Sub: Government College (A), Rajamahendravaram – Department of Chemistry – Conduction of ICRISE-25- Reg.

Ref: 1) Resolutions of Chemistry Department Dated:

****

Note Submitted:

1.		It is submitted that as per the resolutions dated: 06.10.2025 the department of chemistry is going to organize the a two day International conference on **"Resilient Innovations for Subsistence Environment" ICRISE-25, 21-22nd November 2025** (DST/ANRF Sponsored) through hybrid mode (Virtual and Physical mode). The primary aim to organize this International Conference is to provide a platform for researchers, academics, professionals, and students from around India and abroad to come together and share their insights, research findings, and experiences in the field of environmental Science. By bringing together diverse perspectives, we aim to facilitate meaningful discussions, cross-cultural interactions, and the exploration of innovative ideas that could contribute significantly to our academic community.
2.		Further It is submitted that the department of chemistry to seek your permission and financial support for organizing an International Conference ICRISE-25. We believe that hosting this conference will be an excellent opportunity to not only promotes academic growth within our institution but also to showcase our commitment to fostering international collaboration and knowledge exchange.
3.		Submitted for orders.
4.		Head of the Department 11/11/25 Principal 7/11/2025
5.		

Part @ from PG fund

ICRISE-2025 Flyer and Brochure release by honourable Principal, Dr. Ramachandra R. K.

Co-Convenors

Sri J. Yacobe
Sri K. Venkata Rao
Sri B. Venkata Rao
Sri P. Siva Kumar
Dr J. Suresh

Programme Co-Ordinators

Dr. V. Durga Praveena
Dr. N. Baby Nirmala

Advisory Committee

Dr. M.V. Rama Krishna Rao (Retired Principal)
Dr M. Syam Bab (Principal, Palakonda)
Dr. Dadi Sireesh Kumar (USA)
Dr. V. Dhanu Radha (Kuwait)
Dr. B Jagan Mohan Reddy (AKNU, Rajahmundry)
Dr. K. Deepthi (AKNU, Rajahmundry)
Dr. D.B. Ramachary (HCU, Hyderabad)
Dr. S. Satyaveni (JNTUK, Kakinada)
Dr. V. Siddaiah, Professor (AU, Vishakhapatnam)
Dr. K. Bhagya Lakshmi (Principal, Vijayawada)
Dr. K. Venkataratnam Kamma (MNIT, Jaipur)

Organizing Committee - Dept. of Chemistry

Dr. T. Narasimha Murthy
Dr. B.Mallikharjuna
Dr. M. Padmaja
Dr. M. Trinadh
Sri U. Sai Krishna
Sri M. Sudhakar Rao
Dr. M. Santha Kumari
Dr. L. Rajeswari
Dr. P. Surekha
Dr. P. Murali Krishna
Dr. V. Satyanarayana
Sri M. Prasad
Dr. Ch. Rajani
Dr. E.S.R.S. Sarma
Smt. J. Sashi sri
Dr. P . Surya Sri
Sri K.V.V. Ranga Rao
Sri. S.V.S. Durga Prasad
Smt. D.J. Sowjanya
Sri Ch. Siva Krishna

Address for Correspondence

Sri V. Sridhar, Organising secretary, 8919262964
Dr. G. Tejaswini, Co-Organising secretary, 9052333529
Department of Chemistry, Government College (A) Rajahmundry, 533103
Mail id: icrise2025@gmail.com

DST-ANRF/SERB

(Govt. of India)

Sponsored

International Conference on Resilient Innovations for Subsistence Environment

(ICRISE-2025)

National Research Foundation

SERB DIA

DST@75 1971-2021 Department of Science & Technology

21st , 22nd November 2025

"Let us permit Nature to have her Way,
She understands her business better than us".

Venue

Dr. B.R. Ambedkar Seminar Hall

Organised By

Department of Chemistry

GOVERNMENT COLLEGE (A) RAJAHMUNDRY

About College

Established in 1853 and upgraded to a college in 1873, Government College Rajahmundry focuses on academic excellence, ethical values, and knowledge advancement. Granted autonomous status in 2000, the college emphasizes research, training, and inclusive education. Accredited NAAC A+ with CGPA 3.38/4.00, it offers 53 undergraduate and 14 postgraduate programs, along with 9 research centers providing doctoral fellowships. The institution proudly serves around 7000 students and is recognized as a research study center by Adikavi Nannaya University and Andhra University.

Chemistry Department

The Department of Chemistry has 33 experienced staff members dedicated to skill development and student success. It focuses on bridging laboratory research and practical applications through lectures, field tours, and collaborative projects. The department offers 16 undergraduate, 3 postgraduate, and 2 certified course streams, with a growing emphasis on industrial chemistry and novel career-focused programs.

About the Conference

In the present era, building a sustainable future is the need of the hour. This conference brings together researchers, academicians, industry experts, and policymakers to explore resilient innovations and eco-friendly solutions that address global environmental challenges. As humankind is both a creator and a destroyer of its environment, such platforms provide an opportunity to think collectively with intellectuals and discover sustainable solutions. Through collaboration and knowledge sharing, the conference aspires to inspire actionable strategies for a greener, resilient world.

Objectives of the Conference/Themes

- Innovative strategies for building climate-resilient communities
- Technological breakthroughs for sustainable agriculture and food security
- Smart water management and clean energy transitions
- Nature-based solutions for biodiversity conservation
- Digital tools and AI for environmental monitoring and resilience
- Global collaborations for disaster risk reduction and sustainability
- Education, awareness, and youth participation in resilient innovations

Awards

Oral Presentations

* Virtual Presentations are also accepted

Eligibility : Research Scholars / Students
Themes : Conference Topics
1st Prize :- Rs. 1000/-
2nd Prize :- Rs. 700/-
3rd Prize :- Rs. 500/-

Note : Certificate of Appreciation will be Issued

Poster Presentations

Eligibility : Research Scholars / Students
Themes : Conference Topics
1st Prize :- Rs. 1000/-
2nd Prize :- Rs. 700/-
3rd Prize :- Rs. 500/-

Registration Fee Link

Fill the Google Form or Scan QR on or before 20th November 2025
https://forms.gle/MCMSgYAy64yR3fRB9

For Registration

Resource Persons

Dr. Adinarayana Doddi
Dr. Srinivas Kolliboi
Prof. Rajeswara Rao M
Dr. Bandi Suresh
Dr. M.L.N.Acharyulu

Registration Fee

Students	-	INR 200
Scholars	-	INR 400
Scientist/Faculty	-	INR 700
Scientist from Industry	-	INR 1000
Foreign Participant / Accompany	-	USD 5

Note : Accommodation will be arranged nearby hotels on payment basis

Call for Papers

TThe authors are encouraged to present their research work. The abstract (150-200 words) should be prepared in Times New Roman, font size 12 pt, with 1.5 line spacing, and submitted in .doc/.docx format. The abstract should include the authors' names (with the presenting author's name underlined), affiliation(s), and the corresponding author's email ID. The submission deadline for abstracts is 12th November 2025.

Full papers must be prepared in Springer format with a minimum of 5 pages and submitted by 18th November 2025. All accepted papers, after peer review, will be published by Springer Publishers submit your abstract/full length paper to icrise2025@gmail.com

GOVERNMENT COLLEGE (AUTONOMOUS), RAJAHMUNDRY

INTERNATIONAL CONFERENCE

On

RESILIENT INNOVATIONS FOR SUBSISTENCE ENVIRONMENT

organized by Department of Chemistry

CIRCULAR

Date: 01.11.2025

All the teaching staff and students are hereby informed that an **INTERNATIONAL CONFERENCE on RESILIENT INNOVATIONS FOR SUBSISTENCE ENVIRONMENT (ICRISE-2025)** will be conducted from 21.11.2025 to 22.11.2026 by the department of Chemistry. Hence, all the faculty and students are requested to attend the Conference. Further, you are requested to send your abstracts to the following mail ID: icrise2025@gmail.com on the given themes provided in the brochure on or before 12.11.2025.

Principal
Government College (Autonomous),
Rajahmundry

Conference at a Glance

Title	**Resilient Innovations for Subsistence Environment (ICRISE-2025)**
Nature:	**International Conference**
Mode:	**Offline & Online (Hybrid)**
Dates:	**21.11.2025 & 22.11.2025**
External Funding:	**DST-ANRF/SERB**
Organizing Department:	**Department of Chemistry, Government College (A), Rajahmundry**
Keynote Speaker:	**Prof. K. R. Prasad (Recipient of Shanthi Swarup Bhatnagar Award in Chemical Sciences-2014)**
No. of Resource persons:	**10**
International Speakers:	**i) Dr. Srinivasa Rao Karra, USA** **ii) Dr. Rama Krishna Dadi, USA**
Convenor:	**Sri T. Srinivasa Rao, In-Charge, Department of Chemistry**
Organizing Secretary:	**i) Sri V. Sridhar, Lecturer in Chemistry** **ii) Dr. G. Tejaswini, Lecturer in Chemistry**
Venue:	**Dr. B. R. Ambedkar Seminar Hall, Government College (A), Rajahmundry**
No. of beneficiaries:	**281**
No. of abstracts received:	**110**
No. of papers published in Atlantis Press:	**18**
Conference Day-1 Live youtube Link:	**https://youtube.com/live/7q5daOzFC_o?feature=share**
Conference Day-2 Live youtube Link:	**https://youtube.com/live/WePKVdcLLIs?feature=share**

DEPARTMENT OF CHEMISTRY

Committees list for 2-day International Conference ICRISE-2025

21st-22nd November, 2025

S.No	Name of the Committee	Members	Responsibility	Remarks
1.	Purchase	Sri K Venkata Rao Sri V Sridhar Sri J Jacob Dr T Narsimha Murthy Dr M Trinadh Sri U Saikrishna Dr P Murali Krishna Sri M Prasad	Purchase of bags, Stationary, filesalong with a small book, pen, Mementos and shawls	
2.	Reception & transport	Dr. M. Trinadh Sri M.Sudhakar rao Dr P.Murali Krishna Sri M Prasad Sri K.V.V. Ranga Rao	Receiving the resource persons, local transport etc	
3.	Registration	Dr M Santha Kumari Dr Ch.Rajani Dr.L.Rajeswari Dr.P.Surekha Smt.D J Sowjanya	Registration of the participants & Certificate Distribution	
4.	Certificates	SriT. Srinivasa Rao Sri V. Sridhar Dr. V. Durga Praveena B. Venkata Rao Dr. T. Narsimha Murthy G Tejaswini	Preparation of certificates	
5.	Souvenir preparation	Dr. N. Baby Nirmala Dr L. Rajeswari Dr. P. Surekha Dr. V. Durga Praveena Dr. Ch. Rajani	Receiving the papers, scrutiny,Souvenir printing, etc	

		Dr. G. Tejaswini Dr. P. Surya Sri		
6.	Technical committee	Dr. P. Murali Kirshna Dr.V.Satyanarayana Sri KVV.Rangarao SVVD. Durga Prasad Ch. Siva Krishna	Mike , sound, projector, display of ppts of resource persons at stage	
7.	Lunch	Sri B. Venkata Rao Sri K. Venkat Rao Dr ESRS Sharma Dr. T. Narsimha Murthy Sri SVVD. Durga Prasad Sri Ch Siva Krishna	Arrangement of Lunch	
8.	Refreshments	Sri K. Venkat Rao Sri V. Sridhar Dr. P Murali Krishna Dr. V. Satyanarayana Sri SVVD. Durga Prasad Sri Ch. Siva Krishna	lunch and snacks for all	
9.	Public Relations	Dr.J.Suresh Dr.P.Surekha Ch. Rajani Dr.P.Surya Sri Ch Siva Krishna	Taking photos, videos (includinglive streaming), press note and collecting the paper clips etc	
10.	Receiving & Hospitality	Sri J. Jacob Dr. B. Mallikarjuna G Tejaswini Dr P Surekha Dr. T. Narsimha Murthy Dr.J. Suresh Dr. ESRS. Sharma	Hospitality for guests	
11.	Live Streaming	Sri P. Siva Kumar Dr. V.Satyanarayana Sri KVV.Rangarao Sri SVVD Durga Prasad	You tube Live streaming and Collection of feedback from international students	
12.	Stage Decoration	Sri P. Siva Kumar Dr.P.Surekha Dr.N. Baby Nirmala Dr .M. Trinadh Sri Ch. Siva Krishna	Stage decoration, arrangement for lightening etc in inaugural & valedictory	

13.	Banners, Badges Certificates, Flyer & Brochure	Dr. M. Trinadh Sri M. Sudhakar Sri U. Saikrishna Dr. ESRS. Sharma	To prepare Flyer , Brochure , Badges,banners &certificates	
14.	Accommodation	P.Murali Krishna Dr. M. Trinadh Sri M. Prasad Dr. T. Narsimha Murthy	Arrangement of Accommodation to Resource persons	
15.	TA & Honororium	Dr Ch. Rajani G Tejaswini Dr M. Padmaja Dr. P. Surya Sri SVVD. Durga Prasad	Collection of TA bills from Resource Persons and receiving honorarium forms	
16	Felicitation Committee	Dr N.Baby Nirmala G Tejaswini Dr M.Padmaja Smt. J Shashi sri Dr. P Surya sree and all the members of Department	Honouring Speakers with shawls, bouquet, memento etc	
17.	Invitation committee	Sri. T. Srinivasa Rao Dr. B. Mallikarjuna Sri. V. Sridhar Sri K. Venkat Rao Dr.J.Suresh	Inviting Chief guest, JD, RJD & allHODs and departments	
18.	Invitation to Other Colleges	Sri V Sridhar Dr. B. Mallikarjuna Dr V Durga Praveena U. Saikrishna Dr. P. Murali Krishna Dr. V. Satyanarayana Sri M. Prasad Dr.L.Rajeswari Dr.P.Surekha Dr. CH. Rajani	Inviting colleges in Surroundings of our College 1. SKVT GDC, RJY 2. SKR GDC (W),RJY 3.GDC Kovvuru 4.GDC Eleswaram 5.GDC Jaggampeta 6. GDC Seethanagaram 7. GDC Nidadavole (M) 8. GDC Nidadavole (W) 9.Aditya Degree College, RJY 10. Samhitha Degree College, RJy	

			11. Rajamahendri Degree College, Rjy	
19.	Discipline	Sri U. Saikrishna Sri M.Prasad Dr.V. Satyanarayana	To maintain discipline among students	
20.	Research Paper Publication	Dr B Mallikarjuna Dr. V Durga Praveena Dr.L. Rajeswari Dr. P. Surekha Dr. P. Murali Krishna Dr. V. Satyanarayana	Review of Papers for submission to Publishers	

Anusandhan National Research Foundation (ANRF)
(A statutory body created by an Act of Parliament - ANRF Act, 2023)
Science & Engineering Research Board (SERB)
Seminar/Symposia Scheme ANRF
3rd & 4th Floor, Block II
Technology Bhavan, New Mehrauli Road
New Delhi – 110016

Assistance to Professional Bodies and Seminar Symposia
File Number: SSY/2025/001815
Dated: 09-Oct-2025

Subject: Recommendation on Application titled International Conference on Resilient Innovations for Subsistence Environment (ICRISE-2025) for Financial Assistance under "Assistance to Professional Bodies Seminar / Symposia Scheme"

Dear Dr. Gara Tejaswini,

We are pleased to inform you that your application for financial assistance under the "Assistance to Professional Bodies & Seminar / Symposia Scheme" has been reviewed and recommended for approval.

Please note that the grant is specifically for the "International Conference on Resilient Innovations for Subsistence Environment (ICRISE-2025) " scheduled from 21-Nov-2025 to to 22-Nov-2025.The following budget is recommended for this event:

S. No	Budget Head	Amount (In Rs.)
1	Domestic Travel for Young and Senior Scientists (Indian Only)	135000
2	Pre-Conference Printing (Announcements, abstracts etc.)	25000
3	Contingency/Incidental Expenses (to meet working expenses/accommodation/venue costs during the event)	30000
		Total: 190000

To proceed with the release of funds, kindly submit the required documents, along with the RTGS details, within 15 days of receiving this letter. If the documents are not received within this period, it will be assumed that you are no longer interested in the grant, and the offer will be automatically withdrawn. No further communication will be entertained thereafter.

Please also note that no separate postal communication will be sent regarding this matter, and any changes to the event date without prior approval from ANRF will not be accepted.

Thank you for your attention.

Sincerely,
With kind regards,
(Dr. Pankaj Rawat)
Scientist E
Ph: Ph: 911126552194
Email: seminar.symposia@anrf.gov.in

Dr. Gara Tejaswini
CHEMISTRY
Government College (Autonomous),
Rajahmundry, Y. junction, rajamahendravaram, East godavari, Andhra pradesh-533103

Proceedings of Sanctioning of OD

PROCEEDINGS OF THE DIRECTOR OF COLLEGIATE EDUCATION
AP::MANGALAGIRI

Present: Dr. Narayana Bharath Gupta, IAS.,

Proc. No. 54/CCE-AP/ON DUTY/AC-06/2025 Date: 19-11-2025.

Sub: Collegiate Education – Government College (A), Rajahmundry – Department of Chemistry - Organizing ANRF (DST/SERB) sponsored Two-day International Conference ICRISE-2025 on 21st and 22nd November 2025 - Request from the Principal to sanction On Duty to the participants –Permission Accorded –Reg.

Ref: Rc.No.Nil dated: 07/11/2025 from the Principal Government College (A), Rajahmundry (e-office file bearing C.NO: **3030657)**

*****

It is to inform that the Principal, Government College (A), Rajahmundry, vide the letter cited in the reference, submitted that the Department of Chemistry, Government College (A), Rajahmundry is going to organize the ANRF (DST/SERB) sponsored Two-day International Conference on "Resilient Innovations for Subsistence Environment (ICRISE-2025)" on 21st and 22nd November 2025 in hybrid mode (Virtual and Physical mode). It is further informed that the ICRISE-2025 is a prestigious event organized by Govt. College (A-Rajahmundry that brings together experts, researchers, and practitioners from around the world to discuss the latest advancements, trends, and best practices towards the protection of environment.

In this Connection, the Principal, Government College (A), Rajahmundry requested the DCE to sanction ON-DUTY to the participants from Government and Aided Degree Colleges in the state of Andhra Pradesh to enable them to participate in the International Conference.

In the circumstances stated above, the Director of Collegiate Education A.P Mangalagiri, hereby permits the Principals of Government and Aided Degree Colleges in the state to sanction "ON DUTY" to the faculty who are going to attend (in offline/physical mode only) the ANRF (DST/SERB) sponsored Two-day International Conference on "Resilient Innovations for Subsistence Environment (ICRISE-2025), proposed to be organized by the Department of Department of Chemistry, Government College (A), Rajahmundry on 21st and 22nd November 2025. The absence of the participants on the above dates shall be treated as On-Duty on submission of Attendance Certificate issued by the organizers of the International Conference.

Sd/- Dr. Narayana Bharath Gupta, IAS.,
Director of Collegiate Education

To
The Principals of all Govt and Pvt. Aided Degree.
Copy to the RJDCEs of Zone, I, II, III and IV for information.

//ATTESTED//

19/11/25

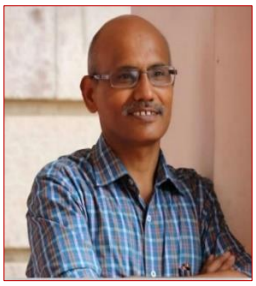
Dr.Ch.Tulasi Mastanamma
Academic Guidance Officer

International Conference on
Resilient Innovations for Subsistence Environment (ICRISE-2025)
Program Schedule

Day 1 Schedule (21.11.2025)				
Time	**Session**	**Speaker**	**Topic/Particular**	**Chair**
9:00 AM - 9:30 AM	**Registration**			
10:00 AM - 11:00 AM	**Inaugural Session**			
11:00 AM - 12:00 NOON	Session 1: Keynote Address	Prof. K. R. Prasad	The Progression of Organic Synthesis: From Wohler to the Current State of the Art	Dr. V. Satyanarayana
12:00 NOON -12:15 AM	**Tea Break**			
12:15 PM – 1:00 PM	Session 2: Invited Talk	Dr. Rama Krishna Dadi	From Reaction Engineering to emission mitigation – Green Catalysis Driven Solutions to engine emission reduction	Sri V. Sridhar
1:00 PM - 2:00 PM	**Lunch Break / Poster Presentations**			
2:00 PM - 2:45 PM	Session 3: Invited Talk	Dr. Adinarayana Doddi	Stereo-Electronically Tuned NHC-Supported Species: Versatile Platforms in Metal-Free and Metal-Based Homogeneous Catalysis	Sri J. Yacobe
2:45 PM - 3:30 PM	Session 4: Invited Talk	Dr. Rajeswara Rao M	Tetrazine Based Polymers for Environmental and Biological Sensing	Sri P. Siva Kumar
3:15 PM - 3:45 PM	**Tea Break**			
3:45 PM - 4:00 PM	Session 5: Invited Talk	Dr. M. L. N. Acharyulu	Sustainable Materials-Order of the Day to Combat Climatic Changes	Dr. B. Mallikarjuna
4:00 PM - 6:00 PM		All participants	Oral/Poster Presentations	Dr. L. Rajeswari/ Dr. V. Durga Praveena

International Conference on
Resilient Innovations for Subsistence Environment (ICRISE-2025)
Program Schedule

Day 2 Schedule (22.11.2025)				
Time	**Session**	**Speaker**	**Topic/Particular**	**Chair**
9:15 AM - 10:00 AM	Session 1: Invited Talk	Dr. -Ing. Pratap Kollu	Sodium-ion Batteries: The Next Terawatt-Hour Technology?	Dr. T. Narasimha Murty
10:15 AM - 11:00 AM	Session 2: Invited Talk	Dr. Srinivasa Rao Karra	Organic Chemistry at the Heart of Drug Discovery	Dr. Ch. Rajani
11:00 AM - 11:15 AM	**Tea Break**			
11:15 AM - 12:00 NOON	Session 3: Invited Talk	Dr. B. V. Subba Reddy	Highly diastereoselective total synthesis of Vibegron, Eliglustat, (S)-Tolvaptan & Ternatusine	Dr. M. Trinadh
12:15 PM - 1:00 PM	Session 4: Invited Talk	Dr. Srinivas Kalidindi	Process Development of Complex APIs via Resilient Innovations: Challenges and Opportunities	Dr. M. Padmaja
1:00 PM - 2:15 PM	**Lunch Break / Poster Presentations**			
2:15 PM - 3:00 PM	Session 5: Invited Talk	Dr. Bandi Suresh	Sustainable Materials Design: Phase structure tuning in tungsten oxides	Sri U. Sai Krishna
3:00 PM - 3:45 PM		All participants	Oral/Poster Presentations	Dr. L. Rajeswari/ Dr. V. Durga Praveena
3:45 PM - 4:00 PM	**Tea Break**			
4:00 PM - 5:00 PM	**Valedictory Session**			



Prof. Kavirayani R. Prasad,
Organic Chemistry,
Indian Institute of Science, Bengaluru, India
e-mail: prasad@iisc.ac.in

Education

- BSc: Andhra University, Visakhapatnam (1989)
- MSc: Sri Krishnadevaraya University, Anantapur (1991)
- PhD: National Chemical Laboratory, Pune (1997)
- Alexander von Humboldt Foundation Post-Doctoral Fellow: Organisch-Chemisches Institut, Universität Münster, Germany (1998-2000)
- Post-Doctoral Fellow: Department of Chemistry, Temple University, Philadelphia, USA (2000-2003)

Professional Experience

- 07/2014–Present: Professor, Department of Organic Chemistry, Indian Institute of Science, Bangalore, 560012, India
- 08/2008–07/2014: Associate Professor, Department of Organic Chemistry, Indian Institute of Science, Bangalore, 560012, India
- 11/2003–08/2008: Assistant Professor, Department of Organic Chemistry, Indian Institute of Science, Bangalore, 560012, India
- 03/2003–10/2003: Research Scientist, Praecis Pharmaceuticals Inc (presently GlaxoSmithKline), Waltham, MA, USA

Research Interests

- The core theme of Prof. Prasad's research is the total synthesis of complex natural products of therapeutic significance, emphasizing asymmetric synthetic strategies and methodologies. Recent investigations include total syntheses of complex macrolactones (e.g., palmerolides, arenicolides), indole alkaloids (e.g., strychnine), and triquinane natural products. The group develops strategies using chiral sulfinimines for bio-active alkaloids and collaborates on bio-activity profiles of natural products and analogues, focusing on the p53 protein.

