Y.V.N.R GOVERNMENT DEGREE COLLEGE

KAIKALURU, ELURU DIST., A.P – 521333.

AFFILIATED TO KRISHNA UNIVERSITY

NAAC GRADE "A" [GCPA 3.13], ISO CERTIFICATION 9001: 2015.

Proceedings of the International Webinar

INTELLECTUAL PROPERTY RIGHTS IN ENVIRONMENTAL SCIENCE: A GLOBAL SUSTAINABLE FUTURE (IWIPRES – FEB 2026)

(Multidisciplinary)

on 19th & 20th February - 2026

Organized by

Departments of

CHEMISTRY- PHYSICS - ZOOLOGY- IQAC

in Association with

SVRM College (A), Nagaram, Bapatla (D.t)

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Dr. K. SURESH BABU,
HOD, Dept. of Zoology,
S.V.R.M. College (A), Nagaram

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Brochure

ABOUT THE YVNR GOVERNMENT DEGREE COLLEGE, KAIKALURU

Y.V.N.R. Government Degree College, Kaikaluru is a public funded educational institution. This college, popularly known as GDC Kaikaluru is located in the world-famous wet land, Ramsar, Kolleru Lake. The college has a unique logo with the citation "Knowledge is Power". The citation depicts the ancient adage "Knowledge is power". The logo is flagged by rising sun, Kolleru Lake, Kolleru fisher men, and Kolleru birds.

The college was established in the year 1982. Sri Yemeni Raja Rama Chandar, Yemeni Nagendranath, Yemeni Sitha Devi (Former Education Minister, Govt. of A.P.) and Yemeni family members generously came forward and raised funds from the public for the establishment of this institution. The college development committee secretary Sri Gurajada Narasimha Rao coordinated the activities of the development committee and with in no time with the support of the state government under the Telugu Grameen Kranthi Padham, buildings were constructed. With the generous assistance of philanthropists, the elite of the village and Government funds, additional class rooms were built.

We feel proud to say that our institution has appeared for 3rd cycle of NAAC accreditation during June 2023 and excelled in all criterions and secured 'A' grade with CGPA 3.13 and showed excellent performance when compared to the 2nd cycle of NAAC accreditation wherein we obtained only B+ grade. With unity and team spirit all the staff members worked hard under the able guidance of our Principal and our institution secured A grade and stood best among the other government Degree colleges. In 2nd cycle of NAAC accreditation our institution secured B+ grade and an amount of Rs.2 crore was sanctioned under RUSA 2.0. with that sanctioned fund and with the best efforts of the CPDC a new academic block was constructed apart from upgrading the departmental labs and also established modernized computer lab to meet the ever-changing needs of the students.

ABOUT THE SVRM COLLEGE (AUTONOMOUS), NAGARAM, BAPATLA DISTRICT.

SVRM College is a distinguished rural autonomous institution committed to academic excellence, research innovation, and holistic student development. With a proud legacy of 56 years of dedicated service, the college has played a transformative role in empowering predominantly rural students through quality education and enhanced employability. Offering Intermediate, Undergraduate, and Postgraduate programmes across Arts, Commerce, and Sciences, the institution benefits from academic autonomy that promotes curriculum innovation and learner-centric practices. Its quality standards are reflected in its NAAC re-accreditation with a CGPA of 2.91 (B++ Grade), positioning SVRM College as a preferred destination for higher education in the region while upholding the core values of service, discipline, and excellence.

Affiliated with Acharya Nagarjuna University, SVRM College is located at Nagaram, about 60 km from Guntur city, and was established on 21 August 1969 in memory of Sri Velagapudi Ramakrishna, a visionary industrialist and philanthropist of Andhra Pradesh. Founded as a gift to the community with a focus on human development over profit, the college began modestly in a rural setting and has since evolved into a vibrant centre of learning and social responsibility. Under the dynamic leadership of Sri V. Butchaiah Chowdary, the institution continues to strengthen its academic ecosystem, expand research initiatives, and prepare rural youth to compete globally while remaining deeply rooted in societal values.

WEBINAR CO-ORDINATORS

Dr. **K.A. EMMANUEL**
S.G. Lecturer in Chemistry

Dr. **P. PAUL DIVAKAR**
S.G. Lecturer in Physics

Y.V.N.R. GOVERNMENT DEGREE COLLEGE

KAIKALURU - 521 333, ELURU DIST. A.P.
(NAAC GRADE "A" CGPA : 3.13)
AFFILIATED TO KRISHNA UNIVERSITY
AN ISO 9001 : 2015 CERTIFIED INSTITUTION

International Webinar on

"Intellectual Property Rights in Environmental Science : A Global Sustainable Future" (IWIPRES – FEB 2026).

19th & 20th February 2026 — **Timings : 2-00pm to 5-00pm (IST)**

(Multidisciplinary)

zoom

Organized By
DEPARTMENTS OF CHEMISTRY, PHYSICS, ZOOLOGY & IQAC
In Association with
Shree Velagapudi Ramakrishna Memorial College
(Autonomous) Nagaram, Bapatla District

Chief Patron : Dr. **NARAYANA BHARATH GUPTA** IAS
Director, Collegiate Education - A.P., Mangalagiri

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THEMES

- IPR Laws - Patents
- Green Innovations
- Waste management systems
- IPR protection - trademark and copyright
- Green Energy Sources
- Clean agricultural pactices

ABSTRACT :

Intellectual Property Rights (IPR) in environmental sciences revolve around protecting **"green innovations"** (technologies and processes beneficial for environmental preservation) while balancing the need for widespread access to these solutions to address global challenges like climate change. IPR, primarily patents, trademarks, and trade secrets, act as a crucial mechanism to incentivize research and development (R&D) in environmentally sound technologies (ESTs). By granting exclusive rights, IPR allows companies to recoup their significant investments in developing new green technologies (e.g., renewable energy, waste management systems, and clean agricultural practices).

IPR frameworks, through mechanisms like licensing and foreign direct investment (FDI), can facilitate the transfer and dissemination of green technologies from developed to developing countries. The patent system requires the public disclosure of an invention. This shared knowledge base allows other researchers and scientists to build upon existing patented information, fostering further innovation and bridging knowledge gaps in sustainable development.IPR can be used to protect genetic resources and associated traditional knowledge from exploitation (biopiracy). International agreements like the Convention on Biological Diversity (CBD) emphasize the need for prior informed consent and equitable sharing of benefits arising from the use of biodiversity.

INTERNATIONAL SPEAKERS

Dr. **ARUL MANIKANDAN**
Scientific Researcher, School of Biotechnology Dublin City University, Ireland

Dr. **NARENDRA NAIK DESHAVATH**
University of Illinois Urbana Champaign, USA

NATIONAL SPEAKERS

Dr. **N. MANICKA MAHESH**, Co-Founder, Siva Maran Capital, Coimbatore Visiting Professor.
Dr. **P. VEERA BRAHMACHARI**, Prof : Dept. of Biosciences & Biotechnology, Krishna University
Dr. **THARUN DOLLA**, Asst. Prof., GITAM Deemed to be University, Visakhapatnam

Inaugural Speech : Prof. **KONA RAMJI**
Vice Chancellor, Krishna University, Machilipatnam

Valedictory Address : Dr. **C. KRISHNA**, Joint Director, CCE, Mangalagiri

PLEASE NOTE :

- E-Certificates will be provided to the participants who successfully complete the webinar
- **Registration is FREE** and Last date for Registration : 15-02-2026
- Last date for submission of Book Chapter : 20-02-2026
- Webinar will be organised through Zoom App
- Registered participants will get the webinar link to your mail id and to your Whatsapp.
- Online Registration link : https://forms.gle/LNFLeb78gjrgMwG36

For any queries please contact :

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The Research or Review articles will be published in a book with ISBN No. after peer review, on payment of Rs 1000/-. (Your article is eligible for API, ASAR Scores, NAAC Accreditation purpose as a book chapter)

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Brochure release & Invitations

International Webinar Brochure released by Dr. Y. Sreelatha, Principal, Y.V.N.R. Government Degree College, Kaikaluru.

International Webinar Brochure exhibition at SVRM College (A), Nagaram, Bapatla District.

Invitation to Dr. P.V. Brahamachari, Associate Professor, Department of Bioscience & Biotechnology, Krishna University, Machilipatnam.

Invitation to Dr. C. Krishna, Joint Director, CCE, Mangalagiri.

Invitation to Dr. P.V. Krishnaji, Regional Joint Director (RJD), CCE, Rajamahendravaram

Programme Sheet

Y.V.N.R. GOVERNMENT DEGREE COLLEGE, KAIKALURU

Kaikaluru (Mandal) Eluru Dist., Andhra Pradesh, 521333.

"Intellectual Property Rights in Environmental Science: A Global Sustainable Future."

19th – 20th February 2026.

Day	Time (IST)	Topic	Remarks
Day 1 - 19 February 2026	2.15 PM-2.25 PM	Welcoming the guests	**Dr. K.A. Emmanuel, SG Lecturer in Chemistry, Programme Coordinator.**
	2.25-2.30	Prayer and lighting the Lamp	**By the Dignitaries**
	2.30-2.35	Principal opening marks	**Dr. Y. Sreelatha**
	2.35-2.40	Theme of the Webinar	**Dr. P. Paul Divakar, Lecturer in Physics and Programme Coordinator**
	2.40-2.45	Greetings by	**Sri. Vallabhaneni Butchiah Chowdary, Secretary & Correspondent S.V.R.M. College, (Autonomous), Nagaram.**
	2.45-2.50	Introducing the Honourable Guest	**Dr V. Sandhya, Organizing secretary and HOD Of Zoology, YVNR GDC, Kaikaluru.**
	2.50- 3.10	Inaugural address by the chief guest	**Prof, Koona Ramji, Vice Chancellor, Krishna University, Machilipatnam.**
	3.10- 3.15	**Introducing the Speaker-1**	**Dr. B. Vedantham, HOD, Department of Economics**
	3.15-3.55	Talk 1. **Intellectual Property Rights (IPR) and its role in determining access to environmentally wide-ranging technologies.**	**Dr. N. Manicka Mahesh Visiting Professor, Co-founder, Siva Maran Capital, Coimbatore**
	3.55PM-4.00 PM	Introducing Speaker 2	**Dr K. Suresh Babu, M. Sc, M. phil., Ph. D, HOD, Organizing secretary & HOD, Department of**

			zoology, S.V.R.M. College, (Autonomous) Nagaram.
	4.00-4.30	**Talk 2** **Importance of patenting the bioprocess technologies for valorization of agricultural biomass**	**Dr. Narendra Naik Deshavath, University of Illinois Urbana Champaign, USA.**
	4.30- 4.35	Introducing the speaker 3	**Sri. K. Ramesh, HOD, Department of chemistry**
	4.35-5.05	**Talk 3. Intellectual Property Rights as an Enabler of India's Sustainable Infrastructure Future**	**Dr. Tharun Dolla, Asist., Professor, GITAM Deemed to be University, Visakhapatnam.**
	5.05-5.10	Closing Remarks	
Day 2 - 20th February 2026	2.15 PM - 2.20 PM	Welcoming note for Second day Of International Webinar.	**Dr. P. Paul Divakar, Lecturer in Physics and Programme Coordinator**
	2.20 PM - 2.25 PM	Introducing the speaker 4	**Dr. M. Vijayakumar, Lecturer in Zoology YVNR GDC, Kaikaluru.**
	2.25- 3.10	**Talk 4** **Protecting Green innovations: Intellectual property strategies for sustainable bioprocessing and biorefining.**	**Dr Arul Manikandan Post doctoral Fellow Dublin City University, Dublin, Ireland**
	3.10 - 3.15	Introducing the speaker 5	**Sri. R. Prasanna Babu, Joint secretary, IQAC Coordinator, SVRM College, Nagaram.**
	3.15 - 4.00	**Talk 5** **Corporate Monopoly & Depleting Resources: IPR and Environmental sustainability Vs enforcement acts in Indian Agriculture**	**Dr P.V. Brahamachari, Controller of the Examinations, Krishna University, Machilipatnam.**

	4.00- 4.10	Welcoming the guests	**Dr. P. Paul Divakar, SG Lecturer in Physics, Programme Coordinator.**
	4.10- 4.15	Opening remarks by the principal	**Dr. Y. Sreelatha**
	4.15- 4.25	Report of the webinar	**Dr. K.A. Emmanuel Co-ordinator, International Webinar.**
	4.25- 4.30	Greetings by	**Dr. A. Hari Krishna, Principal, S.V.R.M. College, (Autonomous) Nagaram**
	4.30-4.35	Introducing the Guest of Honour	**Sri Nunna Srinivasa Rao, HOD, Department of Commerce, YVNR GDC, Kaikaluru.**
	4.35-4.45	Greetings by	**Dr P.V. Krishnaji, Regional Joint Director, Rajamahendravaram**
	4.45- 4.50	Introducing the chief guest	**Dr. A. Kedari, Vice Principal, YVNR GDC, Kaikaluru**
	4.50- 5.00	**Valedictory address by Chief guest.**	**Dr. C. Krishna, Joint Director, CCE, Mangalagiri.**
	5.00- 5.05	Feedback by the participants	
	5.05-5.15	Vote of thanks	**Dr. R. Jalababu, Organizing Secretary International Webinar.**

***

PREFACE

In the present era of rapid scientific advancement and global environmental challenges, the role of Intellectual Property Rights (IPR) has become increasingly significant in fostering innovation, protecting scientific discoveries, and promoting sustainable development. Environmental science, being a multidisciplinary field, demands innovative solutions to address issues such as climate change, biodiversity conservation, pollution control, and sustainable resource management.

