

UNIVERSITY NEWS

PEOPLE IN SCIENCE

STUDENT SPOTLIGHT

PUBLICATION SNAPSHOT

RESEARCH

OUTREACH

ACADEMIC ENGAGEMENTS

MBUST INSIGHTS

RESEARCH | INNOVATION | IMPACT

IN MEMORIES

In Deep Sorrow, We Mourn



With profound sorrow, the MBUST community extends its heartfelt condolences to the families and loved ones of those who lost their lives in the Bhotekoshi-Trishuli flash flood tragedy.

We remember every life lost, stand in solidarity with the affected communities, and honor the courage of all those involved in rescue and recovery efforts.

Our thoughts and prayers are with every family and community affected.

SCAN TO DONATE



Photo: AFP/AP/Reuters via Al Jazeera.

Advancing Research, Innovation, and Impact at MBUST

Highlights from the August 2026 Issue



Editorial Note

Welcome to the August 2026 edition of MBUST Insights. This month reflects the growing momentum of MBUST as a research-oriented university, marked by the return of our President and an expanding network of national and international academic engagement.

This issue highlights invited lectures by professors from China, faculty and administrative visits to China for academic symposia and collaboration, and workshops advancing computational research and disaster risk reduction. We also feature field-based learning through mushroom hunting and related seminars, as well as the research achievements and activities of our faculty and students.

Together, these activities demonstrate MBUST's growing emphasis on “research, collaboration, hands-on learning, and societal impact”. We hope this issue captures not only what happened during the month, but also how these engagements are building partnerships, strengthening research capacity, and creating new opportunities for the MBUST community.

*Editor-in-Chief
MBUST Insights*

ADMISSION OPEN

**FOR NOVEMBER 2026 INTAKE
(THIRD CALL FOR APPLICATION)**



**MADAN BHANDARI
UNIVERSITY OF
SCIENCE AND TECHNOLOGY**

Program Available

MAS/PhD Organic Agriculture

MAS/PhD Forest Biomaterials Science and Engineering

MAS/PhD Sustainable and Resilient Infrastructure

MAS/PhD Artificial Intelligence and Data Science

Bachelor in Computer Science and Technology (Bsc. CST)

Scholarship Opportunities

Scholarship Support Available

Full and partial tuition waivers



Funding
available



Easy
application



Financial
support

APPLY NOW



www.mburst.edu.np

Important Dates

- Application Deadline: September, 2026
- Written Exam and Interview: September, 2026
- Selection Notice: October, 2026
- Classes Begin: November 23, 2026

T

he Board of Trustees has reappointed Prof. Dr. Rajendra Dhoj Joshi as President of MBUST, effective July 27, 2026.

MBUST was built to be a research university, a place that grows knowledge, not just degrees. It's a proud moment to see that mission carried forward by the same leader who has always believed research is how a country truly develops. We hope this is also a reminder to the government: real progress needs real investment in research and innovation.



MBUST Welcomes Back Its President Prof. Dr. Rajendra Dhoj Joshi



The MBUST family warmly welcomes Prof. Joshi back.

The second edition of “Come Hunt With Us! – From the Forest to the Laboratory” was organized by the Mushroom Laboratory of Madan Bhandari University of Science and Technology (Institute of Applied Sciences, Organic Agriculture Program) on August 16–17, 2026, at Chitlang, bringing together mushroom enthusiasts, students, researchers, educators, and nature lovers for an immersive two-day learning experience.

The event followed a structured program that combined guided forest foraging, laboratory demonstrations, DNA sampling, tissue culture, specimen documentation, and mushroom preservation techniques.

This year’s edition witnessed record participation, with 21 registered participants joined by 2 invited participants from Shree Swachchhanda Bhairab Higher Secondary School. With the support of 10 dedicated volunteers, the event attracted more than double the participants at the inaugural session, reflecting the growing interest of the public in science and mycology-based experiential learning.



From Forest to Laboratory

Come Hunt With Us! – Edition 2

-By Saugat R.C.

Graduate Research Student
Organic Agriculture (OA) Program

Participants represented a diverse community-including university students from different disciplines, school students, researchers, educators, photographers, and professionals-creating a vibrant space for learning across age groups and backgrounds. Guided by the MBUST researchers and volunteers, participants explored mushroom diversity in the forest of Chitlang with great enthusiasm before bringing their collections to the Mushroom Laboratory to learn documentation, tissue and spore isolation for culture development, DNA sampling, drying techniques for long-term preservation, herbarium preparation etc.

The organizing team extends its heartfelt gratitude to all the participants, volunteers, local guides, homestay partners, Shree Swachchhanda Bhairab Secondary School, and every individual who supported the event. Your enthusiasm and collaboration made Come Hunt With Us! – Edition 2 a memorable event and an inspiring celebration of learning through nature and science.