Representative Publications

- Vaithegi, K.; Pawar, A. B.; Prasad, K. R. Synthesis of the Macrolactone Core of the Revised Structure of Palmerolide C. Tetrahedron 2021, 77, 131768.
- Khandare, S. P.; Reddy, P. O.; Prasad, K. R. Addition of Lithium Anion of (Acetylmethylene)triphenylphosphorane to Nonracemic Sulfinimines: Total Synthesis of (+)-241D and Formal Total Synthesis of (+)-Preussin. Org. Lett. 2020, 22, 7273-7277.
- Reddy, P. O.; Reddy, A. A.; Prasad, K. R. Stereoselective Synthesis of β-Amino Ynones by the Addition of Alkynones to Nonracemic Sulfinimines: Formal Total Synthesis of l-Xylo and l-Arabino Phytosphingosines. J. Org. Chem. 2020, 85, 2743-2751.
- Uphade, M. B.; Reddy, A. A.; Khandare, S. P.; Prasad, K. R. Stereoselective Addition of a Lithium Anion of 1,1-Diphenyl-2-aza-pentadiene to Sulfinimines: Application to the Synthesis of (−)-Epiquinamide. Org. Lett. 2019, 21, 9109-9113.
- Airan, Y.; Prasad, K. R. Furan Oxidation Strategy for the Total Synthesis of Macrolactone Analogue of Migrastatin. J. Org. Chem. 2019, 84, 14974-14979.

Awards and Honors

- Associate Editor, Organic Letters (American Chemical Society)
- Fellow, Indian Academy of Sciences (2015)
- Shanti Swarup Bhatnagar Prize for Chemical Sciences (2014)
- Prof. N. S. Narasimhan Endowment Lecture Award, University of Pune (2013)
- Rajib Goyal Prize (2012)
- NASI-SCOPUS Young Scientist Award
- Swarnajayanthi Fellowship, Department of Science and Technology, New Delhi (2006)
- Prof. A. S. R. Anjaneyulu Endowment Lectureship, Indian Chemical Society (2007)
- Alexander von Humboldt Foundation Post-Doctoral Fellowship, Germany (1998-2000)

Dr. Adinarayana Doddi,
Associate Professor,
Department of Chemical Sciences,
Indian Institute of Science Education and Research (IISER) ,
BerhampurTransit Campus, Industrial Training Institute (ITI),
Engineering School Road, 760010, Ganjam District, Odisha
Email: adoddi@iiserbpr.ac.in
ORCID ID: 0000-0003-1803-4818

Research Interests:

- Main Group and Organometallic Synthesis
- Sustainable Homogeneous Catalysis
- Frustrated Lewis Acid-Base Pairs/Applications in Expensive Metal Free Catalysis
- Designing of new Ligand Scaffolds/Cooperative Catalytic Applications of Bimetallic Complexes
- Structure & Bonding Aspects of Metal-Metal Bonded Species of MGs and TMs

Educational Qualifications:

- Ph.D. in Chemistry (Dr. rer. nat.) 2009-2013, Ruhr-University Bochum, Germany (Supervisor: Prof. Dr. Roland A. Fischer)
  Thesis: Synthesis and structures of low-valent gallium(I) supported organometallic compounds and new organometallic routes to intermetallic nickel-gallium nanoparticles
- M.Sc. in Chemistry, Indian Institute of Technology Madras, Chennai, India
  Thesis: Cationic and neutral hypervalent silicon systems - synthesis and characterization
- B.Sc., A.M.A.L. College (Affiliated to Andhra University, Visakhapatnam, India)

Professional Experience:

- Associate Professor (Feb 2025–present): Department of Chemical Sciences, IISER Berhampur
- Assistant Professor (Aug 2019–Jan 2025): Department of Chemical Sciences, IISER Berhampur

- Ramanujan Faculty (May–Jul 2019): Department of Chemical Sciences, IISER Berhampur
- Visiting Faculty (Jan–Apr 2019): Department of Chemical Sciences, IISER Berhampur
- Sub-Group Leader (2017–2019): Research group of Prof. Dr. Matthias Tamm, TU Braunschweig, Germany
- Postdoctoral Research Scientist (2013–2017): Group of Prof. Dr. Matthias Tamm, TU Braunschweig, Germany (Focus: Main Group and Transition Metal Organometallic Chemistry)
- Junior Research Fellow: Heavy Water Board, Dept. of Atomic Energy, India (Project: Synthesis and characterization of derivatives of poly(dichlorophosphazene) for uranium extraction)

Awards and Fellowships:

- Ramanujan Fellowship (SERB, 2019–2024)
- DAAD Travel Fellowships (ICOMC-2018, ICOMC-2014)
- Best Poster Award, MTIC-XIV (2011)
- GATE Qualified (2005); IIT-JAM Qualified

Teaching and Supervision:

- 6+ years teaching at IISER Berhampur (BS-MS, PhD courses: CHM 104, 201, etc.)
- Supervised: 8 BS-MS theses, 2 PhDs completed

Key Publications (Selected Recent):

#	Title	Authors	Journal/Status	Year
36	Redox-Active NHC-Bearing Silver(I) Complexes...	A. Moharana, J.K. Sahoo, A. Doddi	Under revision	-
34	Pd(II) Mediated Si-H Activation...	K. Sahoo et al., A. Doddi*	Inorg. Chem. 64, 20467–20480	2025
33	Di- and tetra-nuclear cationic silver(I) complexes...	Das et al., A. Doddi	Inorg. Chem. 64, 14182–14192	2025
30	Cationic and Neutral Ruthenium(II) Complexes...	A.K. Sahoo et al., A. Doddi*	Dalton Trans. 54, 4312-4323	2025

(Full list of 36+ publications available in original CV; highlights include cover contributions and high-impact journals like Angew. Chem., Chem. Eur. J.)

Funded Projects:

- Ramanujan Fellowship Grant (SERB, 2019–2024): Anionic group 14 tetranylidenes
- Startup Research Grant (SERB, 2021–2023): NHC-supported sila-/garmanylidenes
- MoE-STARS (MHRD, 2023–2025): Phosphino silyl ligands for CO_2 reduction
- Core Research Grant (SERB): Redox-active NHC ligands

Conferences Organized:

- Convener, ICFPAM-2024 (Nov 2024)
- Convener, DCS-Symposium 2024 (Oct 2024)

Prof. Rajeswara Rao. M.,
Associate professor,
Department of Chemistry,
Ph No: +91-836-2212-834 (or) +91-9967-114-958
Indian Institute of Technology Dharwad-580011, Karnataka
E-mail: rajesh@iitdh.ac.in
https://scholar.google.com/citations?hl=en&user=bSmbLv8AAAAJ

Reearch Interests:

- □-Conjugated organic and inorganic compounds for optoelectronics
- NIR-absorbing and emissive materials
- Organic fluorescent materials for ion and explosives sensing
- Polycyclic aromatic hydrocarbons with ground-state open-shell biradicals
- □-Conjugated two-dimensional organic polymers

Work Experience:

- Associate Professor at IIT Dharwad, Dharwad, India July 2023 - till date
- Assistant Professor at IIT Dharwad, Dharwad, India July 2017 - July 2023
- Research associate at IIT Bombay, Mumbai, India. Jan. 2017 - July 2017
- Post-doctoral fellow at McGill University, Montreal, Canada. Sept. 2013 - Dec. 2016 Advisor: Prof. Dmitrii F. Perepichka
- Post-doctoral fellow at Academia Sinica, Taipei, Taiwan. Sept. 2011 - July 2013 Advisor: Dr. Shih-Sheng Sun
- Doctoral student at IIT Bombay, Mumbai. Jan. 2006 - June 2011 Advisor: Prof. M. Ravikanth
- Thesis title: Synthesis and studies of porphyrin and boron-dipyrromethene (BODIPY) based fluorescent systems.

Scholastic Achievements:

1. Early Carrier Research Award (ECRA-SERB) for the period 2019-2022.

2. IIT Bombay research paper award 2013 for the highest citations during the period 2005- 2013 (Tetrahedron 2010, 66, 1728).
3. Quebec Merit Post-Doctoral Scholarship (PBEEE) for Foreign Nationals; Canada (Sept. 2013- August 2014).
4. Eli Lilly Asia Outstanding Thesis Award given by the Discovery Chemistry Research and Technologies division at Eli Lilly & Company, Indianapolis, USA, 2011.
5. "Best Oral Presentation Award" in National Symposium on "Chemistry of Functional Materials (CFM-09)" Goa, India, 2008.
6. Senior Research Fellowship sponsored by Council of Scientific and Industrial Research, India, 2007.
7. Junior Research Fellowship sponsored by Council of Scientific and Industrial Research, India, 2005.
8. Received IIT Bombay highest citation research paper award 2013
   Citation impact: >2300 citations (h-index: 22).

Grants and Consultancies:

- Project Title: Design and development of low bandgap quinoidal covalent organic framework and their application in OFETs and photocatalysis
  Funding agency: SERB-CRG
  Amount granted: 43.94 Lakhs (PI)
  Duration: March 2023- Feb. 2026 (On-going)
- Project Title: Development of fluorescent and resistive sensors for monitoring crop health via the detection of plant-emitted Volatile Organic Compounds (VOCs)
  Funding agency: NASF-Indian Council of Agricultural Research (ICAR)
  Amount granted: 75.18 Lakhs (PI)
  Duration: June 2023-May 2026 (On-going)
- Project Title: Development of resistive sensors for early detection of crop infestation
  Funding agency: BITS -BioCyTiH foundation
  Amount granted: 42 Lakhs (Co-PI)
  Duration: Dec 2022-Nov 2026 (On-going)
- Project Title: "Development of Working Prototype of Electronic Sensors for PSA and CA 125" submitted by Principal Investigator (PI) - Prof. Ruma Ghosh and others.

Funding agency: IIT Dharwad multidisciplinary project

Amount granted: 20 lakhs (between four PIs)

Duration: Dec. 2023-Dec. 2024

- Project Title: C-H activation derived novel π-conjugated organic electronic compounds for sensing and optoelectronic applications

  Funding agency: SERB-ECRA

  Amount granted: ~37 Lakhs (PI)

  Duration: March 2019- Nov. 2022

- Project Title: Novel nitrogen incorporated indenofluorenes: An effective structural topology to modulate electronic properties and to develop low band gap polymers and stable ground state open shell biradicals

  Funding agency: CSIR-EMR (PI)

  Amount granted: 8 Lakhs

  Duration: August 2019- July 2022

- Project Title: Electrochemical sensor for soil health monitoring

  Funding agency: IIT Dharwad Agritech multidisciplinary project

  Amount granted: 13.5 Lakhs (PI)

  Duration: March 2021- March 2022

- Project Title: Open shell biradicaloids for NIR absorbing and optoelectronics applications

  Funding agency: Institute seed grant

  Amount granted: 05 Lakhs (PI)

  Duration: April 2019 - March 2021

- Project Title: Optimizing preparation and formulation of polyurethane based coating on open mould matrix to achieve smooth surface

  Funding agency: Colorplus Polyurethanes Pvt. Ltd. Hubli

  Amount granted: 04 Lakhs (PI)

  Duration: 2018-19

- Project Title: Optimization of cost-effective methods for the existing epoxy resin-based floor coating

  Funding agency: Colorplus Polyurethanes Pvt. Ltd. Hubli

  Amount granted: 12 Lakhs (PI)

  Duration: 2018-19

Research Publications:

1. Vinutha K. Venkatareddy; Atul B Nipate; M. Rajeswara Rao* and Ritambhara Sharma* Construction of polycyclic heteroaromatics via metal-catalysed intramolecular X–CH activation, Org. Biomol. Chem. 2025, Accepted.
2. Atul B. Nipate and M. Rajeswara Rao* "Unprecedented photochromism of ferrocene-aryl dicyanovinylenes" Dalton Trans. 2025, 54, 10343–10350.
3. Atul B. Nipate, M. Rajeswara Rao* "α,β-Diarylation on β-Diketo-BF2 Complexes: Strong Intrinsic Aggregation-Induced Emission and Organic Self-Recovering Electrochromism" J. Org. Chem. 2025, 90, 8319−8328.
4. Vellanki Lakshmi, Maruti Vibhuti Ravikumar, Aswani K Raj, M. Rajeswara Rao*, Vellanki Lakshmi "Structure-Property Evaluation of Knoevenagel-derived π-Conjugated Organic Systems" Eur. J. Org. Chem. 2025, 28, e202401367
5. Guruprasad Gorthala, Aswani Raj K, Ruma Ghosh* and M. Rajeswara Rao* "Multifunctional Two-Dimensional Tetrazine-Based Polymer for an Inverse Electron Demand Diels–Alder Reaction and Room-Temperature NO2 Sensing" ACS Applied Polymer Materials. 2025, 7, 1999−2006.
6. Vinutha K. Venkatareddy; Hamidreza Parsimehr; Anna Ignaszak* and M. Rajeswara Rao* "Near-IR absorbing tetraene-linked π-conjugated porous polymers for energy storage and electrical conductivity" Chem. Commun. 2025, 61 125–128.
7. Atul B. Nipate; K. Aswani Raj K and M. Rajeswara Rao* "Synthesis and Electrochromic Properties of Ferrocene-Aryl dicyanovinylene-based Donor-Acceptor Systems" J. Org. Chem. 2025, 90, 557−569.
8. Atul B. Nipate; Abhijeet V. Kamble and M. Rajeswara Rao* "Electron-deficient Indenofluorene-based Systems: Multicolor and Visible-to-near-infrared (NIR) Electrochromism and OFF-OFF-ON Electrofluorochromism" Chem. Asian J. 2025, 20 e202401095.
9. K. Aswani Raj and M. Rajeswara Rao* "Functional 1,2,4,5-Tetrazine Systems for Photocatalysis and Sensing" Asian J. Org. Chem. 2024, 14, e202400553.
10. Maruti Vibhuti Ravikumar; Atul B. Nipate; M. Jose Deyona; M. Rajeswara Rao* and Dr. Vellanki Lakshmi "Croconic Acid Integrated Zwitterionic Conjugated Porous Polymer for Effective Iodine Adsorption " Chem. Asian J. 2024, 19 e202401095.
11. Aswani Raj K, Subhajit Kar, Santanu Bhattacharyya and Rajeswara Rao Malakalapalli* Effect of Halogenation on Photocatalytic Hydrogen Evolution Performanceof Tetrazine Polymers. ACS Appl. Polym. Mater. 2024, 6, 7988−7995.

12. Vinutha K. Venkatareddy and M. Rajeswara Rao* "Vinylene-linked diketopyrrolopyrrole chromophores for electrochromism" RSC Adv., 2024, 14, 10017–10023.
13. Atul B. Nipate and M. Rajeswara Rao* "Pd-Catalysed Direct Arylation of Distyrylbenzene: Strong Dual-state Fluorescence and Electrochromism" Chem. Eur. J. 2024, 30, e202400015.
14. K. Aswani Raj and M. Rajeswara Rao* "Para-Azaquinodimethane Integrated Quinoidal Conjugated Microporous Polymer" J. Mater. Chem. C, 2024, 12, 110-117
15. K. Aswani Raj and M. Rajeswara Rao* "Synthesis of p-Azaquinodimethane-based Quinoidal Fluorophores" J. Org. Chem. 2023, 88, 14960–14968
16. Bai, M. G. M.; Atul B. Nipate and M. Rajeswara Rao* "Blue-to-Red-Emissive Star-Shaped Boranils" Chemistry select. 2023, 8, e202301039.
17. Vinutha, K. V.; Kumar, M.; Singh, V. P. and Rajeswara Rao, M.* ESIPT-Active Pyrene-imidazole Fluorophores: Ground-State Intramolecular Proton Transfer (GSIPT), Dual Solid- and Solution-State Emission Plus Counter-Intuitive Crystal Packing. Chem. Photo. Chem. 2023, 7, e202300115.
18. Enoch, S.; Atul, B. N.; V. Lakshmi* and Rajeswara Rao, M.* Croconic acid derived narrow bandgap conjugated microporous polymers. Chem. Commun. 2023, 59, 8846-8849.
19. Kamble A. V.; Raj, K. A. and Rajeswara Rao, M.* Synthesis of Electron-deficient Tetrazine-Tetracyanobutadienes and Their Transformation to Novel Pyridazines via Inverse-electron Demand Diels-Alder Cycloaddition (IEDDA) Org. Biomol. Chem. 2023, 21, 5790-5798.
20. Atul, B. N.; and Rajeswara Rao, M.* Solid-state red-emissive (cyano)vinylene heteroaromatics via Pd-catalysed C-H homocoupling Org. Biomol. Chem. 2023, 21, 4123-4129.
21. Raj, K. A., Joshi, S., Ghosh, R.* and Rajeswara Rao, M.* Structural tailoring of semiconducting tetrazine polymers based immobilizing matrix for superior electronic biosensing of carcinoembryonic antigen Polym. Adv. Technol. 2023, 34, 1331-1340
22. Laxman, K., Che, Y.; Raj, K. A.; Perepichka, D. F.* and Rajeswara Rao, M.* Trifluoroacetic acid promoted unexpected visible to NIR switching of ketoenamine-substituted triphenylamines. J. Mater. Chem. C. 2023, 11, 2680-2687.
23. Bai, M. G. M.; Atul, B. N.; and Rajeswara Rao, M.* Selectively sensing amines through aldehyde-functional conjugated microporous organic polymers via Pd-catalysed direct arylation. Polymer. J. 2023, 55, 133-140.

24. Bai, M. G. M.; Babu, H. V.; V. Lakshmi* and Rajeswara Rao, M.* Acid-modulated synthesis of novel p-conjugated microporous polymers for efficient metal-free photocatalytic hydrogen production. Chem. Eur. J. 2022, 28, e202202023.
25. Raj, K. A., Guru parsad, G.; Ghosh, R.* and Rajeswara Rao, M.* Tetrazine based 1D-Polymers for Selective Chemiresistive Sensing of Nitrogen Dioxide via Interplay of Hydrogen bonding and N-heteroatom interactions, Polymer. J. 2022, 54, 1191-1201
26. Joshi, S., Raj, K. A., Rajeswara Rao, M.* and Ghosh, R.* An electronic biosensor based on semiconducting tetrazine polymer immobilizing matrix coated on rGO for carcinoembryonic antigen. Sci. Rep. 2022, 12, 3006:1–14.
27. Bai, M. G. M.; Babu, H. V.; V. Lakshmi* and Rajeswara Rao, M.* Structure–property–function relationship of fluorescent conjugated microporous polymers. Mater. Chem. Front. 2021, 5, 2506.
28. G. Galeotti, F. De Marchi, E. Hamzehpoor,O. MacLean, M. Rajeswara Rao, Y. Chen, L. V. Besteiro, D. Dettmann, L. Ferrari,F. Frezza, P. M. Sheverdyaeva,R. Liu, A. K. Kundu, P. Moras, M. Ebrahimi, M.C. Gallagher, F. Rosei, D.F. Perepichka, G. Contini. Synthesis of mesoscale ordered 2D p-conjugated polymer with semiconducting properties Nature. Mater. 2020, 19, 874.
29. Lakshmi, V.; Liu, C.-H.; Rajeswara Rao, M.; Chen, Y.; Yuan, F.; Hamzehpoor, E.; Sakai-Otsuka, Y.; Stein, R. S.; Perepichka, D. F. A two-dimensional poly (azatriangulene) covalent organic framework with semiconducting and paramagnetic state J. Am. Chem. Soc. 2020, 142, 2155.
30. De Marchi, F.; Galeotti, G.; Simenas, M.; Gallagher, M.; Hamzehpoor, E.; MacLean, O.; Rajeswara Rao, M.; Chen, Y.; Dettmann, D.; Contini, G.; Tornau, E.; Ebrahimi, M.; Perepichka, D. F.; Rosei, F. Temperature induced Molecular reorganization on Au(111) driven by oligomeric Defects Nanoscale 2019, 11, 19468
31. Babu, H. V.; Bai, M. G. M. and Rajeswara Rao, M.* Functional π-Conjugated Covalent Organic Frameworks ACS Appl. Mater. Interfaces 2019, 11, 11029.
32. Isar, P.; Rajeswara Rao, M.; Ravikanth, M. “Synthesis, Characterization, Sensing and Coordination Properties of Trans-Homoporphodimethenes” Eur. J. Org. Chem. 2018, 3095-3104.
33. Kumar. S.; Rajeswara Rao, M.; Ravikanth, M. “Stable Core-modified Doubly N-confused Expanded Dibenzoporphyrinoids” J. Org. Chem. 2018, 83, 1584.
34. Alka, A.; Pareek, Y.; Shetti, V. S.; Rajeswara Rao, M.; Theophall, G. G.; Lee, W. Z.;

Lakshmi, K. V.; Ravikanth, M. "Construction of Novel Cyclic Tetrads by Axial Coordination of Thiaporphyrins to Tin(IV)Porphyrins" Inorg. Chem. 2017, 56, 13913.

