समयुक्ति Newsletter

ICARSS

April – June 2025
Volume: 2 | Issue: 2



Integrated Centre for Adaptation, DRR and Sustainability (ICARS)

समयुक्ति ICARSS

IIT Roorkee - Gr. Noida Campus (NCR), India

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Highlights

IIT Roorkee and ICIMOD signed Memorandum of Understanding (MoU)



Editorial Team

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Editorial

The Unbearable Heat: A Strategic Call for Climate-Resilient Development

- Prof. Anil Kumar Gupta

The **April–June 2025** period has brought India's climate vulnerability into sharp relief. Record-breaking heatwaves swept across the country, disrupting public health systems, agricultural cycles, water availability, and economic productivity especially in urban centres, where dense infrastructure and limited green cover intensified the crisis. This is no longer a seasonal anomaly, it is a structural risk that demands a systemic and forward-looking response.

India has demonstrated commendable leadership in addressing heatwave risks. The expanding coverage of Heat Action Plans (HAPs), proactive engagement in global climate dialogues, and the evolving National Adaptation Plan (NAP) reflects a growing national resolve to confront climate extremes. Several states and cities have taken pioneering steps to institutionalize heat preparedness, improve early warning systems, and protect vulnerable populations.

Yet, the challenge demands a deeper transformation reimagining development itself. Extreme heat affects all demographics, but cities face a distinct and intensifying burden. Urban heat islands amplify exposure, particularly for the poor, elderly, and outdoor workers. Addressing this requires embedding heat resilience into the architecture of development across urban planning, public health, infrastructure, and economic policy.

This editorial advocates five strategic pathways to catalyse this transformation:

- **Mandate and Scale HAPs:** Elevate HAPs into legally binding, well-resourced frameworks integrated across governance levels, with clear accountability and pre-season resource allocation.
- **Redesign Urban Spaces for Passive Cooling:** Combat urban heat through nature-based solutions (NbS)- expanding green cover, restoring water bodies, and mandating cool roofs and permeable surfaces. Reinforce traditional cooling wisdom such as shaded courtyards, clay architecture, and community water structures.
- **Strengthen Public Health Systems:** Equip health infrastructure and frontline workers to manage heat-related illnesses, supported by early warning systems and accessible cooling centres.
- **Bridge Research and Policy:** Launch a national mission to translate climate data into actionable policies, low-cost technologies, and community-led innovations drawing from both scientific and indigenous knowledge systems.
- **Ensure Equitable Access to Sustainable Cooling:** Reimagine cooling beyond air conditioning- through passive housing design, vernacular architecture, and inclusive strategies that protect heat-vulnerable populations.

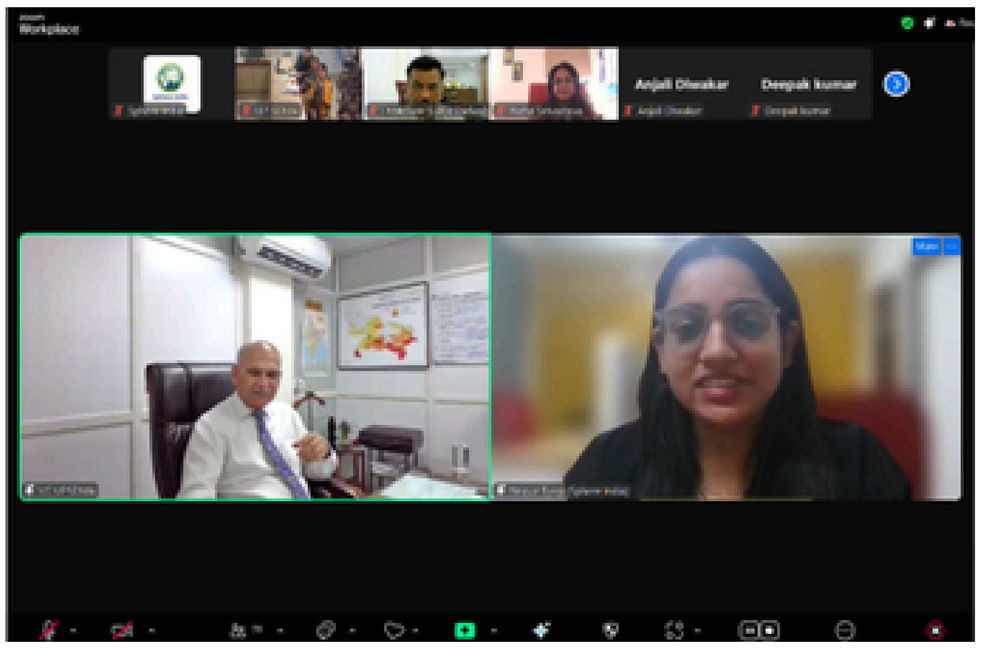
India's preparedness offers a strong foundation. By blending traditional wisdom with modern science and embedding resilience in development, India can model climate adaptation globally. This decade must redefine development as resilience and place India at the forefront of creating a cooler, safer, and a more inclusive world.