Recognizing the importance of integrating intellectual property frameworks with environmental research and sustainable practices, this International Webinar on "Intellectual Property Rights in Environmental Science: A Global Sustainable Future" has been organized to provide a comprehensive platform for academicians, researchers, professionals, and students to exchange knowledge and insights. The webinar aims to highlight the relevance of patents, copyrights, trademarks, and other IPR tools in environmental innovations, technology transfer, and policy development.

This academic gathering seeks to promote awareness, encourage research-driven innovation, and strengthen the link between intellectual property and environmental sustainability. It is hoped that the deliberations and discussions during this webinar will inspire participants to contribute meaningfully towards a sustainable and eco-friendly future through responsible research and intellectual property management.

Dr. K.A. EMMANUEL. M. Sc, M. Phil, Ph. D
Programme Coordinator,
Professor, Department of Chemistry
Y.V.N.R. Government Degree College
Kaikaluru, Eluru District

Dr. P. PAUL DIVAKAR. M. Sc, Ph. D.
Programme Coordinator,
Professor, Department of Physics
Y.V.N.R. Government Degree College
Kaikaluru, Eluru District.

ACKNOWLEDGEMENTS

The International Webinar on "Intellectual Property Rights in Environmental Science: A Global Sustainable Future" was made possible with the support of many technical experts, individuals, and organizations in terms of both manpower and financial assistance. Their valuable support is gratefully acknowledged.

We are deeply grateful to our Chief Patron, Dr. Narayana Bharath Gupta, IAS, Director of Collegiate Education, Mangalagiri, for his constant encouragement in organizing such academic activities for the welfare and development of the college.

We owe a deep sense of gratitude to Dr. C. Krishna, Joint Director, Directorate of Collegiate Education, Mangalagiri, for his constant support and valuable guidance in organizing the webinar in a most efficient manner. We are also very thankful to Dr. P. V. Krishnaji, Regional Joint Director, Rajamahendravaram, for his precious cooperation in organizing the International Webinar.

We are very much grateful to our Chief Guest, Prof. Koona Ramji, Vice-Chancellor, Krishna University, Machilipatnam, for encouraging us in conducting this International Webinar. We are highly grateful to Dr. Ch. Krishna, Joint Director, Directorate of Collegiate Education, Mangalagiri, for his valuable valedictory message.

Our sincere and special thanks go to Dr. Y. Sreelatha, Principal, Y.V.N.R. Government Degree College, Kaikaluru, Eluru District, for her encouragement, cooperation, and meticulous guidance at every stage in organizing and planning the International Webinar and in bringing out this book.

We are very much grateful to Sri. Vallabhaneni Butchiah Chowdary, Secretary & Correspondent, SVRM College, (Autonomous) Nagaram, and Dr. A. Hari Krishna, Principal, S.V.R.M. College, (Autonomous) Nagaram, for their cooperation in conducting this webinar successfully.

We also express our gratitude to Dr. V. Sandhya, HOD, Department of Zoology; Sri. K. Ramesh, HOD, Department of Chemistry; Dr. R. Jalababu, IQAC Coordinator; and Dr. M. Vijay Kumar, Department of Zoology; Dr. K. Suresh Babu, HOD, Organizing secretary & HOD, Department of Zoology, S.V.R.M. College, (Autonomous) Nagaram and Sri. R. Prasanna Babu, Joint Secretary, IQAC Coordinator, SVRM College, Nagaram, for their timely help in organizing the International Webinar successfully.

We express our deep sense of gratitude to Dr. N. Manicka Mahesh, Coimbatore, Dr. Arul Manikandan, Scientific Researcher, Dublin City University, Ireland, Dr. Narendra Naik Deshavath, University of Illinois, USA, Dr. P. Veera Brahmacharini, Professor, Krishna University, Machilipatnam, and Dr. Tharun Dolla, Assistant Professor, GITAM Deemed to be University, Visakhapatnam, for accepting our invitation and delivering thought-provoking lectures in the International Webinar.

We are very much grateful to our colleagues in the Departments of Commerce, Economics, History, English, Mathematics, and Computer Science, and all teaching and Sri. K. Mahesh, Office In-Charge, and his staff, for their continuous support in making this event a success. Finally, we thank all those who were directly and indirectly involved in organizing the International Webinar, whose names could not be mentioned due to paucity of space.

We thank one and all.

Dr. K.A. EMMANUEL. M. Sc, M. Phil, Ph. D
Webinar Coordinator,
Department of Chemistry
Y.V.N.R. Government Degree College
Kaikaluru, Eluru District

Dr. P. PAUL DIVAKAR. M. Sc, Ph. D.
Webinar Coordinator,
Department of Physics
Y.V.N.R. Government Degree College
Kaikaluru, Eluru District.

Government of Andhra Pradesh
Higher Education Department

Dr. Narayana Bharath Gupta, IAS
Director, Collegiate Education
Mangalagiri – A.P

Greetings

I am glad to know that YVNR Government Degree College, Kaikaluru, in association with S.V.R.M. College (Autonomous), Nagaram, Bapatla District, is organizing an International Webinar on "Intellectual Property Rights in Environmental Science: A Global Sustainable Future" on 19th and 20th February 2026.

Intellectual Property Rights (IPR) are the legal rights of individuals that play a vital role in protecting innovative practices and providing economic benefits for intellectual creations. Innovation and creativity are defining characteristics of the human species, and the very foundation of IPR laws is designed to safeguard human ingenuity. At the same time, these laws can also contribute significantly to environmental protection when applied to environmentally sustainable designs, technologies, and practices.

The basis of Intellectual Property Rights lies in human creativity, labor, and expression, which manifest in various forms such as patents, copyrights, trademarks, and industrial designs. On the other hand, many intellectual property assets draw from nature and natural resources—such as genetic resources used in biopatents, plant varieties, and geographical indications derived from specific ecological regions. Geographical Indications, in particular, are collective rights owned by the state or community, ensuring shared benefits, while plant breeders' rights emphasize benefit-sharing with farmers for the development of new plant varieties. I believe that this International Webinar will serve as a landmark academic event in the history of YVNR Government Degree College, Kaikaluru, and will provide valuable insights into the intersection of IPR and environmental sustainability. With best wishes for the success of the webinar.

With the Best Wishes

Dr. Narayana Bharath Gupta, IAS

Government of Andhra Pradesh
Higher Education Department

Prof. Koona Ramji,

Vice-Chancellor, Krishna University
Machilipatnam, A.P

Greetings

I am very much delighted to know that YVNR Government Degree College, Kaikaluru, in association with S.V.R.M. College (Autonomous), Nagaram, Bapatla District is organizing an International Webinar on "Intellectual Property Rights in Environmental Science: A Global Sustainable Future" on 19th and 20th February 2026. The main objective of the programme is to create general awareness about the role of Intellectual Property Rights (IPR) in environmental science.

Intellectual Property Rights are legal and institutional mechanisms designed to protect creations of the human mind, such as inventions, literary and artistic works, and industrial designs. They safeguard products by distinguishing them from similar offerings in the marketplace through unique and recognizable features. Over the years, the inherently dynamic and evolving concept of IPR has expanded beyond patents, copyrights, industrial designs, and trademarks to include trade secrets, plant breeders' rights, geographical indications, and rights related to the layout designs of integrated circuits.

I hope that the deliberations and expert talks during the webinar will be highly beneficial and will create greater awareness of Intellectual Property Rights in Environmental Science among students. I sincerely appreciate the efforts of the organizers and the principal of the college for conducting this meaningful academic event. I wish the webinar every success

With the Best Wishes

Prof. Koona Ramji

Government of Andhra Pradesh
Higher Education Department

Dr. C. Krishna,

Joint Director, Collegiate Education

Mangalagiri – A.P

Greetings

I am pleased to note that the Departments of Chemistry, Physics, Zoology, and IQAC Of Y.V.N.R. Government college, Kaikaluru, in association with S.V.R.M. College (Autonomous), Nagaram, Bapatla District, are organizing an International Webinar on "Intellectual Property Rights in Environmental Science: A Global Sustainable Future" on 19th and 20th February 2026.

Such seminars and webinars are highly beneficial for young faculty members as well as students, as they stimulate intellectual curiosity and promote awareness of contemporary global challenges. Intellectual Property Rights (IPR) play a crucial role in shaping a low-carbon and sustainable future. However, for IPR to effectively contribute to environmental justice, it must be carefully designed to balance the rights of inventors with the urgent global need for equitable access to sustainable technologies.

The future of sustainable development depends on an IPR framework that fosters innovation, encourages collaboration, and ensures that environmentally friendly and life-saving technologies are accessible to all. Protecting the environment through intellectual property laws should be economically viable and aligned with the broader goals of sustainable development.

I congratulate the organizers and the Principal of the college for their initiative in conducting this important webinar and wish the event great success.

With the Best Wishes

Dr. C. Krishna

Government of Andhra Pradesh
Higher Education Department

Dr. P.V. Krishnaji,

RJD, Collegiate Education,

Rajamahendravaram

Greetings

It gives me immense pleasure to note that Departments of Chemistry, Physics, Zoology, and IQAC Of Y.V.N.R. Government college, Kaikaluru, in association with S.V.R.M. College (Autonomous), Nagaram, Bapatla District, are organizing an International Webinar on "Intellectual Property Rights in Environmental Science: A Global Sustainable Future" on 19th and 20th February 2026.

Intellectual Property Rights (IPRs) are legal and institutional mechanisms designed to protect creations of the human mind, such as inventions, literary and artistic works, and industrial designs. They safeguard products by distinguishing them from similar offerings in the marketplace through unique and recognizable features. Over the years, the scope of IPRs—an inherently dynamic and evolving concept—has expanded beyond patents, copyrights, industrial designs, and trademarks to include trade secrets, plant breeders' rights, geographical indications, and rights related to the layout designs of integrated circuits.

I hope that the discussions and deliberations during this webinar will provide valuable insights and meaningful directions for the protection and promotion of creativity and innovation. I wish the webinar a grand success.

With the Best Wishes

Dr. P.V. Krishnaji

Government of Andhra Pradesh
Higher Education Department

Dr. Y. Sreelatha,
Principal,
Y.V.N.R. Govt. Degree College,
Kaikaluru

Greetings

I am happy to note that the Departments of Chemistry, Physics, Zoology, and IQAC Of Y.V.N.R. Government college, Kaikaluru, in association with S.V.R.M. College (Autonomous), Nagaram, Bapatla District, are organizing an International Webinar on "Intellectual Property Rights in Environmental Science: A Global Sustainable Future" on 19th and 20th February 2026.