35. Kumar, A.; Rajeswara Rao, M.; Lee, W. Z.; Ravikanth, M. "Hybrid Macrocycles of Subporphyrins and Triphyrins" Org. Lett. 2017, 19, 5924.
36. Sharma, R.; Rajeswara Rao, M.; and Ravikanth, M. "a-Pyrrolyl Dipyrrins as Suitable Ligands for Coordination chemistry" Coord. Chem. Rev. 2017, 348, 92.
37. Lijia. L; Filip. P; Rajeswara Rao, M; and Perepichka, D. F. "A Wide Bandgap Naphthalene Semiconductor for Thin-film Transistors" Adv. Electron. Mater. 2017, 3, 1600556.
38. Rajeswara Rao, M; Fang, Y.; DeFeyter, S. and Perepichka, D. F. "Conjugated Covalent Organic frameworks via Michael Addition-Elimination" J. Am. Chem. Soc. 2017, 139, 2421.
39. Rajeswara Rao, M; Johnson, S.; and Perepichka, D. F. "Aromatization of Benzannulated Perylene-8,16-diones: Photophysical Properties and Reactivity" Org. Lett. 2016, 18, 3574-3577.
40. Rajeswara Rao, M; Black, H. T.; and Perepichka, D. F. "Synthesis and divergent electronic properties of two ring-fused derivatives of 9,10-diphenylanthracene" Org. Lett. 2015, 17, 4224-4227.
41. Rajeswara Rao, M; Desmecht, A and Perepichka, D. F. "□-Extended indenofluorenes" Chem. Eur. J. 2015, 21, 6193-6201.
42. Chia-Wei Liao; Rajeswara Rao, M and Shih-Sheng Sun, "Structural diversity of new solid-state luminophores based on quinoxaline-□-ketoiminate boron difluoride complexes with remarkable switching properties" Chem. Commun. 2015, 51, 2656-2659.
43. Lakshmi, V; Rajeswara Rao, M and Ravikanth, M, "Halogenated Boron-dipyrromethenes: Synthesis, Properties and Applications" Org. Biomol. Chem. 2015, 13, 2501-2517.
44. Kaur, T; Rajeswara Rao, M and Ravikanth, M, "Multi-porphyrin arrays on cyclotriphosphazene scaffolds" Inorg. Chem. 2014, 53, 11051-11059.
45. Rajeswara Rao, M and Shih-Sheng Sun, "Supramolecular assemblies amide-derived organogels featuring rigid □-conjugated phenylethynyl frameworks" Langmuir 2013, 29, 15146-15158 (Invited Feature article).
46. Rajeswara Rao, M.; Chia-Wei Liao and Shih-Sheng Sun, "Structurally simple thienodipyrandione-containing reversible fluorescent switching piezo- and acido-chromic materials" J. Mater. Chem. C 2013, 1, 6386-6394.

47. Rajeswara Rao, M.; Chia-Wei Liao.; Wei-Lin Su and Shih-Sheng Sun, "Quinoxaline based D-A-D molecules: high contrast reversible solid-state mechano- and thermo- responsive fluorescent materials" J. Mater. Chem. C 2013, 1, 5491-5501.
48. Rajeswara Rao, M and Ravikanth, M, "Synthesis of functionalized core-modified sapphyrins and covalently linked porphyrin-sapphyrin dyads" Tetrahedron 2012, 68, 1306- 1314.
49. Khan, T. K.; Jana, S. K.; Rajeswara Rao, M.; Shaikh, M. S. and Ravikanth, M. "Synthesis and electronic properties of meso-furyl boron-dipyrromethenes" Inorg. Chim. Acta 2012, 383, 257-266
50. Rajeswara Rao, M.; Manu T. T, Suresh, B. and Ravikanth, M. "Synthesis of BF_2 complexes of prodigiosin type oligopyrroles" J. Org. Chem. 2011, 76, 7263-7268.
51. Rajeswara Rao, M. and Ravikanth, M. "Boron complexes of oxasmaragdyrin, a core-modified expanded porphyrin" J. Org. Chem. 2011, 76, 3582-3587.
52. Madhu, S.; Rajeswara Rao, M.; Shaikh, M. S. and Ravikanth, M. "3, 5-Diformyl Boron-dipyrromethenes as Fluorescent pH sensors" Inorg. Chem. 2011, 50, 4392-4400.
53. Rajeswara Rao, M.; Ghosh, A. and Ravikanth, M. "Synthesis, spectral and electrochemical properties of cyclotriphosphazene appended with six metalloporphyrins" Inorg. Chim. Acta 2011, 372, 436-441.
54. Rajeswara Rao, M. and Ravikanth, M. "Synthesis and anion binding studies of covalently linked porphyrin-expanded heteroporphyrin dyads" Eur. J. Org. Chem. 2011, 1335-1345.
55. Khaderbad, M. A.; Roy, U.; Yedukondalu, M.; Rajeswara Rao, M.; Ravikanth, M. and Rao, V. R. "Variable interface dipoles of metallated porphyrin self-assembled monolayers for metal-gate work function tuning in advanced CMOS technologies" IEEE Transactions on Nanotechnology 2010, 9, 335-337.
56. Khan, T. K.; Rajeswara Rao, M. and Ravikanth, M. "Synthesis and shotophysical properties of 3,5-bis(oxopyridinyl)- and 3,5-bis(pyridinyloxy)-substituted boron-dipyrromethenes" Eur. J. Org. Chem. 2010, 2314-2323.
57. Rajeswara Rao, M.; Pavan Kumar, K. V. and Ravikanth, M. "Synthesis of boron-dipyrromethene ferrocene conjugates" J. Organomet. Chem. 2010, 695, 863-869. (Featured in top 25 hottest articles list for JOMC during Jan to March 2010)
58. Rajeswara Rao, M.; Mobin, S. M. and Ravikanth, M. "Boron-dipyrromethene based specific chemodosimeter for fluoride ion" Tetrahedron 2010, 66, 1728-1734.

59. Rajeswara Rao, M.; Bolligarla, R.; Butcher, R. J. and Ravikanth, M. "Hexa boron-dipyrromethene cyclotriphosphazenes: Synthesis, crystal structure, and photophysical properties" Inorg. Chem. 2010, 49, 10606-10616.
60. Rajeswara Rao, M.; Gayatri, G.; Amit, K.; Sastry, G. N. and Ravikanth, M. "Cyclotriphosphazene ring as a platform for multiporphyrin assemblies" Chem. Eur. J. 2009, 15, 3488-3496.

Research Monitoring:

- PhD: Five (Vinutha, K. V., Abhijeet V Kamble; Yeshwanth, Sharad Pandey and Bharath M. A.), Postdoctoral: one (Dr. Mallikarjuna)
- Project Associate: One (Chetan)
- Master students: Two (Krishnanshu Yadav and Gurusimran)
- PhD: Three (Monika Bai M. G.; Aswani Raj K; Atul B. Nipate)
- Internships: Eight (Rudra, Sankar, Adinarayana, Apoorva, Nandhish, Akash, Subadhra and Mahima)

Book Chapters:

1. Aswani Raj and Rajeswara Rao* Crystalline Two-dimensional Organic Porous Polymers (Covalent Organic Frameworks) for Photocatalysis Book title: Material Science in photocatalysis" Elsevier publishing, 2021
2. Rajeswara Rao, M. and Shih-Sheng Sun. "Supramolecular assemblies of organogels featuring □-conjugated framework with long-chain dicarboxamides" Chapter, Pan Stanford Publishing, 2012.

Patents:

1. Vinutha K.V, Spoorti M, Ruma Gosh*, and M Rajeswara Rao* "Chemiresistive sensor based on two dimensional dicationic Bipyridyl Vinylene-linked polymer" Indian patent, 2024 (Application No. 202441024492).
2. Spoorti M, Vinutha K V, M Rajeswara Rao,* and Ruma Gosh* "Resistive Sensor based on one dimensional pi-conjugated dicationic 4,4'- bipyridine polymer and method" Indian patent, 2024(Application No.202441024489).
3. Raj, K. A., Guruprasad, G.; Ghosh, R.* and Rajeswara Rao, M.* Two Dimensional Tetrazine Polymer Based SF_6 and NO_2 Sensor. Indian patent, 2023 (File no: 202341070442).
4. Joshi, S., Raj, K. A., Rajeswara Rao, M.* and Ghosh, R.* An electronic biosensor for detection of carcinoembryonic antigen. Indian patent, 2022 (File no:

202141055870).

5. Rajeswara Rao, M. and Ravikanth, M. "A simple method for the synthesis of biocompatible 3-pyrrolyl boron-dipyrromethenes" Indian patent, 2011 (File no: 1443/mum/2011).

Professional Service:

- Reviewing papers (~10 papers a year): J. Am. Chem. Soc., Chem. Commun., ACS Applied Mater. Interfaces, ACS Applied Polymer Materials, Chem. Soc. Rev.., Chem. Eur. J., Chemosphere, etc.

Administrative Roles:

- Current position: Associate Dean – Gymkhana, Clubs and Technology Previous held positions:
- Head of the Chemical Engineering Department
- Faculty in charge of the Sophisticated Central Instrumentation Facility (SCIF) Faculty in charge of sports (student welfare)
- Associate Warden
- Institute representative for I-STEM Faculty associate for 1.5 years

Invited Talks:

1. Graphene-like 2D-π-Conjugated Organic Polymers in two-day conference (Recent Advances in Chemistry organized by Karnatak University on 24th and 25th March, 2018).
2. Two-Dimensional Organic polymers in a two-day webinar series (Organic and Polymeric Materials organized by Vellore Institute Technology, Chennai, on 23rd and 24th July, 2020).
3. 2D-Organic polymers: Novel Materials that add a dimension to π-conjugation in a two-day conference (New era sensing Technologies: Healthcare, environmental and rural applications, Organized by IIT Dharwad on 5th and 6th of March, 2021).
4. Two-Dimensional π-Conjugated polymers (XXIV NOST-2025, organized by IIT Delhi on 3rd- 6th March, 2025).
5. Synthetic approaches for boosting π-delocalization in 2D-organic polymers (Rasaayan Sangooshthi at IIT Dharwad on 22nd, March, 2025).
6. Knoevenagel Condensation-derived 2D-polymers for sensing and conductivity (Advances in Functional Materials for Energy and Catalytic applications at NIT Suratkal, Karnataka, on 7th- 11th May, 2025).

7. Organic Frameworks: Fundamental design to Noble and application in Chemistry (Nobel- 2025- Celebrating Excellence in Physics, Chemistry, and Medicine organized by the Internal Quality Assurance Cell, K.L.E. Society's P.C. Jabin Science College, Hubballi, on 11th November, 2025).

Technical Contributions:

- Member of Board of Studies- Basaveswar Engineering College, Bagalkot, 2019-2022.
- External academic auditor- SDM Engineering college, 2024-2026.
- Member of Board of Studies- BES, Bagalkot, 2025-2028.

Dr. Bandi Suresh,
Assistant Professor,
Dept. of Metallurgical and Materials Engineering,
Malaviya National Institute of Technology, Jaipur, India
Email - sureshbmet@gmail.com, suresh.met@mnit.ac.in;
Phone - +91-9549651648;
Profiles - Google Scholar, ResearchGate, ORCID, LinkedIn, MNIT Profile,
Personal Website.

Research Interests

- Focus areas include nano-structured materials, functional nanomaterials, metal oxides, non-stoichiometric oxides, phase transformations, waste-to-wealth (e.g., graphene from waste), and surface protection coatings.
  Metrics: 15 SCI journal publications (first author 12, co-author 2), 6 Indian patents, 4 book chapters, 25 conferences, 403 citations, h-index 11.

Education

- Ph.D. in Metallurgical & Materials Engineering (2017-2022, defended May 10, 2022), Visvesvaraya National Institute of Technology (VNIT), India. Thesis: "Formation Pathways and growth mechanisms of metal oxide/graphene nanostructures." Supervisor: Dr. Ajeet Kumar Srivastav.
- M.Tech. in Industrial Metallurgy (2014-2016), Andhra University, Visakhapatnam. Thesis: "Effect of low temperature sensitization on corrosion behavior of 304L SS..." Supervisors: Prof. N.B.R. Mohan Rao, Dr. U. Kamachi Mudali, Dr. Girija Suresh.
- B.Tech. in Metallurgical & Materials Engineering (2010-2014), Rajiv Gandhi University of Knowledge Technologies, Nuzvid, India.

Awards & Recognitions

- 2021: Paper selected for Crystal Growth Design Emerging Investigators issue.
- 2021: Sci-Art Image Competition certificate ("Balanced Stones").
- 2018: AWSAR-DST award for gas sensing story.
- 2018: 3rd best oral presentation, CHEMIX-18.

Professional Experience

Position	Institution	Duration
Assistant Professor (G-11), Metallurgical & Materials Engineering	MNIT Jaipur	Jan 2024–Present
Assistant Professor (G-11), Applied Mechanics	MNNIT Allahabad	Feb 2023–Jan 2024
Faculty Ad-hoc, Metallurgical & Materials Engineering	NIT Warangal	Aug 2022–Jan 2023
Research Associate	VNIT Nagpur	May 2022–Aug 2022
Research Fellow (JRF/SRF), SERB Project	VNIT Nagpur	Dec 2016–Sep 2019
M.Tech. Thesis Work	IGCAR, Kalpakkam	Oct 2015–Jul 2016

Funded Projects

- 2025: "A facile approach of developing WS2, WC, and W-alloy coatings..." (₹5 lakhs, MNIT Jaipur seed grant, PI, Ongoing).
- 2023: "Design and development of entropy stabilized Magnli oxides..." (₹5 lakhs, MNNIT Allahabad seed grant, PI, Withdrawn).

Key Publications (Recent SCI Journals)

- 2025: Shrawan Bairwa et al., "Corrosion and tribological behavior of Ni-Ti coatings," Journal of Alloys and Compounds.
- 2025: Pawan Bohane et al., "Improved properties in LM6 Alloy," JOM.
- 2022: "Formation mechanism of nanocrystalline W-derived cubic-H0.5WO3," Scripta Materialia.

  (Full list: 15 SCI papers; review on oxygen-deficient tungsten oxides in J. Mater. Sci. 2021).

Book Chapters

- 2023: "Graphene extraction from battery waste," Elsevier.
- 2022: "CNT/graphene-based biosensors," CRC Press.
- 2022: "Magnetic iron oxide nanoparticles," CRC Press.
- 2020: "Graphene-based chemiresistive gas sensors," Elsevier.

Patents (Selected)

Year	Title (Status)	Application No.
2025	Electrodeposition of Ni-Ti alloy coatings (Filed)	202511020992
2025	Nanocrystalline Ni-Ag alloy coatings (Published)	202511014465
2024	Hydrated Vanadium Pentoxide Nanosheets (Published)	202421063910
2024	Epsilon-WO3 nanoparticles (Published)	202421055171
2023	Nanocrystalline cubic hydrogen tungsten bronze (Granted)	IN421722
2020	Graphene from waste battery electrodes (Granted)	IN332793

Collaborations

- Key collaborators: Prof. Flaviano Garcia Alvarado (Spain), Dr. Ajeet Kumar Srivastav (VNIT), Prof. Joysurya Basu (IIT BHU), others in Korea/Spain

Conferences (Selected)

- 2025: Oral on W18O49 nanowires, IUMRS-ICA 2024.
- 2022: Invited lecture on PhD thesis, IUMRS-ICA & MRSI.

Administrative Roles & Events

- 2024–Present: Dept. Coordinator (Industry Interactions, Alumni), MIS/Web/Library In-Charge, MNIT Jaipur.
- Organized: Short-term course "Metallurgy for Non-Metallurgists" (2024, Hindustan Zinc); Workshop "Advanced Materials Characterization" (2024).

Dr. Srinivasa Karra,
Director, Medicinal Chemistry,
Avilar Therapeutics, Waltham, Massachusetts, USA.

Professional tagline: "Passionate drug hunter"

Education:

- Ph.D., Organic Synthesis – University of Hyderabad, India (1986–1992)
  Work on total synthesis, including first enantiospecific syntheses of three terpene natural products.
- M.Sc., Organic Chemistry – Govt. Arts College, Rajahmundry, Andhra Pradesh, India (1983–1985)
- B.Sc., Chemistry – Govt. Arts College, Rajahmundry, Andhra Pradesh, India (1980–1983)

Professional experience:

- Director / Associate Director, Chemistry – Avilar Therapeutics (Aug 2020 – Apr 2025)
- Led an oral ATAC (ASGPR Targeting Chimera) program for extracellular protein degradation.
- Developed high-affinity ASGPR ligands; designed heterobifunctional ATACs and peptide ligands.
- Managed internal and external chemistry, NMR, peptide/small-molecule CROs; contributed to IP.
- Independent Consultant (Medicinal Chemistry) – Freelance (Mar 2020 – Aug 2020)
- Principal Scientist – Alkermes (Jan 2019 – Oct 2019, Waltham, MA)
- Medchem lead on CNS targets; designed small-molecule inhibitors and GPCR agonists.
- Principal Scientist / Senior Scientist II / Senior Principal Investigator – EMD Serono / Serono R&D Institute (2002–2019, Rockland/Billerica, MA)

- Led oncology, immunology, and CNS programs (e.g., Aurora kinase, MEK1 inhibitors, P2X7 antagonists).
- Directed hit-to-lead and lead optimization, coordinated in vitro/in vivo pharmacology, ADME, PK, tox.
- Managed large CRO teams (China, India); contributed multiple development candidates.
- Research Scientist / Senior Research Scientist – Vion Pharmaceuticals (1998–2001, New Haven, CT)
- Designed enzyme-activated prodrugs and prodrugs of cytotoxic agents (e.g., Triapine derivatives).
- CMC representative for Cloretazine (VNP40101M) development team.

Research expertise:

- Domains: Medicinal and synthetic chemistry, oncology, CNS, immunology, extracellular protein degradation.
- Modalities: Orthosteric inhibitors, heterobifunctional degraders (ASGPR-targeted ATACs), peptide and cyclic peptide design, extracellular protein degraders.
- Technologies: DEL, ASMS, virtual screening, photoaffinity and covalent fragments, fragment-based screening, antibody–drug conjugation strategies.
- Target classes: Kinases (MEK, Aurora), GPCRs (e.g., EP2/EP4), ion channels (e.g., P2X7).

Selected publications:

- Zhong Zhao et al. “Synthesis and evaluation of novel pyrazolidinone analogs of PGE2 as EP2 receptor agonists.” Bioorganic & Medicinal Chemistry Letters 18(2), 2007.
  Co-author: Srinivasa Karra; affiliation EMD-Serono Research Institute, Rockland, MA.
- Yufang Xiao et al. “Synthesis and evaluation of a γ-lactam as a highly potent and selective prostanoid receptor agonist.” Bioorganic & Medicinal Chemistry Letters 18(2), 2008.
  Co-author: Srinivasa Karra.

Patents:

- Title: ASGPR-binding compounds for the degradation of extracellular proteins
  Publication number: US 2024/0424108 A1 (and related WO/other family members)
  Publication date: 1 May 2024

Assignee: Avilar Therapeutics, Inc.

Summary: ASGPR-ligand–extracellular-protein-ligand conjugates (ATACs) to selectively degrade extracellular proteins (e.g., antibodies, cytokines) in vivo.

- Aurora kinase and MEK1 inhibitors.
- EP2/EP4 prostanoid receptor agonists.
- Prodrugs of cytotoxic agents and enzyme-activated prodrugs.

Professional memberships and summary metrics:

- Memberships: American Chemical Society; ACS Medicinal Chemistry Division.
- Track record (from company biography):
- 20+ research publications.
- Co-inventor on ~27 patents/patent applications.
- Multiple lead optimization and clinical candidate deliveries in oncology, CNS, and immunology.

Dr. Srinivas Kalidindi,
Lead Investigator,
Chemical Development & API Supply (CDAS) S11 Unit; Biocon BMS R&D Center (BBRC) Syngene International Limited; Biocon Park (SEZ) Bommasandra IV Phase Jigani Link Road, Bangalore-560099; INDIA
Email: srinukalidindi2005@gmail.com srinivas.kalidindi@syngeneintl.com
Tel: +91 9008149992 (Mobile) +91 80 6633 4458 (Office)
LinkedIn Profile: www.linkedin.com/in/srinivas-kalidindi-5a506538
ORCiD: https://orcid.org/0000-0002-0955-7142

Job Experience:

- Chemical Development & API Supply (CDAS), Biocon BMS R&D Center (BBRC), Syngene International Ltd., Bangalore, India.
- Nov 2024 – Present: Lead Investigator
- Nov 2021 – Oct 2023: Senior Principal Investigator
- Apr 2017 – Oct 2021: Principal Investigator
- Jan 2015 – Mar 2017: Senior Research Investigator

Job responsibilities & experience:

- As a project lead mentoring team members (10-15 members) towards early phase process research and development work to support multi kilogram synthesis of API's at the glass and pilot plants. To ensure right quality and quantity of API is synthesized and delivered in timely manner (GMP & non-GMP).
- As a people manager to create a vision to mature into a role model, build and maintain trust with other team members, identifying training & development plans for self and team members.
- Aug 2014 – Jan 2015: Senior Research Scientist, Piramal Life Sciences, Mumbai, and Piramal Enterprises Ltd., Chennai, India.

Job responsibilities:

- Development of small molecule-based inhibitors for various cancer targets using medicinal chemistry type of approach (Mumbai).

- Process research and development work to support multi kilogram synthesis of APIs at the pilot plant (Chennai).

Post-doctoral Research Experience:

- Jun 2011 – May 2014: Post-doctoral fellow, Max-Planck-Institute of Molecular Physiology Dept. of Chemical Biology, Dortmund, Germany.
  Mentor: Prof. Dr. Herbert Waldmann
- Jun 2009 – May 2011: Post-doctoral Research Associate, Center for Chemical Methodology and Library Development [CMLD], Boston University, Boston, MA, USA.
  Mentor: Prof. Dr. John. A. Porco, Jr.