Events

National Consultation on "Strengthening Heat Wave Preparedness & Resilience" by Sphere India and IITR - ICARS

09.04.2025, Virtual

A National Consultation on heatwave preparedness was organized which brought together experts, practitioners, and key stakeholders to reflect on critical lessons from the 2024 heatwave season. It discussed emerging challenges and shared best practices related to heatwave risk reduction, early warning dissemination, public health response and community-level preparedness. The consultation emphasized the need for coordinated efforts across sectors to enhance adaptive capacities and build long-term resilience against extreme heat events, especially in vulnerable regions.





Workshop on "Fire Awareness and Preparedness" during National Fire Service Week 2025 in collaboration with the Association of Occupational & Environmental Health and Avoidable Deaths Network

19.04.2025, Virtual

In observance of National Fire Service Week 2025, a workshop on "Fire Awareness and Preparedness" was organized in collaboration with the AOEH and ADN. The event was held under the patronage of Prof. K.K. Pant and convened by Prof. Anil Kumar Gupta. The workshop adopted an integrative approach, addressing both practical dimensions and policy-oriented perspectives of fire safety. Core themes included risk recognition, preventive strategies, emergency response mechanisms, and the critical importance of institutional preparedness. In parallel, the discourse underscored the role of community engagement and volunteerism as components in enhancing societal resilience and fostering a sustained culture of safety. The workshop witnessed the participation of 65 attendees, making it a platform for knowledge exchange and learning.

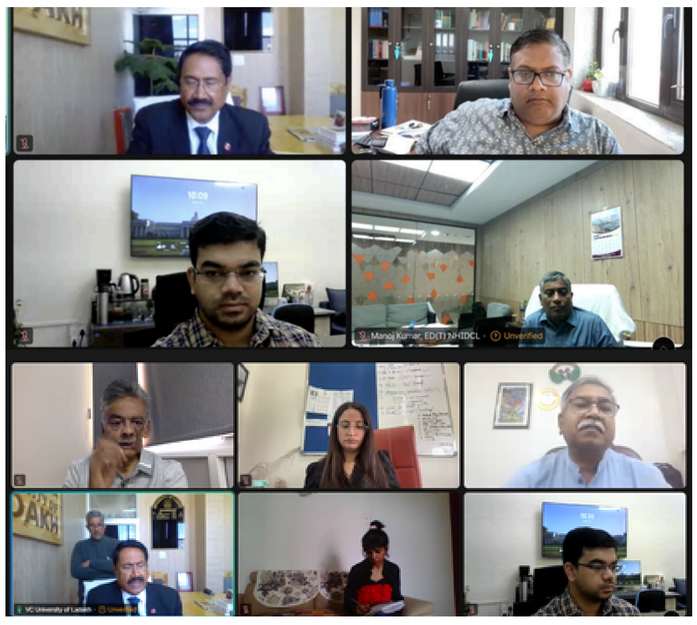
National Consultation Meeting on Deliverables of ICARS

07.05.2025, IIPA, New Delhi

The consultation meeting centered on key discussions related to deliverables of ICARS, including the Conceptual Framework for the Adaptation, Resilience, and Sustainability (ADRES) Network, India Adaptation Dossier 2024, Disaster Research Agenda and Framework (2025–2050), and Disaster Risk Resilience and Recovery Report 2024. These core initiatives were complemented by discussions on the Capacity Needs and Gaps Analysis (CNA), and the Training Needs Analysis (TNA), along with the development of a Competency Strategy. The consultation witnessed active participation of 63 dignitaries and subject-matter experts from leading institutions such as DST, MoES, IMD, NIH, MoRTH, CSIR, IITR, NEERI, ICAR, FAO, among others.



Workshop on "Environment Disaster and Infrastructure: Risk and Resilience of Physical Connectivity (Roads) in the Indian Himalayan Region" by IITR-ICARS & G.B.Pant (NIHE)



06.06.2025, Virtual

The workshop focused on the pressing challenge of ensuring safe and sustainable road connectivity in the fragile Himalayan terrain. It highlighted the need for an action-oriented research roadmap for resilience across the Himalayan states, emphasizing hybrid engineering solutions such as gabion walls, slope anchors, bio-engineering measures, and reclaimed-plastic road surfacing. It also underlined the importance of advancing geospatial and digital tools (LiDAR, satellite remote sensing, DEM-based hazard zoning, drone surveys) and predictive models using machine learning and AI, co-developed with IITs and tailored to strengthen infrastructure resilience. A total of 75 participants attended the workshop.