Madan Bhandari University of Science and Technology (MBUST) and the Center for Molecular Dynamics Nepal (CMDN) signed a Memorandum of Understanding (MoU), followed by an official ceremony on August 14, 2026, at MBUST, Chitlang, formalized by Dr. Samir Mani Dixit of CMDN and Dr. Kriti Kusum Joshi (Director of the Institute of Applied Sciences) of MBUST. The Partnership aims to strengthen collaboration in genomics, biotechnology, and advanced scientific research through joint research, knowledge exchange, student and research internships, capacity building, and technology transfer. By combining academic and research expertise, the collaboration will provide opportunities for practical training, advanced laboratory experience, interdisciplinary research, and the development of skilled human resources, while contributing to Nepal's scientific and technological advancement and promoting the translation of research into practical applications.



MBUST and CMDN sign Memorandum of Understanding (MoU)

Unity for a New Era in Genomics and Biotechnology

-By Birendra Mahara
Graduate Research Student
Organic Agriculture (OA) Program

Graduate Student Spotlight

Nawaraj was inspired to join Madan Bhandari University of Science and Technology (MBUST) after listening to Mr. Padma Sunder Joshi's talk in the Desh Sanchar Discussion Series (Episode 57, 13 August 2024). He was motivated by four key factors: the stipend-supported, full-time research-focused model; a governance structure based on a Board of Trustees to make free of political interference; the university's vision "to be a world-class university"; and its unique, relevant academic programs. Combined with his passion for research on *Prinsepia utilis* (Dhatelo) and his belief that "new innovation, new opportunities, and new adventures go hand in hand," this inspiration led him to embark on his journey at MBUST.

Research Interests: Functional food development, Medicinal and Aromatic Plants, Lipids and Human Health, Fatty Acids Biosynthesis and Key Gene Regulators, Biopesticide and Biofertilizer

Nawaraj pandey

MAS in Forest Biomaterials Science and Engineering

(Fourth Semester)

Natural Products Laboratory

Supervisor: Sabina Shrestha, PhD



He aspires to build a research career dedicated to scientifically exploring and adding value to Nepal's underutilized plant resources. He plans to pursue advanced studies in natural products, bioactive compounds, functional oils, and sustainable bioprocessing, with a strong focus on molecular docking and dynamics to understand compound-target interactions. In the long term, he aims to bridge academic research with industry and community needs by developing evidence-based, locally sourced products and technologies.

He is particularly interested in contributing to strengthening Nepal's research capacity through interdisciplinary work that connects plant science, biotechnology, agriculture, and bio-based industries. Ultimately, he hopes to help transform Nepal's rich biodiversity into sustainable scientific and economic opportunities.

Posters Presented

1. Health Benefits of Himalayan Arabica Coffee — ICBSN 2025
2. *In Silico* Assessment of Ginger for Neuroprotection — ICBSN 2025
3. Unraveling *Prinsepia utilis* Seed Oil — MBUST First Commencement 2026

Manuscripts Under Review

1. *Prinsepia utilis* Compounds for Biological Potential — PLOS ONE
2. Fibre Extraction Methods: Systematic Review & Meta-analysis — Cellulose (Springer)

Advice for future MBUST students

"Research can be cruel or a bouquet of joy; it depends on how you perceive and manage it. When research becomes your true companion in the hardest times, every struggle can eventually bloom into discovery, growth, and satisfaction."

A 2-day workshop on the basics of cheminformatics and bioinformatics was held at Kathmandu Valley School and College, Syuchatar, Kalanki, in collaboration with Madan Bhandari University of Science and Technology, Chitlang. A team of experts as resource persons delivered the lectures on the fundamentals of molecular modelling and ADMET predictions.

It was augmented by hands-on practical training on the laptop computers by each participant. A dedicated team of assistants, led by Dr. Jhashanath Adhikari Subin, conducted the training sessions and provided thorough knowledge on the technical aspect of the computational work.

Objectives

1. To provide theoretical knowledge and basic procedural insights on the methodological steps of molecular modeling and drug-likeness prediction to the starters
2. To inform prospective students and researchers about the FBMSE program offered at Madan Bhandari University of Science and Technology, Chitlang
3. To show the selected participants the University laboratory facilities and provide a synopsis on the ongoing Master's and PhD-level research work
4. To create a broader network for information sharing and for popularizing MBUST programs

Workshop on Molecular Modeling and Drug-Likeness Prediction

An Introductory Hands-On Training in Cheminformatics and Bioinformatics

-By Jhashanath Adhikari Subin, PhD & Sudip Pandey, PhD
Assistant Professor
Forest BioMaterials Science and Engineering (FBMSE) Program

The workshop began with an introduction to Madan Bhandari University of Science and Technology (MBUST), Chitlang, its academic programs, and ongoing research activities, delivered by Dr. Sudip Pandey, who also highlighted the Master's admissions call. This was followed by theoretical sessions on drug design and development, where Dr. Bishnu Prasad Marasini explained the role of computational methods and the potential of Nepal's medicinal plants as sources of bioactive compounds. Dr. Hari Ram Poudel concluded the session with an overview of toxicity and safety assessment in drug discovery.