Education:

- Sep 2005 – Jun 2009: Ph.D., Dept. of Organic chemistry, University of Regensburg, Regensburg, Germany.
  Advisor: Prof. Dr. Oliver Reiser

Thesis title:

- Studies Towards Synthesis of Biologically Active Guaianolides: Enantioselective Total Synthesis of (+)-Arglabin.
- Aug 2002 – Jun 2005: Research Trainee, Dept. of Organic Chemistry, Indian Institute of Science [IISc], Bangalore, India.
  Advisor: Prof. Dr. Goverdhan Mehta

Research Focus:

- Studies towards the total synthesis of biologically active sesquiterpene natural products such as Guanacastepene-A and Yaretol.
- 1999 – 2001: M.Sc., Andhra University, Visakhapatnam, Andhra Pradesh, India. Specialization: Organic Chemistry
- Main subjects: Organic Reaction Mechanisms, Organic Spectroscopy, Organic Synthesis, Organic Terrestrial Natural Products.
- 1996 – 1999: B.Sc., D.N.R Autonomous College, Bhimavaram, Andhra Pradesh, India. Specialization: Mathematics, Physics and Chemistry

Training and Certifications (External & Internal):

- Participated and certified in the “Managerial Effectiveness” held at Indian Institute of Management [IIM] Ahmedabad, India, 30 Jan-04 Feb 2023.
- Participated and certified in the Management Development Programme on “Basic

Leadership Skills" at XLRI, Jamshedpur, India, 23–27 July 2018.

- Participated and certified in the training course on Chemical Development & Scale-Up in the Fine Chemicals & Pharmaceutical Industries, by Dr. Will Watson, Scientific Update Ltd., Bangalore, India, 12–13 Feb 2018.
- Participated and certified in the Dale Carnegie Course on "Management Skills", BBRC, Syngene International Ltd., Bangalore, India, Dec 2017.
- Participated in International Symposium on Integrated Drug Development: Chemistry, Manufacturing and Control, National Institute of Pharmaceutical Education and Research [NIPER], Mohali, Punjab, India, 22-24 Feb 2016.
- Participated in all cGMP, GDP and Data Integrity trainings provided in-house annually by Quality Assurance, Syngene International Ltd., Bangalore, India.

Publications:

1. Development of a Mild and Efficient Process for Ir-Catalyzed N-Alkylation of 4-Bromopyridin-2-amine with a Primary Alcohol via Borrowing Hydrogen.
   Sri Krishna Nimmagadda, Srinivas Kalidindi, Siva Sankar Bondigela, Satish Korapati, Debottam Dasgupta, Noormohamed Abdul Malik, Prakasa Rao, Prantik Maity, John R. Coombs, Michael Hay, Eric M. Simmons, Sabuj Mukherjee, Rajappa Vaidyanathan, Martin D. Eastgate, and Francisco González-Bobes. Org. Process Res. Dev. 2024, 28, 3414−3422. DOI: 10.1021/acs.oprd.4c00269
2. William P. Gallagher, John Ryan Coombs, Carlos A. Guerrero, David Marcoux, Qing Shi, Candice Lee Joe, Sanjeewa Rupasinghe, Jason J Zhu, Srinivas Kalidindi, Sathasivam Shunmugaraj, Moorthy Kandasamy, Sivasankar Bondigela, Rajappa Vaidyanathan, Shankar Tulsidas Tendulkar, Sankar Kuppusamy, Francisco González-Bobes. Synthetic Process, U.S Patent US 2022/0048859 A1, February 17, 2022.
3. Development of a Scalable Synthetic Route to BMS-986251, Part 2: Synthesis of the Tricyclic Core and the API.
   Srinivas Kalidindi, Aravind S. Gangu, Sankar Kuppusamy, Shunmugaraj Sathasivam, Vijaykumar Shekarappa, Saravanan Murugan, Sivasankar Bondigela, Moorthy Kandasamy, Kishore Ghanta, Arun Vinodini, Abhishek Shrikant, Ravikumar Ramachandran, William P. Gallagher, Nathaniel Kopp, Francisco González-Bobes, Martin

D. Eastgate, and Rajappa Vaidyanathan, Org. Process Res. Dev. 2021, 25, 7, 1556-1572. DOI: 10.1021/acs.oprd.1c00125

4. Development of a Scalable Synthetic Route to BMS-986251. Part 1: Synthesis of the Cyclohexane Dicarboxylate Fragment.
   Sankar Kuppusamy, Aravind S. Gangu, Srinivas Kalidindi, Muthukrishnan Ponnusamy, Shankar Tendulkar, Alla Venu, Senthil Palani, Vedhachalam Nagappan, Arun Vinodini, Boguslaw Mudryk, Sanjeewa Rupasinghe, Candice L. Joe, John R. Coombs, William P. Gallagher, Nathaniel Kopp, Francisco Gonzalez-Bobes, Martin D. Eastgate, and Rajappa Vaidyanathan, Org. Process Res. Dev. 2021, 25, 7, 1547-1555.
   DOI: 10.1021/acs.oprd.1c00124
5. Development and Execution of an Ni(II)-Catalyzed Reductive Cross-Coupling of Substituted 2-Chloropyridine and Ethyl 3-Chloropropanoate.
   Sri Krishna Nimmagadda, Satish Korapati, Debottam, Noormohamed Abdul Malik, Arun Vinodini, Aravind S. Gangu, Srinivas Kalidindi, Prantik Maity, Siva Sankar Bondigela, Alla Venu, William P. Gallagher, Selin Aytar, Francisco González-Bobes, and Rajappa Vaidyanathan, Org. Process Res. Dev. 2020, 24, 6, 1141-1148.
   DOI: 10.1021/acs.oprd.0c00134
6. Synthesis of Macrocyclic Depsipeptides by Cyclodimerization of Amino esters and Lactones.
   Srinivas Kalidindi, Aaron B. Beeler, and John A. Porco, Jr. Abstracts of Papers, New Reactions and Methodology, 240th ACS National Meeting & Exposition, Boston, MA, USA, 2010, 22-26 Aug.
7. Multicomponent Reaction Discovery: Three-Component Synthesis of Spirooxindoles. Liang, B.; Kalidindi, S.; Porco, J. A.; Stephenson, C. R. J. Org. Lett. 2010, 12, 572-575.
   DOI: http://dx.doi.org/10.1002/chin.201027091
8. Enantioselective Synthesis of Arglabin.
   Kalidindi, S.; Jeong, W. B.; Schall, A.; Bandichhor, R.; Nosse, B.; Resier, O. Angew. Chem. Int. Ed. 2007, 46, 6361-6363. and Angew. Chem. 2007, 119, 6478-6481.
   DOI: http://dx.doi.org/10.1002/chin.200752211
9. Gunacastepene-A Total Synthesis: Construction of the tricyclic isogunacastepane, epi- gunacastepane and gunacastepane frameworks.

Mehta, G.; Umarye, J. D.; Kalidindi, S. Tetrahedron Lett. 2003, 44, 4233-4237. DOI: http://dx.doi.org/10.1016/s0040-4039(03)00883-9

Poster and Oral Presentations:

1. Synthesis of macrocyclic depsipeptides by cyclodimerization of amino esters and lactones (Oral presentation). Srinivas Kalidindi, Aaron B. Beeler, and John A. Porco, Jr. 240th ACS National Meeting & Exposition, Boston, MA, USA, 22-26 Aug 2010.
2. From simple aromatics to biologically active guaianolides (Poster Presentation)
   Srinivas Kalidindi.; Andreas Schall.; Won Boo Jeong.; Oliver Reiser.
3. Science meets Industry – Catalysis in Fundamental Research and Industrial Application. Catalysis Research Laboratory (CaRLa) of Heidelberg University, Heidelberg, and BASF - Ludwigshafen, Germany, 16- 19 Nov 2008.
4. From Aromatics to Guaianolides (Oral presentation)
   Srinivas Kalidindi.; Andreas Schall.; Won Boo Jeong.; Oliver Reiser.
   European Science Foundation (ESF)-COST High-Level Research Conference on Natural Products Chemistry, Biology and Medicine, Acquafredda di Maratea, Italy, 18-23 May 2008.
5. Enantioselective Total Synthesis of (+)-Arglabin (Oral presentation)
   Symposium of Chemical and Molecular Sciences, University of Zurich, Zurich, Switzerland, 31 Oct – 1 Nov 2007.
6. Enantioselective Total Synthesis of (+)-Arglabin (Poster presentation)
   Srinivas Kalidindi.; Andreas Schall.; Won Boo Jeong.; Oliver Reiser.
   9th- JCF-Frühjahrs- Symposium, Technische Universität Chemnitz, Chemnitz, Germany, 22-24 Mar 2007.

Awards:

1. Awarded Biocon BMS R&D Center [BBRC] “Excellence Award” in recognition of the team’s innovative effort in scaling up a synthetically challenging potent API material for GLP Tox and FIH studies: CSD-238 Team, 2024-2025.
2. Awarded Biocon BMS R&D Center [BBRC] “Excellence Award” in appreciation for Process Chemistry & Analytical Development of API the program AH: CSD-178 Team, 2017-2018.
3. Awarded Max Planck Fellowship for three-year post-doctoral research at Max Planck Institute of Molecular Physiology, Dortmund, Germany, 2011- 2014.
4. Awarded Merck fellowship [Merck-Boston] for two-year post-doctoral research at CMLD, Boston University, Boston, USA, 2009-2011.

5. Awarded DAAD (Deutscher Akademischer Austausch Dienst) fellowship for PhD study at University of Regensburg, Regensburg, Germany, 2005-2009.
6. Qualified for joint CSIR-UGC National Eligibility Test [NET] and was awarded Junior Research Fellowship by Council for Scientific and Industrial Research [CSIR], New Delhi, India, 2002-2003. Also, one among the selective top 20% CSIR-UGC-NET awardees, 2002-2003.
7. Qualified for Graduate Aptitude Test in Engineering [GATE] -2002 with 93.18 percentile and all India rank of 177.

Dr. B.V. Subba Reddy,
Chief Scientist,
CSIR-IICT, Hyderabad
e-mail: Basireddy.iict@csir.res.in
9440906803 (mobile); 040-27193535 (Office)

Education:

- PhD in Organic Chemistry @ CSIR-IICT.
- Post Doctoral Fellow @ Harvard University under Prof E. J. Corey (Nobel Laureate in Chemistry)
- Alexander von Humboldt Fellow @ Max-Planck Institute, Germany.

Fellow of Academy:

- Life Fellow of Indian Chemical Society 2021
- Fellow of Telangana Academy of Sciences 2015
- Fellow of Andhra Pradesh Academy of Sciences 2014
- Fellow of National Academy of Sciences 2013 (FNASc)

Awards and Honors:

- Prof. Dhananjay Nasipuri Memorial Award 2020 by Indian Chemical Society
- Life time achievement award by A.P. Academy of Sciences 2018
- Chemical Research Society of India (CRSI) Bronze Medal 2016
- NASI-Reliance Industries Platinum Jubilee Award 2014
- Alexander von Humboldt Fellowship 2010
- CRSI Young Scientist for the year 2010
- AVRA Young Scientist Award 2009
- IICT Roll of Honor Award 2009 by IICT
- Scopus Young Scientist Award 2008 by Elsevier Science
- Best Performance Award for the Year 2007 for publishing highest number of research papers 52 with a total impact factor 124.5.

- Best Performance Award for the Year 2001 for publishing highest number of research papers 35 with a total impact factor 78.2; Average I F= 2.25
- Director's Special Award for the Year 2001 for outstanding effort in publishing highest number of research papers 24 with a total impact factor 50.4.
- Y.S. Raja Reddy GOLD MEDAL for the year 1995 by SKD University.

Publications and Citations:

- No of publications: > 800
- No of citations: 24,098
- Average Citations without self-citations: 27.2
- H-index: 70
- Received 16th most productive scientist (Chemical Sciences) in India for the years 1996-2006 (Current Science).
- Received 5th rank in average citations per paper and 8th rank in H-index by Scopus (Elsevier's abstract and citation database).
- Received 60 Citations in Jerry March, 7th Edition, Text Book.
- Ranked among top 2% scientists in world by Stanford University (2020).
- Ranked in Top 2% most influential scientists (Single Year) in 2023 Stanford University List: Analysis of Indian Researchers
- Review articles published:16
- Book chapters published: 6

Dr. M.L.N. Acharyulu,
Associate Professor, Head,
Centurion university of Technology and Management,
Vizianagaram-535003
e-mail: acharyulu@cutmap.ac.in

- Obtained Doctorate in Chemical Engineering in 2012, from AU, VSP.
- Obtained M.Phil. in Engineering Chemistry in 1994, AU, VSP.
- Obtained Master of Science with specialization in Organic Chemistry in 1992 from Government Arts College, Rajahmundry, affiliated to Andhra University.
- Obtained B.Sc. (Chemistry Main) in 1989 from Government Arts College, Rajahmundry, affiliated to Andhra University.
- Received three times the BEST TEACHER award,
- Letter of Appreciation from JNTUK for Best services done as N.S.S.P.O,
- Gave two JNANA VAHINI F.M lectures.
- 36 publications in National and International journals
- Filed two Patents
- One Book Chapter
- 14 Paper presentations
- Attended 24 webinars and 18 National Conferences/Workshops
- Participated as EXPERT REVIEWER for TELUGU Translation of a book Pharmacology and Pharmaco therapeutics by R.S.Satoskar, Nirmala N Reg, Raakhi K. Tripathi and S.D. Bhandarkar, organized by NATIONAL TRANSLATION MISSION, Mysore, at Central Institute of Indian Languages, Mysore from 7.7.25 to 12.7.2025
- Gave 3 Invited Talks
- SESION CHAIR: Chaired the session at ICMSEA-19 on December 20.12.2019. Session in Chemistry, Centurion University, Parlakhemundi, Odisha
- SESSION CHAIR: Innovations In Health Care Smart & Advanced Applications, IHCSAA-2025, Centurion University, Vizianagaram, 24-26th July

- SESION CHAIR: GWEST 2020; Global Webinar on Engineering, Science and Technology,13-14th June, 2020, BITS Vizag.
- As Convener conducted 4 FDPs and 4 National level conferences
- As BOS member attended to two Engineering colleges in Narasa Rao Peta and SASI college of Engineering, Tadepalligudem.

Dr. Rama Krishna Dadi,
Research Scientist,
Caterpillar Inc., Illinois, USA
15122 Parkland Canyon Dr, Cypress, TX-77433 Phone: (+1) 979-739-0911, Email: dadi.ramki@gmail.com
Google scholar profile:
https://scholar.google.com/citations?user=pNnNPtcAAAAJ&hl=en

Introduction:

- 7 years of R&D and Product Development experience in the fields of catalysis, reaction engineering, mathematical modeling, automotive emission research
- 14 publications in well reputed journals, 2 patents, several conference presentations

Expertise:

- Reaction Engineering, Heterogeneous Catalysis, Kinetic modeling, Mathematical modeling, Optimization, Chemical systems modeling
- Softwares: MATLAB, GT SUITE, AVL BOOST, PYTHON, ASPEN PLUS, ASPEN HYSYS

Education:

- Professional Education, Applied Data Science Program: 01-10-2023
- Massachusetts institute of Technology, Remote
- Doctor of Philosophy (Ph.D.), Chemical Engineering: 01-12-2017
  University of Houston, Houston, TX - GPA: 3.96/4.0
  Advisors: Vemuri Balakotaiah and Dan Luss
- Bachelor of Technology (B. Tech.), Chemical Engineering: 01-05-2013
  Indian Institute of Technology – Roorkee (IIT Roorkee), India: GPA: 7.635/10

Work Experience:

- Syzygy Plasmonics, Houston, TX - Senior Process Simulation Engineer: Aug 2024 – Mar 2025

- Process simulation for NH3 cracking, Reformer demo plants. Developed KPI calculators for demo plants
- Reactor and Catalyst modeling for Fischer Tropsch Reactor
  Amogy, Houston, TX - Senior System Modeling Engineer: Nov 2023 – May 2024
- Led modeling activities related to research and development of ammonia cracking reactor
- Led reactor modeling training sessions
- Cummins Inc. (R&T), Columbus, IN - Senior Technical Specialist: Jan 2018 – Oct 2023
- Successfully delivered more than 20 catalysts models. Involved Design of experiments, kinetic studies, material characterization, multi-scale modeling, cross-collaboration
- Oversaw research activities related to PGM based catalysts used in Cummins exhaust emission reduction systems
- Served as the key Liasson between R&D and product development teams and served as the mentor for several junior colleagues
  Isuzu Technical Center of America, Plymouth, MI - Intern: July – Oct 2017
- Development of global kinetic model for surface reactions in Diesel Oxidation Catalyst and catalyzed Diesel Particulate Filter.
- Development of grey-box model from a higher fidelity model
- Research Assistant, University of Houston - Aug 2013 – Dec 2017
- Published 6 research papers in the field of Diesel emission after-treatment devices as a part of DOE and NSF funded projects
- Presented in various conferences automotive emissions
- Teaching Assistant, University of Houston Aug 2013 – May 2017
- Teaching assistant for several undergraduate courses in Chemical Engineering Department at University of Houston
- HPCL, Visakhapatnam - Summer Intern: May – July 2012
- Analyzed and studied functioning of all individual units and processing units like Fluid Catalytic Cracking units, Sulfur Recovery Unit, Merox unit, Diesel Hydro Desulfurization unit and various other units.

Patents:

- One of the co-authors of the 3 patents filed on behalf of Cummins

Journal Publications:

1. Dadi, R.K., Luss D., and Balakotaiah, V., 2016. "Dynamic hysteresis in monolith reactors and hysteresis effects during co-oxidation of CO and C2H6", Chemical Engineering Journal 297 (2016): 325-340.
2. Dadi, R.K., Luss D., and Balakotaiah, V., 2016. "Bifurcation features of mixtures containing CO and HCs in DOC", Chemical Engineering Journal 304, 941-952
3. Kota A.S, Dadi, R.K., Luss D., and Balakotaiah, V., 2017. "Analysis of light-off during oxidation of reactant mixtures on Pt/Al2O3 using micro-kinetic models." Chemical Engineering Science 166 320-333.
4. Daneshvar, K, Dadi, R.K., Luss D., and Balakotaiah, V., Kang S.B., Epling W.S., Kalamaras C.M., 2017. "Experimental and modeling study of CO and hydrocarbons light- Al2O3 diesel off on various Pt-Pd/ catalysts". Chemical Engineering Journal 323, 347- 360
5. Dadi, R.K., Daneshvar, K, Luss D., Epling W.S., Balakotaiah, V., 2017. "Comparison of light-off performance of Pt-Pd/γ-Al_2O_3 dual layer and dual brick configurations in diesel oxidation catalysts." Chemical Engineering Journal 335, 1004-1017
6. Ratnakar R.R, Dadi, R.K, Balakotaiah. V, 2017. "Multi-scale Averaging for Transient Simulation of Multilayered Catalytic Monolith Reactor Models." Chemical Engineering Journal 352, 293-305
7. Daya, R., Joshi, S. Y., Luo, J., Dadi, R. K., Currier, N. W., & Yezerets, A. (2019). "On kinetic modeling of change in active sites upon hydrothermal aging of Cu-SSZ-13". Applied Catalysis B: Environmental, 118368
8. Daya, R., Joshi, S. Y., Dadi, R. K., Tang, Y., Trandal, D., Srinivasan, A., & Cunningham, M. (2020). "An explicit reduced-order model of Cu-Zeolite SCR catalyst for embedding in ECM". Chemical Engineering Journal, 127473.
9. Dadi, R. K., Daya, R., Kumar, A., Joshi, S. Y., An, H., Cunningham, M. J., & Yezerets, A. "A modeling and experimental study on hydrothermal aging deactivation of NO oxidation activity on Pt-Pd catalyst". Applied Catalysis B: Environmental, 283, 119655.
10. Daya, R., Trandal, D., Dadi, R. K., Li, H., Joshi, S. Y., Luo, J., ... & Yezerets, A. (2021). Kinetics and thermodynamics of ammonia solvation on Z2Cu, ZCuOH and

ZCu sites in Cu-SSZ-13–Implications for hydrothermal aging. Applied Catalysis B: Environmental, 297, 120444.

11. Dadi, R. K., Daya, R., Reddy, G. K., Kumar, A., Srinivasan, A., An, H., & Yezerets, A. (2022). Modeling and experimental insights on oxidation of heavy chain HCs on diesel oxidation catalysts. Chemical Engineering Journal, 435, 134996.
12. Kim, M.Y., Dadi, R.K., Gong, J. and Kamasamudram, K., 2023. Experimental and Modeling Study on the Thermal Aging Impact on the Performance of the Natural Gas Three-Way Catalyst (No. 2023-01-0375). SAE Technical Paper.
13. Kim, M.Y., Dadi, K.V., Gong, J. and Kamasamudram, K., 2024. Sulfur Impact on Methane Steam Reforming over the Stoichiometric Natural Gas Three-Way Catalyst (No. 2024-01-2633). SAE Technical Paper.
14. Mathematical modeling to study the possible mechanism for various reactions on Pt-alumina catalysts
15. Calibration of kinetic parameters by solving inverse problems in reaction-diffusion and convection PDEs
16. Development of reduced-order models from the detailed physics-based models

Conference presentations:

1. Dadi, R.K., Kota, A.S., Luss D., and Balakotaiah, V., "Kinetic modeling and hysteresis effects during cooxidation of CO/C3H6/H2 on Pt/Al2O3", AIChE Annual meeting, Salt Lake City, UT, 2015
2. Dadi, R.K., Luss D., and Balakotaiah, V., “Bifurcation features of mixtures containing CO and HCs in DOC”, CLEERS, Ann Arbor, MI, 2016.
3. Dadi, R.K., Luss D., and Balakotaiah, V., “Bifurcation features of mixtures containing CO and HCs in DOC”, AIChE Annual meeting, 2016.
4. Luss, D, Dadi, R.K, and Balakotaiah, V., “Impact of feed temperature ramp rate on combustion of mixtures”, CHEMREACTOR-22, LONDON, UK
5. Dadi, R.K., Luss D., and Balakotaiah, V., “Analysis of light-off features during co-oxidation of CO and HCs in DOC”, CLEERS, Ann Arbor, MI, 2017.
6. Dadi, R.K., Kumar A, Joshi S, Currier, N and Cunningham, M, “Global kinetic model for predicting hydrocarbon slip from DOC during active regeneration”, CLEERS, Ann Arbor, MI, 2018.