Skill Enhancement

Training program on "Training Needs Assessment (TNA), Design of Training (DoT) & Systematic Approach to Training (SAT)"

15.06.2025 – 17.06.2025, IITR, Gr. Noida Campus



A 3-day training program on Training Needs Assessment (TNA), Design of Training (DoT), and Systematic Approach to Training (SAT) was conducted at IITR-ICARS. A total of 12 team members from ICARS participated in the training and gained valuable insights and hands-on experience. The sessions equipped participants with practical tools to identify skill gaps, design competency-based curricula, and develop a sector-wise structured framework for effective training delivery and evaluation. The training also fostered cross-sector collaboration and laid the foundation for developing impactful, scalable, and sustainable training programs that strengthen institutional capacity and resilience. The event was organized by IITR-ICARS and facilitated by Prof. Ajay Bhardwaj, a DoPT, GoI-certified trainer and key faculty member.

Capsule course on "Disaster mitigation and management" at National Institute of Training for Standardization (NITS), Bureau of Indian Standards (BIS)



25.06.2025 – 26.06.2025, NITS, Noida, Uttar Pradesh

A 2-day capsule course at National Institute of Training for Standardization (NITS), Bureau of Indian Standards (BIS) on Disaster mitigation and management. The course offered valuable insights into the role of standardization in disaster risk reduction. It focused on key Indian Standards (IS) related to Cyclone, Earthquake, Lightning, Landslide and Emergency Management. The course was attended by Ms. Alpna (JRF, ICARS).

Recognition & Rewards

MoU signed between ICIMOD and IIT Roorkee for cooperation with IITR - ICARS

02.05. 2025, New Delhi



International Centre for Integrated Mountain Development (ICIMOD) has signed a Memorandum of Understanding (MoU) with IIT Roorkee for cooperation with Integrated Centre for Adaptation, Disaster Risk Resilience & Sustainability (ICARS). This collaboration will focus on strengthening cooperation in disaster risk reduction and climate adaptation across the Hindu Kush Himalaya, with special emphasis on the Indian Himalayan Region (IHR). ICIMOD recently launched the HKH DRR Knowledge Hub where IITR-ICARS was designated as the India focal point. The partnership aims to promote joint research, knowledge sharing, and capacity building to address pressing challenges of climate change and resilience, fostering sustainable solutions for mountain communities.

ICIMOD appointed Professor Anil Kumar Gupta as "Senior ICIMOD Fellow-Disaster Risk Reduction"



27.06. 2025, Nepal

An honorary position of "Senior ICIMOD Fellow - DRR" has been awarded to Prof. Anil Kumar Gupta, Professor-WRDM, PI-ICARS, IITR at the International Centre for Integrated Mountain Development (ICIMOD). In this role, he will contribute his expertise on Disaster Risk Reduction (DRR), strengthening regional collaboration and advancing resilience across the Hindu Kush Himalaya region.

Collaborative Exploration

Visit of Director & Co-Founder, Native Foodscape Foundation

23.04.2025



Dr. Chubbamenla Jamir, Director and Co-Founder of the Native Foodscape Foundation, visited IITR-ICARS. The interaction led to valuable perspectives on how native foodscapes can contribute to climate resilience, community health, and sustainable livelihoods. Her insights emphasized the importance of integrating traditional knowledge with modern scientific approaches for building resilient and inclusive food systems. The visit served as an enriching opportunity for dialogue, exchange of ideas, and exploring future collaborations in the areas of sustainable agriculture, food security, and community resilience.

Visit of Director, CoE for NRM & Sustainable Livelihoods, Meghalaya Basin Development Authority (MBDA)

24.04.2025

Dr. Subhash Ashutosh, Director of the CoE for Natural Resource Management and Sustainable Livelihoods, MBDA, visited IITR-ICARS, to explore avenues for collaboration. The discussions centred on developing a proposal on Nature-Based Solutions (NbS) as effective climate adaptation measures in Meghalaya. Following this, the ICARS team has submitted a concept proposal to initiate joint work on this important theme, marking a step toward strengthening partnerships for sustainable and resilient solutions.



