Clarkson University
Clarkson-SRIHER-ICMR Indo-US Knowledge Initiative Project

August 5-9, 2019

TRAINING WORKSHOP ON LOW-COST AIR QUALITY SENSORS AND RELATED DATA ANALYTICS

Day	Morning		Afternoon	
Monday **Theme: Air quality background; data availability**	09.00 - 09.30	Introduction to workshop goals SN 214 (Dhaniyala/Powers)	01.15 - 03.00	Activity: Get monitoring data from AirNow/Env: Canada SN 241 (Dhaniyala/Hopke)
	09.30 - 10.30	Air quality related health effects SN 214 (Hopke)		
	10.30 - 10.45	Break	03.00 - 03.15	Break
	10.45 - 12.00	Air quality history and regulations SN 214 (Hopke)	03.15 - 04.30	Discussion and experimental design in groups SN 241 (Dhaniyala/Rossner)
	12.00 - 01.15	Linking air quality and health in India MPR (Balakrishnan)		
Tuesday **Theme: Air sensors introduction; lab evaluation of sensors**	09.15 - 10.15	Aerosol sampling and measurements SN 214 (Dhaniyala)	01.30 - 03.00	Activity: Laboratory aerosol measurements and sensors CAMP 292 (Dhaniyala/Rossner)
	10.15 - 10.30	Break	03.00 - 03.30	Break
	10.30 - 12.00	Low-cost air quality sensors SN 214 (Dhaniyala)	03.30 - 04.30	Plan on research project using sensors and employing advanced data analytics Innovation Space (Various)
	12.00 - 01.15	Food for thought: Global low-cost sensor networks MPR (Dhaniyala)		

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Day	Morning		Afternoon	
Wednesday Theme: Sensors and Data analytics	09.15 - 10.30	**Introductory data analytics** SN 214 (Skufca)	01.15 - 03.00	**Group research project** Various (Dhaniyala/Rossner)
	10.30 - 10.45	**Break**	03.00 - 03.15	**Break**
	10.45 - 12.00	**Data visualization and visual analysis** SN 214 (Skufca)	03.15 - 04.30	**Advanced data analytics I - using R and Python** SN 241/239 (Gurajala/Mondal)
	12.00 - 01.30	**Intro India Electricity Future Game** MPR (Powers)		
Thursday Theme: Data Analytics and Visualization	09.15 - 10.15	**Machine learning basics** SN 214 (Skufca)	01.15 - 03.00	**Group research project; Measurements/analytics**
	10.15 - 10.30	**Break**	03.00 - 03.15	**Break**
	10.30 - 12.00	**Advanced data analytics II - R/Python** SN 241/239 (Gurajala/Mondal)	03.15 - 04.30	**Designing experimental plan for aerosol measurements** **Innovation Space**
	12.00 - 01.15	**ICMR: Mandate on air quality and health** MPR (		
Friday	09.15 - 11.30	**Presentations from groups**	01.30 - 03.00	**India Electricity Future Game**
	12.00 - 01.30	**Lunch in MPR**		

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