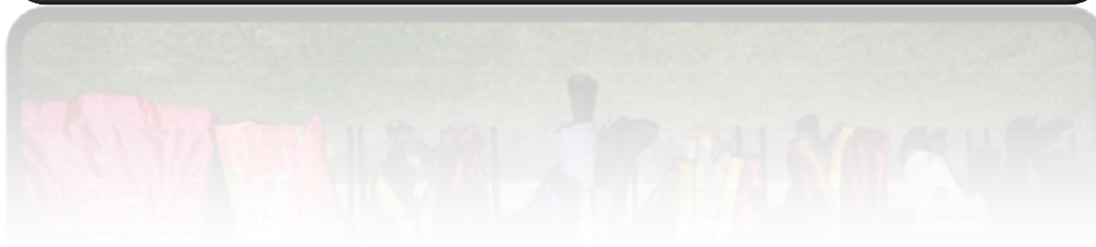


December 2018

Progress report of Coca-Cola Department of Regional Water Studies

Progress report
October 1- December 31, 2018



Highlights

This report gives information related to the activities of the Department carried out during October 1-December 31, 2018. These activities include:

- Events/Seminars/Workshops/Meetings
- Research Publications
- Convocation

1 Events/Seminars/Workshops/Meetings

1.1 Workshop on Gender Mainstreaming in Climate Change Mitigation held on 25 October 2018 at India Habitat Centre

Dr. Fawzia Tarannum was a panelist on the discussion on “Mainstreaming women into Development Policy in India with mitigation co-benefits” in the Workshop on Gender Mainstreaming in Climate Change Mitigation held on 25 October 2018 at the India Habitat Center. The workshop was part of a project at TERI, funded by the Norwegian Ministry of Foreign Affairs on “Gender Mainstreaming in Climate Change Mitigation Policy”.

1.2 Research Forum and Breakaway Sessions on Water and Sanitation and Gender Equality 1-3 Nov 2018 during Climate Jamboree at Thyagaraj Stadium, New Delhi.

The Department of Regional Water Studies steered a three-day session on the Research Forum during Climate Jamboree held at the Thyagaraj Stadium during 1-3 Nov 2018. The aim of the research forum was to offer an opportunity to the youth to be exposed to sustainability issues, while developing research skills and to further encourage a network of students/future professionals and academics working on sustainable development. The department also lead two breakaway sessions on water and sanitation and gender equality wherein issues, challenges and solution related to the subject were deliberated with the youth and the findings were finally shared



during
the
youth
forum.



1.3 Paper presented in an International Conference during 5-6 November 2018

The PhD student *Ms. Sudeshna Maya Sen*, presented paper on 'Using problem and solution tree (PAST) to identify options for water security in Indian Himalayas' and the abstract was published in conference proceeding at 2018 International Workshop for Young Scientists of the Hindu Kush Himalaya co-organized by the University of Chinese Academy of Sciences (UCAS), The Institute of Mountain Hazards and Environments Chinese Academy of Sciences (IMHE), the Himalayan University Consortium (HUC), and International Centre for Integrated Mountain Development (ICIMOD), as a session of the Belt and Road Forum, CAS, Beijing, China, during 5-6 November 2018.



1.4 Hindu Kush Himalaya Science Policy Forum: Actions to Sustain a Global Asset on 13- 14 Nov 2018 at ICIMOD, Kathmandu

Dr. Fawzia Tarannum participated in the Hindu Kush Himalaya Science Policy Forum: Actions to Sustain a Global Asset on 13- 14 Nov 2018 at ICIMOD, Kathmandu. During the first HKH Science-Policy Forum, think-tanks, senior experts and high-level decision makers from the region discussed the key findings of the Hindu Kush Himalayan Assessment study, debated and validated the Assessment's Call to Action and charted a way forward for more robust regional cooperation around mountains and downstream areas to sustain this globally critical region. The forum brought together over 80 regional and international stakeholders, including governments, high-level dignitaries, experts and development partners.