7. Srinivasan, A, Dadi, R.K, Currier, N, Cunningham, M, Sharp, C, Kroll, S, Zavala, B, "Engine Out hydrocarbon emission characterization during de-soot regeneration", 20PFL-1117; SAE WCX 2020
8. Dadi, R.K., Kumar A, Daya R, Joshi S, Cunningham, M and Yezerets, "Hydro-Thermal Aging model of NO oxidation on Pt-Pd catalyst", CLEERS, 2020. (Virtual Conference)
9. Saurabh Y. Joshi, Rohil Daya, Dadi, R.K, W.P. Partridge, Ashok Kumar, Yadan Tang, Dylan Trandal, Krishna Kamasamudram, Michael Cunningham, Aleksey Yezerets, "Global kinetic models for reduction and oxidation half-cycles of the NH3-SCR redox cycle: application for quantifying active Cu sites and aging of Cu-zeolite catalyst", CLEERS, 2020. (Virtual Conference)
10. Dadi, R.K., Kumar A, Daya R, Joshi S, Cunningham, M and Yezerets, "Hydro-Thermal Aging model of NO oxidation on Pt-Pd catalyst", Emissions Conference 2020. (Virtual Conference)

Awards & Honors:

- Presidential fellowship, University of Houston 2013
- Publication selected for cover page on Chemical Engineering science Journal
- Staff Recognition Award: Cummins Inc. 2020
- Cummins Corporate Technical Business Impact Award (2020-2021)
- Cummins Global Business Impact Award (2021-2022)

Dr. -Ing. Pratap Kollu,
Assistant Professor,
Centre for Advanced Studies in Electronics Science and Technology (CASEST),
School of Physics, University of Hyderabad, Gachibowli,
Hyderabad -500046, Telangana, INDIA.
Email: pratapk@uohyd.ac.in, pksp.uoh@nic.in
Mobile: +91 7981468978, Office: +91 40 2313 4327
& Newton Alumnus Researcher-The Royal Society London Cavendish Laboratory,
University of Cambridge, UK
Contact and Profiles
LinkedIn, Google Scholar (6411 citations, h-index 43, i10-index 83),
Web of Science available via links in original CV.

Education

- Ph.D., Materials Engineering, Chungnam National University, Daejeon, South Korea (August 2011). Thesis: "Novel High Sensitive Magnetic Field Sensor Using Asymmetric Giant Magneto Impedance Effect in Self-Biased Amorphous Head." CGPA: 3.95/4.5.
- M.Phil., Electronics, Andhra University Campus, Visakhapatnam, India (submitted Feb 2005, awarded March 2007). Research: Fluxgate magnetic sensors using amorphous wires.
- M.Sc., Physics with Electronics, Andhra University Campus, Visakhapatnam (Nov 2002). 75%, First Class with Distinction.
- B.Sc., Sri Y.N. College, Andhra University, Narsapur (April 2000). 71%, First Class (Math, Physics, Electronics).

Professional Experience

- Assistant Professor, Centre for Advanced Studies in Electronics Science and Technology (CASEST), School of Physics, University of Hyderabad (March 2017–present). Adjunct Faculty, C.R. Rao AIMSCS (2022–present).
- DST INSPIRE Faculty, IIT Bombay (April 2016–Feb 2017; Oct 2012–April 2014). Research: Graphene ferrite nanocomposites, green synthesis.
- Newton International Fellow, Cavendish Laboratory, University of Cambridge, UK (May 2014–April 2016). Research: AGMI/TMR biosensors, exchange-biased films.

- Research Engineer, Tyndall National Institute, UCC, Ireland (Oct 2011–Sep 2012). Silicon fluxgate sensors.

Research Specializations

- Smart magnetic sensors, Li/Na/Al-ion battery materials, multiferroics, lab-on-chip biosensors, exchange-biased magnetic multilayers, graphene magnetic nanocomposites.

Teaching Experience

Institution	Courses Taught	Years
University of Hyderabad	Integrated Circuit & Nanofabrication (M.Tech), Semiconductor Processing (M.Tech), Research Methodology (PhD), Nanoscience (MSc), etc.	2017–2024
CR Rao AIMSCS	Advanced Engineering Physics, Basic Electrical & Electronics (UG)	2022–present
University of Cambridge	Physics & Electronics Lab (UG)	2014–2016
RGUKT Nuzvid	Plus Two Physics	2008–2010

Administrative Roles (UoH)

- Advisory Committee, Centre for Nanotechnology (2023–present).
- Placement coordinator, CASEST (2018–present).
- AICTE coordinator, CASEST (2018–2023).
- Technical committees for FIB-SEM, TEM procurement (2022).
- Board of Studies, CASEST (2018–present).

Honors and Awards

- Chancellor Award 2024, UoH (teaching/research).
- Newton International Fellowship, Royal Society (2014–2016).
- DST INSPIRE Faculty Award (2012–2017).
- Best Oral Presentation, 10th CMSE (2021); Young Scientist, 9th ICAMP (2018).
- Gold Medalist M.Sc.; various best researcher/teacher awards.

Publications

- 104 manuscripts, 6+ book chapters (e.g., Layered Double Hydroxides for Na-ion batteries, 2026; Magnetic Biosensors, CRC 2022).
- Key highlights: Nanoscale RSC spotlight; most downloaded articles.

Research Projects

Sponsoring Agency	Project Title	Amount (₹ Lakhs)	Period	Role
ANRF PAIR	(Title not fully specified)	30	2025–2029	Co-PI
CMPDI & CMERI	Hard carbons for energy storage	155.62	Jan 2024–Jan 2026	PI
IUAC, DST	Doping/defect evolution under irradiation	15.78	Aug 2024–Jul 2027	PI
CMPDI & Ananth Tech	NDT instrument using AGMI sensors	91.77	Aug 2024–Jul 2026	PI
Royal Society	2D nanocomposites as Na-ion electrodes	12 (GBP equiv.)	Mar 2024–2026	Main Applicant

(Additional projects: NRB/DRDO fluxgate magnetometer (24L, 2023–2025), IoE UoH VFET biosensor (45L, 2022–2025), etc.)

Invited/Keynote Talks

- International: 42nd SPP Physics (Philippines, 2024); MRS-Thailand (2023); CMSE (China/Ukraine, 2021–2022).
- National: ICEFN-2025 (keynote); IEMDST-2024; IMESD 2023 (IIT Roorkee). Over 60 total.

Research Guidance

- PhD: 3 ongoing, 2 awarded (2023), 1 submitted.
- Postdocs: 2 RA III; DRDO SRF: 1.
- M.Tech/MSc: Multiple; 75 interns; 42 external theses.

Professional Memberships

- IEEE Magnetics Society; Life Member, Magnetics Society of India, MRS India.

Invitations

Dr. Narayana Bharath Gupta, IAS,
Commissioner, APCCE

Dr. C. Krishna,
Joint Director, APCCE

Invitation to honourable Regional Joint Director,
Zone-I & Zone-II: Dr. P. V. Krishnaji

Invitation to honourable Principal, Dr. Ramachandra R.K.

Registrations

The Department of Chemistry created the email ID icrise2025@gmail.com specifically for the International Conference.

Registrations commenced online via the provided QR code or from the following Google Form link:
https://forms.gle/MCMSgYAy64yR3fRB9

The organizing team also created a Whatsapp group for giving real-time updates to the participants about the conference from registration itself.

The Department also facilitated spot registrations during the conference dates. Faculty members, Research Scholars, Industry experts, Postgraduate Students and Undergraduate Students from various institutions and universities of the states of Andhra Pradesh, Telangana, Tamilnadu and Odisha attended.

The organizers prioritized the conference theme by designing the registration kit entirely from eco-friendly and biodegradable materials.

Jute Bag

Pens - Crafted from recycled Kraft paper

Jute File

Conference Eco-friendly Materials

List of Participants

Sl. No.	Name of the Participant	Category	Institute Name	Place
1	PULAGURTHA BHASKARARAO	FACULTY	SCHOOL OF PHARMACY, ADITYA UNIVERSITY	ADITYA UNIVERSITY
2	DR. K. VIJAYA LAKSHMI	FACULTY	GOVERNMENT COLLEGE (A)	ANANTAPURAMU
3	DR. MOKHAMATAM SUDHEER	FACULTY	VISHNU INSTITUTE OF TECHNOLOGY	BHIMAVARAM
4	WINNIE TEJA DOKKA	FACULTY	GOVERNMENT DEGREE COLLEGE	CHINTALAPUDI
5	DR. J. LAKSHMI MANGAMMA	FACULTY	GOVERNMENT DEGREE COLLEGE	CHODAVARAM
6	DR B. SRIKANTH	FACULTY	GOVERNMENT DEGREE COLLEGE	CUMBUM
7	DR T. SREEVARAM	FACULTY	GOVERNMENT DEGREE COLLEGE	GUMMALAKSHMIPURAM
8	DR. K. SUCHARITHA	FACULTY	GOVERNMENT DEGREE COLLEGE (W)	GUNTUR
9	DR KANTA JAYADEV	FACULTY	PITHAPUR RAJAHS GOVERNMENT COLLEGE (A)	KAKINADA
10	DASARI SRAVANI	FACULTY	ADITYA UNIVERSITY	KAKINADA
11	DR SADIK AHMED MOHAMMED	FACULTY	GOVERNMENT DEGREE COLLEGE	KOVVUR
12	DR. T SOBHA RANI	FACULTY	DRAVIDIAN UNIVERSITY	KUPPAM
13	DR LAVANYA THOPIREDDY	FACULTY	K. V. R. GOVT. DEGREE COLLEGE FOR WOMEN (A), CLUSTER UNIVERSITY	KURNOOL
14	DR G. SEETHAMMA	FACULTY	KVR GOVT COLLEGE FOR WOMEN,CLUSTER UNIVERSITY	KURNOOL
15	DR S. SHAMSHAD	FACULTY	KVR GOVT. COLLEGE FOR WOMEN, CLUSTER UNIVERSITY	KURNOOL
16	DR. M. SUSEELAMMA	FACULTY	SML GOVT.DEGREE COLLEGE, YEMMIGANUR	KURNOOL
17	DR. D. RAMA SEKHAR REDDY	FACULTY	KRISHNA UNIVERSITY	MACHILIPATNAM
18	DR. EBRAHIM BAJESYD	FACULTY	AM REDDY	MACHILIPATNAM
19	AMAL JOSEPH PJ	FACULTY	MAHATMA GANDHI GOVT. ARTS COLLEGE	MAHE
20	DR. R. SHASIKALA	FACULTY	PSC & KVSC GOVERNMENT DEGREE COLLEGE	NANDAYALA
21	DR. B. ANANDA KUMAR	FACULTY	SRI Y N COLLEGE (A), NARSAPUR	NARSAPUR
22	DR. AFROZ PATAN	FACULTY	RATNAM INSTITUTE OF PHARMACY, PIDATHAPOLURU	NELLORE
23	DR. K. R. SHANMUGAM	FACULTY	PRR&VS GOVERNMENT COLLEGE VIDAVALURU	NELLORE
24	DR C SUDHARANI	FACULTY	GOVERNMENT DEGREE COLLEGE	PANYAM

25	C VENKATARATNAM	FACULTY	S G GOVERNMENT DEGREE COLLEGE	PILER
26	DR MEESALA GURU SEKHAR	FACULTY	GOVERNMENT DEGREE COLLEGE, CUMBUM	PRAKASAM
27	DR. M. PADMAJA	FACULTY	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
28	DR. M. SANTHA KUMARI	FACULTY	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
29	P. SIVA KUMAR	FACULTY	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
30	DR. P. SUREKHA	FACULTY	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
31	DR. L. RAJESWARI	FACULTY	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
32	DR.CH.RAJANI	FACULTY	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
33	DR. B. MALLIKARJUNA	FACULTY	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
34	K. VENKATA RAO	FACULTY	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
35	DR. G. TEJASWINI	FACULTY	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
36	T. SRINIVASA RAO	FACULTY	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
37	V. SRIDHAR	FACULTY	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
38	B. VENKATA RAO	FACULTY	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
39	DR. N. BABY NIRMALA	FACULTY	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
40	DR. T. NARASIMHA MURTHY	FACULTY	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
41	U.SAI KRISHNA	FACULTY	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
42	DR.P. SURYA SREE	FACULTY	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
43	J. YACOBE	FACULTY	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
44	C. SIVA KRISHNA	FACULTY	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
45	DR. J. SURESH	FACULTY	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
46	K V V RANGA RAO	FACULTY	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
47	D J SOWJANYA	FACULTY	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
48	SVVS DURGA PRASAD	FACULTY	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
49	DR P MURALI KRISHNA	FACULTY	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
50	DR. V SATYANARAYANA	FACULTY	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
51	DR. ESRS SARMA	FACULTY	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
52	M SUDHAKAR RAO	FACULTY	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
53	J. SASHI SRI	FACULTY	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
54	M.PRASAD	FACULTY	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
55	DR.N. SRINIVASA RAO	FACULTY	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
56	DR. A. RAJESWARI	FACULTY	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
57	V.DEEPTHI	FACULTY	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
58	SD. MADINA	FACULTY	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
59	DR. N. SRINIVAS	FACULTY	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
60	DR.M.R. GOWTHAM	FACULTY	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
61	DR. G. RAHUL	FACULTY	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
62	DR. D. SUNEEL KUMAR	FACULTY	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY

63	V. SANJEEV KUMAR	FACULTY	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
64	DR. D. SAILAJA	FACULTY	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
65	DR B NAGESHWARI	FACULTY	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
66	DR B PRATHIMA	FACULTY	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
67	DR. V. DURGA PRAVEENA	FACULTY	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
68	DR. CH. KOMALA LAKSHMI	FACULTY	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
69	DR. A. SRINIVASA RAO	FACULTY	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
70	DR. MADHAVI	FACULTY	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
71	DR. K. BABU	FACULTY	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
72	CH. SONY	FACULTY	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
73	K. DURGA RAO	FACULTY	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
74	DR A A ANNAPURNA	FACULTY	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
75	DR. SHIVA KRISHNA LOKE	FACULTY	GODAVARI GLOBAL UNIVERSITY (GGU)	RAJAHMUNDRY
76	DR RAMAKRISHNA KUPPALA	FACULTY	NATIONAL INSTITUTE FOR RESEARCH ON COMMERCIAL AGRICULTURE (NIRCA)	RAJAHMUNDRY
77	V. GEETHA	FACULTY	GOVERNMENT DEGREE COLLEGE	RAMACHANDRAPURAM
78	DR. B. MADHAV	FACULTY	GOVERNMENT DEGREE COLLEGE	SEETHANAGARAM
79	K. RAVEENDRA BABU	FACULTY	SCIM TANUKU	TANUKU
80	SK. BEEBI	FACULTY	SRR & CVR GOVERNMENT DEGREE COLLEGE (A)	VIJAYAWADA
81	KIRANMAI TAMMA	FACULTY	MARIS STELLA COLLEGE	VIJAYAWADA
82	DR. G. PONNI	FACULTY	MARIS STELLA COLLEGE	VIJAYAWADA
83	P. BHAVANI	FACULTY	MARIS STELLA COLLEGE	VIJAYAWADA
84	G. SUSWARA DEEPIKA	FACULTY	MARIS STELLA COLLEGE	VIJAYAWADA
85	D.JEEVITHA	FACULTY	MARIS STELLA COLLEGE	VIJAYAWADA
86	DR M PRAMOD KUMAR	FACULTY	SRR & CVR GOVERNMENT DEGREE COLLEGE (A)	VIJAYAWADA
87	DR. S. PRIYADARSHINI	FACULTY	SRR & CVR GOVERNMENT DEGREE COLLEGE (A)	VIJAYAWADA
88	DR SAILAJA GADAMSETTI	FACULTY	SRR & CVR GOVERNMENT DEGREE COLLEGE (A)	VIJAYAWADA
89	N L JANAKI	RESEARCH SCHOLAR	SRR & CVR GOVERNMENT DEGREE COLLEGE (A)	VIJAYAWADA
90	DR. V. CHRISTOPHER	FACULTY	ANDHRA UNIVERSITY	VISAKHAPATNAM
91	PROF. B.B.V. SAILAJA	FACULTY	ANDHRA UNIVERSITY	VISAKHAPATNAM
92	DR. D. SUNEETHA	FACULTY	GOVERNMENT DEGREE COLLEGE	YELESWARAM
93	DR. A.CH. PRADYUTHA	FACULTY	RBVRR WOMEN'S COLLEGE	HYDERABAD
94	KHWAJA AMTUL RAOUF QAZI	FACULTY	SULTAN-UL-ULOOM COLLEGE OF PHARMACY	HYDERABAD
95	DR. V. SENTHIL KUMAR	FACULTY	SRM TRP ENG COLLEGE	TAMILNADU

96	DR. D. RAMARAO	PRINCIPAL	GOVERNMENT DEGREE COLLEGE	BARUVA
97	B. SIROMANIKYA RAO	RESEARCH SCHOLAR	JNTU(A)	ANANTHAPUR
98	B. SURENDRA	RESEARCH SCHOLAR	JNTU(A)	ANANTHAPUR
99	CH. SRIHARI	RESEARCH SCHOLAR	ACHARYA NAGARJUNA UNIVERSITY	GUNTUR
100	BEZAWADA L VENKATARAMANA	RESEARCH SCHOLAR	ACHARYA NAGARJUNA UNIVERSITY	GUNTUR
101	RAPETI THRINADH KUMAR	RESEARCH SCHOLAR	VIGNAN UNIVERSITY, GUNTUR	GUNTUR
102	BATTULA SOWJANYA LAKSHMI	RESEARCH SCHOLAR	CHEBROLU HANUMAIAH INSTITUTE OF PHARMACEUTICAL SCIENCES	GUNTUR
103	R MURALIDHAR REDDY	RESEARCH SCHOLAR	VIDYA JYOTHI INSTITUTE OF TECHNOLOGY	HYDERABAD, TELANGANA
104	K. SAJANI	RESEARCH SCHOLAR	KRISHNA UNIVERSITY	MACHILIPATNAM
105	S. SUDHARASMI	RESEARCH SCHOLAR	KRISHNA UNIVERSITY	MACHILIPATNAM
106	JYOTIKIRAN SAHOO	RESEARCH SCHOLAR	IISER BERHAMPUR, ODISHA	ODISHA
107	RAGESHREE DASH	RESEARCH SCHOLAR	IISER BERHAMPUR, ODISHA	ODISHA
108	MAKSOOD ALAM	RESEARCH SCHOLAR	IISER BERHAMPUR, ODISHA	ODISHA
109	SIVALOVAKRISHNA KADIYAPU	RESEARCH SCHOLAR	ADIKAVI NANNAYA UNIVERSITY	RAJAHMUNDRY
110	V.B.T. SUNDARI	RESEARCH SCHOLAR	SRI KANDUKURI RAJYA LAKSHMI COLLEGE (W)	RAJAHMUNDRY
111	A. SRAVANI RATNAM	RESEARCH SCHOLAR	VT COLLEGE OF PHARMACY	RAJAHMUNDRY
112	P. NAVEEN BABU	RESEARCH SCHOLAR	ADIKAVI NANNAYA UNIVERSITY	RAJAHMUNDRY
113	M.SILPA RANI	RESEARCH SCHOLAR	SKVT GOVERNMENT DEGREE COLLEGE	RAJAHMUNDRY
114	KARRI MANIKYAM	RESEARCH SCHOLAR	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
115	UPPULURI RAMU	RESEARCH SCHOLAR	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
116	B DURGA LAKSHMI	RESEARCH SCHOLAR	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
117	VENKATESH SUNKARA	RESEARCH SCHOLAR	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
118	UMAMAHESH GOUDU	RESEARCH SCHOLAR	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
119	SUBBALAKSHMI MADAKA	RESEARCH SCHOLAR	ADIKAVI NANNAYA UNIVERSITY	RAJAHMUNDRY
120	KAPILAVAYI V BASAVA RANJITHA	RESEARCH SCHOLAR	ADIKAVI NANNAYA UNIVERSITY	RAJAHMUNDRY
121	RAMESH VAVILAPALLI	RESEARCH SCHOLAR	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY

122	S. GAYATRI PRIYA	RESEARCH SCHOLAR	GIET GODAVARI INSTITUTE OF ENGINEERING & TECHNOLOGY	RAJAHMUNDRY
123	RAMBABU VASAMSETTI	RESEARCH SCHOLAR	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
124	V SUSEELA	RESEARCH SCHOLAR	ADIKAVI NANNAYA UNIVERSITY	TADEPALLIGUDEM
125	YOGA INDRA ENIYA.R	RESEARCH SCHOLAR	GOVERNMENT ARTS COLLEGE FOR MEN, KRISHNAGIRI	KRISHNAGIRI, TAMIL NADU
126	K. ARCHANA	RESEARCH SCHOLAR	VELS INSTITUTE OF SCIENCES, TECHNOLOGY AND ADVANCED STUDIES	TAMILNADU
127	P. INDHUMATHY	RESEARCH SCHOLAR	VELS INSTITUTE OF SCIENCE TECHNOLOGY AND ADVANCED STUDIES	TAMILNADU
128	S V NIVATHRA	RESEARCH SCHOLAR	VELS INSTITUTE OF SCIENCE TECHNOLOGY AND ADVANCED STUDIES	TAMILNADU
129	SURESH PATNAIK PAKKI	RESEARCH SCHOLAR	ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT	TEKKALI
130	MULLA JAKEER HUSSAIN	RESEARCH SCHOLAR	SVU COLLEGE OF SCIENCES, TIRUPATHI	TIRUPATHI
131	PRAVALIKA CHANDINI KILLO	RESEARCH SCHOLAR	ANDHRA UNIVERSITY	VISAKHAPATNAM
132	P. CHANDANA	RESEARCH SCHOLAR	ANDHRA UNIVERSITY	VISAKHAPATNAM
133	V.ANUSHA	RESEARCH SCHOLAR	ANDHRA UNIVERSITY	VISAKHAPATNAM
134	S.SAI SUPRIYA	RESEARCH SCHOLAR	ANDHRA UNIVERSITY	VISAKHAPATNAM
135	SANDHYA RANI NAYAK	RESEARCH SCHOLAR	ANDHRA UNIVERSITY	VISAKHAPATNAM
136	M.LOKESH	RESEARCH SCHOLAR	ANDHRA UNIVERSITY	VISAKHAPATNAM
137	R. ANUSHA	RESEARCH SCHOLAR	ANDHRA UNIVERSITY	VISAKHAPATNAM
138	N. BHARGHAVI	RESEARCH SCHOLAR	ANDHRA UNIVERSITY	VISAKHAPATNAM
139	LT.M.V. PREAM SAGAR	RESEARCH SCHOLAR	GITAM	VISAKHAPATNAM
140	V SATYANARAYANA	RESEARCH SCHOLAR	GOVERNMENT DEGREE COLLEGE	VIZIANAGARAM
141	T. LAKSHMI PRASANNA	STUDENT	SIR C. R. REDDY COLLEGE (A)	ELURU
142	CH. RAJESWARI	STUDENT	SIR C. R. REDDY COLLEGE (A)	ELURU
143	V S PAVAN KISHORE	STUDENT	SIR C. R. REDDY COLLEGE (A)	ELURU
144	M. RAJESH	STUDENT	SIR C. R. REDDY COLLEGE (A)	ELURU
145	D.VEERA SUNDHARSAN	STUDENT	GOVERNMENT DEGREE COLLEGE	GAMMELAMADUGU