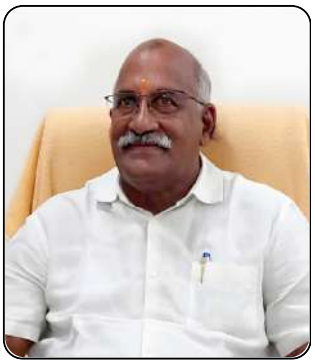
Intellectual Property Rights (IPR) in environmental science serve as a vital dual-purpose framework for achieving a sustainable future. By granting temporary monopolies through patents, trademarks, and trade secrets, IPR incentivizes innovation in green technologies such as renewable energy, pollution control, and sustainable resource management. At the same time, the legal system faces the critical challenge of balancing these private rights with the global public need for equitable access to such technologies, particularly in developing nations.

I hope that the discussions and deliberations during this webinar will provide meaningful direction for strengthening and protecting Intellectual Property Rights in environmental science while promoting sustainable development. I wish the webinar grand success.

With the Best Wishes

Dr. Y. Sreelatha

Government of Andhra Pradesh
Higher Education Department



Sri. Vallabhaneni Butchiah Chowdary,

Secretary & Correspondent,
SVRM College (A), Nagaram

Greetings

It gives me immense pleasure to note that the Departments of Chemistry, Physics, Zoology, and IQAC Of Y.V.N.R. Government college, Kaikaluru, in association with S.V.R.M. College (Autonomous), Nagaram, Bapatla District, are organizing an International Webinar on "Intellectual Property Rights in Environmental Science: A Global Sustainable Future" on 19th and 20th February 2026.

Intellectual Property Rights (IPR) in environmental sciences focus on the protection of green innovations—technologies and processes that contribute to environmental preservation—while simultaneously addressing the need for widespread access to such solutions to tackle global challenges like climate change. IPR mechanisms, primarily patents, trademarks, and trade secrets, play a crucial role in incentivizing research and development in environmentally sound technologies. By granting exclusive rights, IPR enables innovators and organizations to recover the substantial investments involved in developing new green technologies.

I hope that the discussions and deliberations during this webinar will provide valuable insights and guidance for the protection of creativity and innovation in environmental sciences. I wish the webinar grand success.

With the Best Wishes

Sri. Vallabhaneni Butchiah Chowdary

Government of Andhra Pradesh
Higher Education Department

Dr. A. Hari Krishna,
Principal,
SVRM College (A), Nagaram

Greetings

I am happy to note that the Departments of Chemistry, Physics, Zoology, and IQAC Of Y.V.N.R. Government college, Kaikaluru, in association with S.V.R.M. College (Autonomous), Nagaram, Bapatla District, are organizing an International Webinar on "Intellectual Property Rights in Environmental Science: A Global Sustainable Future" on 19th and 20th February 2026.

Intellectual Property Rights (IPR) in environmental science serve as a critical, though complex, instrument in achieving a globally sustainable future. By protecting and encouraging innovation in green technologies—such as renewable energy, waste management, and carbon capture—IPR facilitates the translation of scientific research into commercially viable solutions that effectively address climate change and environmental degradation.

I appreciate the efforts of the organizers and the principal of the college for conducting this timely and meaningful webinar. I wish the event every success.

With the Best Wishes

Dr. A. Hari Krishna

A brief Report on International Webinar

INTRODUCTION

Intellectual Property Rights (IPR) have emerged as a vital tool in fostering innovation, protecting scientific discoveries, and promoting sustainable development across various disciplines. In the contemporary era, environmental science and sustainability have gained global prominence due to escalating environmental challenges such as climate change, biodiversity loss, pollution, and resource depletion. Integrating intellectual property frameworks with environmental science is essential to encourage green innovations, eco-friendly technologies, and sustainable solutions that benefit humanity and the planet.

In this context, the International Webinar on "Intellectual Property Rights in Environmental Science: A Global Sustainable Future" was organized to provide a platform for academicians, researchers, policymakers, industry professionals, and students to deliberate on the significance of IPR in environmental research and sustainable development. The webinar aimed to enhance awareness of intellectual property protection, encourage innovation in environmental sciences, and promote the commercialization of sustainable technologies.

The webinar featured distinguished experts, scholars, and practitioners from national and international institutions who shared their insights on patents, copyrights, trademarks, biodiversity protection, traditional knowledge, and technology transfer in environmental sciences. The deliberations highlighted the crucial role of IPR in promoting green innovations, sustainable industrial practices, and global environmental governance.

This Proceedings Book is a compilation of selected research abstracts, and scholarly contributions presented during the webinar. It reflects diverse perspectives and innovative research findings that contribute to the growing body of knowledge in the field of intellectual property and environmental sustainability. We hope that this volume will serve as a valuable reference for researchers, educators, students, and policymakers, and will inspire further research and collaboration in this interdisciplinary domain.

We express our sincere gratitude to all contributors, reviewers, organizing committee members, and participants who made this academic event successful. We also extend our thanks to the supporting institutions and sponsors for their encouragement and cooperation.

Inaugural Session (19th February 2026)

Prof. Koona Ramji, Vice-Chancellor, Krishna University, Machilipatnam was the chief guest of the session. He explained various issues related the current topic.

In the 21st century, humanity is facing unprecedented environmental challenges climate change, biodiversity loss, pollution, depletion of natural resources, and ecological degradation. These challenges demand innovative scientific solutions, sustainable technologies, and policy-driven interventions. In this context, Intellectual Property Rights (IPR) play a crucial role in encouraging creativity, protecting innovations, and fostering sustainable development.

Intellectual Property Rights provide legal frameworks to protect inventions, discoveries, and creative works. In environmental science, IPR safeguards eco-friendly technologies, renewable energy innovations, waste management solutions, green chemistry processes, and biodiversity-based products. By protecting such innovations, IPR motivates researchers, scientists, and industries to invest in sustainable technologies and green innovations.

I strongly believe that this webinar will provide a valuable platform for researchers, academicians, policymakers, and students to exchange ideas, share research findings, and explore new dimensions of IPR in environmental science. Such academic interactions are essential to build awareness, enhance research capacity, and promote innovation-driven sustainability.

I congratulate the organizing committee, coordinators, and supporting institutions for their dedicated efforts in bringing together experts and participants from various parts of the globe. I also encourage students and young researchers to actively engage in discussions, pursue interdisciplinary research, and contribute to sustainable innovations protected through intellectual property frameworks.

In conclusion, I hope that the deliberations of this webinar will inspire meaningful research, strengthen collaborations, and contribute to a sustainable and environmentally responsible future.

Dr. Y. Sreelatha, Principal Y.V.N.R. Government Degree College, Kaikaluru, Dr. A. Kedari vice Principal, Dr. R. Jalababu, IQAC Coordinator, were present and spoke about the safeguarding of intellectual property rights in environmental science.

Technical Sessions

First Technical Session (19th February 2026)

The session was chaired by Dr. K.A. Emmanuel, Department of chemistry, Y.V.N.R. Government Degree College, Kaikaluru. Dr. N. Manicka Mahesh, Visiting Professor and Co-founder, Siva Maran Capital, Coimbatore, as lead speaker in this session. Dr. N. Manicka Mahesh in his invited talk mainly focused on Intellectual Property Rights (IPR).

They play a major by supporting while determining access to environmentally wide-ranging technologies. IPR provides legal protection for inventions, creative works, and technological processes, thereby encouraging investment in research and development. In environmental science, patents protect green technologies such as renewable energy systems, carbon capture mechanisms, waste management processes, and water purification technologies, which will lead to step up our nation's economic liberation.

IPR promote innovation and facilitate commercialization of environmental solutions. But the correlation between IPR and sustainability is not without challenges. Too much of IPR protection may lead to control by few players and high costs, warning access to critical environmental technologies, particularly in developing and least-developed countries. Equally, weak IPR regimes can deter innovation and lessen private players participation in green research. So, sustainable development requires a framework which should have balanced approach that instantaneously promotes innovation and ensures impartial access to environmentally beneficial technologies.

Hence, IPR can serve as a sustainable pathway for the future when aligned with environmental ethics, public policy, and global cooperation. A flexible and inclusive IPR regime is essential to foster green innovation, ensure technology transfer, and support long-term environmental sustainability.

Second Technical Session (19th February 2026)

This session chaired by Dr. R. Jalababu, Assistant professor of Chemistry Y.V.N.R. Government Degree College, Kaikaluru. Dr. Narendra Naik Deshavath, University of Illinois Urbana Champaign, USA acted as lead speaker in this session. He discussed on Importance of patenting the bioprocess technologies for valorization of agricultural biomass.

The valorization of agricultural biomass through bioprocess technologies has emerged as a sustainable pathway to convert low-value residues into high-value products such as biofuels, biochemicals, enzymes, and biomaterials. As innovations in microbial engineering, fermentation, enzymatic hydrolysis, and downstream processing accelerate, patenting these bioprocess technologies becomes increasingly important. Patents play a critical role in protecting intellectual property, encouraging investment, and facilitating technology transfer from research laboratories to industrial applications.

By securing exclusive rights, patenting enables innovators to recover research and development costs while fostering commercialization and scaling of biomass-based technologies. Moreover, patents contribute to the systematic documentation of technical knowledge, promoting transparency and avoiding duplication of research efforts.

In the context of agricultural biomass valorization, patent protection also supports the development of region-specific and feedstock-adapted processes, particularly in agrarian economies. This is vital for enhancing rural income, reducing environmental pollution from biomass waste, and advancing circular bioeconomy models. Furthermore, strong patent portfolios enhance collaborations between academia, industry, and startups, accelerating the deployment of sustainable bioprocess solutions.

Therefore, patenting bioprocess technologies is not merely a legal safeguard but a strategic tool for driving innovation, economic viability, and long-term sustainability in the agricultural biomass valorization sector.

Third Technical Session (19th February 2026)

This session chaired by Dr. V. Sandhya, HOD of Zoology, Y.V.N.R. Government Degree College, Kaikaluru. Dr. Tharun Dolla, Asist., Professor, GITAM Deemed to be University, Visakhapatnam acted as lead speaker in this session. He discussed on intellectual Property Rights as an Enabler of India's Sustainable Infrastructure Future.

India's transition toward green energy and low-carbon infrastructure is central to achieving a globally sustainable future. However, the success of this transition depends not only on technology adoption, but also on how innovation is protected, shared, and scaled through effective Intellectual Property Rights (IPR) frameworks.

This talk examines the intersection of green energy deployment, energy demand growth, and intellectual property in the context of sustainable infrastructure development. Drawing on infrastructure management practices, Energy Conservation Building Code (ECBC) compliance, and Life Cycle Assessment (LCA) methodologies, the discussion highlights how patented technologies, performance-based design tools, and proprietary assessment models influence energy efficiency outcomes in buildings and infrastructure systems.

The presentation further explores challenges related to technology access, localization, and knowledge transfer in developing economies, while emphasizing opportunities for balanced IPR strategies that encourage innovation without hindering widespread adoption. By integrating energy policy, infrastructure planning, and intellectual property considerations, this talk aims to demonstrate how IPR can act as an enabler rather than a barrier to scalable, climate-resilient, and sustainable development in India and across the global South.

Fourth Technical Session (20th February 2026)

This session was chaired by Dr. M. Vijaya Kumar, Lecturer in Zoology. Dr. Arul Manikandan, Scientific Researcher, School of Biotechnology, Dublin City University, Ireland spoke on the transition toward a sustainable bioeconomy. It requires not only scientific innovation in green bioprocessing and biorefining, but also robust intellectual property (IP) strategies that enable responsible commercialization and long-term competitive advantage.

Over the past decade, advancements in sustainable bioprocess engineering have demonstrated significant technical feasibility. However, the pathway from laboratory-scale proof-of-concept to industrial deployment remains critically dependent on strategic protection of innovation. This keynote examines the nuanced role of intellectual property in environmental and bio-based technologies, where conventional patenting is not always the most effective strategy. In sectors such as sustainable bioprocessing, enforceability challenges, high patenting costs, and rapid technological evolution necessitate a careful evaluation of when patents provide tangible value.

