



2015 ProSPER.Net Young Researchers' School

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

TERI University, New Delhi, India

5 to 16 October, 2015

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 like the 3-minute thesis competition¹ and Our World 2.0² 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.
- 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 water and biodiversity.

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 2.0 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>.

Sunday 04 Oct 2015

Arrival

05 Oct Monday	Time		Activity	Presenter
	9:00-9:30	30'	Registration	
	9:30-10:00	30'	Opening Ceremony Welcome remarks	- TU - UNU-IAS
	10:00-10:45	45'	Keynote Address and addresses by eminent speakers on the theme	TU, MNRE, Private Sector, NGO
	10:45-11:00	15'	Tea break	
	11:00-12:30	90'	Panel discussion – Sustainable energy for transforming lives	Panelists to be finalized
	12:30-13:30	90'	Lunch	
	13:00-13:30	30'	Programme Introduction	UNU-IAS
	14:00-15:30	90'	Movie I on Energy Use Efficiency/Conservation and Discussion	TERI and TU
	15:30	15'	Tea Break	
	15:45-17:15	90'	Movie II on Energy Use Efficiency/Conservation and Discussion	TERI and TU
	17:15	15'	Close	

06 Oct Tuesday	Time		Activity	Presenter
(Preparing for first Field Trip)	09:15-10:45	90'	Lecture 1: Linking energy crisis with Climate Change	Dr. Leena Srivastava; Acting DG, TERI and TU Faculty member
	10:45	15'	Tea break	
	11:00-12:30	90'	Lecture 2: Energy Security- Global and local Challenges	Dr. Ritu Mathur; TU
	12:30	90'	Lunch	
	14:00-15:30	90'	Lecture 3: Energy Accessibility and socio-economic impact	Mr. I. H. Rahman; TERI
	15:30	15'	Tea break	
	15:45-17:15	90'	Lecture 4: Energy efficient Stoves and Lighting a billion lives initiative of TERI	Mr. Debajit Palit; TERI
	17:15		Close	

07 Oct Wednesday	Time		Activity	Presenter
Field trip 1, TERI Campus in Gawal Pahari	8:30		Departure	
	9:30-10:00	90'	Welcome and opening remarks – Contribution of TERI towards sustainable energy	
	10:00- 12:30	150'	Walk around TERI Campus and live demonstration of TERI's initiatives <ul style="list-style-type: none"> ▪ Solar Lanterns 	Mr. Amit Kumar, Mr. Prasad; TU

			<ul style="list-style-type: none"> ▪ Solar water heaters ▪ Photovoltaic panels ▪ Biomass Gasifier ▪ Underground earth tunnels ▪ Energy-efficient lighting ▪ Waste-water recycling 	
	12:30-14:00	90'	Lunch	
	14:00-16:00	120'	Solar Energy Center, Gurgaon (Govt of India's initiatives) <ul style="list-style-type: none"> • Grid and off-grid solar systems • Biogas Plants 	Mr. Amit Kumar, Mr. Prasad; TU
	16:00		Departure from Gawal Pahari, Gurgaon	
	17:30-18:30	60'	Arrival in TERI University Campus Field Trip Synthesis	

08 Oct Thursday	Time		Activity	Presenter
(Preparing for second Field Trip)	09:15-10:45	90'	Lecture 5: Research Method (Qualitative)	Resource Person
	10:45	15'	Tea break	
	11:00-12:30	90'	Lecture 6: Energy Use Efficiency (MSME)	Resource Person
	12:30	90'	Lunch	
	14:00-15:30	90'	Lecture 7: Reducing energy intensity of the Indian economy - Bureau of Energy Efficiency	Resource Person
	15:30	15'	Tea break	
	15:45-17:15	90'	Lecture 8: Research Method (Quantitative)	Resource Person
	17:15		Close	