146	A RAJESWARI	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
147	A VAMSI	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
148	A SURYA TEJASWI	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
149	A RENU SPURTHY	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
150	B. YOGITHA	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
151	BALIREDDY LALITHA VEERA SIVA DURGA	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
152	B MANIKANTA	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
153	BANKURU OMSIRI	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
154	BARRE RANI	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
155	BONTHU NAGESWARI	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
156	BORRA CHETAN KUMAR	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
157	CH. HANSIKA TULASI	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
158	CHITIKINA SATISH	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
159	CHODIPALLI SURESH	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
160	D.KUSMITHA	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
161	D.SRIDEVI	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
162	D.SWARNA SANTHI KUMARI	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
163	DAMMU MUTYALU	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
164	DERA MEENAKSHI	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
165	DESAGIRI SIRISHA	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
166	DEVANA AJITHKUMAR	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
167	D KRISHNA KISHORE	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
168	DODDI KIRAN KUMAR	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
169	DUVVADA PRADEEP	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
170	ENDRI ASWINI	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
171	G. KRISHNAMA NAIDU	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
172	G. LAXMI DURGA	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
173	G.V.D.B. BHAVANA	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
174	G. VIMALA SRI	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
175	GUMMADI NANDINI	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
176	GUMMADI VIJAYA KUMARI	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
177	G SAI LALITHA PADMAVATHI	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
178	G SAI SATYA KRISHNA	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
179	GVV SAI ESWAR	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
180	J. DHANA LAKSHMI	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
181	K YESEBU	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
182	K. KEERTHI	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
183	K. LOVA LALITHA	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY

184	K. MOUNIKA	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
185	K. SOWMYA SRI	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
186	K. SUVARNA REKHA	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
187	KADIAM VENKATA SURYA VARDHAN	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
188	K SAI RAMESH	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
189	KARANAM SAIKUMAR	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
190	KATRU JAYASRI	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
191	K SIRI SAMEERA	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
192	KODURI SRI SAI DEEPTHIKA	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
193	K HEMANTH KUMAR	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
194	KOYYA MOUNIKA	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
195	LANKA BALARAJU	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
196	L DEEPIKA	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
197	LUKALAPU KUMARI	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
198	M TEJASWINI	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
199	M. MADHU SWETHA	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
200	M. PRASANNA	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
201	M. KAVYA	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
202	M. MOUNIKA	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
203	M. NAGENDRA	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
204	M. SAI SRI	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
205	M. SATYANARAYANA REDDY	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
206	MALLA SANDHYA	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
207	MARPU SRAVANTHI	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
208	MARRE DIVYA DURGA LAKSHMI	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
209	M. MANIKANTA SUBBARAO	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
210	MATTA CHANDRIKA	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
211	MD. SOHA ALIA	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
212	M. DURGA VENKATA SATYANARAYANA	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
213	MODALAVALASA VENKATESH	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
214	MUTYALA HARI RAMANUJAMMA	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
215	N MANI VENKATESH	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
216	P. INDIRA PRIYADARSINI	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
217	P. SIRI	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
218	PALLALA LAVANYA	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
219	PEELA KUSUMA	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY

220	PENKI RAMBABU	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
221	PENTAKOTA SATISH	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
222	PINNAM SREEKANTH	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
223	R. JOGARAO	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
224	R. MEGHANA SAI SRI AMBICA	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
225	R RAMBABU	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
226	RELLA JYOTSHNA	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
227	S. NAGA DEVI	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
228	S. SOFIA	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
229	SANAGANA VENKATA JAGADEESH	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
230	SETTI SIRISHA	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
231	SK. IBRAHIM	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
232	SSSPNK SATWIKA	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
233	SUNTRU ASHAPRIYA	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
234	TADI MANOJ KUMAR	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
235	TANGETI AJAY KUMAR	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
236	T DURGA BHAVANI	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
237	THOLETI BHAVANI	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
238	T SANJANARANI	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
239	T SNEHANJALI YADAV	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
240	TUMULA AYYAPPA	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
241	U BHASKARARAO	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
242	U AKHILANDESWARI	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
243	V RACHEAL	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
244	V. CHANDINI	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
245	V. HARISHA	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
246	V. PRASANNA LAKSHMI	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
247	V. SIVA	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
248	V. SWAMI	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
249	VADISELA DHARANI	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
250	V JOHN PRASAD	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
251	VANTHALA SAVITHRI	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
252	V MAHESH BABU	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
253	VARDHANAPU MADHU	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
254	VEMA KALYAN REDDY	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
255	VIPPARTHI MOHITH	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
256	Y. NAVEEN KUMAR	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY
257	Y KEERTHI	STUDENT	GOVERNMENT COLLEGE (A)	RAJAHMUNDRY

258	R. GAYATRI	STUDENT	SKVT GOVERNMENT DEGREE COLLEGE	RAJAHMUNDRY
259	J. JNANALAHARI KARTHIKEYA	STUDENT	SKVT GOVERNMENT DEGREE COLLEGE	RAJAHMUNDRY
260	V. BHASKAR LOKESH	STUDENT	SKVT GOVERNMENT DEGREE COLLEGE	RAJAHMUNDRY
261	V.MOHAN VEERA SATISH	STUDENT	SKVT GOVERNMENT DEGREE COLLEGE	RAJAHMUNDRY
262	A. JAGADEESH	STUDENT	SKVT GOVERNMENT DEGREE COLLEGE	RAJAHMUNDRY
263	S. VINAY JYOTHI	STUDENT	SKVT GOVERNMENT DEGREE COLLEGE	RAJAHMUNDRY
264	CH. DURGA PRASAD	STUDENT	SKVT GOVERNMENT DEGREE COLLEGE	RAJAHMUNDRY
265	P UDAYMANI	STUDENT	GMR INSTITUTE OF TECHNOLOGY	RAJAHMUNDRY
266	K. HARSHINI	STUDENT	ADIKAVI NANNAYA UNIVERSITY	TADEPALLIGUDEM
267	S. LIKHITHA RANI	STUDENT	ADIKAVI NANNAYA UNIVERSITY	TADEPALLIGUDEM
268	CH. HARIKA	STUDENT	ADIKAVI NANNAYA UNIVERSITY	TADEPALLIGUDEM
269	N. PREMANWITHA	STUDENT	ADIKAVI NANNAYA UNIVERSITY	TADEPALLIGUDEM
270	K. RATNA KUMARI	STUDENT	ADIKAVI NANNAYA UNIVERSITY	TADEPALLIGUDEM
271	K. MEENAKSHI	STUDENT	ADIKAVI NANNAYA UNIVERSITY	TADEPALLIGUDEM
272	B. SUKANYA	STUDENT	ADIKAVI NANNAYA UNIVERSITY	TADEPALLIGUDEM
273	G. DURGA KALYANI	STUDENT	ADIKAVI NANNAYA UNIVERSITY	TADEPALLIGUDEM
274	M. RAMBABU	STUDENT	ADIKAVI NANNAYA UNIVERSITY	TADEPALLIGUDEM
275	M. SUBBA LAKSHMI	STUDENT	ADIKAVI NANNAYA UNIVERSITY	TADEPALLIGUDEM
276	R CH N V SATYANARAYANA	STUDENT	ADIKAVI NANNAYA UNIVERSITY	TADEPALLIGUDEM
277	K. VANI	STUDENT	ADIKAVI NANNAYA UNIVERSITY	TADEPALLIGUDEM
278	P. DURGA KIRAN	STUDENT	ADIKAVI NANNAYA UNIVERSITY	TADEPALLIGUDEM
279	B N V VIJAYA LAKSHMI	STUDENT	ADIKAVI NANNAYA UNIVERSITY	TADEPALLIGUDEM
280	MITHRA K	STUDENT	DR.NGP ARTS AND SCIENCE COLLEGE	TAMILNADU
281	SHA PASHA	STUDENT	ANDHRA UNIVERSITY	VISAKHAPATNAM

Inaugural Session

The inauguration session of "International Conference on Resilient Innovations for Subsistence Environment (ICRISE-2025)" marked the formal commencement of a two-day interdisciplinary research forum dedicated to addressing contemporary environmental and socio-technical challenges in subsistence-oriented communities. The session brought together academicians, researchers, industry professionals and students from diverse backgrounds to deliberate on innovative, resilient and context-sensitive solutions for sustainable development.

Chief Guest, Resource Persons and Participants

Inviting the dignitaries onto the dais

The inaugural session was graced by Dr. P. V. Krishnaji, Regional Joint Director (Zones I and II), Commissionerate of Collegiate Education, Andhra Pradesh, as Chief Guest. Dr. Ramachandra R. K., Principal of the College, chaired the session, with Sri T. Srinivasa Rao serving as Convenor and Sri V. Sridhar and Dr. G. Tejaswini as Organizing Secretaries. This program began with lamp-lighting followed by Prayer Song.

Distinguished persons on dais

Lighting of the Lamp

Notable scientists and eminent resource persons shared the dais, while faculty members, research scholars and students from diverse institutions contributed vibrant participation, enriching the intellectual discourse. The Principal emphasized the importance of

environmental sustainability and extended best wishes for the event's success. The Regional Joint Director highlighted the depletion of natural resources and urged students to assume responsibility for safeguarding them for future generations. The Convenor outlined the conference theme and the Organizing Secretaries shared the story behind its inception.

Regional Joint Director, Dr. P.V. Krishnaji garu is addressing the gathering

The Principal, Dr. Ramachandra R.K. garu is addressing the meeting

Convenor, Sri T. Srinivasa Rao, In-charge, Chemistry Department

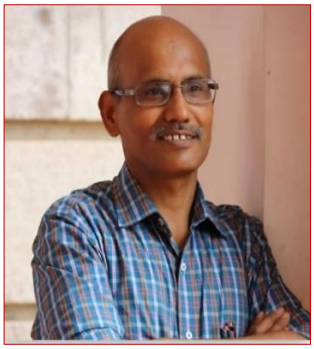
Later, distinguished guests and resource persons released the Conference Souvenir in both digital and print formats.

Souvenir release by the eminent personalities

With this inauguration, ICRISE-2025 was formally declared open, setting the tone for technical paper presentations, poster sessions, panel discussions and networking activities that spanned the subsequent two days.

Keynote Address

The Progression of Organic Synthesis: From Wohler to the Current State of the Art



Prof. Kavirayani R. Prasad,
Organic Chemistry,
Indian Institute of Science,
Bengaluru, India
e-mail: prasad@iisc.ac.in

Prof. K. R. Prasad, Shanthi Swarup Bhatnagar Awardee in Chemical Sciences-2014

Prof. Kavirayani R. Prasad states that the story of organic synthesis truly transformed after Wohler's historic synthesis of urea, which shattered the belief that organic compounds could only arise from living organisms. He explains that from that point onwards, organic synthesis evolved into a powerful intellectual framework that allows chemists to design and construct complex molecules with precision, rather than merely isolating them from nature. He goes on to say that modern synthetic methods such as selective oxidations, reductions, carbon–carbon bond forming reactions and asymmetric synthesis have not only enabled the synthesis of intricate natural products but have also provided tools to explore reaction mechanisms and structure–activity relationships in detail.

Prof. Prasad emphasizes that natural product synthesis has served as a testing ground for creativity, pushing chemists to invent new reactions and strategies whenever existing methods fall short. He illustrates that these efforts do not exist in isolation: advances in organic synthesis directly elevate allied fields like medicinal chemistry, materials science, and chemical biology because access to tailor-made molecules is essential for progress in these domains.

Prof. Prasad clarifies that his lecture is intentionally pedagogic, directed towards undergraduate and graduate students, so that they can appreciate how organic chemistry underpins human well-being from pharmaceuticals and agrochemicals to functional materials and diagnostics. Through selected examples, he aims to show students that behind every life-

saving drug or advanced material lies a carefully designed synthetic route and a deep understanding of reactivity.

All the participants inspired by Prof. Kavirayani R. Prasad's lecture on "The Progression of Organic Synthesis: From Wohler to the Current State of the Art," viewing it as a roadmap showing how chemistry builds resilience for subsistence environments through accessible drug and agrochemical production. His narrative from Wohler's 1828 urea synthesis shattering vitalism to modern asymmetric catalysis left students in awe of organic chemistry's power to create life-saving molecules from basic feedstocks. The emphasis on natural product synthesis as a "testing ground for creativity" electrified students, who saw complex molecule assembly as blueprints for village-level production of antimalarials or biopesticides.

Students appreciated the lecture's undergraduate/graduate focus, feeling Prof. Prasad personally equipped them to grasp how synthetic methods elevate allied fields like medicinal chemistry for subsistence healthcare. They left determined to champion organic synthesis in their colleges, planning demos showing how reaction invention creates jobs and medicines for the poorest transforming "just chemists" into environmental resilience architects. The talk crystallized for students that behind every pill reaching remote villages lies decades of synthetic evolution, igniting capstone dreams of green synthesis hubs serving subsistence farmers with custom agro-molecules during climate shocks. It positioned organic chemistry not as abstract theory, but as the ultimate resilient innovation sustaining human well-being in resource-scarce environments.

Participants are listening the address of Prof. K. R. Prasad

Invited Talk-1

Stereo-Electronically Tuned NHC-Supported Species: Versatile Platforms in Metal-Free and Metal-Based Homogeneous Catalysis

Dr. Adinarayana Doddi
Associate Professor,
Chemical Sciences,
Indian Institute of Science Education and Research,
Berhampur, India
e-mail:
adoddi@iiserbpr.ac.in

Dr. Adinarayana Doddi explains that there has been growing interest in main group element species such as silyl phosphines and N-heterocyclic olefin (NHO) supported P(III) compounds, which he describes as stereo-electronically tuned phosphorus species. He notes that such ligands are invaluable both for isolating unusual main group and organometallic fragments and as ancillary ligands in homogeneous catalysis. He points out that while phosphine ligands featuring group 13/14 elements in pincer-type architectures have been studied, their monodentate analogues remain underexplored for organometallic synthesis and catalysis. Within this context, he highlights silyl-functionalized phosphines, bearing SiR3 groups as offering distinctive steric and electronic properties that can lead to new reactivity patterns.

Dr. Doddi mentions that his group has recently introduced N-heterocyclic olefin phosphines (NHOPs) as platforms capable of stabilizing interesting organometallic species and enabling small-molecule activation, particularly for molecules such as carbon dioxide. He explains that using these systems, carbon dioxide can be converted into various N-formylated products and cyclic compounds under metal-free conditions, demonstrating both fundamental and applied significance. He further notes that silylphosphines with Si–H bonds react with Ru and Pd precursors to yield Ru(II) and Pd(II) complexes; in the palladium case, insertion into the Si–H bond leads to Pd–Si bonded species, whereas reactions with R2PSiMe3 give P-

coordinated complexes, highlighting the superior utility of Si–H versus Si–R units in organometallic synthesis.

Dr. Doddi continues by describing a series of electronically rich neutral and cationic P(III) species featuring N-heterocyclic olefins that his team has isolated. These species have been used to prepare half-sandwich ruthenium complexes, which are then evaluated for structural characteristics and catalytic activity. In his talk, he intends to discuss in detail the synthesis, structural features and catalytic behavior of these NHC- and NHO-based phosphorus systems, emphasizing how stereo-electronic tuning can be exploited for metal-free and metal-based homogeneous catalysis.

Resource Person is clarifying the doubts of the Participants

Participants are listening the Resource Person's Talk

Invited Talk-2

Tetrazine Based Polymers for Environmental and Biological Sensing

Prof. Rajeswara Rao M
Associate Professor,
Department of Chemistry,
Indian Institute of
Technology, Dharwad.

Prof. Rajeswara Rao M explains that functional organic polymers form a powerful material platform for biosensing and environmental sensing because they combine tunable chemistry, biocompatibility and electronic conductivity. He notes that in his laboratory, several tetrazine-based organic polymers have been developed as sensing materials with structures carefully designed to achieve high sensitivity and selectivity.

He describes how these tetrazine polymers have been tailored to detect the biomarker carcinoembryonic antigen (CEA), enabling biosensing from saliva samples. He points out that such a non-invasive approach can be an important tool for early identification of cancers like ovarian and throat cancer.

Prof. Rao emphasizes that tetrazine's high nitrogen content and strong binding interactions underlie its excellent sensing performance, allowing for robust signal generation upon analyte binding. In his presentation, he intends to highlight design principles, structure–property relationships, and practical sensing demonstrations to show how tetrazine-based polymers can be harnessed for biomedical diagnostics and environmental monitoring.

Invited Talk-3

Sustainable Materials Design: Phase structure tuning in tungsten oxides

Dr. Bandi Suresh
Assistant Professor,
Dept. of Metallurgical and Materials Engineering, Malaviya National Institute of Technology, Jaipur, India
Email: suresh.meta@mnit.ac.in

Dr. Bandi Suresh explains that in modern technology, materials design focuses on stabilizing desired phases, structures, and morphologies because these features directly determine a material's functional properties. He asks what happens if such design can be achieved with reduced chemical impact and a smaller carbon footprint, and argues that this is the essence of sustainable materials design. He presents a facile approach to designing various tungsten oxide–based materials, including W18O49 nanowires, cubic hydrogen tungsten bronze (H0.5WO3), WO3·1/3H2O nanoplates, and the low-temperature ε-WO3 phase.

Dr. Suresh explains that W18O49 nanowires and H0.5WO3 can be synthesized starting from W powder, with minor process modifications such as varying crystallite size via high-energy ball milling, followed by heat treatment in a water vapor atmosphere to achieve distinct phases. He then explores the crystallographic origins of this phase diversity and stability. For WO3·1/3H2O, he notes that solvothermally prepared nanorods and nanoplates exhibit different behaviors in CO_2 adsorption, and he investigates the reasons behind this morphology-dependent performance.

Dr. Suresh points out that these tailored tungsten oxide materials hold potential for applications such as electrochromic windows, sensors, fuel cells, catalysts, batteries and piezoelectrics. He positions his work as demonstrating how phase and structure tuning in tungsten oxides can be accomplished in a more sustainable manner while still targeting high-performance applications.

Invited Talk-4

Organic Chemistry at the Heart of Drug Discovery

Dr. Srinivasa Karra
Director, Medicinal Chemistry
Avilar Therapeutics, Waltham,
Massachusetts, USA.

Dr. Srinivasa Rao Karra delivered his lecture online through the following Microsoft Teams link: https://teams.microsoft.com/l/meetup-join/19%3ameeting_NGI5OWFiNWQtZWYxNy00MDEwLTllNWEtZTFjYTJiNjNlNWVl%40thread.v2/0?context=%7b%22Tid%22%3a%226507efaf-7de9-4803-aa28-dfc5bce951da%22%2c%22Oid%22%3a%22d1d5b37a-c374-4217-9e41-fed1a431c7ef%22%7d

Dr. Srinivasa Rao Karra explains that drug discovery is a multi-step, interdisciplinary endeavor, drawing on genetics, biochemistry, cellular biology, computational chemistry, animal pharmacology, toxicology and formulation science among others. He emphasizes that despite this diversity, organic chemistry remains central because every small-molecule drug ultimately depends on the design, synthesis, and optimization of organic structures. He describes how chemists first study the mechanisms by which diseases arise often involving dysregulated proteins, enzymes or signalling pathways and then design molecules that can modulate those targets.

Dr. Karra points out that organic chemistry is essential not only in discovering initial hits and leads but also in refining them for potency, selectivity, pharmacokinetics and safety. He further notes that the same discipline underpins subsequent scale-up and manufacturing, where synthetic routes must be adapted to produce kilograms or tons of drug substance. In his seminar, he says he will guide the audience through the overall drug discovery pipeline, from target identification and hit generation to preclinical and clinical development.

He plans to highlight examples of both natural and synthetic drugs, showing how stereochemistry can dramatically influence properties such as efficacy, toxicity, and metabolism. He also discusses the types of organic reactions used widely in pharmaceutical synthesis from classic transformations to novel reactions that improve step economy or enable previously inaccessible structures. By illustrating recent innovative reactions introduced into development and manufacturing, he aims to show how advances in organic chemistry directly accelerate pharmaceutical research.

Dr. M.L.N. Acharyulu is interacting with Dr. Srinivasa Rao Karra

Invited Talk-5

Process Development of Complex APIs via Resilient Innovations: Challenges and Opportunities

Dr. Srinivas Kalidindi
Lead Investigator,
BBRC-Syngene International Ltd., Bangalore, India.

Dr. Srinivas Kalidindi begins by reminding the audience that Active Pharmaceutical Ingredients (APIs) are the biologically active components that confer therapeutic effect in medicines, whether they treat disease or relieve symptoms. He explains that within Pharmaceutical Development at BBRC, a key responsibility is to scout synthetic routes and then develop safe, scalable processes that meet stringent quality and safety requirements.

He elaborates that this involves detailed analysis of reaction pathways, impurity control, process safety assessment, and engineering controls, all aimed at delivering robust procedures that can be implemented reproducibly. He stresses that such process development often encounters significant challenges such as scale-dependent exotherms, impurity formation or operational bottlenecks which must be resolved through what he calls “resilient innovations”.

Dr. Kalidindi states that his presentation showcases some recent examples where multi-kilogram quantities of structurally complex APIs were synthesized by rethinking routes, redesigning unit operations, or integrating new technologies, while always keeping in view sustainability, safety and cost effectiveness. He notes that these case studies illustrate how deep knowledge of organic chemistry, combined with process engineering, can transform an elegant laboratory route into a reliable manufacturing process suitable for clinical and commercial use.

Invited Talk-6

Highly diastereoselective total synthesis of Vibegron, Eliglustat, (S)-Tolvaptan & Ternatusine

Dr. B.V. Subba Reddy,
Chief Scientist,
CSIR-IICT, Hyderabad
e-mail:
Basireddy.iict@csir.res.in

Dr. B.V. Subba Reddy delivered his lecture online through the following Microsoft Teams link: https://teams.microsoft.com/l/meetup-join/19%3ameeting_OWU3YzNhZjUtYTY1My00ZDBjLWEzNWItYTY5Yjc2MjgwYzdj%40thread.v2/0?context=%7b%22Tid%22%3a%226507efaf-7de9-4803-aa28-dfc5bce951da%22%2c%22Oid%22%3a%22d1d5b37a-c374-4217-9e41-fed1a431c7ef%22%7d

Dr. B. V. Subba Reddy explains that his work focuses on highly diastereoselective and convergent routes to important drug molecules such as Vibegron, Eliglustat, (S)-Tolvaptan, and the natural product Ternatusine A, using readily available chiral building blocks like D-serine and D-allal. He highlights that his strategies are designed to maximize stereo control, improve overall yield, and avoid hazardous conditions, thus making the routes more practical and sustainable.