Particular attention will be given to the strategic use of trade secrets, proprietary know-how, process optimization data, and tacit technical expertise as alternative or complementary mechanisms of protection. These approaches are often more suitable when process transparency is limited and reverse engineering is difficult. The lecture further explores how IP strategy influences technology valuation, investor confidence, and venture capital engagement. Emphasis will be placed on aligning scientific innovation with scalable business models, regulatory considerations, and market readiness.

Practical insights will be provided on navigating the translational pathway from proof-of-concept and pilot validation to commercialization, spin-out formation, and industrial partnerships within the context of sustainable biorefining and green process industries.

By integrating technical innovation with strategic IP management and entrepreneurial planning, this talk aims to provide a comprehensive framework for researchers, faculty, and students aspiring to contribute meaningfully to the emerging bio-based economy.

Fifth Technical Session (20th February 2026)

This session was chaired by Dr. P. Paul Divakar, HOD, Department of Physics. Dr P.V. Brahamachari, Controller of the Examinations, Krishna University, Machilipatnam. He discussed on Corporate Monopoly & Depleting Resources: IPR and Environmental sustainability Vs enforcement acts in Indian Agriculture. Intellectual Property Rights (IPR) in agriculture have become a critical site of conflict between technological innovation, farmer livelihoods, and environmental sustainability in India. High-profile legal disputes such as Monsanto vs. Nuzivedu Seeds, Pepsi Co vs. Gujarat farmers, and community resistance against Coca-Cola's groundwater extraction and pollution reveal how corporate control over biological and natural resources can reshape agro-ecological systems and rural economies. This invited talk critically examines these cases to highlight the tension between proprietary rights and ecological as well as social justice.

The Monsanto vs. Nuziveedu Seeds case underscores the challenges of patenting life forms, where claims over genetically modified Bt cotton technology conflicted with India's Patents Act and the Protection of Plant Varieties and Farmers' Rights (PPVFR) Act, 2001. While biotechnology promised pest resistance and reduced pesticide use, monopoly control over seed technologies raised concerns about farmer dependency, escalating costs, and long-term ecological risks. Similarly, PepsiCo's FC-5 potato litigation exposed the fragility of farmers' traditional rights to save, use, and exchange seeds when confronted with corporate plant variety claims, prompting nationwide debate on seed sovereignty and sustainable agriculture.

Beyond seeds, the environmental footprint of agribusiness is exemplified by Coca-Cola's operations in India, where allegations of groundwater over-extraction and land pollution ignited grassroots movements and legal action. These cases collectively demonstrate that environmental degradation is often intertwined with asymmetric power structures governing intellectual and natural resources.

The talk argues that India's future sustainability depends on recalibrating IPR regimes to prioritize ecological resilience, farmer autonomy, and community welfare alongside innovation. Strengthening farmer-centric laws, promoting agro-biodiversity, and ensuring responsible corporate accountability are essential for building an equitable and sustainable agricultural future. This discussion situates IPR not merely as a legal instrument, but as a decisive factor shaping environmental health and food security in India.

Inaugural Session

Principal's Message

Good evening to you all.

Respected Chief Guest, Eminent Resource Persons, Distinguished Academicians, Dear Faculty Members, Researchers, and Beloved Students. It gives me immense pleasure to extend a warm and hearty welcome to everyone gathered here for this International Webinar on "Intellectual Property Rights in Environmental Science: A Global Sustainable Future." I am delighted to see the enthusiastic participation of scholars, faculty members, researchers, and students from various institutions across the country and abroad.

At the outset, I sincerely congratulate the departments of Chemistry, Physics, Zoology and IQAC in association with SVRM College (Autonomous), Nagaram, Bapatla District for conducting an international webinar on "Intellectual Property Rights in Environmental Science: A Global Sustainable Future". Organizing an international-level academic event on such a relevant and timely theme reflects your commitment to academic excellence, innovation, and social responsibility.

In today's rapidly changing world, environmental challenges such as climate change, biodiversity loss, pollution, and resource depletion demand innovative scientific solutions. At the same time, Intellectual Property Rights (IPR) play a crucial role in encouraging research, protecting inventions, and fostering technological advancements. When effectively aligned, environmental science and IPR can together pave the way toward a sustainable and resilient future.

This webinar provides an excellent platform to discuss these critical issues, exchange ideas, and explore how intellectual property systems can support environmental sustainability without compromising social welfare. I am confident that the deliberations by our distinguished speakers will enlighten us on global perspectives, policy frameworks, and best practices in this field.

Before I conclude, I once again congratulate the organizing committee for their dedicated efforts. I also thank the resource persons for sharing their valuable time and expertise, and all participants for being part of this academic endeavor.

Let us hope that this webinar inspires new ideas, encourages collaborative research, and strengthens our collective resolve to protect the environment through innovation and responsible intellectual property practices.

With these words, I wish the webinar every success.

Thankyou.

Inaugural Talk

Prof. Koona Ramji,

Vice-Chancellor, Krishna University

Machilipatnam, A.P

Respected Chief Guest, distinguished resource persons, eminent scholars, faculty members, dear participants, and students,

It gives me immense pleasure and privilege to address this august gathering on the occasion of the International Webinar on "Intellectual Property Rights in Environmental Science: A Global Sustainable Future." I extend my warm greetings and congratulations to the organizers for conceptualizing this highly relevant and timely academic event.

In the 21st century, humanity is facing unprecedented environmental challenges—climate change, biodiversity loss, pollution, depletion of natural resources, and ecological degradation. These challenges demand innovative scientific solutions, sustainable technologies, and policy-driven interventions. In this context, Intellectual Property Rights (IPR) play a crucial role in encouraging creativity, protecting innovations, and fostering sustainable development.

Intellectual Property Rights provide legal frameworks to protect inventions, discoveries, and creative works. In environmental science, IPR safeguards eco-friendly technologies, renewable energy innovations, waste management solutions, green chemistry processes, and biodiversity-based products. By protecting such innovations, IPR motivates researchers, scientists, and industries to invest in sustainable technologies and green innovations.

Moreover, IPR acts as a bridge between academia, industry, and society. Universities and research institutions are key hubs of innovation, and through patents, copyrights, trademarks, and geographical indications, research outcomes can be transformed into practical applications that benefit society and the environment. Technology transfer offices, incubation centers, and industry collaborations further strengthen this ecosystem.

However, while promoting innovation, we must also ensure equitable access, ethical research practices, and protection of traditional knowledge and biodiversity. Indigenous knowledge systems and community-based innovations deserve recognition and protection through appropriate IPR mechanisms such as Traditional Knowledge Digital Libraries and Geographical Indications. Sustainable development is meaningful only when it is inclusive and ethically grounded.

The theme of this webinar aligns perfectly with the global vision of the United Nations Sustainable Development Goals (SDGs), particularly goals related to climate action, sustainable cities, responsible consumption, and life on land and water. Intellectual Property Rights, when used responsibly, can accelerate progress towards these goals by promoting sustainable technologies and environmentally responsible innovations.

I strongly believe that this webinar will provide a valuable platform for researchers, academicians, policymakers, and students to exchange ideas, share research findings, and explore new dimensions of IPR in environmental science. Such academic interactions are essential to build awareness, enhance research capacity, and promote innovation-driven sustainability.

I congratulate the organizing committee, coordinators, and supporting institutions for their dedicated efforts in bringing together experts and participants from various parts of the globe. I also encourage students and young researchers to actively engage in discussions, pursue interdisciplinary research, and contribute to sustainable innovations protected through intellectual property frameworks.

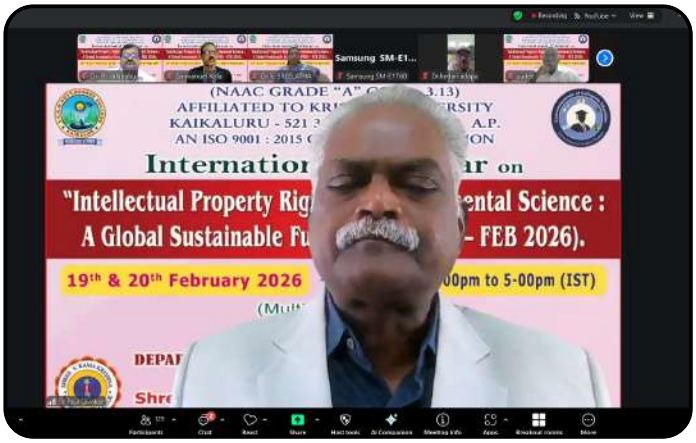
In conclusion, I hope that the deliberations of this webinar will inspire meaningful research, strengthen collaborations, and contribute to a sustainable and environmentally responsible future.

With these words, I declare the webinar open and wish it a grand success.

DAY – 1
INAUGURAL SESSION

Dr. K. A. Emmanuel, Programme Coordinator welcoming the guests on to the dais.

Dr Y. Sreelatha, Principal, YVNR GDC, Kaikaluru delivering opening Remarks



Dr P. Paul Divakar, Programme Coordinator presenting theme of the webinar

Greetings by Sri Vallabhaneni Butchaiah Chowdary, Secretary & Correspondent, S.V.R.M. College (A), Nagaram

Dr V. Sandhya, HOD Dept. of Zoology, introducing our chief guest Prof. Koona Ramji

Prof. Koona Ramji, Vice-Chancellor, Krishna University, Machilipatnam delivering Inaugural address.

Invited Talk - 1

Dr. MANICKA MAHESH
Co-founder and Visiting Professor,
Siva Maran Capital, Coimbatore
Tamil Nadu.

Intellectual Property Rights (IPR) and its role in determining access to environmentally wide ranging technologies.

ABSTRACT

Intellectual Property Rights (IPR) play a major by supporting while determining access to environmentally wide-ranging technologies. IPR provides legal protection for inventions, creative works, and technological processes, thereby encouraging investment in research and development. In environmental science, patents protect green technologies such as renewable energy systems, carbon capture mechanisms, waste management processes, and water purification technologies, which will lead to step up our nation's economic liberation. IPR promote innovation and facilitate commercialization of environmental solutions.But the correlation between IPR and sustainability is not without challenges. Too much of IPR protection may lead to control by few players and high costs, warning access to critical environmental technologies, particularly in developing and least-developed countries. Equally, weak IPR regimes can deter innovation and lessen private players participation in green research. So, sustainable development requires a framework which should have balanced approach that instantaneously promotes innovation and ensures impartial access to environmentally beneficial technologies. Hence, IPR can serve as a sustainable pathway for the future when aligned with environmental ethics, public policy, and global cooperation. A flexible and inclusive IPR regime is essential to foster green innovation, ensure technology transfer, and support long-term environmental sustainability.

Invited Talk - 2

Dr. NARENDRA NAIK
University of Illinois Urbana Champaign,
Urbana, USA

Importance of patenting the bioprocess technologies for valorization of agricultural biomass

ABSTRACT

The valorization of agricultural biomass through bioprocess technologies has emerged as a sustainable pathway to convert low-value residues into high-value products such as biofuels, biochemicals, enzymes, and biomaterials. As innovations in microbial engineering, fermentation, enzymatic hydrolysis, and downstream processing accelerate, patenting these bioprocess technologies becomes increasingly important. Patents play a critical role in protecting intellectual property, encouraging investment, and facilitating technology transfer from research laboratories to industrial applications. By securing exclusive rights, patenting enables innovators to recover research and development costs while fostering commercialization and scaling of biomass-based technologies. Moreover, patents contribute to the systematic documentation of technical knowledge, promoting transparency and avoiding duplication of research efforts. In the context of agricultural biomass valorization, patent protection also supports the development of region-specific and feedstock-adapted processes, particularly in agrarian economies. This is vital for enhancing rural income, reducing environmental pollution from biomass waste, and advancing circular bioeconomy models. Furthermore, strong patent portfolios enhance collaborations between academia, industry, and startups, accelerating the deployment of sustainable bioprocess solutions. Therefore, patenting bioprocess technologies is not merely a legal safeguard but a strategic tool for driving innovation, economic viability, and long-term sustainability in the agricultural biomass valorization sector.

