



2015 ProSPER.Net Young Researchers' School

'Sustainable Energy for Transforming Lives: Availability, Accessibility, Affordability'

TERI University, New Delhi, India

01 to 12 February, 2016

Programme

General description:

- The aim of the researchers' school is to offer an opportunity for students 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 programme shall provide the following:
 - specific knowledge regarding the theme;
 - opportunities for research skills development, including research communication skills through activities such as the 3-minute thesis competition¹ and Our World² workshop. The aim is to help students frame their research in a simplified manner and thus reach broader audiences;
 - interaction among participants and resource persons through group activities and field trips, that will provide context and content for students to develop a research proposal looking at how different policies and projects can be interlinked and provide integrative solutions for various sustainability challenges.
- Resource persons' lectures will be split between introductory and methodological themes prior to the fieldtrips and analytical/synthesizing themes after the fieldtrips to aid the students in the development of their research proposal.

Practical considerations:

- There are two sessions in each morning and afternoon period. A 15 minute break will take place between each activity.
- A core team of 4-5 resource persons shall participate in the entire programme, to coordinate activities, facilitate group work sessions and take the responsibility of any decisions during the delivery of the researchers' school.

¹ The 3-minute thesis competition is an activity whereby researchers present an outline of their research in three minutes using 1 slide. It is aimed at an educated but non-specialist audience and graded according to three criteria: clarity of presentation, comprehension and the engaging nature of the research.

² Our World is UNU's web magazine, an online publication with contributions from a wide range of academics, researchers and students, where it is possible to disseminate their work, including their thinking, solutions and innovative approaches to global challenges of climate change, food, biodiversity and oil. For more information, see <http://ourworld.unu.edu>.

- In view of previous years' experience, lecture slots are scheduled for 90 minutes in total including presentation, questions and general discussions.
- 3 field trips are scheduled around the themes of energy.

Programme:

Sunday 31 Jan 2016

Arrival

01 Feb Monday	Time		Activity	Presenter
	9:00-9:30	30'	Registration	
	9:30-10:00	30'	Opening Ceremony Welcome remarks	- Dr. Rajiv Seth, Acting Vice Chancellor, TERI University - Prof Mario Tabucanon, UNU-IAS
	10:00-10:45	45'	Keynote Address and addresses by eminent speakers on the theme	- Dr Ajay Mathur, D.G Designate, TERI - Dr Upendra Tripathi Secretary, Ministry of New and Renewable Energy (MNRE) - Prof Arun Kansal
	10:45-11:00	15'	Tea break	
	11:00-12:30	90'	Panel discussion – Sustainable energy for transforming lives	Chair: Mr Amit Kumar, Dean, Distance and Short- term Education Programme, TERI University Panelists: - Mr. Raghunath Mahapatra, Vice President, Strategy, Welspun Energy - Dr P C Maithani, Director, MNRE - Debajit Palit, Associate Director, Social Transformation, TERI - Ms. Disha Banerjee Director, Policy and Communication Smart Power India
	12:30-13:30	60'	Lunch	
	13:30-14:00	30'	Programme Introduction	Prof Mario Tabucanon, UNU-IAS Fawzia Tarannum
	14:00-15:30	90'	Movie 1- “Off-grid Access System in South Asia” – The film chronicles different models of off-grid electrification that were implemented /supported by TERI in different geographies. Discussion	Debajit Palit, Associate Director, Social Transformation, TERI

	15:30-15:45	15'	Tea Break	
	15:45-17:15	90'	Movie II Fuelling Change/ Renewing India: Renewable Energy in India Discussion	TERI and TU
	17.15	15'	Close	

02 Feb Tuesday (Preparing for the first Field Trip)	Time		Activity	Presenter
	09:15-10:45	90'	Lecture 1: Linking energy crisis with Climate Change	Dr. Ritu Mathur, Director, Green Growth and Resource Efficiency, TERI
	10:45-11:00	15'	Tea break	
	11:00-12:30	90'	Lecture 2: Energy Security- Global and local Challenges	Mr. Anil Kumar Jain, Advisor, NITI (National Institution for Transforming India) Aayog, Government of India
	12:30-14:00	90'	Lunch	
	14:00-15:30	90'	Lecture 3: Energy Accessibility and socio-economic impact	Mr Martand Shardul, Associate Fellow Social Transformation, TERI
	15:30-15:45	15'	Tea break	
	15:45-17:15	90'	Lecture 4: Energy efficient Stoves and Lighting a billion lives initiative of TERI	Mr Martand Shardul, Associate Fellow Social Transformation, TERI
	17:15-17:30	15'	UN Sustainable Development Solutions Network (SDSN) South Asia Regional Center – A brief insight	Mr Siamak Sam Loni, Global Coordinator, Sustainable Development Solutions Network, Youth Initiative (SDSN-Y)
	17:30		Close	