Photos: Inauguration day pictures with Dr. Swagat Shrestha delivering welcome remarks and Dr. Sudip Pandey introducing MBUST

OUTREACH

The workshop introduced different web servers through guided demonstrations, followed by hands-on practical sessions where participants performed drug-likeness prediction and molecular docking on their own laptops under the guidance of Dr. Jhashanath Adhikari Subin. The second day focused on molecular visualization and result analysis. The workshop included around 2 hours of lectures and 7 hours of technical sessions, along with time for networking and refreshments. It concluded with closing remarks by Dr. Swagat Shrestha, who encouraged participants to pursue research and higher studies at MBUST while emphasizing the importance of collaborative scientific research for Nepal's development. Participants also visited MBUST, Chitlang, where Prof. Dr. Dinesh Raj Bhujaraj introduced the university's vision and ongoing research activities through a laboratory tour, leaving participants impressed by the facilities and research opportunities.

Participation

Around 50 participants actively took part in the workshop, while additional applicants could not be accommodated due to full capacity. Participants represented more than six institutions and diverse scientific disciplines, including chemistry, biochemistry, biotechnology, physics, and biological sciences, with educational backgrounds ranging from undergraduate to PhD level. Their diversity reflected the growing interest in computational drug discovery. Feedback was overwhelmingly positive, with many participants appreciating the opportunity to learn new tools and techniques, and several recommending that future workshops be extended to three or more days.



Presentation by Dr. S. Pandey



Laboratory tour by Dr. J.A. Subin



Ongoing technical session

Outcomes

1. Training on the basics of molecular modelling and drug-likeness prediction were provided. Active involvement in the subject was seen as several candidates interacted and inquired about the details of the topic.
2. The visit of laboratories by twenty-one students led to the understanding of the current research activities at MBUST (especially FBMSE program) and realization of capabilities in the realm of present scientific advancement.
3. Several students showed interest in research and have agreed to inform other prospective students or researchers about it. Outreach and popularization were initiated.

OUTREACH



Theoretical session by Dr. B. Marasini



Certificates distribution



Visitors at MBUST

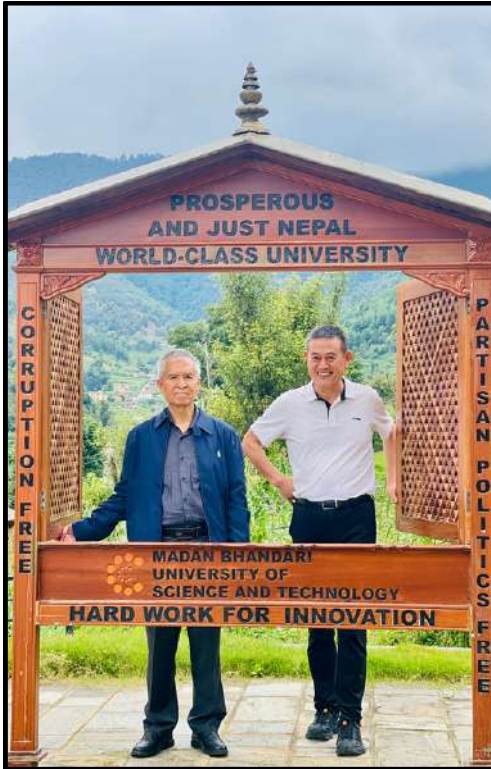


Introductory session by Prof. Dr. D. R. Bhujii



Theoretical session by Dr. H. R. Poudel

On 7 August, Professor Jianchu Xu from the Kunming Institute of Botany, Chinese Academy of Sciences, visited MBUST. He is a leading ethno-ecologist working on human–environment systems. He has been strongly advocating early-warning signals of global change, transboundary water governance, landscape restoration, ecosystem services and their resilience, agriculture, and integrative conservation.



Prof. Xu recalled Agenda 21, Chapter 13, “**Managing Fragile Ecosystems: Sustainable Mountain Development**,” which includes the program area “Generating and strengthening knowledge about the ecology and sustainable development of mountain ecosystems.”

Professor Xu also gave a glaring example from his work on *Calotropis procera* fiber, a natural textile fiber often branded as “**Desert Gold**” because of its silky luster, softness, and suitability for dryland/arid land. He has positioned *Calotropis* fiber as a sustainable, skin-friendly alternative to cotton and wool. Professor Xu reminded us that, although we live in fragile ecosystems, we need to explore the bioeconomy to turn crisis into opportunities.

Prof. Dr. Rajendra Dhoj Joshi, MBUST president, expressed his happiness to meet an important partner who can help shape the future. He also expressed the need to focus on specific areas and perform very well to open new frontiers. He concluded the meeting with the remark that we need to explore Himalayan species for products for the future and life in the future and work on new promising areas to bring transformation.



Science for the Himalayas

Prof. Jianchu Xu shares a vision for resilient mountain bioeconomies

-By Sabina Shrestha, PhD

Associate Professor

Natural Product Laboratory

Forest Biomaterials Science and Engineering (FBMSE) Program

Learning Beyond the Classroom

Our Experience of the MBUST Seminar Series

-By Srijana Dangi, Manushi Sigdel, Sadikshya Chaulagain, Sanju Shah, Uttam Syangtan

Graduate Research Students

Forest Biomaterials Science and Engineering (FBMSE) Program

For us, graduate education isn't just about what's written in the syllabus—it's about who walks through the classroom door. The FB-CR-550: Advanced Topics in Sustainable Bio-products seminar series has been a game-changer, transforming our learning journey from passive reading to active, high-level engagement with the brightest minds in the field.