Invited Talk - 3

Dr. DOLLA THARUN
Assistant Professor
Department of Civil Engineering
Gitam (Deemed to Be University),
Visakhapatnam

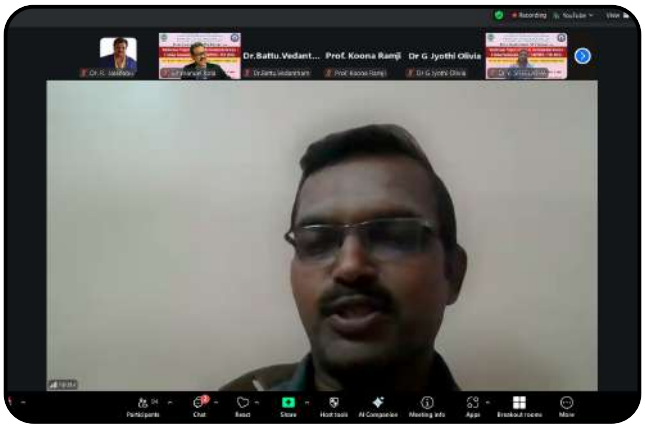
Intellectual Property Rights as an Enabler of India's Sustainable Infrastructure Future

ABSTRACT

India's transition toward green energy and low-carbon infrastructure is central to achieving a globally sustainable future. However, the success of this transition depends not only on technology adoption, but also on how innovation is protected, shared, and scaled through effective Intellectual Property Rights (IPR) frameworks. This talk examines the intersection of green energy deployment, energy demand growth, and intellectual property in the context of sustainable infrastructure development. Drawing on infrastructure management practices, Energy Conservation Building Code (ECBC) compliance, and Life Cycle Assessment (LCA) methodologies, the discussion highlights how patented technologies, performance-based design tools, and proprietary assessment models influence energy efficiency outcomes in buildings and infrastructure systems. The presentation further explores challenges related to technology access, localization, and knowledge transfer in developing economies, while emphasizing opportunities for balanced IPR strategies that encourage innovation without hindering widespread adoption. By integrating energy policy, infrastructure planning, and intellectual property considerations, this talk aims to demonstrate how IPR can act as an enabler—rather than a barrier—to scalable, climate-resilient, and sustainable development in India and across the global South.

Day- 1, Technical Session -1

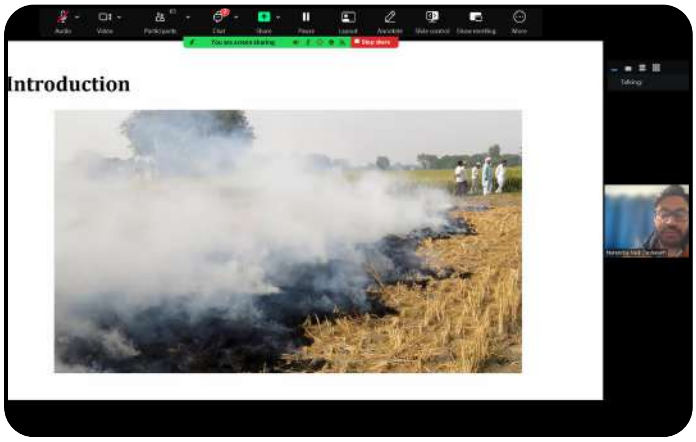
Dr. B. Vedantham, Lecturer in Economics, YVNR, GDC, Kaikaluru is introducing Dr. Manicka Mahesh.



Dr. Manicka Mahesh, Co-founder, Siva Maran Capital, Coimbatore, T.N is delivering his talk

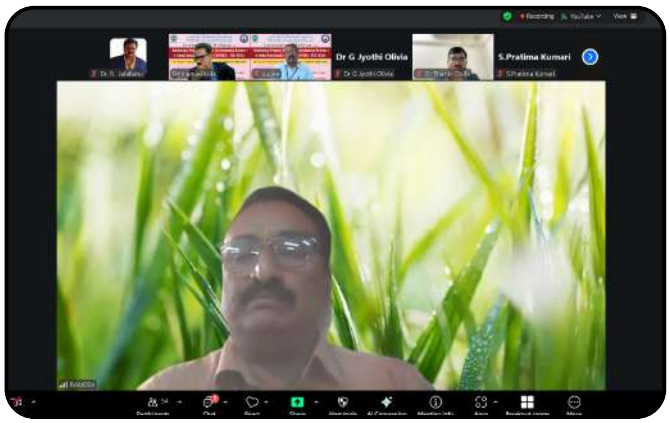
Day- 1, Technical Session -2

Dr K. Suresh Babu, HOD, Dept. of Zoology, SVRM College (A), Nagaram is introducing Dr. Dr. Narendra Naik Deshavath.

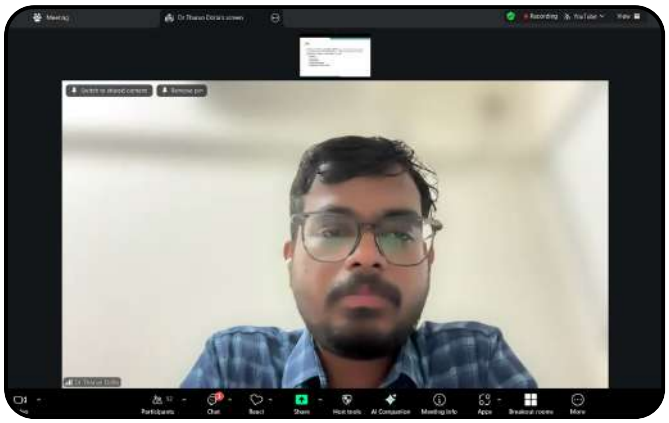


Dr. Narendra Naik Deshavath, University of Illinois Urbana Champaign, USA, is delivering his talk

Day- 1, Technical Session -3



Sri. K. Ramesh, HOD Dept. of Chemistry, introducing Dr. Tharun Dolla.



Dr. Tharun Dolla, Asist. Professor, GITAM Deemed to be University, Visakhapatnam, is delivering his talk.

Invited Talk - 4

Dr. ARUL MANIKANDAN
Scientific Researcher,
Dublin City University
Ireland

Protecting Green innovations: Intellectual property strategies for sustainable bioprocessing and biorefining.

ABSTRACT

The transition toward a sustainable bioeconomy requires not only scientific innovation in green bioprocessing and biorefining, but also robust intellectual property (IP) strategies that enable responsible commercialization and long-term competitive advantage. Over the past decade, advancements in sustainable bioprocess engineering have demonstrated significant technical feasibility. However, the pathway from laboratory-scale proof-of-concept to industrial deployment remains critically dependent on strategic protection of innovation. This keynote examines the nuanced role of intellectual property in environmental and bio-based technologies, where conventional patenting is not always the most effective strategy. In sectors such as sustainable bioprocessing, enforceability challenges, high patenting costs, and rapid technological evolution necessitate a careful evaluation of when patents provide tangible value. Particular attention will be given to the strategic use of trade secrets, proprietary know-how, process optimization data, and tacit technical expertise as alternative or complementary mechanisms of protection. These approaches are often more suitable when process transparency is limited and reverse engineering is difficult. The lecture further explores how IP strategy influences technology valuation, investor confidence, and venture capital engagement. Emphasis will be placed on aligning scientific innovation with scalable business models, regulatory considerations, and market readiness. Practical insights will be provided on navigating the translational pathway from proof-of-concept and pilot validation to commercialisation, spin-out formation, and industrial partnerships within the context of sustainable biorefining and green process industries. By integrating technical innovation with strategic IP management and entrepreneurial planning, this talk aims to provide a comprehensive framework for researchers, faculty, and students aspiring to contribute meaningfully to the emerging bio-based economy.

Invited Talk - 5

Dr. P. VEERA BRAMHACHARI
Associate Professor,
Department of Bioscience & Biotechnology,
Krishna University, Machilipatnam

Corporate Monopoly & Depleting Resources: IPR and Environmental sustainability Vs enforcement acts in Indian Agriculture

ABSTRACT

IPR in agriculture has become a critical site of conflict between technological innovation, farmer livelihoods, and environmental sustainability in India. High-profile legal disputes such as Monsanto vs. Nuziveedu Seeds, PepsiCo vs. Gujarat farmers, and community resistance against Coca-Cola's groundwater extraction and pollution reveal how corporate control over biological and natural resources can reshape agro-ecological systems and rural economies. This invited talk critically examines these cases to highlight the tension between proprietary rights and ecological as well as social justice.

The Monsanto vs. Nuziveedu Seeds case underscores the challenges of patenting life forms, where claims over genetically modified Bt cotton technology conflicted with India's Patents Act and the Protection of Plant Varieties and Farmers' Rights (PPVFR) Act, 2001. While biotechnology promised pest resistance and reduced pesticide use, monopoly control over seed technologies raised concerns about farmer dependency, escalating costs, and long-term ecological risks. Similarly, PepsiCo's FC-5 potato litigation exposed the fragility of farmers' traditional rights to save, use, and exchange seeds when confronted with corporate plant variety claims, prompting nationwide debate on seed sovereignty and sustainable agriculture.

Beyond seeds, the environmental footprint of agribusiness is exemplified by Coca-Cola's operations in India, where allegations of groundwater over-extraction and land pollution ignited grassroots movements and legal action. These cases collectively demonstrate that environmental degradation is often intertwined with asymmetric power structures governing intellectual and natural resources.

The talk argues that India's future sustainability depends on recalibrating IPR regimes to prioritize ecological resilience, farmer autonomy, and community welfare alongside innovation. Strengthening farmer-centric laws, promoting agro-biodiversity, and ensuring responsible corporate accountability are essential for building an equitable and sustainable agricultural future. This discussion situates IPR not merely as a legal instrument, but as a decisive factor shaping environmental health and food security in India.

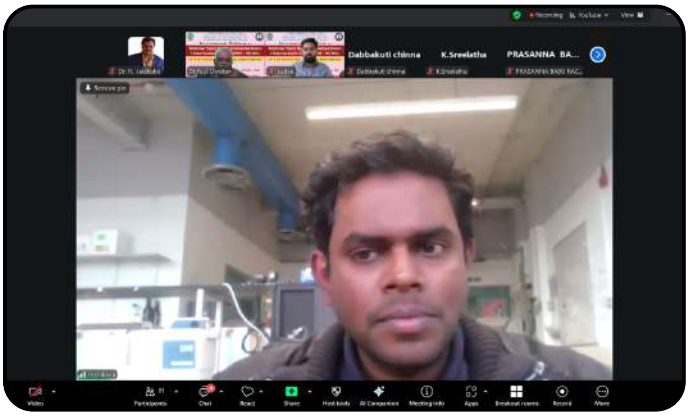
DAY - 2

Dr. K. A. Emmanuel, Programme Coordinator re-capitulating the first day programme.

Dr P. Paul Divakar, Programme Coordinator hosting the second day programme.

DAY - 2, Technical Session -4

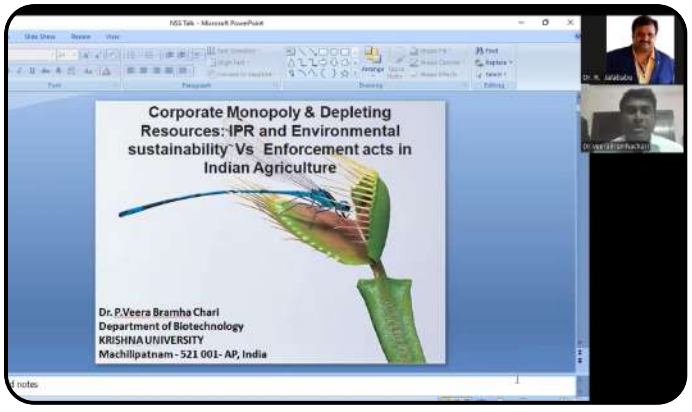
Dr M. Vijaya Kumar, Lecturer in Zoology, YVNR GDC, Kaikaluru is introducing Dr. Arul Manikandan



Dr. Arul Manikandan Research Scientist Dublin City University, Dublin, Ireland, is delivering his talk

DAY - 2, Technical Session -5

Sri. R. Prasanna Babu, IQAC Coordinator, SVRM College (A), Nagaram, is introducing Dr P.V. Brahamachari



Dr P.V. Brahamachari, Associate Professor, Department of Bioscience & Biotechnology, Krishna University, Machilipatnam, is delivering his talk.