03 Feb Wednesday Field trip 1, TERI Campus in Gawal Pahari & National Institute of Solar Energy (NISE)	Time		Activity	Presenter
	09:30		Departure	
	10:30-11:00		Welcome and opening remarks – Contribution of TERI towards sustainable energy	Mr Amit Kumar, Dean, Distance and Short-term Education Programme, TERI University
	11:00- 13:30		Walk around TERI Campus and live demonstration of TERI's initiatives <ul style="list-style-type: none"> ▪ Solar Lanterns ▪ Solar water heaters ▪ Photovoltaic panels ▪ Biomass Gasifier ▪ Underground earth tunnels ▪ Energy-efficient lighting ▪ Waste-water recycling ▪ Biogas Plant 	Mr. Suresh, Facility Manager TERI, Gawal Pahari Mr. N. K Ram, Fellow, TERI Mr. Alekhya Datta, Associate Fellow, TERI

	13:30-14:30		Lunch	
	14:30-15:00		Travel from Gawal Pahari to NISE	
	15:00-16:30		National Institute of Solar Energy (NISE) Gurgaon (Govt of India's initiative) <ul style="list-style-type: none"> • Grid and off-grid solar systems Thermal , Photovoltaic • Solar Biomass Hybrid Cold Storage 	Dr O S Sastry, Director General
	16:30		Departure from Gurgaon	
	17:30 -18:30		Arrival in TERI University Campus Field Trip Synthesis	Prof Mario Tabucanon, UNU-IAS Fawzia Tarannum, TU

04 Feb Thursday	Time		Activity	Presenter
	09:15-10:45	90'	Lecture 5: Research Method (Qualitative)	Dr Smriti Das, Assistant Professor, Department of Policy Studies, TERI University
	10:45-11:00	15'	Tea break	
	11:00-12:30	90'	Lecture 6: Research Method (Quantitative)	Dr Papiya Guha Mazumdar, Assistant Professor, Department of Policy Studies, TERI University
	12:30-14:00	90'	Lunch	
	14:00-15:30	90'	Lecture 7: Reducing energy intensity of the Indian economy -	- Mr. Saurabh Diddi Energy Economist Bureau of Energy Efficiency Government of India - Mr. Rakesh Kumar Choudhary, Deputy Director, MSME
	15:30-15:45	15'	Tea break	
	15:45-17:15	90'	Lecture 8: Energy Use Efficiency	Mr Girish Sethi, Director, IEE, TERI
	17:15		Close	

05 Feb Friday	Time		Activity	Presenter
	09:15-10:45	90'	Lecture 9: Energy Policy and Governance and Q & A	Mr. Rakesh Kacker Director, India Habitat Centre & Former Secretary, Government of India
	10:45-11:00	15'	Tea break	
	11:00-12:30	90'	Lecture10: Economics of Renewable Energy and Q&A	Dr Atul Kumar, Associate Professor, Dept of Energy and Environment, TU
	12:30-14:00	90'	Lunch	
	14:00-15:30	90'	Research proposal development	Prof Mario Tabucanon,

				UNU-IAS
	15:30-15:45	15'	Tea break	
	15:45-17:15	90'	Introduction to three minutes thesis presentation	Mr. Daniel Powell, UNU Media Centre
	17:15		Close	

	Time		Activity	Presenter
06 Feb Saturday Field trip 2 Firozabad/ Agra	06:00		Departure from Hotel Red Fox, New Delhi with packed break fast	-Mr. Ananda Ghosh, TERI -Fawzia Tarannum, TU
	10:00		Arrival at Firozabad Glass Factory	- Mr Daniel Powell, UNU Media Centre -2 to 3 representatives from TU
	12:00		Departure from Firozabad to Agra	-Fawzia Tarannum, TU
	13:30-14:30		Check in at Hotel Sarovar and Lunch	- Mr Daniel Powell, UNU Media Centre
	14:30		Departure from Hotel to Dayalbagh Educational Institute	-2 to 3 representatives from TU
	15:00-17:00		Dayalbagh Educational Institute	Dr. B B Rao, Principal, DEI
	17:00		Return to Hotel Sarovar	Technical College