From bio-based chemicals and nanomaterials to eco-hydrology and sustainable construction, the series has shattered the silos of our discipline. We've learned that forest biomaterials aren't an isolated subject; they are the intersection where chemistry meets forestry, engineering meets entrepreneurship, and science meets societal need.

Why the Seminar Series Is Unique?

What makes this series truly unique is the access. Instead of just reading about research, we get to dissect it with the researchers.

A standout moment came on 21 August 2026, when we hosted Dr. Bipeen Dahal, Assistant Professor at Tribhuvan University's Central Department of Chemistry. His in-person session reminded us how a chemistry-based perspective can supercharge our understanding of sustainable bio-products. Hearing about current limitations and emerging opportunities straight from the source is something no textbook can replicate.

"The sessions helped me connect classroom theory with the real decisions that professionals must make in practice." -**Manushi Sigdel**



Connecting the Dots Across Disciplines

The "seminar spirit" didn't stop with one course. It bled into our entire curriculum, showing us that sustainability is a team sport.

- Environmental Management: A final session with Dr. Amrit Prasad Sharma drove home the point that forest resources can't be managed without ecological responsibility and long-term planning.
- Entrepreneurship & Leadership: Meanwhile, Prof. Binod Krishna Shrestha pushed us to think like innovators—showing us how lab breakthroughs become real-world solutions through leadership, teamwork, and smart value creation.

Students' Experiences

"Hearing how experts develop ideas into meaningful work gave me the confidence to pursue my own research with clearer purpose."

-Srijana Dangi

"The interdisciplinary mix was invaluable. Strong research often requires combining chemistry, forestry, and materials science."

-Sadikshya Chaulagain

"The Q&A sessions sharpened my critical thinking. I learned to listen for assumptions and alternative approaches, not just accept information passively."

-Sanju Shah

"This series broadened my view of professional pathways. Collaboration and networking aren't just buzzwords—they are career essentials."

-Uttam Syangtan

The Big Takeaway: From Knowledge to Impact

If there is one overarching lesson we've taken away, it's this: sustainability problems cannot be solved from a single viewpoint.

Whether it's managing a forest, developing a new polymer, or launching a bio-based startup, success requires a fusion of scientific rigor, environmental awareness, and entrepreneurial drive. The seminar series hasn't just taught us what to study; it has taught us how to think: questioning, connecting, evaluating, and imagining what's next.

This experience has reignited our passion for research and strengthened our professional networks. As we look toward our theses and future careers, we are more confident, more open to unfamiliar methods, and ready to contribute to Nepal's bio-based and environmental development goals.



Disaster Networks Workshop

Three-day workshop strengthened practical disaster response networking expertise

-By Ritu Raj Lamsal, PhD

Assistant Professor and Coordinator
Digital Technology (DT) Program

Dr.

Ritu Raj Lamsal, Faculty Member and Coordinator of the Digital Technology Program, and Mr. Avash Jit Maharjan participated in a three-day workshop titled "Self-Converging Mesh Networks for Disaster Responders," organized by InterERLab, the Asian Institute of Technology

(AIT), and Nepal Research and Education Network (NREN) from 2–4 August 2026 at Yellow Pagoda Hotel, Kathmandu.

The workshop brought together 50 participants from 20 diverse organizations, including academic institutions, government agencies, and the humanitarian sector, to address Nepal's critical vulnerability to natural disasters such as earthquakes, floods, and landslides that frequently render conventional telecom infrastructure inoperable.

Designed to bridge the gap between conceptual knowledge and real-world crisis response, the intensive training program focused on equipping IT engineers and faculty members with practical capabilities to deploy decentralized, self-healing mesh communication networks that operate independently of centralized towers and fiber backbones.

Over three days, participants completed hands-on sessions covering OpenWrt firmware flashing, LuCI web interface management, SSH configuration, and OLSR dynamic routing, as well as integrating essential field services such as offline VoIP. The workshop also featured realistic field deployment drills conducted under constrained, emergency-simulated campus conditions, allowing attendees to practice rapid network setup in scenarios that mirror actual post-disaster environments.

After the workshop, participants gained the technical skills to serve as Emergency IT Responders and set up and maintain resilient communication networks when conventional systems are unavailable.



Read and write a scientific article, How?

A brief guide

-By Punit Bhattachan, PhD

Assistant Professor

Digital Technology (DT) Program

How to read a scientific article is a skill required for researchers and students. Every year, thousands of scientific articles are published across various journals worldwide. These documents are often deposited in databases such as Scopus, Web of Science, IEEE Xplore, PubMed, and Google Scholar, as well as on all publishers' websites. For researchers and students, keywords should be selected based on their research interests or topics to find related articles in the aforementioned databases or on the library's website.

However, each search instantly yields thousands of articles, making it difficult and often futile to read all, as many may not be relevant. A simple, practical method to save time was developed by Keshav in 2007 using three-pass steps, briefly illustrated in Table 1, to help researchers and students focus on key parts and improve reading efficiency.