Collaborative visit with CEO, Mobius Foundation

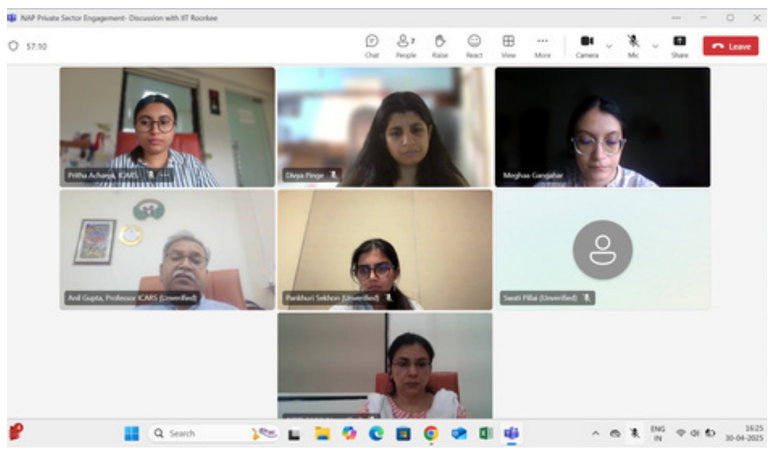
25.04.2025

Dr. Ram Boojh, CEO of Mobius Foundation, visited IITR-ICARS to explore potential areas of collaboration. The discussion focused on joint efforts for impactful and sustainable development initiatives, aligned with shared goals for a greener and more resilient future. A key outcome of the meeting was to develop a joint proposal for UNESCO Chair, which aimed to advance research, education, and policy in the field of sustainability and climate resilience.

Meeting on NAP Private Sector Engagement- Discussion with CPI Global

30.04.2025, Virtual

A brief consultation with CPI Global focused on enhancing private sector engagement in climate adaptation and identifying ways to make the National Adaptation Plan (NAP) more inclusive by integrating localized adaptation strategies led by private stakeholders to strengthen climate resilience at the community level.





Visit of Consulting Advisor, Uttarakhand Council for Science & Technology (UCOST)

02.05.2025

Dr. Prahlad Adhikari (Consulting Advisor, UCOST) and Prof. P. K. Joshi (Prof. SES, JNU) visited IITR-ICARS, for collaborative discussions with Prof. Anil K. Gupta and the research team. The discussion centred around strategic planning for the upcoming World Summit on Disaster Management 2025, with a focus on fostering joint research publications and strengthening partnerships in the area of DRR. The strategic conversation provided a valuable platform for emphasis on advancing Himalayan DRR policy frameworks and the pivotal role of science and technology in enhancing regional resilience.

Meeting with Director General of Fire Services, Civil Defence and Home Guards

08.05.2025



A meeting was held with Shri Vivek Srivastava, IPS, DG-Fire Services, Civil Defence and Home Guards at Headquarter office, R.K. Puram, New Delhi. Collaborative opportunities between government bodies and research institutions were emphasized during the meeting, with the Volunteer for Fire Fighters proposal identified as a pathway to strengthen joint initiatives. It also proposed to setup a fire safety lab at IITR-ICARS, Gr. Noida campus.



Meeting with Program Director, Community Development and Sustainability Organization (CDS), Kenya

21.05.2025, Virtual

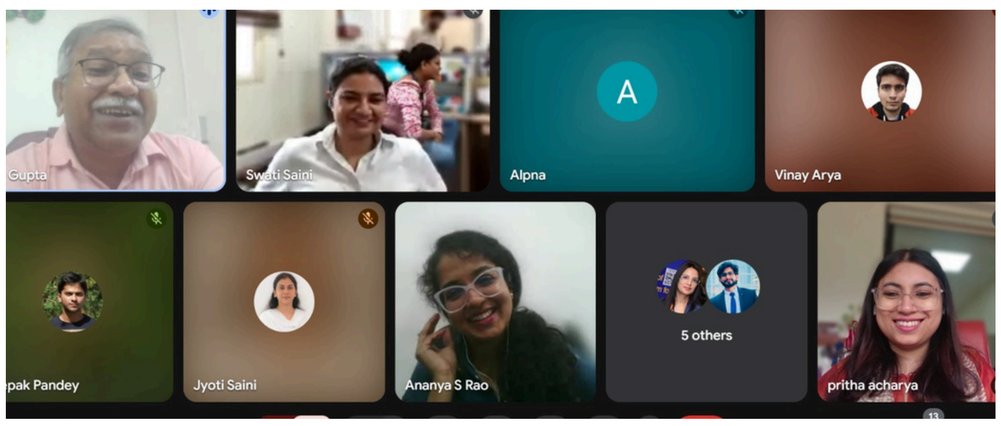
The meeting with Dr. Monica Dongre, Program Director, CDS, focused on exploring opportunities for institutional-level collaboration between the IITR-ICARS and CDS Kenya. The discussions centered on potential joint research proposals, co-hosting workshops, and capacity-building initiatives aimed at advancing shared objectives in Disaster Risk Reduction (DRR), Climate Change Adaptation (CCA), and sustainability. The discussions also considered avenues for IITR–ICARS's possible engagement with the UNESCO SUCN network and for building strategic partnerships with the Global Center on Adaptation.

