WELCOME TO ENVIRONMENTAL ENGINEERING (EE)



Dr. Chandan Sarangi



Dr. Indumathi M Nambi



Dr. Ligy Philip



Dr. Mathava Kumar S



Dr. Mohan S



Dr. Sachin S. Gunthe



THE DETECTION OF THE CHINDER

INDIAN INSTITUTE OF TECHNOLOGY MADRAS Department of Civil Engineering



Environmental Engineering



INDIAN INSTITUTE OF TECHNOLOGY MADRAS



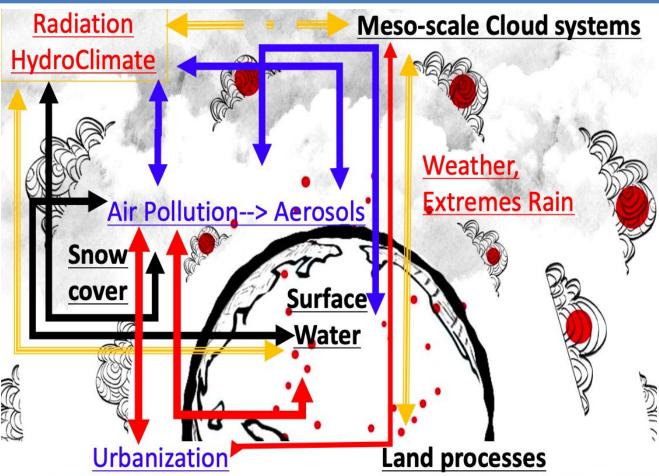
Dr. Chandan Sarangi

PhD (Indian Institute of Technology, Kanpur, India) Assistant Professor, Civil Engineering <u>chandansarangi@iitm.ac.in</u>



Major Areas of Research

- Impact of aerosols (particulate air pollution) on hydrometeorological processes (clouds, rainfall, fog, transpiration)
- Impact of dust deposition on Himalayan hydrology
- Modelling fate and transport of aerosols at regional and global scale
- Relative role of aerosols on temperature and extreme rainfall over Megacities

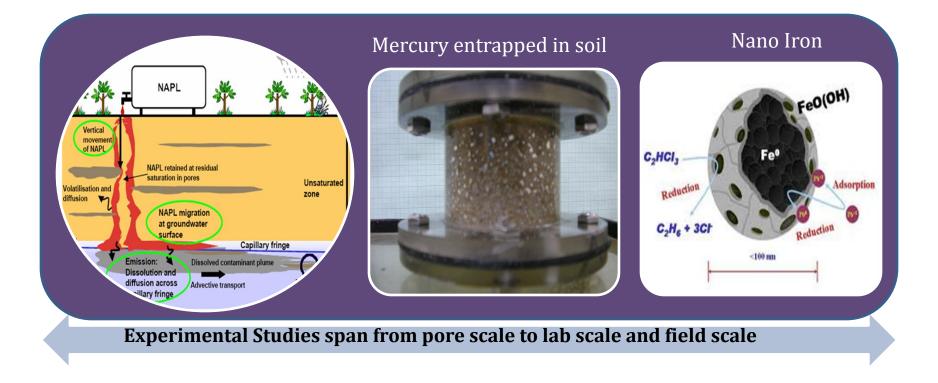


Aerosols and Hydro-Meteorology (ahm) Lab

Dr. Indumathi M Nambi Ph.D, Clarkson University, U.S.A Professor, Dept. of Civil Engineering

044-2257-4289; indunambi@iitm.ac.in http://www.iitm.ac.in/indu_edu

- Ground Water Contamination including NAPL /Transport and Remediation
- Industrial Wastewater Treatment/Physical and Chemical Processes
- Water and Waste Water /Tertiary treatment for reuse





Dr. Ligy PhiliP Ph.D, IIT Kanpur, India Professor, Dept. of Civil Engineering 044-2257-4274; ligy@iitm.ac.in

http://www.civil.iitm.ac.in/ligy_edu

- Sioremediation of Contaminated Water, Soils, Air and Aquifers
- Water Treatment and Rural Water Supply
- Domestic and Industrial Wastewater Treatment, Recycle and Reuse



To cleanup soils , aquifers and air contaminated with organic and inorganic toxic pollutants



Water quality assessment and providing tailor made centralized and point of use water treatment technologies



Sustainable Wastewater management using centralized/decentralized and onsite systems

Pollution Abatement, Drinking water quality assessment and treatment





Dr. S. Mathava Kumar

Associate Professor, Civil Engineering

044-2257-4267; mathav@iitm.ac.in http://www.civil.iitm.ac.in/mathav_edu

Major Areas of Research

- Membrane Technology for Water and Wastewater Treatment
- Emerging Contaminants/Micro-Pollutants Removal
- Development of Low-cost adsorbents & Remediation of Contaminated Systems



Dr. S. Mohan Ph.D, Indian Institute of Science, Bangalore Professor, Dept. of Civil Engineering

044-2257-4261; smohan@iitm.ac.in http://www.civil.iitm.ac.in/mohan_edu

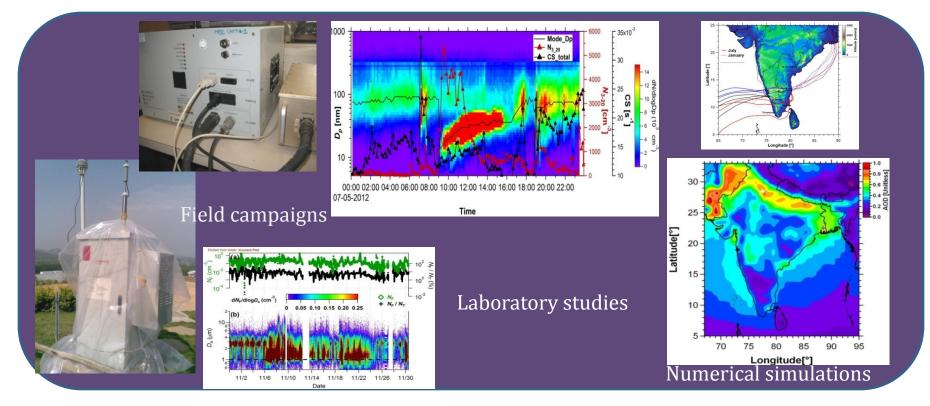
- Environmental systems analysis & modeling,
- Environmental impact analysis,
- Reservoir operation,
- Contaminant transport modeling,
- Sustainable development, GIS & applications,
- Evolutionary algorithms & their applications





Dr. Sachin S. Gunthe Ph.D, Indian Institute of Tropical Meteorology, India Associate Professor, Dept. of Civil Engineering 044-2257-4308; s.gunthe@iitm.ac.in http://www.civil.iitm.ac.in/gunthe_edu

- Properties and interaction of atmospheric aerosols including bioaerosols
- Role of atmospheric aerosols in Earth system science
- Aerosol cloud precipitation interaction Indian monsoon



Dr. S.M. Shiva Nagendra Ph.D., IIT Delhi, India Professor, Department of Civil Engineering

044-2257-4290; snagendra@iitm.ac.in http://www.civil.iitm.ac.in/shiva_edu/



RESEARCH INTERESTS	
Urban Air Quality Management	Emission inventory, air quality monitoring, modelling , source-receptor modelling and control strategies
Vehicular Pollution Modelling	Deterministic, statistical and artificial neural network approaches
Indoor Air Quality	Monitoring, modelling and control strategies
Industrial Air Pollution Control	Design of air pollution control equipments and environmental impact assessment
Environmental data analysis	Multivariate data analysis and environmental auditing