Additionally, the three-pass method can be applied when conducting a literature review or when serving as a reviewer for a research paper. Although reading skills are crucial, writing skills are equally important for all students.

Table 1. Three pass method for reading a scientific article.

SN	Categories	Description
1.	First pass	Read title, abstract, introduction, skim sub-headings only, conclusions, and look at references. It takes only 5-10 minutes. If the article is relevant to your research, go to second pass.
2.	Second pass	Carefully analyze the figures and graphs. Read methods, results, and discussion section. Mark unread reference. It takes about 1 hour. If you want to deep dive into the article, take third pass step.
3.	Third pass	Read creatively and critically the whole paper. Also recreate the work to understand the paper. Pay great attention to details. It takes 4-5 hours.

Beyond conducting a research project, disseminating your research findings in the form of a thesis, conference paper, article, etc. is an important endeavor. The most common scholarly activity in academia is writing and publishing a scientific article. Notably, publishing your work in a journal not only showcases what you have done but also explains why your research is important in that particular field. Consequently, knowing how to write a manuscript is an essential skill for all stakeholders involved in scientific research.

Writing a manuscript can be a daunting experience for students and researchers alike. Some struggle with writing and may have difficulty framing sentences; others introduce a few grammatical errors in

RESEARCH

their writing, and new authors do not write a manuscript with a logical flow due to poor writing and plannings. To simplify manuscript writing, Lawton et al. (2025) have formulated ten simple steps for beginners, concisely described in Table 2 as a guide. Preferably, take all ten steps sequentially during the writing of a manuscript. These steps can also be followed when writing a dissertation or thesis.

At present, the use of artificial intelligence (AI) tools in manuscript writing is rapidly increasing, which is prohibited by many journals when the content of the manuscript is generated, but simple tasks like grammar checks, improving English, formatting text, etc. are permitted with caution; after all, using AI tools in writing should be practiced with ethical values. Alongside the simple steps of writing a manuscript, many writers are confused about which tense to use while writing. Table 3 summarizes the common tenses used in the manuscript.

Table 2. Ten simple steps to writing a manuscript

SN	Steps	Description
1.	Choosing a Journal	Consult with the supervisor.
2.	Abstract writing	Summarize the manuscript in 250 words.
3.	Methods writing	Write each step of all experiments done.
4.	Results writing	Clearly state findings of the research in paragraphs.
5.	Introduction writing	Introduce previous literature on the topic, research gaps, objectives, hypothesis as separate paragraph.
6.	Discussion writing	Begin with the main findings, interpretation of results, possible mechanisms, limitations as separate paragraph.
7.	Tables and Figures preparation	Construct tables and figures throughout writing.
8.	Figures Finalizing	Refine final figures according to the journal.
9.	References input	Include new articles from the field with proper format.
10.	Coauthor input and approval	Ask comments and editing from other authors about manuscript draft.

Table 3. Common tenses in a manuscript

SN	Manuscript's sections	Common tenses
1.	Abstract	Past tense, Present perfect tense
2.	Introduction	Present tense, Present perfect tense
3.	Literature review	Past tense, Present perfect tense
4.	Methods	Past tense
5.	Results	Past tense
6.	Discussion	Mixed
7.	Conclusions	Present tense, Future tense

In conclusion, mastering the reading and writing of scientific articles is an important skill for all researchers and students. This guide provides a step-by-step overview of how to read and write a manuscript. Given that many strategies for reading and writing a manuscript are available, readers are advised to be critical and consult similar literature on this topic as well.

References:

- Keshav, S., 2007. How to read a paper. ACM SIGCOMM Computer Communication Review, 37(3), pp.83-84.
- Lawton, J. S., Robich, M., & Holmes, S. D., 2025. Writing a manuscript for beginners. Annals of Thoracic Surgery Short Reports, 3(3), 814-817.

Learning Beyond Borders

MBUST Strengthens Academic Collaboration with Yunnan Normal University

-By *Abhishek Shrestha*
Administrative Staff

Academic learning now extends beyond classrooms, with universities fostering global research collaborations. Madan Bhandari University of Science and Technology (MBUST) participated in the China-Nepal Trans-Himalayan Ecological Environment and Academic Cooperation Bilateral Symposium at Yunnan Normal University (YNNU) in Kunming, China, on 30 July 2026. The event gathered researchers from China, Nepal, and the UK to share findings and explore cooperation in ecology and environmental sciences. Kunming, the “City of Eternal Spring,” inspired discussions on the ecological and geographical links between Yunnan and Nepal, focusing on challenges such as climate change, biodiversity, watershed management, urbanization, ecosystem degradation, and sustainable resource use.

Connecting Academic Communities

Prof. Chen Guangjie, Dean of FoG-YNNU, opened the symposium with remarks on YNNU’s academic growth, strengths, and research. Discussions highlighted the potential for cooperation between China and Nepal through surveys, data sharing, postgraduate training, scholar exchanges, joint publications, and research projects.