Delegation from Daikin University, Australia visited IITR-ICARS

29.05.2025

Ms. Gayathri Vedanarayan, Sr. Manager-Research Engagement, South Asia and Krishnan Pallassana, Advisor CoE Strategy, Daikin University visited IITR-ICARS for discussions focused on exploring collaboration opportunities and joint programmes. This provided a valuable platform to exchange ideas on advancing shared goals in the areas of climate adaptation and sustainability. It was proposed that a follow-up meeting with the Vice President-Global Engagement and CEO South Asia, Deakin University, Ms. Ravneet Pawha, to take concrete steps toward establishing an impactful and long-term partnerships.





Meeting with the officials of NITI Aayog

27.06.2025, Virtual

A meeting between NITI Aayog and ICARS-IITR focused on exchanging institutional mandates and exploring future collaboration. The key discussions included adaptation-focused initiatives, joint research opportunities, and aligning thematic priorities to advance science-based policies and impactful actions supporting climate resilience and sustainable development goals.

Participation at International & National Forum



"Dresden Nexus Conference 2025", TU Dresden, Germany

06.04.2025 - 11.04.2025

The Centre for International Postgraduate Studies of Environmental Management (CIPSEM) and the Global Water and Climate Adaptation Centre ABCD at TU Dresden, Germany invited the faculty of IITR-ICARS to participate in the Dresden Nexus Conference 2025, Prof. Anil Kumar Gupta, WRDM, PI-ICARS, IIT Roorkee, attended the conference. During his visit, he delivered a thematic lecture at the School of Civil & Environmental Engineering. He also held collaborative meetings focused on strengthening Indo-German cooperation in climate adaptation, water resilience, and sustainable development. A key outcome of these discussions was the proposal to jointly organize a Winter School at the ICARS Centre in India, promoting interdisciplinary learning and international academic exchange.

Sagarmatha Sambaad on "Climate Change, Mountains, and the Future of Humanity" at Kathmandu, Nepal

16.05.2025 – 18.05.2025



IITR-ICARS marked its presence at the high-level session of the Sagarmatha Sambaad - a knowledge forum on Himalayan Sustainability. Prof. Anil K. Gupta has been invited by the Minister for Environment, Government of Nepal, as a speaker on DRR strategies in context of unique vulnerabilities of mountain ecosystems and the urgent need for collective action. The session outcomes emphasized the necessity of fair, timely, and accountable climate finance, together with the creation of tailored response mechanisms to support mountain communities confronting escalating and often irreversible climate-induced loss and damage. By aligning local priorities with global climate agendas, the discussions concluded with a strong call to strengthen resilience, foster climate justice, and ensure a sustainable future for humanity through mountain-sensitive climate action.

Regional workshop on “National Adaptation Plan (NAP) for Climate Change", organized by MoEFCC with the State of Nagaland and GIZ at Dimapur

15.04.2025 - 16.04.2025



A regional workshop on India’s forthcoming National Adaptation Plan (NAP) for climate change was held in Dimapur, Nagaland, organized by the MoEFCC, the State of Nagaland, and GIZ. The event brought together community members, policymakers, and experts from across the Northeast to discuss forest conservation, ecosystem-based adaptation, and community resilience. ICARS-IITR was invited to participate as moderator of the session on disaster resilience and infrastructure’s impact on human lives and health, with Prof. Anil Kumar Gupta leading the presentation and discussions. The workshop underscored the importance of traditional knowledge, inter-agency collaboration, and innovative financing in shaping an inclusive and effective NAP for a sustainable and climate-resilient India.

