

Lala Lajpat Rai University of Veterinary and Animal Sciences, Hisar

NATIONAL SCIENCE DAY (28th Feb 2024)

ROLE OF SATELLITE TECHNOLOGY TO TRANSFORM LIVESTOCK FARMING

Organized by: Directorate of Research in collaboration with Institutional Innovation Council, Directorate of Human Resource Management, LUVAS, Hisar.

The National Science Day was celebrated at Lala Lajpat Rai University of Veterinary and Animal Sciences (LUVAS), Hisar through organizing a one-day seminar on "Role of Satellite Technology to Transform Livestock Farming" by the Directorate of Research in collaboration with the Institutional Innovation Council, Directorate of Human Resource Management, LUVAS on 28.02.2024. The seminar aimed to explore the potential of satellite technology in revolutionizing livestock farming practices. The program was sponsored by Haryana State Council for Science and Technology and attended by Officers, Head of the Departments, Faculty members and UG & PG students of LUVAS.

Inaugural Session:

Prof. (Dr.) Vinod Kumar Verma, worthy Vice-Chancellor, LUVAS was Chief Guest, Dr. Naresh Jindal, Director of Research presided over the program and Dr. Rajesh Khurana, Director HRM was Guest of Honour at the Inaugural Session.

Prof. Verma in his address emphasized on adopting various technologies such as remote sensing, artificial intelligence, geographical indication system, etc. to make livestock husbandry a profitable business. Dr. Naresh Jindal, Director of Research emphasized the significance of integrating and adopting such advanced technologies to enhance productivity and sustainability in the livestock sector. Dr. Rajesh Khurana, Director, HRM stressed the importance of converting innovative ideas into entrepreneurial ventures to drive growth and development in the agricultural and veterinary domain. Dr. Khurana further informed the house that the Institutional Innovation Council, LUVAS is also working in this direction.

Technical Session:

Presentation 1: Remote Sensing Principles and Applications

- **Presenter:** Dr. Surendra Manickam, Associate Professor
- **Affiliation:** Centre for Disaster Mitigation and Management, Vellore Institute of Technology, Chennai.

Dr. Surendra Manickam delivered an insightful presentation on remote sensing principles and applications during the seminar on "Role of Satellite Technology to Transform Livestock Farming." His expertise in this field provided attendees with a comprehensive understanding of the fundamentals of remote sensing and its diverse applications across various sectors. The knowledge shared during the presentation will serve as a foundation for further exploration and implementation of remote sensing techniques in veterinary research and development.

Presentation 2: Utilization of Satellite Data and GIS for Livestock Farming

- **Presenter:** Prof. Mukesh Kumar Rohil, Professor
- **Affiliation:** Birla Institute of Technology and Science, Pilani

Prof. Mukesh Kumar Rohil delivered an enlightening presentation on the utilization of satellite data and Geographic Information Systems (GIS) for sustainable livestock farming. His expertise shed light on the integration of advanced technologies to address challenges in the livestock industry. Prof. Mukesh Kumar provided valuable insights and a deeper understanding of how these technologies can contribute to addressing industry challenges and improving productivity and sustainability in livestock farming practices. The knowledge shared during the presentation will serve as a catalyst for further research and implementation of advanced technologies in the livestock sector.

Presentation 3: Indigenous Technologies in Livestock Farming

- **Presenter:** Dr. Swati Dahiya, Scientist and Coordinator of Research
- **Affiliation:** In-charge, Regional Research Center on FMD, LUVAS, Hisar

Dr. Swati Dahiya, highlighted indigenous technologies developed by the Scientists and post-graduate students of university. These included innovative solutions such as a Monoclonal Antibody Based Latex Agglutination Test for HS Diagnosis, Biochemical Techniques for Mastitis Detection in milk, and an Inorganic Sulfate-Based Feeding Regime for turkeys. These pioneering technologies reflected LUVAS's commitment to innovation in veterinary and animal sciences, aiming to improve livestock health and productivity.

Concluding Session:

Dr. Naresh Kumar Kakker, Professor (Retired) & Chairman; along with Dr. Vijay Jadhav, Professor, VPHE & Co-Chairman; and Dr. Shalini Arora, Assistant Professor & Rapporteur of the Technical Session concluded the seminar and appreciated the efforts of speakers for providing the valuable insights into the transformative potential of satellite technology in livestock farming. Dr. Kakker further informed that the event served as a platform for exchanging ideas and fostering partnerships to drive the modernization of the livestock sector. Dr. Swati Dahiya and Dr. Ankit Magotra, Coordinators proposed vote of thanks to the participants.