Valedictory Session

Valedictory Session (20th February 2026)

Dr. Y. Sreelatha, Principal, Y.V.N.R. Government degree College, Kaikaluru, Eluru District presided over the function. Dr. C. Krishna, Joint Director, Directorate of Collegiate Education, Mangalagiri, appreciated the departments of chemistry, Physics, English, Zoology, and IQAC of Y.V.N.R Government college and SVRM College (Autonomous) Nagaram, for their efforts in bringing the experts and research scholars together on a single platform to discuss about the "Intellectual Property Rights in Environmental Science: A Global Sustainable Future" In his valedictory talk he mainly focused on Role of Intellectual Property Rights in Environmental Protection.

I am very happy to see that you have witnessed wonderful messages on the topics by the young and dynamic speakers. I personally appreciate Dr Arul Mankandan Scientific Researcher, School of Biotechnology, Dublin City University, Ireland, Dr Narendra Naik Deshavath, University of Illinois Urbana Champaign, USA, Dr N. Manicka Mahesh, Co-founder, Siva Maran Capital, Coimbatore, Visiting Professor, Dr P.Veera Brahmachari, Professor, Dept., Biosciences & Biotechnology, Krishna University, Machilipatnam, Dr. Tharun Dolla, Asist., Professor, GITAM Deemed to be University, Visakhapatnam for their valuable Lecturers. Finally, I would like to thank the Principal and the organizing committee who have given me the opportunity to share my views. I wish that in the coming days, YVNR Government Degree College will conduct a good number of webinars or workshops for the benefit of the students and researchers. Thank you very much. All the best.

Dr. R. Jalababu, Organizing Secretary of the International Webinar, presented a brief report on the Webinar and also proposed the vote of thanks. The programme is concluded by singing the National anthem.

Valedictory Address by Principal

Respected Chief Guest, Esteemed Resource Persons, Distinguished Academicians, Faculty Members, Researchers, and Dear Students, As we come to the valedictory session of this International Webinar on "Intellectual Property Rights in Environmental Science: A Global Sustainable Future," I feel both privileged and delighted to share a few concluding thoughts.

Over the course of this webinar, we have witnessed thought-provoking deliberations, insightful presentations, and meaningful interactions that have greatly enriched our understanding of the vital role Intellectual Property Rights play in addressing today's environmental challenges. The discussions have clearly highlighted how IPR, when aligned with environmental science, can serve as a powerful instrument for promoting innovation, sustainability, and global cooperation.

I am confident that the sessions have successfully met their objectives by creating awareness about the importance of protecting intellectual creations while ensuring that environmentally beneficial technologies remain accessible for the greater good of humanity. The expert insights shared by our distinguished resource persons have provided valuable global perspectives and practical approaches that will undoubtedly benefit researchers, academicians, and students alike.

I take this opportunity to commend the organizing departments of Chemistry, physics, zoology and the IQAC in association with S.V.R.M. College (Autonomous) for their meticulous planning and dedicated efforts in successfully organizing this international academic event. My sincere appreciation also goes to all the participants for their active involvement, thoughtful questions, and enthusiastic engagement, which added great value to the deliberations.

I strongly believe that the knowledge gained from this webinar will inspire further research, interdisciplinary collaboration, and responsible innovation among our faculty members and students. Let us carry forward the ideas discussed here and translate them into meaningful action for the protection of our environment.

Before I conclude, I once again express my heartfelt gratitude to all the resource persons, organizers, participants, and supporting staff who made this webinar a grand success. With these words, I formally declare the International Webinar on "Intellectual Property Rights in Environmental Science: A Global Sustainable Future" as successfully concluded.

Valedictory Speech by Dr. C. Krishna, Joint Director

Good evening to you all. I am indeed delighted to participate in the valedictory function of the international webinar on "Intellectual Property Rights in Environmental Science: A Global Sustainable Future." My greetings to scientists, distinguished guests, experts, academicians, policy makers and representatives of Non-Governmental Organizations. I wish you all a happy, prosperous, productive and creative 2026. When I was invited to address this National webinar, I was thinking what thoughts I can share with you in this beautiful environment. I have selected the topic for discussion the Role of Intellectual Property Rights in Environmental Protection.

Intellectual property rights are property rights of an individual and it is an important tool to protect innovative practices and provide economic benefits for the intellectual works. Innovation and creation were one of the defining characteristics of the human species. The whole idea of protection of IPR laws are designed to protect human creativity and the environment is also to be protected by such design or such works.

In furtherance to the intellectual property the so called "Artificial intelligence" which is the simulation of human intelligence process by machines, especially computer system. Artificial intelligence applications are being increasingly deployed in the administration of applications for intellectual property protection, it is high time to use the IPR & AI to be helpful to the environment which exists and consisting of the surrounding; external conditions influencing development or growth of people, animals or plants; living or working conditions, etc and total conditions which surround man at a given point in space and time.

At the early human stage, the environment consisted of only physical aspects of the planet earth and biotic compares but with the march of time and advancement of the society, man extended his environment through his social, economic and political functions. The concept of environment relatively to whatever objects it is which surrounded; thus, it includes anything. There is complete failure to effectively address the environmental protection and promotion by the statutory agencies and as well the citizens adopting the AI with the use of the intellectual property for the novelty and for protection of nature and environment.

All human beings and the species depend on the environment, and on the contrary, human beings are from the nature and the environment, which calls for an implied obligation and duty to protect the environment. The human in the course of his civilization and development, has exploited the environment to the best possible extent. The human society has formed its own governance system by the people, for the people and to the people, in its midst the environment is also subjected to human supervision.

It is that more than 100 constitutions refer to a right to a clean and healthy environment, impose a duty on the state to prevent environmental harm or mention the protection of the environment or natural resources. The laws are not effective in order to protect the interests of humans and the environment in the world in an era of intellectual property rights A Study is required, hence an attempt would be made in to investigate the issue involved.

I am very happy to see that you have witnessed wonderful messages on the topics by the young and dynamic speakers. I personally appreciate Dr Arul Mankandan, Scientific Researcher, School of Biotechnology, Dublin City University, Ireland; Dr. Narendra Naik Deshavath, University of Illinois Urbana-Champaign, USA, Dr N. Manicka Mahesh, Co-founder, Siva Maran Capital, Coimbatore; Visiting Professor, Dr. P. Veera Brahmachari, Professor, Dept., BioSciences & Biotechnology, Krishna University, Machilipatnam.

Dr. Tharun Dolla, Assistant Professor, GITAM Deemed to be University, Visakhapatnam, for their valuable Lecturers. Finally, I would like to thank the principal and the organizing committee who has given me the opportunity to share my views. I wish that in the coming days, YVNR Government Degree College will conduct a good number of webinars or workshops for the benefit of the students and researchers. Thank you very much. All the best.

DAY - 2
Valedictory Session (20th February 2026)

Dr. P. Paul Divakar, Programme Coordinator & HOD, Dept. of Physics, YVNR GDC, welcoming Guests onto the dias

Dr. Y. Sreelatha, Principal, Y. V. N. R GDC, Kaikaluru, is delivering opening remarks in the valedictory session.

Dr. R Jalababu, Organising Secretary and IQAC coordinator, is presenting the report on the webinar.

Greetings from Dr. A. Harikrishna, Principal, SVRM College (A), Nagaram, Bapatla District.

Sri. Nunna Srinivasa Rao, HOD, Dept. of Commerce, YVNR GDC, Kaikaluru, is introducing Dr. P.V. Krishnaji

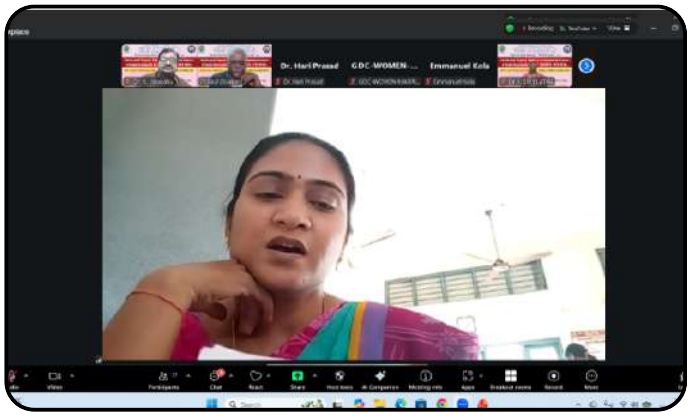
Greetings from Dr. P.V. Krishnaji, Regional Joint Director (RJD), CCE, Rajamahendravaram

DAY - 2
Valedictory Session (20th February 2026)

Dr. P. Paul Divakar, Programme Coordinator & HOD, Dept. of Physics, YVNR GDC, welcoming Guests onto the dias

Dr C. Krishna, Joint Director, CCE, Mangalagiri, is delivering the Valedictory address.

Feedback from Sri. Ch. Sudheer, Lecturer in Zoology, SVRM College (A), Nagaram.