“National Adaptation Plan Writeshop”, organized by MoEFCC at New Delhi

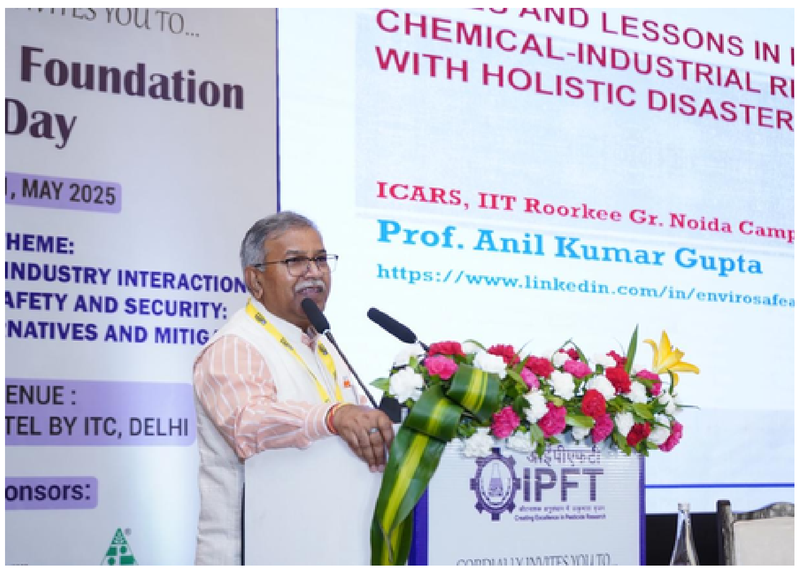
19.05.2025 – 20.05.2025



ICARS participated in the 2-day writeshop on India’s National Adaptation Plan (NAP) as the anchoring institute for the Disaster Management and Infrastructure Resilience (DMIR) sector. The workshop aimed to finalize the first draft of the NAP by consolidating sectoral and cross-sectoral chapters, aligning them with national priorities and global commitments under the UNFCCC. Key discussions addressed implementation strategies, institutional frameworks, and monitoring mechanisms of the GCF-supported NAP project. Representatives from nine sectoral nodal and anchoring institutions participated. From ICARS, the Prof. Anil K Gupta (PI, Adapt-DMIR), Ms. Pritha Acharya (PS–II), and Ms. Jyoti Saini (RA) attended the meeting.

Symposium cum Industry Interaction on “Chemical Safety and Security: Importance, Alternatives and Mitigation”, organized by IPFT & NACS at Gurugram, Haryana

30.05.2025 - 31.05.2025

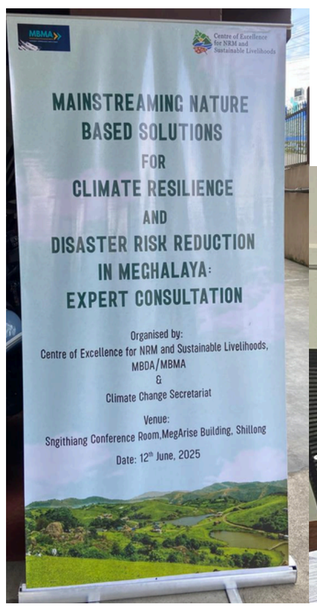


Prof. Anil Kumar Gupta, was invited to deliver a distinguished lecture titled “Issues and Lessons in Integrating Chemical-Industrial Risks Management with Holistic Disaster Risk Reduction.” The presentation highlighted critical challenges and best practices in harmonizing chemical risk management within the broader framework of disaster resilience. The event provided a platform for industry experts, policymakers, and academia to engage in dialogue on advancing chemical safety and security through innovative risk management and disaster risk reduction strategies. Being the knowledge partner of the symposium, IITR-ICARS contributed valuable expertise and research support towards fostering safer industrial practices and systemic risk mitigation.

"Nature based Solutions" strategic meeting at Shillong, Meghalaya

11.06.2025

A strategic meeting on Nature-Based Solutions (NbS) was held in Shillong, Meghalaya, where IITR - ICARS presented its previously submitted proposal and concept note focused on integrating NbS into climate adaptation and disaster risk reduction strategies. The proposal is currently under consideration by the Meghalaya Basin Development Authority (MBDA) and the Meghalaya State Disaster Management Authority (MSDMA). The meeting marked a key step toward collaborative efforts for sustainable and resilient development in the region.







4th High-Level Meeting of the Sikkim Commission on Glacier Hazard at Gangtok, Sikkim

18.06.2025 - 22.06.2025

The meeting focused on advancing the state's efforts to address glacial risks, particularly Glacial Lake Outburst Floods (GLOFs). The inputs from chairman and expert committee member, a Detailed Project Report (DPR) and a preliminary policy roadmap were presented before Hon'ble Chief Minister Prem Singh Tamang (Golay), outlining key strategies for monitoring, mitigation, and early warning systems in vulnerable regions. The meeting marked a significant step toward building climate resilience in the Eastern Himalayas, with the Commission expected to submit its final recommendations later this year to guide long-term glacier hazard management in Sikkim.

ICARS-IIT Roorkee participates in the 33rd Scientific Advisory Committee Meeting at G.B.Pant (NIHE), Almora

23.06.2025

The 33rd Scientific Advisory Committee (SAC) Meeting of the G.B. Pant National Institute of Himalayan Environment (NIHE) was convened on 23rd June 2025 at Kosi-Katarmal, Almora. Prof. Anil Kumar Gupta, Professor and Investigator, IITR-ICARS, participated in the meeting as a member of the Scientific Advisory Committee. During the deliberations, Prof. Gupta shared ICARS ongoing research perspectives and field experiences in climate resilience, ecosystem-based approaches, and community-centered adaptation planning. His contributions helped align the Institute's research priorities with actionable strategies for sustainable development in the Indian Himalayan Region. The meeting outcomes emphasized the importance of cross-institutional collaboration and knowledge exchange.