MBUST Vice-President (Academic and Research), Prof. Dr. Dinesh Bhaju, presented “Himalayan Study Center: A Scientific Platform for Research, Talent Development, and International Cooperation,” outlining the proposed Center’s vision as a platform for research, capacity building, and international collaboration.

Dr. Kirti Kusum Joshi, Director of the Institute of Applied Science, MBUST, presented research on “Urban Vegetation and Peri-urban Agriculture Interaction,” highlighting the need to balance ecological sustainability, agricultural productivity, and market competitiveness.

Associate Professor Dr. Gao Zhiwen, YNNU, presented on “Diversity Patterns and Drivers of Urban Vegetation,” highlighting key factors influencing urban plant diversity and proposing a joint China-Nepal urban vegetation survey.

Assistant Prof. Dr. Sudip Pandey, MBUST, presented “Lakes in Nepal: Distribution and Human Impacts,” providing a Nepal-specific perspective on lake ecosystems and the effects of human activities on them.

Associate Prof. Dr. Huang Linpei, YNNU, presented “Carbon-Nitrogen Cycle Responses in Yunnan Plateau Lakes Under Anthropogenic Impacts,” examining carbon and nitrogen cycling in plateau lakes and their responses to human activities.

Associate Prof. Dr. Ryan Pereira, Heriot-Watt University, UK, presented “Carbon Water Dynamics – Uncovering the Secrets of Carbon Transport,” providing insights into carbon-water interactions and the mechanisms governing carbon transport.

Associate Prof. Dr. Liu Liu, YNNU, presented “Warming-Driven Carbon Emission Feedbacks Across Himalayan Alpine Lakes,” highlighting research into carbon emission feedback mechanisms in Himalayan alpine lakes under changing climatic conditions.

Associate Prof. Dr. Gao Yuesong, YNNU, presented “The Occupation History of Nepalese Alpine Lakes as Wintering and Stopover Sites for Migratory Birds,” exploring the ecological significance of Nepalese alpine lakes as wintering and stopover habitats for migratory birds.

Abhishek Shrestha, an administrative staff member at MBUST, presented “An Introduction to MBUST: Evolution and Activities,” outlining the University’s establishment, institutional development, educational philosophy, academic priorities, and major activities.

Together, the presentations demonstrated complementary research strengths and identified opportunities to connect expertise across institutions and countries.



From Knowledge Exchange to Collaborative Research

The symposium enabled researchers to share interests and explore collaboration across fields such as trans-Himalayan ecology, alpine lake conservation, biodiversity, urban vegetation, and more. A main proposal was creating a China–Nepal Trans-Himalayan Ecology and Environment Joint Research initiative for joint fieldwork, monitoring, data sharing, and research. The talks emphasized the importance of cross-border cooperation to tackle Himalayan environmental issues and boost regional research capacity.

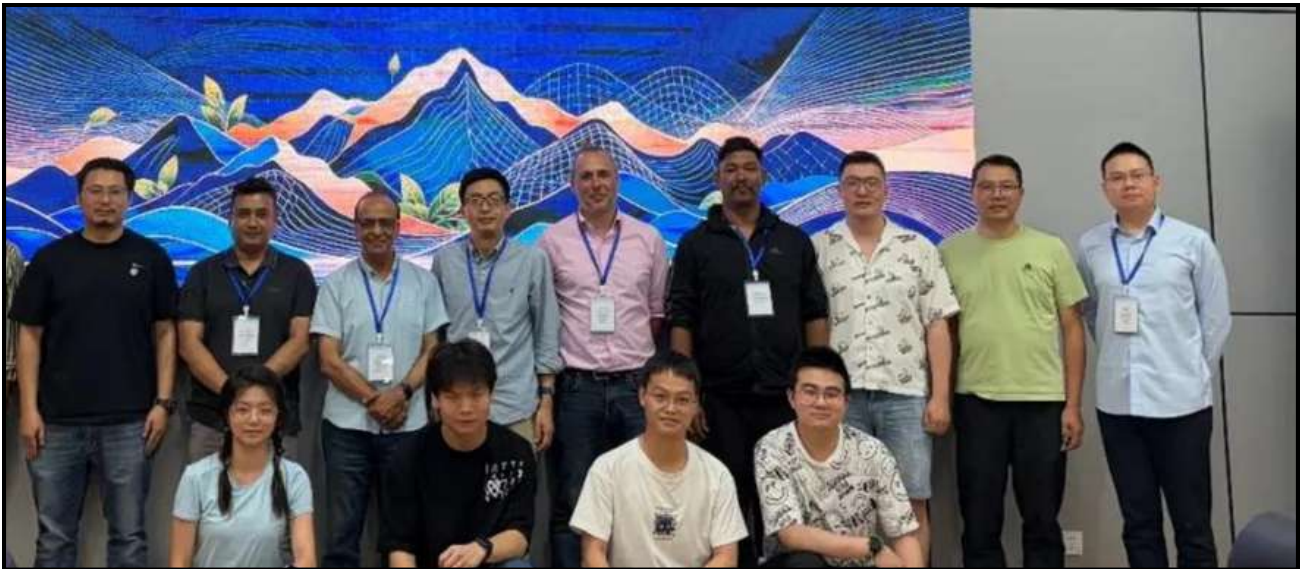
From Kunming to Chitlang

The Kunming symposium should be seen as a foundation for broader academic partnerships among MBUST, YNNU, and other international institutions, not an isolated event. Following up, a YNNU team and faculty from Chinese universities plan to visit MBUST in October 2026 to continue discussions, define areas of cooperation, and turn shared interests into concrete initiatives. MBUST thanks all participants for making the symposium meaningful, with special appreciation to Dr. Gao Zhiwen for his support and efforts to strengthen China–Nepal academic cooperation, including facilitating visits across Yunnan.