1.5 Key note speaker in conference on Water-Energy nexus at Italy, November 14-17, 2018:

www.terisas.ac.in



Prof. Arun Kansal visited Italy, as Key note speaker in conference on Water-Energy nexus during November 14-17. He spoke on the topic: Metabolism approach for food water-energy nexus and problem of shift. In addition, he also chaired technical sessions in the conference

1.6 NIH-UNESCO training on "IWRM, Water Security and Climate Change for Developing Economies" at NIH, Roorkee on 15-16 November 2018

Dr. Fawzia Tarannum delivered a talk on “Role of Education in Integrated Water Resources Management” at the 2-day training course on "IWRM, Water Security and Climate Change for Developing Economies" organized by NIH-UNESCO at NIH, Roorkee on 16 Nov 2018. The training was conducted for entry and mid-level hydrologists and water development practitioners, policy makers and professionals in government, NGO and implementing agencies and consultants as well as for researchers from Bangladesh, Bhutan, India, Maldives, Nepal, and Sri Lanka.

1.7 Farewell to a faculty of our Department:

One of our faculty members, Dr. Nirupam Datta left TERI SAS due to some personal reasons. His last working day at TERI SAS was on November 3, 2018. He took Water Economics and Water resources - Institutions and governance courses in our department.



1.8 Talk on Energy and Climate Change at the Pathways School, Gurugram on 03 Dec 2018

Dr. Fawzia Tarannum delivered a talk on Energy and Climate Change at the Pathways School, Gurugram on 03 Dec 2018 as part of the School University Network Programme.



1.9 Climate Reality Watch Party – 04 Dec 2018 hosted by TERI SAS and Climate Reality India

TERI SAS in association with The Climate Reality India hosted the 24 Hours of Reality Watch Party on 4 Dec 2018. The event was hosted by former US Vice President Al Gore and The Climate Reality Project, the 24 Hours of Reality broadcast travelled around the world, each hour, highlighting the inspiring stories of climate activism from 24 countries from six regions. Alongside these stories, Vice President Gore shared the latest from the frontlines of climate impacts and action in each region including India, while leaders from business, policy, culture, and science joined for thought provoking discussion. Dr. Fawzia Tarannum was one of the speakers at the event.

1.10 Annual Conference of Good Rural Governance and Citizen Participation on the theme of “Village level water management - community participation and convergence of village institutions ” on Dec 7, 2018, organized by Sehgal Foundation.



Dr. Fawzia Tarannum delivered a talk on “Participatory Water Governance” during the 8th annual Conference of Good Rural Governance and Citizen Participation on the theme of “Village level water management - community participation and convergence of village institutions ” on Dec 7, 2018. The objectives of the conference were to promote engagement among different stakeholders on community participation in village level water management, conserving and distributing water equitably, generating discussion on water security and safety plan and innovations in water management.

1.11 School University Network Event on Energy and Climate Change and Waste to Resource for The Shri Ram School on 11-12 Dec 2018

The TERI School of Advanced Studies, as part of the School University Network (SUN) Program hosted 211 students and 15 teachers from the Shri Ram School Vasant Vihar, New Delhi. The event



was conducted as part of the Mad About Environment month being observed by the school. The themes for the event were “Energy and Climate Change” and “Waste to Resource”. The students were given the Campus tour and the features of a green building were explained in real-time. They also dirtied their hands by learning how to compost at a household level and convert empty plastic bottles into pots.