Publications

Research Papers

1. Saini, J., Shrivastava, A., Dhupper, R., & Gupta, A. K. (2025). Climate vulnerability and resilience in Peri-urban settings of Dehradun city in Uttarakhand, India: spatio-temporal and perception analysis. Environment Conservation Journal, 26(2).

2. Shalwee, R. D., Kumar, D., Gupta, A. K., & Nagdev, R. (2025). Spatiotemporal Assessment of Agricultural Drought using Satellite-derived Indices. Journal of the Indian Society of Soil Science, 73(1), 13-21.

Book Chapters

1. Saini, K. V., & Gupta, A. K. (2023, November). Global Disaster Risk Reduction Strategies. In International Conference on Advances in Health, Safety, Fire, Environment, Allied Sciences and Sustainability (pp. 373-388). Singapore: Springer Nature Singapore.

2. Saini, J., Gupta, A. K., Shrivastava, A., & Tiwari, M. (2025). Spatio-Temporal Analysis of Urbanization Impact on Temperature Rise: Pathway to Sustainable Future for Gurugram City, Haryana, India. In Green Equilibrium: Deciphering Earth's Ecosystems for Sustainable Tomorrow (pp. 341-355). Singapore: Springer Nature Singapore.

Book Chapters

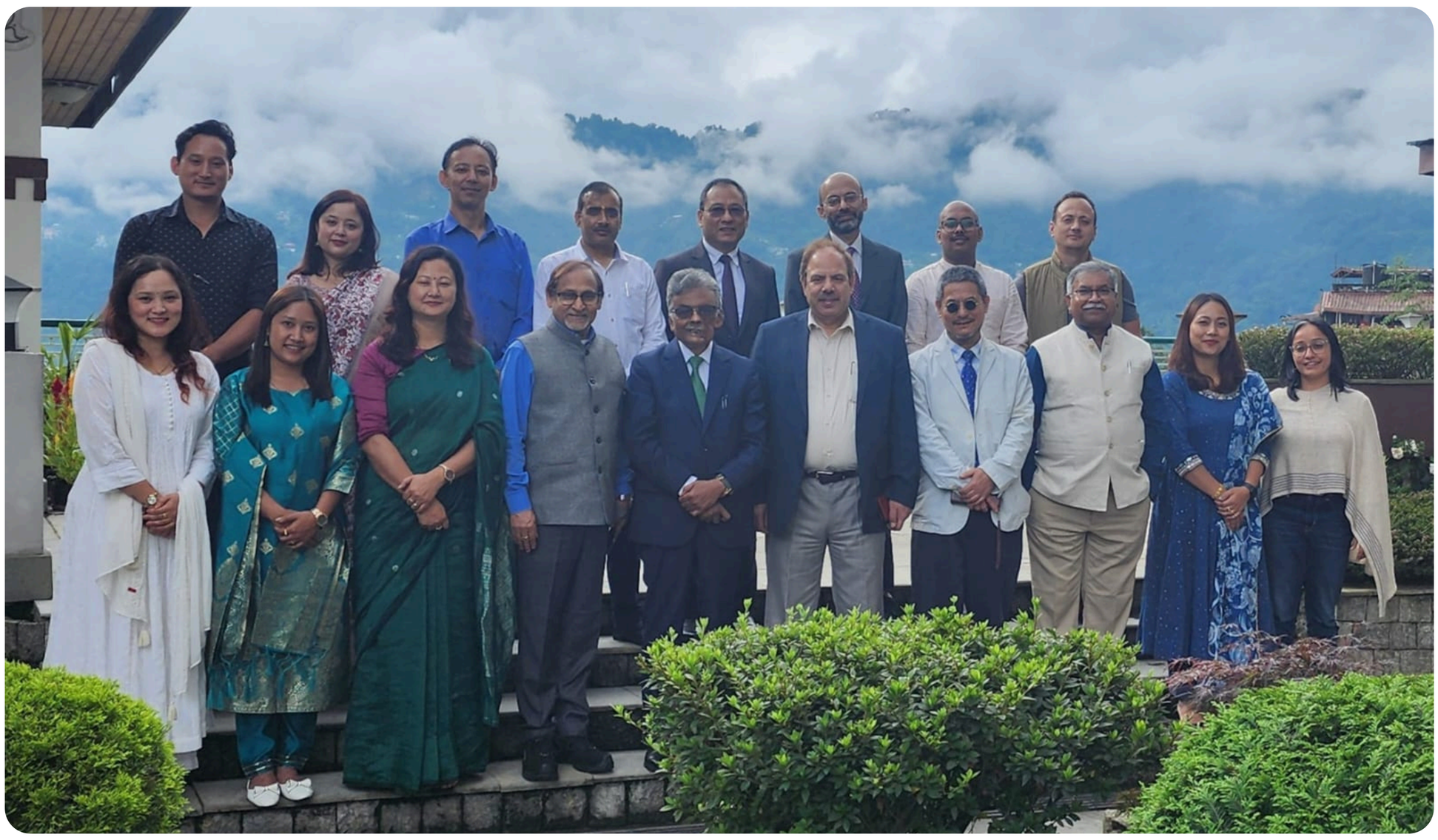
3. Hodam, S., Srivastava, R., & Gupta, A. K. (2023, November). Nature-Based Solutions for Drought Mitigation. In International Conference on Advances in Health, Safety, Fire, Environment, Allied Sciences and Sustainability (pp. 287-300). Singapore: Springer Nature Singapore.