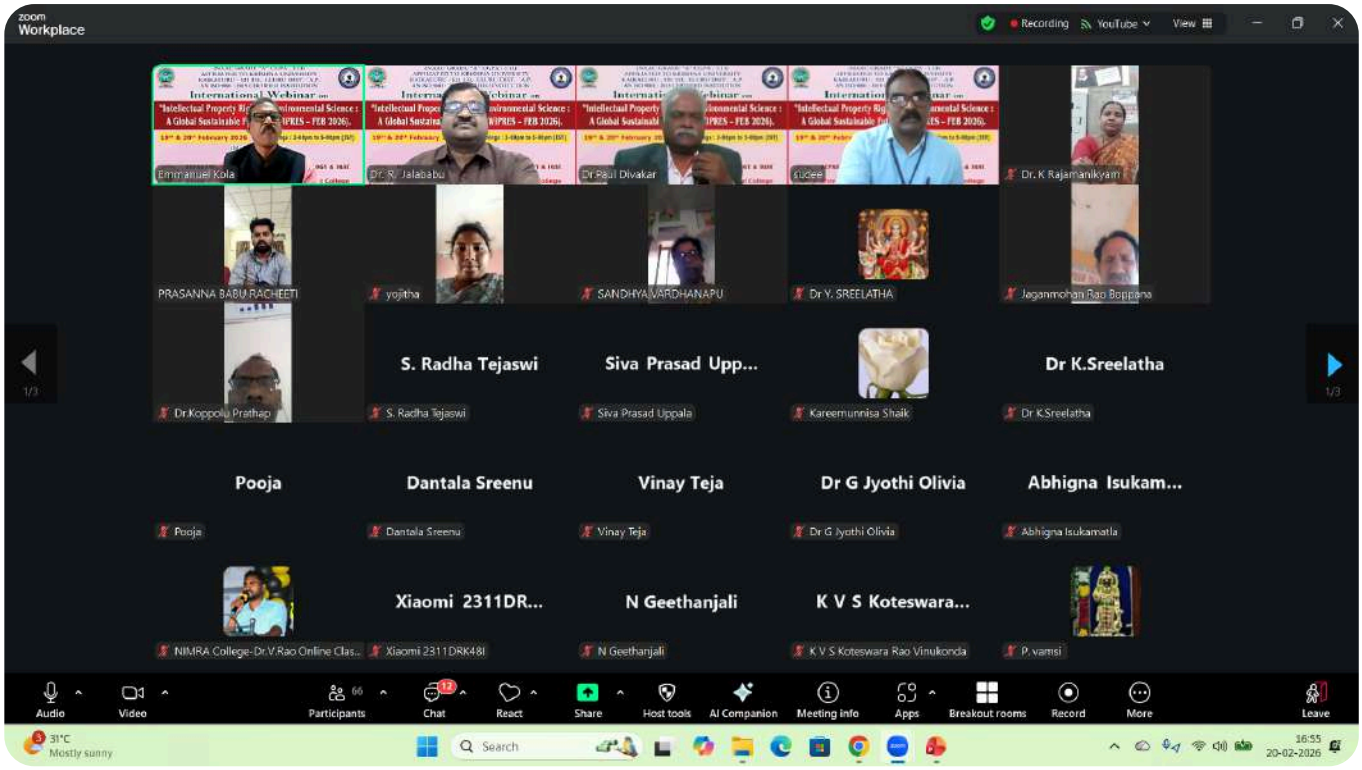


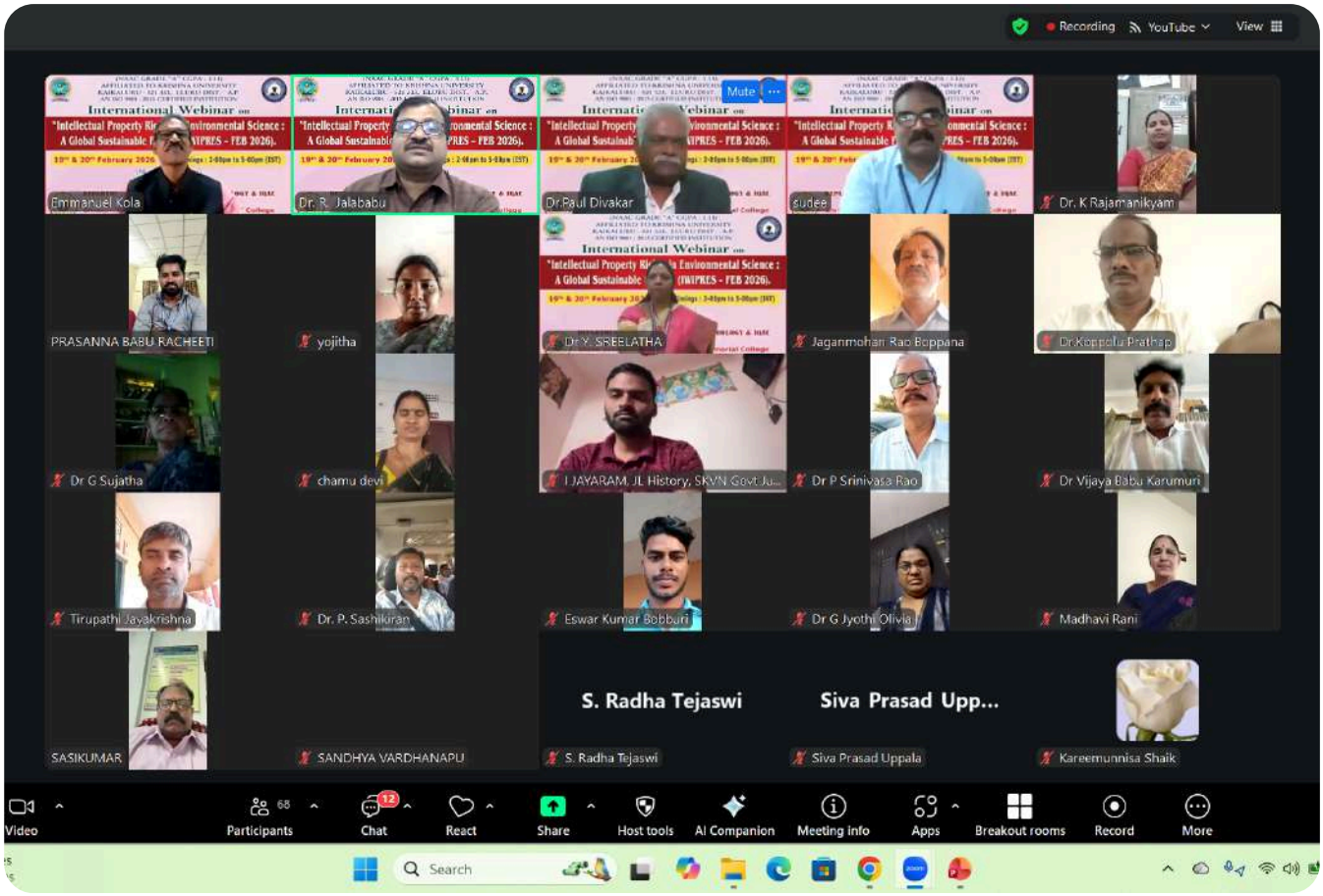
Feedback from Smt. P. Sirisha, HOD, Dept. of Physics, Sir C.R. Reddy College for Women, Eluru.

Dr. R Jalababu, Organising Secretary and IQAC coordinator, is proposing a vote of thanks.

The webinar ended with playing the National Anthem (Jana Gana Mana)

DAY – 2
Valedictory Session – Group Photos





Outcomes of International Webinar

Technical outcomes on biomass pretreatment and fermentation:

- Hydrothermally pretreated biomass showed comparable enzymatic digestibility using either citrate buffer or water as the hydrolysis medium.
- Using water as the hydrolysis medium resulted in only a 0–5% reduction in sugar yield.
- Phenolic compounds are the primary inhibitors of hydrolysate fermentability.
- Oilcane feedstocks exhibited higher phenolic concentrations, which deter microbial metabolic growth.
- Industrial bioethanol titers of 59–78 g/L were achieved from selected lignocellulosic feedstocks.
- Hydrothermal pretreatment remains a predominant method for lignocellulosic biorefineries.

IPR and sustainability: core insights

- Sustainable infrastructure requires more than technology; it also depends on policy, markets, skills, finance, and governance.
- Intellectual property rights (IPR) play a decisive role in scaling green solutions.
- Environmental benefit–cost (EBC) analysis and life-cycle assessment (LCA) are practical touchpoints for assessing IPR impacts.
- Balanced IPR frameworks can accelerate a globally sustainable future.
- IPR should be an enabler—not a bottleneck—of sustainability.
- The future of bioprocessing treats IP not merely as private exclusion, but as enabling infrastructure for innovation and deployment.
- Well-designed IP strategies help startups operate, attract investment, and ensure transformative technologies reach their full climate-positive potential.
- A restorative, circular bioeconomy requires systemic cooperation. Open and responsible IP strategies foster co-creation across suppliers, processors, and end users, enabling global diffusion of green technologies.

IPR and environmental technologies: opportunities and risks

- IPR protections encourage R&D and commercialization of green technologies (e.g., renewable energy, carbon capture, waste management, water purification), supporting national economic advancement.
- Overly strong IPR can concentrate control and raise costs, limiting access to critical environmental technologies—especially in developing and least-developed countries.

Weak IPR can deter innovation and reduce private-sector participation in green research.

- Sustainable development demands a balanced IPR framework that simultaneously promotes innovation and ensures fair access to environmentally beneficial technologies.
- When aligned with environmental ethics, public policy, and international cooperation, IPR can serve as a sustainable pathway—facilitating technology transfer and long-term environmental outcomes.

Agriculture in India: IPR, ecology, and justice (invited talk highlights):

- High-profile disputes (e.g., Monsanto vs. Nuziveedu Seeds; PepsiCo vs. Gujarat farmers) and resistance to environmentally harmful practices (e.g., groundwater over-extraction and pollution) reveal tensions between proprietary rights, farmer livelihoods, and ecological sustainability.
- The Monsanto–Nuziveedu case highlights the challenges of patenting life forms and of balancing biotech advances with farmers' rights under India's Patents Act and the PPVFR Act (2001).
- The PepsiCo FC-5 potato case raised national debate on seed sovereignty and farmers' traditional rights to save, use, and exchange seeds.
- Environmental externalities tied to agribusiness operations underscore how power asymmetries over intellectual and natural resources can drive ecological degradation.
- India's sustainability trajectory requires recalibrating IPR to prioritize ecological resilience, farmer autonomy, community welfare, and innovation—through farmer-centric laws, promotion of agrobiodiversity, and robust corporate accountability.

Actionable recommendations:

- Adopt balanced, sector-specific IPR policies that integrate EBC and LCA to guide access, licensing, and diffusion strategies.
- Expand open, responsible licensing models (e.g., patent pools, FRAND terms, humanitarian licensing) for critical green technologies.
- Incentivize public–private partnerships that pair IP protection with access commitments in developing regions.
- Strengthen farmer rights and biodiversity protections while supporting responsible agri-innovation.
- Build capacity for technology transfer and local manufacturing to scale equitable climate solutions.

Annexure -I

Feedback Form

International Webinar on Intellectual Property Rights in Environmental Science: A Global Sustainable Future (IWIPRES - FEB 2026) on 19th & 20th February 2026 conducted by Departments of Chemistry, Physics, Zoology & IQAC of Y.V.N.R. Government Degree College, Kaikaluru, Eluru - D.t, A.P, India.
In association with Shree Velagapudi Ramakrishna Memorial College (SVRM) (A), Nagaram, Bapatla-D.t, A.P.

* Indicates required question

1. Email *

2. Full Name *

3. Designation / Class (For students) *

4. Name of the Institution & Place *

5. E-mail address *

Feedback Section

Please give your Feedback about International Webinar for further improvement

6. 1. Do you feel the Resource persons are helpful to improve your knowledge on * **Research Methodology** ***in Environmental Science: A Global Sustainable Future***

Mark only one oval.

- ◯ Yes
- ◯ No

7. 2. How clear were the ideas and concepts Resource persons presented. *

Mark only one oval.

- ◯ Excellent
- ◯ Good
- ◯ Fair
- ◯ Poor

8. 3. How did you feel the presentation of **Dr. N. Manicka Mahesh** in Session -I *

Mark only one oval.

- ◯ Excellent
- ◯ Good
- ◯ Fair
- ◯ Poor

9. 4. How did you feel the presentation of **Dr. Narendra Naik Deshavath** in Session -II *

Mark only one oval.

- Excellent
- Good
- Fair
- Poor

10. 5. How did you feel the presentation of **Dr. Tharun Dolla** in Session -III *

Mark only one oval.

- Excellent
- Good
- Fair
- Poor

11. 5. How did you feel the presentation of **Dr. Arul Manikandan** in Session -IV *

Mark only one oval.

- Excellent
- Good
- Fair
- Poor

12. 6. How did you feel the presentation of **Dr. P.V. Brahamachari** in Session -V *

Mark only one oval.

- Excellent
- Good
- Fair
- Poor

13. 7. How do you feel about Organization of Two-Day International Webinar on *

'Research Methodology *in Environmental Science: A Global Sustainable Future.*"

Mark only one oval.

- Excellent
- Good
- Fair
- Poor

14. 8. Any suggestions, Please *

Annexure -II

Y.V.N.R GOVERNMENT DEGREE COLLEGE
KAIKALURU, ELURU DIST., A.P – 521333.
AFFILIATED TO KRISHNA UNIVERSITY
NAAC GRADE "A" [CGPA 3.13],
ISO CERTIFICATION 9001: 2015.

Certificate of Participation

Two-day International Webinar on

Intellectual Property Rights in Environmental Science: A Global Sustainable Future (IWIPRES - FEB 2026)

Organized by

Departments of Chemistry, Physics, Zoology & IQAC

in Association with

SVRM College (A), Nagaram, Bapatla (D.t)

This is to Certify that

has participated in Two-Day International Webinar on "Intellectual Property Rights in Environmental Science: A Global Sustainable Future (IWIPRES – FEB 2026)" - on 19th & 20th February 2026.

Dr. A. Hari Krishna
PRINCIPAL
SVRM College (A), Nagaram

Dr. R. Jalababu
IQAC CO-ORDINATOR
Y.V.N.R. GDC, Kaikaluru

Dr. Y. Sreelatha
PRINCIPAL
Y.V.N.R. GDC, Kaikaluru

Annexure -III

Y.V.N.R. GOVERNMENT DEGREE COLLEGE
(NAAC GRADE "A" CGPA : 3.13)
AFFILIATED TO KRISHNA UNIVERSITY
KAIKALURU - 521 333, ELURU DIST. A.P.
AN ISO 9001 : 2015 CERTIFIED INSTITUTION

International Webinar on

"Intellectual Property Rights in Environmental Science : A Global Sustainable Future" (IWIPRES - FEB 2026).