Learning Beyond the Symposium

The academic engagement extended beyond the symposium through study visits to Fuxian Lake, the Science Museum, and YNNU's laboratory facilities. These visits offered valuable insights into research infrastructure, environmental studies, and international research practices.

The engagement also enabled MBUST to showcase its academic programs, research priorities, and institutional vision, while strengthening research capacity, expanding academic networks, and creating opportunities for future postgraduate and collaborative research.



Team Photo: From Left to Right (On Top: Dr. Sudip Pandey, Dr. Gao Yuesong, Dr. Gao Zhiwen, Dr. Kirti Kusum Joshi, Prof. Dinesh Bhujju, Prof. Chen Guangjie, Dr. Ryan Pereira, Mr. Abhishek Shrestha, Faculty member YNNU, Dr. Liu Liu, Dr. Huang Linpei) (On Bottom: Students, School of Geography, YNNU)

Building Knowledge Beyond Borders

For a young, research-focused institution like MBUST, international collaboration is vital for boosting institutional capacity, expanding research, and creating opportunities for faculty and students. The China–Nepal Trans-Himalayan Symposium provided more than a platform; it fostered dialogue, partnership, and collective thinking about the region's future. The real test will be whether these discussions turn into research projects, generate knowledge, and lead to practical solutions. The dialogue has moved from Kunming to Chitlang, with an October visit to deepen collaboration.

See you soon, Yunnan Normal University. The next chapter awaits.