	Time		Activity	Presenter
07 Feb Sunday	0900		Check out from hotel. Departure from Hotel to Taj Mahal and back to Delhi	
	16:00-17:00		Workshop Session- Synthesis of Field Trip	Mr. Daniel Powell, UNU Media Centre Dr Christopher Doll, UNU- IAS Fawzia Tarannum, TU

	Time		Activity	Presenter
08 Feb Monday Field Trip 3: Visit to Chandigarh – By Bus	06:30		Departure	
	11:30-17:00		-Green Building <ul style="list-style-type: none"> • PEDA-Punjab Energy Development Agency -Energy Efficiency Improvements in Indian Brick Industry <ul style="list-style-type: none"> • Bharat Bricks Factory 	Sachin Kumar, Fellow, TERI Fawzia Tarannum TERI University TU Admin Chris/Ryoko/Daniel
	17:00		Departure from Chandigarh	

	Time		Activity	Presenter
09 Feb Tuesday	09:15-10:45	90'	Field trip synthesis	Dr. Christopher Doll, UNU- IAS Fawzia Tarannum
	10:45-11:00	15'	Tea break	

	11:00-12:30	90'	Research Communication	Mr. Daniel Powell, UNU Media Centre
	12:30-14:00	90'	Lunch	
	14:00-15:30	90'	Group work 1	Chris/Unni/Ryoko/Ranjana
	15:30-15:45	15'	Tea break	
	15:45-17:15	90'	3-minute thesis practice	Chris/Unni/Ryoko/Ranjana
	17:30-19:00	90'	Group Work 2	Chris/Unni/Ryoko/Ranjana
	19:00		Close	

10 Feb Wednesday	Time		Activity	Presenter
	09:15-10:45	90'	Lecture 11 - 'Community Engagement and Capacity Building to facilitate Energy Availability, Accessibility and Affordability'	Ms Soma Dutta, <i>Programme Coordinator Women's Economic Empowerment, Energia</i>
	10:45-11:00	15'	Tea break	
	11:00-12:30	90'	Lecture 12- Waste to energy	Dr. Suneel Pandey, Director, Green Growth and Resource Efficiency, TERI
	12:30-14:00	90'	Lunch	
	14:00-15:30	90'	Group Work 3	Chris/Unni/Ryoko/Ranjana
	15:30-15:45	15'	Tea break	
	15:45-17:15	90'	Group work 4	Chris/Unni/Ryoko/Ranjana
	17:15		Close	

11 Feb Thursday	Time		Activity	Presenter
	09:15-10:45	90'	Life after PhD	Moderator – Dr. Christopher Doll, UNU-IAS -Dr Cristina Rumbaitis, Action on Climate Today -Dr. Preeti Agarwal, VIOM Networks -Dr. Pooja Arora, TERI -Dr Mahendra Sethi, NIUA -Dr Shivakshi Jasrotia
	10:45-11:00	15'	Tea break	
	11:00-12:30	90'	Group work 5	Chris/Unni/Ryoko/Ranjana
	12:30-14:00	90'	Lunch	
	14:00-15:30	90'	3-minute thesis exercise	Chris/Unni/Ryoko/Ranjana
	15:30-15:45	15'	Tea break	
	15:45-17:15	90'	Group work 6	Chris/Unni/Ryoko/Ranjana
	17:15		Close	

12 Feb Friday	Time		Activity	Presenter
	09:15-10:45	90'	Summary of lectures and evaluation	Chris/Unni/Ryoko/Fawzia
	10:45-11:00	15'	Tea break	
	11:00-12:30	90'	3-minutes thesis competition final	TU student, Arun Kansal/ Chris/Unni/Ryoko/ Ranjana

	12:30-14:00	90'	Lunch	
	14:00-15:30	90'	Research Proposal presentation and Discussions	TU student, Staff and Chris/Unni/Ryoko/ Ranjana
	15:30-15:45	15'	Tea break	
	15:45-17:15	90'	Research Proposal presentation and Discussions	TU student, Staff and Chris/Unni/Ryoko/ Ranjana
	17:15		Close	Dr Rajiv Seth, Prof Arun Kansal, Mr Amit Kumar Chris/Unni/Ryoko/Fawzia/ Ranjana
	Evening		Gala Dinner	

13 Feb
Saturday
Departure