1.12 Workshop on Art and Sustainability with focus on Air and Water pollution on 17 Dec 2018 in association with Center for New Perspectives for street performers

The workshop on Art and Sustainability was organized in partnership with Center for New Perspectives on 17 Dec 2018. The workshop

was primarily on Air and Water pollution, offering solutions and ways of reducing and preventing the problem in the future. The workshop was conducted by Dr. Fawzia Tarannum and attended by 9 Artists from the following communities- Bahurupiya (Impersonators) – 2 , Puppeteers – 3, Saperas (Erstwhile Snake Charmers who now work as folk musicians) – 2, Magicians – 2 and Dr. Sayeed Alam, a well-known Theatre Director. It was



agreed that the Centre for New Perspectives will form a consortium with TERI SAS as knowledge partners and with Sayeed Alam as Theatre Director for creating a cadre of ‘Green Performers’ for awareness and entertainment using the knowledge gained at the workshop as content.

1.13 Management Development Programme on Gender, Equity and Water Management at Haryana Institute of Public Administration on 19-20 Dec 2018

A two-day Management Development Programme on Gender Equity and Water Management aimed at building the capacity of fresh and mid-career professionals from the

www.terisas.ac.in



Government of India, NGO and Academia to chalk out future directions in understanding and analysis of water inequalities specifically incorporating the gender component and the role of women was jointly organized by TERI School of Advanced Studies (TERI SAS), ICE WaRM and Haryana Institute of Public Administration (HIPA) Gurugram on 19-20 Dec 2018. The defining image of gender and water is of a forlorn lady walking with a pot filled with water on her head - the symptoms are an indication of deeper malaise.

2 Research Publications

2.1 Research Article published in the Journal of Environmental Management:

The PhD student *Ms. Sudeshna Maya Sen* published a research article in the journal of Environmental Management. The journal publishes peer reviewed, original research for all aspects of management and the managed use of the environment, both natural and man-made. One of the co-authors of the article is Dr. Arun Kansal. The study in the paper identified some new but missing actors/actor groups that were critical to managing springs; showed that although state governments continue to play a dominant role, decision making is shifting to non-state and local actors; and highlighted the importance of exchanging knowledge and information in implementing a policy more effectively.

Environmental Management
<https://doi.org/10.1007/s00267-018-1128-0>



Analyzing Social Networks to Examine the Changing Governance Structure of Springsheds: A Case Study of Sikkim in the Indian Himalayas

Sudeshna Maya Sen¹ · Aprajita Singh¹ · Navarun Varma² · Divya Sharma¹ · Arun Kansal¹

Received: 9 April 2018 / Accepted: 2 December 2018
© Springer Science+Business Media, LLC, part of Springer Nature 2018

Abstract

The governance of natural resources now attracts greater participation of different stakeholders, ushering in a shift from conventional governance by the state to that by a network of stakeholders—a form of governance marked by a growing role of non-state and local actors. These changing dynamics are highlighted through a study of the governance network for springsheds in the Indian Himalayas by empirically mapping the changes in the *Dhara Vikas Yojna*, a plan or scheme (*yojana*) by the state for the development (*vikas*) of springs (*dhara*) in Sikkim, India, from policy planning to policy implementation. The study highlights the diverse existing and emerging roles of different stakeholders, the complex relationships between them, and the power dynamics that influence the management of springsheds. The study (1) identified some new but missing actors/actor groups that were critical to managing springs; (2) showed that although state governments continue to play a dominant role, decision making is shifting to non-state and local actors; and (3) highlighted the importance of exchanging knowledge and information in implementing a policy more effectively. Understanding the characteristics of the governance network helped in drawing lessons to make the plan more sustainable and replicable, which include considering the policy in the wider context of policies for other sectors such as sanitation and hydropower development, incentivising the emerging actors, and building a stronger interdisciplinary and inclusive knowledge network. Such an integrated approach to policymaking can also be adopted to analyze governance networks related to natural resources other than water.

Keywords Multi-stakeholder governance networks · Actors and relationships · Sikkim · Power dynamics in governance · Indian Himalayan Region

3 Convocation

The convocation ceremony for the third batch students was held on **November 15, 2018**. The 15 students from the third batch were awarded the degrees.