The Worm That Was Already Dead

A scary note from an insect ecologist

-By *Sujan Dawadi, PhD*

Assistant Professor

Insect Ecology and Pest Management (IEPM) Laboratory

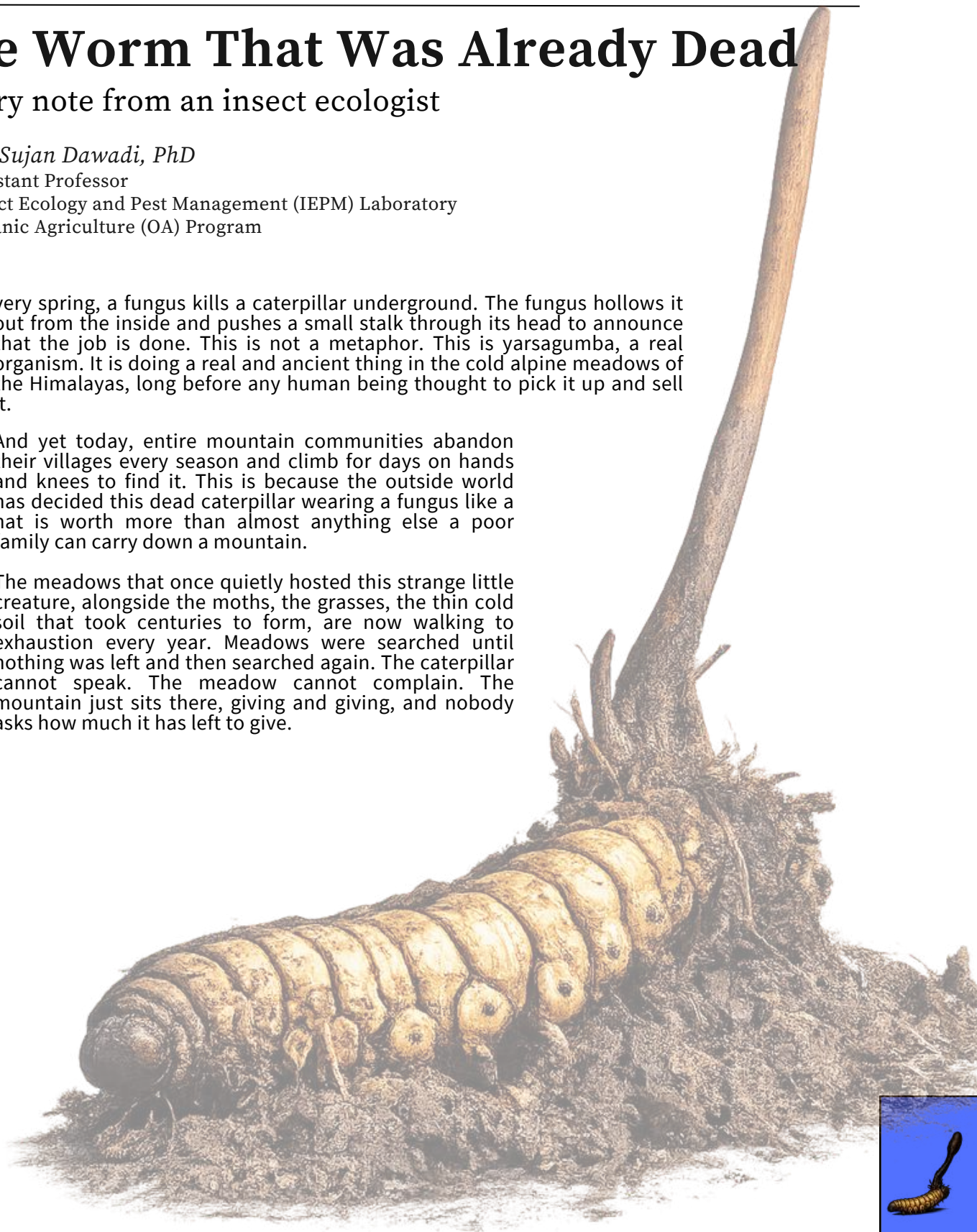
Organic Agriculture (OA) Program

E

very spring, a fungus kills a caterpillar underground. The fungus hollows it out from the inside and pushes a small stalk through its head to announce that the job is done. This is not a metaphor. This is yarsagumba, a real organism. It is doing a real and ancient thing in the cold alpine meadows of the Himalayas, long before any human being thought to pick it up and sell it.

And yet today, entire mountain communities abandon their villages every season and climb for days on hands and knees to find it. This is because the outside world has decided this dead caterpillar wearing a fungus like a hat is worth more than almost anything else a poor family can carry down a mountain.

The meadows that once quietly hosted this strange little creature, alongside the moths, the grasses, the thin cold soil that took centuries to form, are now walking to exhaustion every year. Meadows were searched until nothing was left and then searched again. The caterpillar cannot speak. The meadow cannot complain. The mountain just sits there, giving and giving, and nobody asks how much it has left to give.



TOURNAMENT CHESS

MBUST
CHESS CLUB
ESTD. 2026

SEPTEMBER
2026

GPB
MBUST

HAPPENING SOON

CHESS EVENT

MBUST CHESS CLUB

The MBUST Chess Club is making its first move with the Inaugural MBUST Chess Tournament which will be open to all students and faculty. Challenge your mind, compete with the best, and be part of the beginning of MBUST's chess legacy.

Tournament format, rules, and registration details will be announced once the MBUST Chess Club receives official recognition from the University Administration, which is currently under process.
Stay tuned!

EDITOR-IN-CHIEF

Sujan Dawadi, PhD
sujan.dawadi@mbust.edu.np

CO-EDITOR

Mr Saugat RC
saugat.rokaya.chhetri@mbust.edu.np

CO-EDITOR

Ms Manushi Sigdel
manushi.sigdel@mbust.edu.np

REVIEWER

Prof Dinesh Raj Bhuju, PhD
Vice President, Academic & Research
dinesh.bhuju@mbust.edu.np

CONTRIBUTORS

	Page No.
Ritu Raj Lamsal, PhD	14
Mr. Birendra Mahara	6
Sabina Shrestha, PhD	7, 11
Punit Bhattachan, PhD	15, 16
Jhashanath Adhikari Subin, PhD & Sudip Pandey, PhD	8,9,10
Mr. Abhishek Shrestha	17, 18
Sujan Dawadi, PhD	2, 4, 19
Mr Saugat RC	5, 20
Srijana Dang, Manushi Sigdel, Sadikshya Chaulagain, Sanju Shah, & Uttam Syangtan	12,13
Editorial Team	1,3,21, 22



Visit/ Scan the QR
www.mbust.edu.np/newsletter

WHY DONATE TO MBUST?

In 2022, the Government of Nepal established Madan Bhandari University of Science and Technology (MBUST) with a bold vision: to create a world-class research university that addresses Nepal's most pressing challenges through science, technology, innovation, and entrepreneurship.

Our students and faculty are already working on:

- Artificial Intelligence and Data Science
- Climate Change and Eco-Hydrology
- Genomics and Biotechnology
- Sustainable Infrastructure and Earthquake Engineering
- Biodiversity Conservation and Natural Resources Management
- Advanced Materials and Manufacturing

But building a world-class university requires more than ambition.

It requires a community of supporters who believe that Nepal's future can be shaped through research, innovation, and education.

We Accept



जोसल राइड बैंकबाट अनुमति प्राप्त



MADAN BHANDARI UNIVERSITY OF SCIENCE AND TECHNOLOGY ENDOWMENT FUND
Terminal : 22228000209453
Bank Branch : CHITLANG BRANCH

Join our campaign

**Support MBUST
Endowment Fund**

**Every Rupee. Every Dollar.
Every Contribution
Matters.**

SCAN & PAY





**MADAN BHANDARI
UNIVERSITY OF
SCIENCE AND TECHNOLOGY**

CONTACT US:

<https://www.mburst.edu.np/>

Chitlang, Thaha Municipality-9, Makawanpur,
Bagmati Province, Nepal



MBUST IS A CORRUPTION-FREE/POLITICALLY NEUTRAL/EQUAL ACCESS INSTITUTION