09 Oct Friday	Time		Activity	Presenter
Field trip 2, Rural Setting, Jhajjar, Haryana	08:30		Departure	
	10:00-12:00	120'	Visit to Rural Setting – To understand the technology behind the Energy Efficient cooking stoves developed by TERI University to provide better living condition to women and children in rural areas	Dr. Suresh Jain, TU, UNU-IAS
	12:00-13:00	60'	Lunch	
	13:00		Return to TERI University Campus	
	15:00-16:00	60'	Synthesis of field trip and discussing energy challenges- Breakaway session	
	16:00-16:15	15'	Tea Break	
	16:15-17:45	90'	Introduction to three minutes thesis presentation	- TU - UNU-IAS

10 Oct Saturday	Time		Activity	Presenter
Field trip 3 Agra/ Mathura/ Ferozabad	06:00		Departure	
			Visit to Mathura/ Agra/Ferozabad (By Bus) <ul style="list-style-type: none"> ▪ Familiarisation with hardships faced by people working in Glass factories ▪ Visit natural gas based environment friendly cupola furnace developed for improvement of air quality and health of workers 	Prof. S. Swami; HoD, Dyalbagh Educational Institute, Agra
	18:00		Departure from Agra	

11 Oct Sunday	Time		Activity	Presenter
Free day				

12 Oct Monday	Time		Activity	Presenter
	09:15-10:45	90'	Workshop Session- Synthesis of Field Trip	Attending resource persons
	10:45	15'	Tea break	
	11:00-12:30	90'	Lecture 9: Energy Policy and Governance and Q & A	Resource Person
	12:30	90'	Lunch	
	14:00-15:30	90'	Lecture10: Economics of Renewable Energy and Q&A	Resource Person
	15:30	15'	Tea break	
	15:45-17:15	90'	Research proposal development	UNU-IAS
	17:15		Close	

13 Oct Tuesday	Time		Activity	Presenter
	09:15-10:45	90'	Research Communication	UNU Media Centre
	10:45	15'	Tea break	
	11:00-12:30	90'	Group work 1	Attending resource persons
	12:30	90'	Lunch	
	14:00-15:30	90'	Group Work 2	Attending resource persons
	15:30	15'	Tea break	
	15:45-17:15	90'	3-minute thesis practice	Attending resource persons
	17:15		Close	

14 Oct Wednesday	Time		Activity	Presenter
	09:15-10:45	90'	Lecture 11 - Community Engagement	Resource person

			and Capacity Building to facilitate conservation/efficiency	from an NGO
	10:45	15'	Tea break	
	11:00-12:30	90'	Lecture 12- Waste to energy	Resource Person
	12:30	90'	Lunch	
	14:00-15:30	90'	Group Work 3	Attending resource persons
	15:30	15'	Tea break	
	15:45-17:15	90'	Group work 4	Attending resource persons
	17:15		Close	

15 Oct Thursday	Time		Activity	Presenter
	09:15-10:45	90'	Life after PhD	Dr. Richa Sharma, Dr. Pooja Arora, Ms. Shivakshi Jasrotia and attending resource persons
	10:45	15'	Tea break	
	11:00-12:30	90'	Group work 5	Attending resource persons
	12:30	90'	Lunch	
	14:00-15:30	90'	3-minute thesis exercise	Attending resource persons
	15:30	15'	Tea break	
	15:45-17:15	90'	Group work 6	Attending resource persons
	17:15		Close	

16 Oct Friday	Time		Activity	Presenter
	09:15-10:45	90'	Summary of lectures and evaluation	Attending resource persons
	10:45	15'	Tea break	
	11:00-12:30	90'	3-minutes thesis competition final	Attending resource persons
	12:30	90'	Lunch	
	14:00-15:30	90'	Research Proposal presentation and Discussions	Attending resource persons
	15:30	15'	Coffee break	
	15:45-17:15	90'	Research Proposal presentation and Discussions	Attending resource persons
	17:15		Close	
	Evening		Gala Dinner	

**17 Oct,
Saturday**
Departure