When describing Vibegron, a drug for overactive bladder disease, he points out that a key feature of his synthesis is a substrate-directed diastereoselective reduction of a ketone to afford a syn-1,2-amino alcohol, which sets the stereochemical foundation crucial for the molecule's biological activity. He further notes that the formation of a cis-pyrrolidine ring via a one-pot sequence involving Pd/C-catalyzed olefin reduction, debenzylation, Cbz deprotection, and reductive amination/cyclization enables an efficient assembly of the core structure. Dr. Reddy states that with these steps, Vibegron can be synthesized in nine steps from

D-serine with an overall yield of about 36%, representing a non-enzymatic and viable alternative to earlier approaches.

Turning to Eliglustat, he explains that the synthesis again starts from D-serine and uses a four-step telescoped process to obtain a keto intermediate (S4) in 74% overall yield, thereby improving step economy and reducing handling. He emphasizes that diastereoselective reduction of S4 with sodium borohydride furnishes the key alcohol S5 with excellent diastereomeric ratio (greater than 99:1) and 95% yield, which is central to stereochemical purity. Overall, Eliglustat is obtained in ten steps from D-serine with about 21% yield, while also avoiding hazardous reaction conditions, making the route attractive for scale-up.

For (S)-Tolvaptan, a drug used in the treatment of hyponatremia, he remarks that a novel and concise route has been developed in which a benzazepinone intermediate is prepared in only three steps via ortho-acylation of an N-pivalamide protected aryl amine followed by intramolecular haloamine cyclization.

He notes that the total synthesis from p-chloroaniline is achieved in seven steps with about 43% overall yield, underscoring the efficiency of this design. Discussing Ternatusine A, a natural product from the roots of Ranunculus ternatus, Dr. Reddy explains that his synthesis starts from D-allal and employs an intramolecular 1,3-dipolar cycloaddition of an azomethine ylide generated in situ from C2-formyl-D-allal and ethyl N-benzyl glycinate.

He points out that this key cycloaddition builds the pyrrole core in a highly diastereoselective manner, while a carboxylic-acid-directed transition metal catalyzed C–H functionalization at the C3 position of the pyrrole further demonstrates the sophistication of the route. He positions this work as a novel and stereocontrolled platform for accessing Ternatusine A and similar architectures.

Invited Talk-7

Sustainable Materials - Order of the Day to Combat Climatic Changes

Dr. M.L.N. Acharyulu
Associate Professor, Head,
Centurion university of
Technology and Management,
Vizianagaram-535003
e-mail: acharyulu@cutmap.ac.in

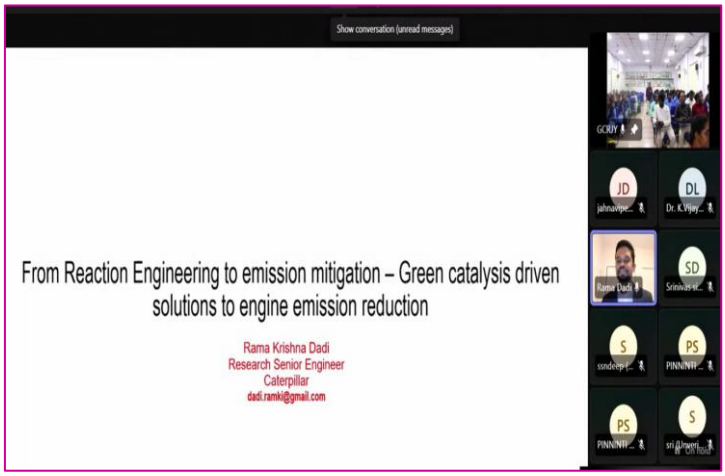
Dr. M. L. N. Acharyulu begins by reflecting on the Sanskrit phrase "Loka Samastha Sukhino Bhavantu," noting that its vision of universal well-being is increasingly threatened by escalating environmental crises. He asserts that the world is moving toward a state of potential extinction, as evidenced by rising natural calamities and anthropogenic impacts, which together drive climate change and endanger global stability. He cites recent increases in events such as avalanches, tsunamis and cloudbursts, which have caused significant casualties, property damage and psychological stress, ultimately undermining societal and economic growth. He poses a series of questions: whether these trends will continue, whether effective solutions exist, and whether there can be a permanent remedy. He argues that the only viable option before humanity is the widespread adoption of sustainable materials across agriculture, commercial sectors, industry, and domestic life.

Dr. Acharyulu emphasizes that unless sustainable materials are deployed "on a war footing," global temperature rise cannot be controlled and both the planet and humanity will remain at risk. In his presentation, he intends to show how sustainable materials integrated into engineering, science, technology and even artificial intelligence applications can help improve environmental quality. He frames sustainable materials not as a niche topic but as the order of the day, necessary for confronting climate change and preserving the globe.

Invited Talk-8

Topic: From Reaction Engineering to emission mitigation – Green Catalysis Driven Solutions to engine emission reduction

Dr. Rama Krishna Dadi
Research Scientist,
Caterpillar Inc.,
Illinois, USA



Dr. Rama Krishna Dadi explains that tightening global emission regulations are compelling the automotive and heavy machinery sectors to drastically reduce harmful pollutants such as particulate matter, carbon monoxide, hydrocarbons and nitrogen oxides in exhaust gases. He stresses that these pollutants pose serious environmental and health risks and thus drive the need for advanced aftertreatment technologies based on catalysis and reaction engineering.

For gasoline engines, he explains that Three-Way Catalysts (TWCs) have become a cornerstone technology, simultaneously oxidizing CO and hydrocarbons to carbon dioxide and water, while reducing NOx to nitrogen. He notes that these catalysts typically rely on platinum group metals for high activity. For diesel and lean-burn engines, he describes the widespread deployment of selective catalytic reduction (SCR) systems that use ammonia-based reductants and catalysts like copper- and iron-exchanged zeolites or vanadia-based materials to convert NOx into nitrogen and water.

Dr. Dadi explains that modern exhaust systems integrate these units into a multi-layered architecture that combines chemical conversion, filtration, and thermal management to meet stringent emission limits. He emphasizes that continued research in catalyst materials, system design, and control strategies is essential for future regulatory and environmental goals, and he notes that his talk will especially focus on diesel engine exhaust aftertreatment. He positions green catalysis and sustainable chemistry as key drivers in developing next-generation solutions that reduce environmental impact while maintaining engine performance.

Invited Talk-9

Topic: Sodium-ion Batteries: The Next Terawatt-Hour Technology?

Dr. -Ing. Pratap Kollu
Assistant Professor,
Centre for advanced Studies in Electronics Science & Technology,
HCU, Hyderabad

Dr.-Ing. Pratap Kollu explains that environmental sustainability in rechargeable batteries demands a shift to cleaner energy sources and a careful evaluation of how battery production impacts ecosystems. He notes that lithium mining has been associated with severe environmental damage affecting plants and animals, prompting the search for alternative chemistries. He points out that sodium can be obtained from abundant resources such as saltwater, making it a more environmentally friendly option than lithium. By adopting sodium-ion batteries, he argues, society can reduce ecological harm while progressing toward sustainable energy storage solutions. He further explains that sodium-ion batteries offer significant safety advantages: unlike lithium-ion batteries, they are not combustible and do not undergo thermal runaway, thereby enhancing operational safety. He states that sodium-ion batteries also exhibit long cycle life, making them reliable for various energy storage applications.

Dr. Kollu positions sodium-ion technology as a strong contender to replace or complement lithium-ion batteries in applications that demand sustainability, safety and robust performance. He stresses that it is essential to understand the current research status and challenges of sodium-ion batteries while considering their potential advantages, which include abundant raw materials, improved safety, high energy density and extended cycle life.

Oral and Poster presentations

The DST-ANRF/SERB sponsored International Conference on Resilient Innovations for Subsistence Environment (ICRISE-2025), held on November 21-22, 2025, at Government College (A), Rajahmundry, witnessed enthusiastic participation from researchers across diverse scientific domains. A total of 100 research papers were received by participants, spanning multiple thematic areas aligned with the conference's core mission of addressing pressing environmental challenges through innovative and sustainable solutions.

Participants who opted to present their research papers orally were permitted to do so on 21 November 2025 and 22 November 2025. Presentations were held at Dr. B. R. Ambedkar Seminar Hall, Government College (A), Rajahmundry (GCRJY), and the Conference/Board Room, GCRJY, in both online and offline modes.

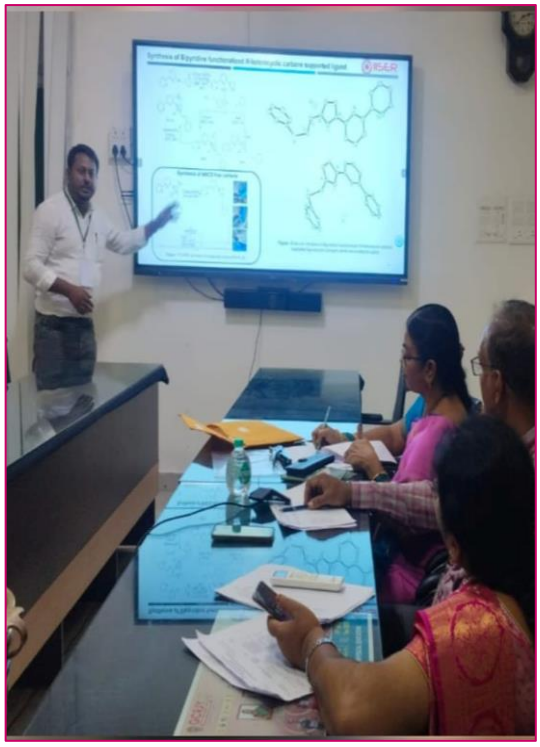
Online oral paper presentations were conducted via the following Google Meet link: https://meet.google.com/dhq-szxq-vkn

The following faculty members were nominated as judges for the oral paper presentations:

1. Dr. L. Rajeswari,
   Lecturer in Chemistry, Government College (A), Rajahmundry
2. Dr. A. Srinivasa Rao,
   In-charge, Department of Botany, Government College (A), Rajahmundry
3. Dr. Ch. Komala Lakshmi,
   In-charge, Department of Physics, Government College (A), Rajahmundry

Poster presentations were exhibited outside Dr. B. R. Ambedkar Seminar Hall, GCRJY. The following faculty members were nominated as judges for the poster presentations:

1. Dr. V. Durga Praveena,
   Lecturer in Chemistry, Government College (A), Rajahmundry
2. Dr. K. Anusha
   Lecturer in Biotechnology, Government College (A), Rajahmundry
3. Dr. D. Sailaja
   Lecturer in Zoology, Government College (A), Rajahmundry



Oral Presentations by the participants in Offline & Online Mode

The judges meticulously evaluated all presentations and selected the prize winners for both oral and poster categories. Prizes were conferred to the winners as given in the brochure, with participation certificates awarded to every presenter.

Synopsis of Oral and Poster presentations:

Nanotechnology and Green Chemistry:

A significant cluster of papers focused on green synthesis of nanoparticles and their multifunctional applications. Notable contributions included biogenic synthesis of silver, copper, iron and metal oxide nanoparticles using plant extracts from Azadiracta indica, Hibiscus rosa-sinensis, Pongamia pinnata and Bombax ceiba. These eco-friendly nanoparticles demonstrated promising antimicrobial, antioxidant, antidiabetic and photocatalytic properties. Research on N,S-co-doped carbon quantum dots from Tinospora cordifolia showed enhanced photocatalytic degradation efficiency and biological applications. The dandelion-like CoO/ZnMnO heterostructure nanocomposite exhibited exceptional performance as a battery-type electrode for hybrid supercapacitors with 1723.6 C/g specific capacity.

Sustainable Agriculture and Food Security:

Multiple papers addressed technological innovations for agricultural sustainability, including smart farming, precision agriculture, hydroponics-based integrated wastewater treatment, climate-adaptive strategies and subsistence environment innovations. Studies explored floating bed cultivation, undersea farming and smart carbon monitoring through digital sensing technologies. Food science innovations emphasized zero-waste approaches, upcycling food by-products, biodegradable packaging and circular economy principles to achieve environmental sustainability.

Environmental Remediation and Water Management:

Research presentations highlighted advanced bio-based nano-sensors for real-time water quality monitoring, decentralized water purification systems, rainwater harvesting innovations and smart irrigation technologies. Photocatalytic degradation studies using modified TiO_2 semiconductors, Li and Co/Cu modified $ZnFe_2O_4$, and carbon quantum dots demonstrated effective removal of organic pollutants. Water quality assessment studies examined fluoride contamination and uranium distribution around proposed nuclear power plant sites.

Chemical Synthesis and Drug Development:

Several papers presented novel synthetic methodologies including green synthesis pathways for bioactive benzothiazoles, quinoxaline-pyrazole derivatives, spiroindoline

derivatives via cycloaddition reactions and imidazole/quinazoline derivatives using sustainable protocols. Studies on DES-promoted synthesis routes and computational docking exploration for thiadiazole analogues targeting cancer activity showcased the integration of computational chemistry with experimental synthesis.

Digital Technologies and AI Applications:

Research contributions emphasized the role of artificial intelligence in environmental monitoring, smart crop advisory systems using machine learning, integrated digital ecosystems leveraging geospatial informatics and smart carbon credit optimization. Papers discussed blockchain integration for environmental resilience, digital water sensing systems for wastage reduction, and AI-powered eco-pods for proactive hygiene management.

Conclusion

Finally, the diverse research presentations at ICRISE-2025 demonstrated the interdisciplinary nature of contemporary environmental challenges and the crucial role of scientific innovation in building sustainable subsistence environments. The conference successfully provided a platform for knowledge exchange, fostering collaborations among academicians, researchers and practitioners committed to environmental stewardship and climate resilience.

Oral/Poster Presentations - Winners list

Sl. No.	Name of the participant	Oral/Poster presentation	Name of the Institute	Prize awarded
1	Masqood Alam	Oral	IISER, Berhampur	I
2	Jyothikiran Sahoo	Oral	IISER, Berhampur	II
3	Rageshree Dash	Oral	IISER, Berhampur	III
4	B. Yogitha	Oral	Government College (A), Rajahmundry	Consolation
5	V. Harisha	Oral	Government College (A), Rajahmundry	Consolation
6	Dr. Shiva Krishna Loke	Poster	Godavari Global University (GGU), Rajahmundry	I
7	K. V. Basava Ranjitha	Poster	AKNU, Rajahmundry	II
8	D. Kusumitha	Poster	Government College (A), Rajahmundry	III

Valedictory Session

The valedictory session concluded the International Conference on Resilient Innovations for Subsistence Environment on November 22, 2025, synthesizing key insights from the multi-day event. Discussions highlighted resilient innovations in sustainable agriculture, environmental chemistry, and circular technologies, attended by over 280 delegates from diverse global institutions.

The Valedictory session was chaired by the Vice Principal, Dr. D.V.N. Srirama Murthy garu and he extended heartfelt appreciation to the chemistry department, commending their exemplary organization, meticulous planning and unwavering dedication. This effort not only elevated the conference's success but also showcased the department's leadership in fostering interdisciplinary research for subsistence environments.

Prof. Ramakrishna Rao, a revered figure in Chemistry, delivered inspiring blessings, urging continued innovation and collaboration. His words emphasized resilience as a cornerstone for sustainable futures, blessing the participants' endeavors with wisdom and optimism.

The Chemistry Department extended a warm felicitation to all resource persons who attended the conference with wholeheartedness. The valedictory session concluded with a formal vote of thanks.

The Head of the Chemistry Department and the Conference Convener, Sri T. Srinivasa Rao, extended personal thanks to each and every individual by name, acknowledging their specific contributions. Sincere gratitude was expressed to the distinguished resource persons, including keynote speakers and session chairs, for their invaluable contributions. Their expertise enriched deliberations on topics like climate-resilient agriculture and capturing of carbon dioxide inspiring actionable outcomes.

The Organizing Secretaries extended their sincere thanks to all participating delegates, emphasizing that the resounding success of the conference was attributable to their active involvement and contributions. The Organizing Secretary, Sri V. Sridhar, presented a comprehensive conference report. The report affirmed the event's role in advancing global subsistence innovations and outlined plans for proceedings publication.

Vice Principal, Dr. DVN Srirama Murthy garu addressing the gathering

Dr. Ramakrishna Rao garu
appreciating the organizing team

Organizing Secretary, Sri V. Sridhar
delivering the Conference Report

Prize distribution to the winners of Oral Presentations

Prize distribution to the winners of Poster Presentations

Special appreciation to the judges

Prize winners with Resource Persons

PG Chemistry students, GCRJY with faculty and Resource Persons

Felicitation to Dr. K. Srinivas, Lead Investigator, BBRC-Syngene International Ltd., Bangalore

Felicitation to Dr. D. Adinarayana, Associate Professor, IISER, Berhampur

Felicitation to Dr. B. Suresh, Assistant Professor, MNIT, Jaipur (Young Scientist)

Felicitation to Prof. Rajeswara Rao M, Associate Professor, IIT, Dharwad

Felicitation to Dr. M.L.N. Acharyulu, Associate Professor, CUTM, Vizianagaram

Felicitation to Dr. -Ing. Pratap Kollu, Associate Professor, HCU, Hyderabad

Felicitation to Dr. Ramakirshna Rao, Retired Principal, Government College

Felicitation to Dr. B. Jagan Mohan Reddy, Professor, AKNU, Rajahmundry

Felicitation to Dr. DVNS Murthy, Vice-Principal, GCRJY

Felicitation to Dr. G. Tejaswini, Co-Organizing Secretary, ICRISE-2025

Flyer & Brochure designing

Mementoes selection

Lunch arrangements on Day-1

Lunch arrangements on Day-2

Feedback

Attendees appreciated substantive sessions on sustainability and confirming its successful execution. The resource persons' talks transformed students' mindsets from textbook learners to problem-solvers, igniting capstone projects linking synthesis, catalysis and materials to fight climate poverty head-on.

Feedback by the Participants

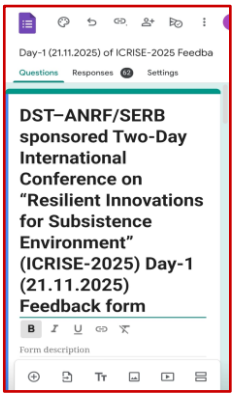
This event highlighted resilient innovations and environmental strategies through presentations and deliberations. It aligned with the college's focus on creative thinking and dynamic learning in science education. The success of the conference was made possible by the dedicated efforts and coordinated teamwork of the faculty and supporting staff of the Department of Chemistry.

Feedback was also taken online daily using the following links:

21.11.2025 (Day-1) Feedback link: https://forms.gle/4N2bzCqG8BiTrL2P6

22.11.2025 (Day-2) Feedback link: https://forms.gle/wN5G26ALM9tPAqEq8

Overall Feedback link: https://forms.gle/M33yn438W8ftFJGG6



Outcomes of the Conference

1. Students expressed profound inspiration from additional resource persons' talks at the conference, seeing direct pathways to apply cutting-edge chemistry for "Resilient Innovations for Subsistence Environment" in rural Indian contexts.
2. Participants felt inspired and empowered by how the conference's CO_2 innovations directly addressed "Resilient Innovations for Subsistence Environment" and transforming a climate threat into practical tools for rural survival.
3. Members found N-heterocyclic olefin phosphines (NHOPs) mind-blowing, as these ligands capture CO_2 from ambient air and convert it into valuable N-formyl chemicals without requiring metals or high energy inputs. They envisioned smallholder farmers using this technology to produce low-cost fertilizers or pesticides from village biogas waste, potentially cutting expenses by 50% and avoiding supply chain disruptions during monsoons. This sparked enthusiasm for thesis projects synthesizing these ligands to develop affordable crop enhancers for local use.
4. WO_3 nanoplates generated significant buzz among students, who recognized their shape-tuned CO_2 adsorption from biomass smoke as a means to rejuvenate depleted soils.
5. Participants pictured rural cooperatives deploying these inexpensive powders to capture CO_2 for biochar soil amendments, potentially boosting crop yields by 20-30% against unpredictable rainfall. Personal "We Can Do This" Takeaway The presentations ignited a sense of purpose among students, who realized they were acquiring tools not just for reactions, but for climate-resilient farming in vulnerable subsistence regions.
6. Connecting CO_2 conversion with adsorption created a complete cycle: capturing rural emissions, converting them to agrochemicals and sustaining food security amid environmental crises.
7. Stereoselective syntheses left students buzzing with excitement over 9-step Vibegron (36% yield) and 10-step Eliglustat from cheap D-serine, using one-pot cyclizations that skip enzymes. They felt empowered imagining village pharmacies producing overactive bladder and Gaucher disease drugs locally, slashing costs by 70% for subsistence communities where imports fail during floods.
8. Students envisioned powering irrigation pumps through monsoons, extending cycle life for subsistence farmers; thesis ideas exploded around prototyping Na-ion packs from local salts, feeling like energy independence heroes.

GOVERNMENT COLLEGE

An Autonomous Institution since 2000, Rajahmundry, Andhra Pradesh, India.

Estd. 1983

DST-ANRF / SERB Sponsored

Anusandhan National Reserach Foundation

INTERNATIONAL CONFERENCE ON RESILIENT INNOVATIONS FOR SUBSISTENCE ENVIRONMENT

CERTIFICATE OF PARTICIPATION

This is to Certify Dr./ Mr./Mrs./Ms. _____

from _____

has participated / Delivered a lecturer / Presented a Paper / Poster entitled / acted as adjudicator

_____ in the International Conference on Resilient Innovations for Subsistence Environment (ICRISE-2025) held on 21st & 22nd November 2025

Organising Secretary Convener Chairman

ఈనాడు
తూర్పుగోదావరి

గురువారం అక్టోబరు 23, 2025 5

నవంబరు 21, 22 తేదీల్లో అంతర్జాతీయ సదస్సు

దేవీచౌక్: రాజమహేంద్రవరం ప్రభుత్వ ఆర్ట్స్ కళాశాల రసాయనశాస్త్ర విభాగం ఆధ్వర్యంలో జీవనాధార పర్యావరణం కోసం ప్రతిఘటనాత్మక ఆవిష్కరణలపై నవంబరు 21, 22 తేదీల్లో అంతర్జాతీయ సదస్సు నిర్వహించనున్నారు. దీనికి సంబంధించిన గోడపత్రికను బుధవారం ప్రిన్సిపల్ డాక్టర్ రామచంద్ర ఆర్. కె. ఇతర అధ్యాపకులతో కలిసి ఆవిష్కరించారు. ఈ సదస్సుకు వివిధ విశ్వవిద్యాలయాలు, పరిశోధన సంస్థల నుంచి ప్రఖ్యాత శాస్త్రవేత్తలు హాజరవుతారన్నారు. కొత్త ఆలోచనలు పంచుకోవడం, పరిశోధన మార్గాలను అన్వేషించడం ఈ సదస్సు ముఖ్య ఉద్దేశ్యమన్నారు. సదస్సు కన్వీనరు శ్రీనివాసరావు, వి. శ్రీధర్, డాక్టర్ జి. తేజస్విని, ఇతర అధ్యాపకులు పాల్గొన్నారు.