19th & 20th February 2026 ✦ Timings : 2-00pm to 5-00pm (IST)

(Multidisciplinary)

Organized By
DEPARTMENTS OF CHEMISTRY, PHYSICS, ZOOLOGY & IQAC
In Association with
Shree Velagapudi Ramakrishna Memorial College (Autonomous) Nagaram, Bapatla District

Annexure -IV

సూర్య
www.suryaa.com
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ఫిబ్రవరి 19, 20 తేదీల్లో అంతర్జాతీయ వెబినార్

నగరం, మేజర్ న్యూస్: పర్యావరణ పరిరక్షణకు, నూతన ఆవిష్కరణలకు పర్యావరణ శాస్త్రంలో మేథోసంపత్తి హక్కులు ఎంతో కీలకమని, వాతావరణానికి హానికలిగించని సాంకేతికతలను, ఉత్పత్తులను రక్షించేందుకు ఎంతో ఉపయోగపడతాయని స్థానిక శ్రీ వెలగపూడి రామకృష్ణ స్మారక కళాశాల సెక్రటరీ, కరస్పాండెంట్ వల్లభనేని బుచ్చయ్యచౌదరి అన్నారు. శుక్రవారం ఆయన తన ఛాంబర్‌లో ఫిబ్రవరి 19, 20 తేదీల్లో కళాశాలలో వాతావరణ శాస్త్రంలో మేథో సంపత్తి హక్కులు అంతర్జాతీయ వెబినార్ నిర్వహించే బ్రోచర్‌ను ఆవిష్కరించి మాట్లాడుతూ కైకలూరు వైవిఎన్ఆర్ ప్రభుత్వ డిగ్రీ కళాశాల, స్థానిక కళాశాల కెమిస్ట్రీ, జూవాలజీ, ఫిజిక్స్, ఐక్యూఏసీ విభాగాలు సంయుక్తంగా నిర్వహించే ఈ వెబినార్ ద్వారా అనుకున్న లక్ష్యాలను సాధించాలని ఆయన ఆకాంక్షించారు. కార్యక్రమంలో కళాశాల ప్రిన్సిపల్ డాక్టర్ అనగాని హరికృష్ణ, ఆయా శాఖల అధిపతులు డాక్టర్ పి. శ్రీనివాసరావు, ఎస్. శ్రీనివాసరావు, డాక్టర్ కె. సురేష్ బాబు, ఐక్యూఏసీ కోఆర్డినేటర్ కె. ప్రసన్నబాబు, కార్యాలయ సూపరింటెండెంట్ పి. అమరేష్‌రెడ్డి పాల్గొన్నారు.

ఆలోచనలకు పదునుపెట్టిన వెబినార్

కైకలూరు డిగ్రీ కాలేజీలో వెబినార్

కైకలూరు: దృశ్య మాధ్యమ విధానంలో స్థానిక వైవీఎన్ఆర్ ప్రభుత్వ డిగ్రీ కాలేజీ కేంద్రంగా గురువారం ప్రారంభమైన అంతర్జాతీయ వెబినార్ శుక్రవారంతో ముగిసింది. మొదటి రోజు ఇంటలెక్చువల్ ప్రాపర్టీ రైట్స్ ఇన్ ఎన్విరాన్‌మెంటల్ సైన్స్ అంశంపై వెబినార్ జరిగింది. కృష్ణా యూనివర్సిటీ వైస్ చాన్సలర్ ప్రొఫెసర్ కూనా రాంజీ ప్రసంగించారు. శుక్రవారం మొదటి విభాగంలో డబ్లిన్ యూనివర్సిటీ, ఐర్లాండ్‌కు చెందిన డాక్టర్ అరుణ్ మణికందన్ ప్రొటెక్టింగ్ గ్రీన్ ఇన్నోవేషన్, ఇంటలెక్చువల్ ప్రాపర్టీ స్ట్రాటజీస్ ఫర్ సస్టైనబుల్ బయో ప్రాసెసింగ్ అండ్ బయో రిఫైనింగ్ అంశంపై విపులంగా ప్రసంగించారు. అనంతరం కృష్ణా యూనివర్సిటీ బయోటెక్నాలజీ విభాగం ప్రొఫెసర్ డాక్టర్ పీవీ.బ్రహ్మచారి కార్పొరేట్ మోనోపోలీ అండ్ డిప్లిటింగ్ రిసోర్సెస్ అంశంపై చక్కగా వివరించారు. ముగింపు సమావేశానికి ముఖ్య అతిథిగా విచ్చేసిన మంగళగిరి ఉన్నత విద్య జాయింట్ డైరెక్టర్ డాక్టర్ సీ.కృష్ణ రోల్ ఆఫ్ ఇంటలెక్చువల్ ప్రాపర్టీ రైట్స్ ఇన్ ఎన్విరాన్మెంటల్ ప్రొటెక్షన్ అంశంపై కూలంకషంగా ప్రసంగించారు. చివరిరోజు ప్రిన్సిపాల్ డాక్టర్ వై.శ్రీలత అధ్యక్షత వహించగా, రాజమహేంద్రవరం రీజినల్ జాయింట్ డైరెక్టర్, డాక్టర్ పీవీ.కృష్ణాజీ, వివిధ రాష్ట్రాల నుంచి అనేక మంది విద్యార్థులు, పరిశోధక విద్యార్థులు, అధ్యాపకులు పాల్గొన్నారు.

శుక్రవారం, ఫిబ్రవరి 20, 2026 సేన

కైకలూరు ప్రభుత్వ డిగ్రీ కాలేజీలో అంతర్జాతీయ వెబినార్ ప్రారంభం

కైకలూరు, ఫిబ్రవరి 19 (సేన) : కైకలూరు వై.వి.ఎన్.ఆర్. ప్రభుత్వ డిగ్రీ కళాశాలలో అంతర్జాతీయ వెబినార్ ఆన్‌లైన్ విధానంలో గురువారం ఘనంగా ప్రారంభమైంది. 'ఇంటెలెక్చ్యువల్ ప్రాపర్టీ రైట్స్ ఇన్ ఎన్విరాన్మెంటల్ సైన్స్: ఎ గ్లోబల్ సస్టైనబుల్ ఫ్యూచర్' అంశంపై వెబినార్ నిర్వహించారు. ప్రారంభ కార్యక్రమానికి ముఖ్య అతిథిగా కృష్ణా యూనివర్సిటీ వైస్ చాన్సలర్ ప్రొఫెసర్ కూనా రాజీ హాజరై ప్రారంభ ఉపన్యాసం చేశారు. ఈ సందర్భంగా అయన మాట్లాడుతూ 21వ శతాబ్దంలో మానవజాతి అనేక పర్యావరణ సవాళ్లను ఎదుర్కొంటోందని, ఈ సవాళు నూతన సాంకేతిక, పర్యావరణ ఆవిష్కరణలకు దారితీస్తున్నాయని పేర్కొన్నారు. అటువంటి ఆవిష్కరణలను రక్షించడంలో మరియు ప్రోత్సహించడంలో ఇంటెలెక్చ్యువల్ ప్రాపర్టీ రైట్స్ కీలక పాత్ర పోషిస్తాయని తెలిపారు.మొదటి సెషన్లో ముఖ్య వక్తగా డాక్టర్ మాణిక్యం మహేష్ (కోయంబత్తూర్) పాల్గొని, ఇంటెలెక్చ్యువల్ ప్రాపర్టీ రైట్స్ నూతన సాంకేతిక, పర్యావరణ ఆవిష్కరణలకు చట్టబద్ధమైన రక్షణ కల్పిస్తాయని వివరించారు.రెండవ సెషన్లో డాక్టర్ దేశావత్ నాయక్. (యూనివర్సిటీ ఆఫ్ ఇల్లినోయిస్, అర్బానా– చాంపైన్, యూఎస్ఏ) "ఇంపార్టెన్స్ ఆఫ్ పేటెంట్ బయోప్రాసెస్ టెక్నాలజీస్: వాలరైజేషన్ ఆఫ్ అగ్రికల్చరల్ బయోమాస్" అనే అంశంపై విశదంగా ప్రసంగించారు. మూడవ సెషన్లో డాక్టర్ డొల్ల తరుణ్ (అసిస్టెంట్ ప్రొఫెసర్, గీతం డీమ్డ్ టు బీ యూనివర్సిటీ, విశాఖపట్నం) "ఇంటెలెక్చ్యువల్ ప్రాపర్టీ రైట్స్ యాజ్ యాన్ ఎనేబ్లర్ ఆఫ్ ఇండియాస్ సస్టైనబుల్ ఇన్ఫ్రాస్ట్రక్చర్ ఫ్యూచర్" అనే అంశంపై కూలంకషంగా వివరించారు.ఈ వెబినార్లో రాష్ట్రంలోని వివిధ కళాశాలలతో పాటు ఇతర రాష్ట్రాల నుండి అధ్యాపకులు, పరిశోధన విద్యార్థులు, డిగ్రీ, పీజీ విద్యార్థులు కలిపి 500 మందికి పైగా పాల్గొన్నారని కళాశాల ప్రిన్సిపాల్ డాక్టర్ శ్రీలత గారు తెలిపారు. కార్యక్రమానికి సమన్వయకర్తలుగా డాక్టర్ జాలా బాబు (ఐక్యూఏసీ కోఆర్డినేటర్), డాక్టర్ పి. పాల్ దివాకర్ (ప్రోగ్రామ్ కోఆర్డినేటర్), డాక్టర్ వి. సంధ్య, కె. రమేష్, డాక్టర్ కె. సురేష్ బాబుతమ వంతు సహకారం అందించారు. కళాశాల అధ్యాపకులు సిబ్బంది పాల్గొన్నారు.

అంతర్జాతీయ వెబినర్ ఆన్లైన్ విధానం ప్రారంభం

కైకలూరు,మేజర్ న్యూస్, వైవిఎన్ఆర్ ప్రభుత్వ డిగ్రీ కళాశాలలో ఈరోజు అంతర్జాతీయ వెబినార్ ఆన్లైన్ విధానాన్ని ఘనంగా ప్రారంభించారు. వెబినార్ అంశం ఇంట్లెలెక్యువల్ ప్రాపరీ రైట్స్ ఇన్ ఎన్విరాన్మెంట్ సైన్స్ ఎగ్లో బల్ ఫ్యూచర్ గా నిర్వహించినారు. ఈ కార్యక్రమ ఆరంభానికి ముఖ్య అతిథిగా కృష్ణ యూనివర్సిటీ వైస్ ఛాన్సలర్ ప్రొఫెసర్ కునా రాజి మాట్లాడుతూ 21వ శతాబ్దంలో మానవజాతి అనేక పర్యావరణ సవాళ్లను ఎదుర్కొంటుందని, ఈ సవాళ్ల నూతన సాంకేతి, పర్యావరణ ఆవిష్కరణకు దారి తీస్తున్నాయని పేర్కొన్నారు. అటువంటి ఆవిష్కరణను రక్షించుటంలో ,ప్రోత్సహించడంలో ఇంటె లెక్యూ వర్ ప్రాపరి రైట్స్ కీలక పాత్ర పోషిస్తాయని తెలిపారు.

డాక్టర్ మాణిక్యం మహేష్ (కోయంబత్తూర్)మాట్లాడుతూ నూతన సాంకేతిక ,పర్యావరణ ఆవిష్కరణకు చట్టబద్ధమైన రక్షణ కల్పిస్తాయని వివరించారు. నాయక్ మాట్లాడుతూ ఇంపార్టెన్స్ ఆఫ్ పేటెంట్ ప్రాసెస్ టెక్నాలజీస్ వాల రైజేషన్ ఆఫ్ అగ్రికల్చర్ బయోమాస్ అనే అంశంపై ప్రసంగించారు.

ఈ వేబీనర్లో బేబీ వెబినర్లో రాష్ట్రంలోని వివిధ కళాశాలలతో పాటు ఇతర రాష్ట్రాల నుండి అధ్యాపకులు పరిశోధన విద్యార్థులు,పీజీ విద్యార్థులు కలిపి 500 మందికి పైగా పాల్గొన్నారు అని కళాశాల ప్రిన్సిపాల్ శ్రీలత తెలిపారు. ఈ కార్యక్రమానికి సమన్వయకర్తలుగా జల బాబు, పి.పాల్ దివాకర్, వి. సంధ్య, కె రమేష్, కె. సురేష్ బాబు కళాశాల సిబ్బంది పాల్గొన్నారు.

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