4. Tiwari, S., Amin, F., & Gupta, A. K. (2023, November). Blending Indigenous and Scientific Knowledge for Effective Risk Reduction. In International Conference on Advances in Health, Safety, Fire, Environment, Allied Sciences and Sustainability (pp. 301-317). Singapore: Springer Nature Singapore.

5. Sood, A., Pathare, G., Sinha, S., & Gupta, A. K. (2025). Cost-Effective Measures of Fog Remediation and Control: Mitigation of Health Impacts and Safety Risks. In Fog: Formation, Chemistry, Dynamics, Impact and Dissipation (pp. 201-223). Singapore: Springer Nature Singapore.

6. Saxena, P., Gupta, A. K., & Sorí, R. (2025). An Introduction to Fog: Formation, Chemistry, Dynamics, Impact and Dissipation. In Fog: Formation, Chemistry, Dynamics, Impact and Dissipation (pp. 1-7). Singapore: Springer Nature Singapore.





Monthly Feature

Our Planet, Our Responsibility

On June 5th, the world celebrates World Environment Day, a reminder of our collective duty to protect the planet we call home. This year's theme, "Beat Plastic Pollution" draws attention to one of the most urgent environmental challenges of our time. Plastic waste has seeped into every corner of the Earth from oceans and rivers to the food we eat and the air we breathe. While its convenience is undeniable, its impact is devastating, threatening ecosystems, human health, and climate resilience. From reducing single-use plastics to adopting sustainable packaging, recycling innovations, and community clean-up drives, we have countless ways to reduce our plastic footprint.

India, with its rich traditions of sustainable living, can play a pioneering role in this movement. From clay pots and leaf plates to cloth bags and natural fibers, our cultural practices reflect eco-friendly alternatives that can inspire global change. Reviving such practices alongside modern innovations offers a practical path to reducing our dependence on plastics. Community-led initiatives, youth-driven campaigns, and local innovations are already proving that change is possible when awareness translates into action.

Ultimately, beating plastic pollution requires collective responsibility from individuals and communities to industries and policymakers. On this World Environment Day, let us commit to rethinking our consumption patterns, embracing sustainable alternatives, say no to single-use plastics, and working together to create a future where plastic no longer threatens the balance of life on Earth. Together, we can turn the tide and beat plastic pollution for a cleaner, healthier, and more resilient planet.



Integrated Centre for Adaptation to Climate Change, DRR and Sustainability (ICARS) is the recent establishment of Department of Science and Technology (DST), Govt. of India jointly with IIT Roorkee at Greater Noida campus, with strategic and knowledge integration mandates. The centre aims to promote “Capacities and Public-Policy for Resilience and Sustainability (CAPP-RES) in Multi-Hazard Environment” through policy-linked research, action research and knowledge integration under the broad mandates of the National Mission on Strategic Knowledge for Climate Change (NMSKCC), facilitated through Department of Water Resources Development and Management, IIT Roorkee. This is an unique institution established on integrated and holistic coverage of DRR and Adaptation. ICARS promotes professional advances, leadership, and supports policy-planning, capacity building and localization of resilience agenda. ICARS is a National Anchoring Institute of MoEFCC for National Adaptation Plan for Disaster Management and Resilient Infrastructure. ICARS is designated as a India Focal Point for Hindu Kush Himalaya DRR Knowledge Hub, and also a selected professional member of UNDRR's Santiago Network for L&D through ADN.



समयुक्ति ICARSS
IIT Roorkee - Gr. Noida Campus (NCR), India