గోడపత్రిక ఆవిష్కరిస్తున్న ప్రిన్సిపల్, అధ్యాపకులు

www.prajasakti.com

ప్రజాశక్తి

గురువారం 23 అక్టోబర్ 2025 5 తూర్పుగోదావరి

అంతర్జాతీయ సదస్సు పోస్టర్ ఆవిష్కరణ

ప్రజాశక్తి - రాజమహేంద్రవరం

ఆర్ట్స్ కళాశాల రసాయన శాస్త్ర ఆధ్వర్యంలో 'జీవనాధార పర్యావరణం కోసం ప్రతిఘటనాత్మక ఆవిష్కరణలపై అంతర్జాతీయ సదస్సు' నవంబర్ 21, 22నకళాశాల ప్రాంగణంలో జరుగనుంది. దీనికి సంబంధించిన పోస్టర్లను ప్రిన్సిపల్ డాక్టర్ రామచంద్ర బుధవారం ఆవిష్కరించారు. ప్రపంచవ్యాప్తంగా ఉన్న శాస్త్రవేత్తలు, పరిశోధకులు, పరిశ్రమ నిపుణులు, అధ్యాపకులు, విద్యార్థులను ఒకే వేదికపైకి తెచ్చి సుస్థిర పర్యావరణం కోసం ప్రతిఘటనాత్మక ఆవిష్కరణలు అంశంపై ఆలోచనలు పంచుకోవడం మరియు కొత్త పరిశోధన మార్గాలను అన్వేషించడం ఈ సదస్సు ముఖ్య ఉద్దేశ్యమన్నారు. ఈ సదస్సులో ఐఐఎస్సి బెంగుళూరు నుంచి శాంతి స్వరూప్ భట్నాగర్ అవార్డు గ్రహీత ప్రొఫెసర్ కెఆర్.ప్రసాద్ గారు, దేశంలోని విశ్వవిద్యాలయాలు, పరిశోధనా సంస్థల నుంచి ప్రఖ్యాత శాస్త్రవేత్తలు పాల్గొంటారని తెలిపారు. అమెరికాకు చెందిన ఇద్దరు పారిశ్రామికవేత్తలు కూడా ఈ కార్యక్రమంలో పాల్గొంటారన్నారు. దీన్ని విజయవంతం చేయాలని ఈ సందర్భంగా ఆయన పిలుపునిచ్చారు. ఈ మేరకు ఏర్పాట్లు పూర్తి చేయాలని నిర్వాహకులకు సూచించారు. ఈ కార్యక్రమంలో కన్వీనర్ శ్రీనివాసరావు, ఆర్గనైజింగ్ సెక్రటరీ వి.శ్రీధర్, సహాయ ఆర్గనైజింగ్ సెక్రటరీ డాక్టర్ జి.తేజస్విని, అధ్యాపకులు పాల్గొన్నారు.

7

రేపటి నుంచి అంతర్జాతీయ సదస్సు

దేవీచౌక్, న్యూస్‌టుడే: రాజమహేంద్రవరం ప్రభుత్వ ఆర్ట్స్ కళాశాల రసాయనశాస్త్ర విభాగం ఆధ్వర్యంలో ఈ నెల 21, 22 తేదీల్లో జీవనాధార పర్యావరణం కోసం ప్రతిఘటనాత్మక ఆవిష్కరణలు అనే అంశంపై రెండు రోజుల అంతర్జాతీయ సదస్సు నిర్వహించనున్నట్లు ప్రిన్సిపల్ డాక్టర్ రామచంద్రరావు ఒక ప్రకటనలో తెలిపారు. ఈ సదస్సులో ఉత్తమ పేపరుకు అవార్డులు, నగదు బహుమతులు, ఉత్తమ మౌఖిక, పోస్టర్ ప్రజెంటేషన్లకు సర్టిఫికెట్లు అందజేస్తామన్నారు. ప్రఖ్యాత శాస్త్రవేత్తలు పాల్గొని పరిశోధన నైపుణ్యాన్ని అందిస్తారన్నారు.

సాక్షి తూర్పుగోదావరి

గురువారం | 20 | నవంబర్ | 2025

21, 22వ తేదీల్లో అంతర్జాతీయ సమావేశం

కంబాలచెరువు: ప్రభుత్వ ఆర్ట్స్ కళాశాల కెమిస్ట్రీ విభాగం ఆధ్వర్యంలో ఈ నెల 21, 22వ తేదీల్లో జీవనాధార పర్యావరణానికి ప్రతిఘటనాత్మక ఆవిష్కరణలు అనే అంశంపై అంతర్జాతీయ సదస్సు నిర్వహించనున్నారు. ఈ విషయాన్ని ప్రిన్సిపాల్ డాక్టర్ రామచంద్ర ఆర్‌కే బుధవారం తెలిపారు. ఈ అంతర్జాతీయ సదస్సుకు సమర్పించిన అసలైన పూర్తి, నిడివి పరిశోధన పత్రాలు స్కోపస్, ఇండెక్స్‌డ్ స్ప్రింగర్ నేచర్‌లో ప్రచురించబడతాయన్నారు. ఈ సదస్సులో ఉత్తమ పేపర్‌కు అవార్డులు, నగదు బహుమతులు, ఉత్తమ మౌకిక, పోస్టర్ ప్రెజెంటేషన్లకు సర్టిఫికెట్లు ఉంటాయన్నారు. సదస్సులో ఐఏఎస్సీ బెంగళూరుకు చెందిన శాంతి స్వరూప్ భట్నాకర్ అవార్డు గ్రహీత ప్రొఫెసర్ కేఆర్ ప్రసాద్, దేశంలోని అనేక విశ్వవిద్యాలయాల పరిశోధన సంస్థల నుంచి ప్రఖ్యాత శాస్త్రవేత్తలు పాల్గొంటారన్నారు.

ఈనాడు
తూర్పుగోదావరి

గురువారం నవంబరు 20, 2025 5

రేపటి నుంచి అంతర్జాతీయ సదస్సు

దేవీచౌక్, న్యూస్‌టుడే: రాజమహేంద్రవరం ప్రభుత్వ ఆర్ట్స్ కళాశాల రసాయనశాస్త్ర విభాగం ఆధ్వర్యంలో ఈ నెల 21, 22 తేదీల్లో జీవనాధార పర్యావరణం కోసం ప్రతిఘటనాత్మక ఆవిష్కరణలు అనే అంశంపై రెండు రోజుల అంతర్జాతీయ సదస్సు నిర్వహించనున్నట్లు ప్రిన్సిపల్ డాక్టర్ రామచంద్రరావు ఒక ప్రకటనలో తెలిపారు. ఈ సదస్సులో ఉత్తమ పేపరుకు అవార్డులు, నగదు బహుమతులు, ఉత్తమ మౌఖిక, పోస్టర్ ప్రజెంటేషన్లకు సర్టిఫికెట్లు అంద జేస్తామన్నారు. ప్రఖ్యాత శాస్త్రవేత్తలు పాల్గొని పరిశోధన నైపుణ్యాన్ని అందిస్తారన్నారు.

THE NEW INDIAN EXPRESS | GODAVARI

02 TADEPALLIGUDEM | SATURDAY 22.11.2025

'Green Chemistry vital for sustainability'

EXPRESS NEWS SERVICE
@ Rajamahendravaram

SHANTI Swarup Bhatnagar Awardee Professor KR Prasad emphasised the importance of synthetic organic chemistry, environmental conservation and sustainability in the current national context.

Department of Chemistry at Government College (Autonomous) hosted first day of its two-day international conference on Innovative Resistance for Sustainable Environment (ICRISE-2025) on Friday.

Prof KR Prasad takes part in Seminar on Green Chemistry| EXPRESS

Prof. Prasad said chemistry plays a vital role in advancing sustainability. Through scientific research and green chemistry, also called science of sustainability, scientists can not only clean up the planet but also prevent pollution at its source. The inaugural ceremony was attended by Principal Dr Ramachandra RK, RJD PV Krishna Giri and leading chemists from across the country.

They noted that the conference aims to drive sustainable environmental change through bio-based innovations and green governance. Eminent scientists Dr A Adinarayana, Dr M Rajeshwara Rao and Dr B Suresh were present. Convener Dr V Sridhar, co-organising secretary Dr G Tejaswini, faculty members, research scholars and students participated.

www.prajasakti.com

ప్రజాశక్తి

శనివారం 22 నవంబర్ 2025 | 5 | తూర్పుగోదావరి

ఐసిఆర్ఐఎస్ఇపై అంతర్జాతీయ సదస్సు

ప్రజాశక్తి - రాజమహేంద్రవరం

ఆర్ట్స్ కళాశాల రసాయన శాస్త్ర విభాగం ఆధ్వర్యంలో 'జీవనాధార పర్యావరణం కోసం ప్రతిఘటనాత్మక ఆవిష్కరణలు(ఐసిఆర్ఐఎస్ఇ)' అంశంపై రెండు రోజుల పాటు జరిగే అంతర్జాతీయ సదస్సు శుక్రవారం ప్రారంభమైంది. ప్రారంభోత్సవ సభ ప్రిన్సిపల్ డాక్టర్ రామచంద్ర అధ్యక్షతన నిర్వహించారు. ముఖ్యఅతిథి రీజినల్ జాయింట్ డైరెక్టర్ డాక్టర్ పివి.కృష్ణాజీ హాజరయ్యారు. దేశ విదేశాల నుంచి ప్రఖ్యాత రసాయన శాస్త్రవేత్తలు విచ్చేసి సందేశాలను ఇచ్చారు. సెర్బ్, ఎఎస్ఆర్ఎఫ్ సౌజన్యంతో ఈ సదస్సును నిర్వహిస్తున్నామని ప్రిన్సిపల్ తెలిపారు. బయో ఆధారిత ఆవిష్కరణలు, గ్రీన్ గవర్నెన్స్ ద్వారా స్థిరమైన పర్యావరణ మార్పుకు దోహదపడుతుందన్నారు. ముఖ్య వక్తగా విచ్చేసిన శాంతి స్వరూప్ భట్నాగర్ అవార్డు గ్రహీత ప్రొఫెసర్ కెఆర్.ప్రసాద్ సింథటిక్ ఆర్గానిక్ కెమిస్ట్రీలో ఇప్పటి వరకూ జరిగిన వివిధ ఆవిష్కరణలను వివరించారు. ఐఐఎస్ఇఆర్ బేర్హంపూర్ అసోసియేట్ ప్రొఫెసర్ డాక్టర్ ఎ.ఆదినారాయణ, బెంగళూరులోని బీబీఆర్సి సైన్‌జెయిన్ ఇంటర్నేషనల్ లిమిటెడ్‌కు చెందిన లీడ్ ఇన్వెస్టిగేటర్ డాక్టర్ కె.శ్రీనివాస్, ధర్వాడ్ ఐఐటి అసోసియేట్ ప్రొఫెసర్ డాక్టర్ ఎం.రాజేశ్వరరావు, జైపూర్ ఎంఎస్ఐటి అసోసియేట్ ప్రొఫెసర్ డాక్టర్ బి.సురేష్ పరిశోధనలకు సంబంధించిన పలు విషయాలను వివరించారు. పోస్టర్ ప్రజెంటేషన్ నిర్వహించారు. ఈ కార్యక్రమంలో అంతర్జాతీయ సదస్సు కన్వీనర్, ఆర్గనైజింగ్ సెక్రటరీ వి.శ్రీధర్, కో-ఆర్గనైజింగ్ సెక్రటరీ డాక్టర్ జి.తేజస్విని, రసాయన శాస్త్ర విభాగ అధ్యాపకులు, వివిధ పరిశోధనా సంస్థల పరిశోధకులు, విద్యార్థులు పాల్గొన్నారు.

సదస్సులో పాల్గొన్న ప్రిన్సిపల్, శాస్త్రవేత్తలు

ABN ఆంధ్రజ్యోతి
ANDHRAJYOTHY
తూర్పుగోదావరి
జిల్లా వార్తలు
శనివారం 22 నవంబరు 2025 | 5

సదస్సు ప్రారంభోత్సవంలో శాంతి స్వరూప్ భట్నాగర్ అవార్డు గ్రహీత ప్రొఫెసర్ కేఆర్ ప్రసాద్, ఉన్నత విద్య రీజనల్ జాయింట్ డైరెక్టర్ పీవీ కృష్ణాజీ తదితరులు

'గ్రీన్ గవర్నెన్స్ ద్వారా స్థిరమైన పర్యావరణ మార్పు'

రాజమహేంద్రవరం అర్బన్, నవంబరు 21 (ఆంధ్రజ్యోతి) : బయో ఆధారిత ఆవిష్కరణలు, గ్రీన్ గవర్నెన్స్ ద్వారా స్థిరమైన పర్యావరణ మార్పునకు పరిశోధకులతో కూడిన సదస్సులు దోహదపడతాయని పలువురు పేర్కొన్నారు. శుక్రవారం రాజమహేంద్రవరం ప్రభుత్వ ఆర్ట్స్ కళాశాలలో కళాశాల రసాయనశాస్త్ర విభాగం ఆధ్వర్యంలో 'జీవనాధార పర్యావరణం కోసం ప్రతిఘటనాత్మక ఆవిష్కరణలు' అనే అంశంపై రెండు రోజుల సదస్సు ప్రారంభమైంది. తొలిరోజున శాంతి స్వరూప్ భట్నాగర్ అవార్డు గ్రహీత ప్రొఫెసర్ కెఆర్ ప్రసాద్, ఉన్నత విద్య రీజనల్ జాయింట్ డైరెక్టర్ వీవీ కృష్ణాజీ, ఆర్ట్స్ కళాశాల ప్రిన్సిపాల్ రామచంద్ర ఆర్కే తదితరులు మాట్లాడారు. ప్రొఫెసర్ ఆర్కే ప్రసాద్ సింథటిక్ ఆర్గానిక్ కెమిస్ట్రీలో ఇప్పటివరకూ జరిగిన ఆవిష్కరణలను వివరించారు. ఈ సందర్భంగా పోస్టర్ ప్రజెంటేషన్ కూడా నిర్వహించారు.

సాక్షి
తూర్పుగోదావరి

ఆదివారం | 23 | నవంబర్ | 2025

ముగిసిన అంతర్జాతీయ సదస్సు

కంబాలచెరువు (రాజమహేంద్రవరం): జీవనాధార పర్యావరణం కోసం ప్రతిఘటనాత్మక ఆవిష్కరణలు అనే అంశంపై స్థానిక ప్రభుత్వ కళాశాలలో జరుగుతున్న అంతర్జాతీయ సదస్సు శనివారం ముగిసింది. ఈ సందర్భంగా ముఖ్య వక్తలు క్యాటర్‌పిలర్ ఇంచార్జ్, రీసెర్చ్ సైంటిస్ట్ డాక్టర్ డి.రామకృష్ణ, యూఎస్‌కేకు చెందిన మెడిసినల్ కెమిస్ట్రీ డైరెక్టర్ డాక్టర్ కె.శ్రీనివాస్ ఆన్‌లైన్‌లో పరిశోధనలకు సంబంధించిన పలు అంశాలను వివరించారు. పర్యావరణ రహిత పరిశోధన విశేషాలను బెంగళూరు బయోకాన్ ఫార్మా శాస్త్రవేత్త కలిదిండి శ్రీనివాస్ విద్యార్థులకు విశదీకరించారు. కార్యక్రమంలో డాక్టర్ ఎంఎల్ఎన్ ఆచార్యులు, అసిస్టెంట్ ప్రొఫెసర్ డాక్టర్ కె.ప్రతాప్, చీఫ్ సైంటిస్ట్ డాక్టర్ బీవీ సుబ్బారెడ్డి, రసాయన శాస్త్ర విభాగ అధ్యాపకులు, పలు సంస్థల పరిశోధకులు పాల్గొన్నారు.

ఈనాడు
తూర్పుగోదావరి

శనివారం నవంబరు 22, 2025 7

పర్యావరణ పరిరక్షణపై సదస్సు

సావనీర్ ఆవిష్కరిస్తున్న ప్రిన్సిపల్, ఇతర శాస్త్రవేత్తలు

దేవీచౌక్, న్యూస్‌టుడే : బయో ఆధారిత ఆవిష్కరణలు, గ్రీన్ గవర్నెన్స్ స్థిరమైన పర్యావరణానికి దోహదపడతాయని వక్తలు పేర్కొన్నారు. శుక్రవారం రాజమహేంద్రవరం ప్రభుత్వ ఆర్ట్స్ కళాశాల రసాయనశాస్త్ర విభాగం ఆధ్వర్యంలో 'జీవనాధార పర్యావరణానికి ఆవిష్కరణలు' అంశంపై సదస్సు ప్రారంభమైంది. ఈ సందర్భంగా వక్తలు మాట్లాడుతూ ప్రస్తుతం ఉన్న పునరుత్పాదక శక్తిపై పర్యావరణ పరిరక్షణకు నూతన పద్ధతులు పరిచయం చేస్తున్నారన్నారు. విద్యార్థులో శాస్త్రీయదృక్పథం పెంపొందించేందుకు కృషి చేయాలని సూచించారు. అనంతరం సదస్సు సావనీర్‌ను ఆవిష్కరించారు. విద్యార్థులు పోస్టర్ ప్రజెంటేషన్ చేశారు. కళాశాల విద్య ప్రాంతీయ సంయుక్త సంచాలకులు డాక్టర్ పీవీ కృష్ణాజీ, శాంతి స్వరూప్ భట్నాగర్ అవార్డు గ్రహీత ప్రొఫెసర్ కె.ఆర్.ప్రసాద్, ఆదినారాయణ, శ్రీనివాస్, రాజేశ్వరరావు, సురేష్, కళాశాల ప్రిన్సిపల్ డాక్టర్ రామచంద్రరావు, సదస్సు కన్వీనర్ శ్రీధర్ తదితరులు పాల్గొన్నారు.

ABN ఆంధ్రజ్యోతి
ANDHRAJYOTHY
తూర్పుగోదావరి
జిల్లా వార్తలు
ఆదివారం 23 నవంబరు 2025 | 5

విద్యార్థులు శాస్త్రీయ దృక్పథాన్ని అలవర్చుకోవాలి

బయోకాన్ ఫార్మా శాస్త్రవేత్త శ్రీనివాస్.. ఆర్ట్స్‌లో ముగిసిన పర్యావరణ సదస్సు

రాజమహేంద్రవరం అర్బన్, నవంబరు 22 (ఆంధ్రజ్యోతి): విద్యార్థులు శాస్త్రీయ దృక్పథాన్ని అలవర్చుకోవాలని బయోకాన్ ఫార్మా బెంగుళూరు శాస్త్రవేత్త కలిదిండి శ్రీనివాస్ అన్నారు. రాజమహేంద్రవరంలోని ప్రభుత్వ ఆర్ట్స్ కళాశాలలో కళాశాల రసాయనశాస్త్ర విభాగం ఆధ్వర్యంలో నిర్వహించిన 'జీవనాధార పర్యావరణం కోసం ప్రతిఘటనాత్మక ఆవిష్కరణలు' రెండు రోజుల సదస్సు శనివారం ముగిసింది. ఈ సదస్సులో శ్రీనివాస్ మాట్లాడుతూ పర్యావరణ సహిత పరిశోధన విశేషాలను విద్యార్థులకు వివరించారు. రీసెర్చ్ సైంటిస్టు రామకృష్ణ, శ్రీనివాస ఆన్‌లైన్‌లో తమ పరిశోధనలను విద్యార్థులకు తెలియజేశారు. కళాశాల జేడీ సీహెచ్ కృష్ణ, తదితరులు మాట్లాడారు. విద్యార్థుల పోస్టర్, ఓరల్ ప్రజెంటేషన్లకు ప్రథమ, ద్వితీయ, తృతీయ బహుమతులు అందజేశారు. సదస్సు కన్వీనర్, ఆర్గనైజింగ్ సెక్రటరీ వి.శ్రీధర్, తేజస్విని, రసాయనశాస్త్ర విభాగ అధ్యాపకులు, పరిశోధనా విద్యార్థులు పాల్గొన్నారు.

ఈనాడు
తూర్పుగోదావరి

ఆదివారం నవంబరు 23, 2025 5

ముగిసిన అంతర్జాతీయ సదస్సు

బహుమతులు పొందిన విద్యార్థులతో శాస్త్రవేత్తలు, అధ్యాపకులు

దేవీచౌక్: రాజమహేంద్రవరం ప్రభుత్వ ఆర్ట్స్ కళాశాల రసాయనశాస్త్ర విభాగం ఆధ్వర్యంలో జీవనాధార పర్యావరణం కోసం ప్రతిఘటనాత్మక ఆవిష్కరణలు అనే అంశంపై నిర్వహిస్తున్న రెండు రోజుల అంతర్జాతీయ సదస్సు శనివారంతో ముగిసింది. ఆఫ్‌లైన్, ఆన్‌లైన్‌లో పాల్గొన్న ప్రముఖ శాస్త్రవేత్తలు తమ పరిశోధన అనుభవాలను విద్యార్థులకు వివరించారు. పోస్టర్, ఓరల్ ప్రజెంటేషన్‌లో గెలుపొందిన విద్యార్థులకు బహుమతులు అందజేశారు. డాక్టర్ ఎం.ఎల్.ఎన్.ఆచార్యులు, డాక్టర్ ప్రతాప్.కె, డాక్టర్ ఎం.వి.రామకృష్ణారావు, డాక్టర్ దాడి రామకృష్ణ, డాక్టర్ కలిదిండి శ్రీనివాస్, కళాశాల వైస్ ప్రిన్సిపల్ డాక్టర్ డి.శ్రీరామ్మూర్తి, సదస్సు కన్వీనర్ వి.శ్రీధర్, కార్యదర్శి డాక్టర్ జి.తేజస్విని పాల్గొన్నారు.