

Kiranmai Uppuluri

Environmental Engineer

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WORK EXPERIENCE

- ❖ 22 June 2016 - 29 July 2016: Intern (Environmental Auditor), *CEZ (Cesky Energeticky Zavody) Group*
 - Internship conducted jointly under EMS and IPPC departments (Environmental Managements Systems & Integrated Pollution Prevention and Control) in Prague, Czech Republic.
 - Analysis of split views assessment established yearly by European Commission (EIPPCB in particular) based on Best Available Technologies (BET) Reference Document (BREF).
 - Presentation on 'environmental issues and legislation in India' s showcasing various environmental problems along with the legal and regulatory framework of environmental law in India. A comparison of emission standards in Czech Republic and India was followed by a final global review of the current major environmental issues and consequently its economic and social effect.
 - Research and report on "methodologies to study air pollution caused by power plants (coal and lignite)" based on a comparative analysis of studies by environmental NGOs on pollution consequences.
 - Participation inn internal environmental audits at 3 CEZ power plants: Stechovice power plant (hydro, melnik power plant (coal), Jindrichuv Hradec power plant (biomass).

- ❖ 5 June 2013 to 25 July 2013: Team Leader, *Rural Center for Human Interests (RUCHI)*
 - Social and Environmental NGO associated with Voluntary Services Overseas (VSO) in Solan Districy, Himachal Pradesh, India.
 - Team leader for two groups on international volunteers from Taiwan, Germany and France.
 - Assisted first group in building community toilets and the second group in building a rain water harvesting tank in a nearby village.
 - Guide and translator for both groups during field visits to model towns to explain working of rain water harvesting systems in mountain regions where infiltration is low due to surface runoff.
 - Translator for both groups during interaction with women self-help groups.
 - Led a campaign for HIV-AID awareness in cooperation with Johnson&Johnson Co.
 - Actively promoted organic farming practices through workshops and interactive events in government schools and village community centers.

- ❖ 10 July 2014 to 31 August 2014: Volunteer, *Waste Warriors*
 - An NGO addressing environmental concerns particularly with regard to safe disposal and management of solid and liquid waste in Dharamshala, Himachal Prasesh, India.
 - Organized and performed treks along mountain trails to collect trash along the way and segregate it at base point.
 - Helped segregate waste into plastic, organic, recyclable carbon material and glass. Segregated waste was forwarded to recycling companies.

- Conducted campaigns in local schools, community halls and painted murals to raise awareness about recycling and proper waste management.

EDUCATION AND TRAINING

- ❖ 13 October 2015 to 21 September 2017: *International Masters in Environmental Technology and Engineering (IMETE), Ghent University, Belgium.*

- 2-year master program held in 3 universities for one semester each.
 1. UNESCO-IHE Institute for Water Education, Delft, The Netherlands: Environmental modelling, data processing and management, GIS, environmental economics, scientific skills, hydrology, Dutch language course.
 2. University of Chemistry and Technology, Prague, Czech Republic: Atmospheric Protection, wastewater treatment, solid waste management, environmental microbiology, sludge management, remediation technologies.
 3. Ghent University, Belgium: Clean Technology, ecological risk assessment, control and process engineering, microbial re-use technology, management of heavy metals and metalloids.
- IMETE Summer Course: *Management and Remediation of Contaminated Soils* by Dr. Anna Sophia Knox, Savanna River National Library at Ghent University.
- Field visits to cement factory, wastewater treatment plants, solid waste recycling plants and landfills.
- All semesters included training and examination of scientific and laboratory skills.
- Masters dissertation: *Influence of operational temperature on sludge dewaterability in anaerobic digestion*. Thesis elaborated and defended at University of Chemistry and Technology, Prague, Czech Republic under the supervision of Prof. Pavel Jenicek, M. Sc., PhD.

- ❖ 1 April 2012 to 31 March 2015: *Bachelors in Physical Sciences (B. Sc.), University of Delhi, New Delhi, India.*

- Waves and optics, calculus and matrices, geometry, real analysis., thermal and quantum physics, quantum, organic and inorganic chemistry, spectroscopy, electronics, environmental sciences, biology, cellular processes.
- First division grade.
- All 6 semesters included training and examination of laboratory skills.
- Bachelors dissertation: *Creation and successful operation of a hardware-only clap-operated circuit or clap switch* under supervision of Prof. Prajwalit Shikha, Ph.D.

PROJECTS AND PRESENTATIONS

- *E-Waste Management Technologies*, Annual Physics Festival, University of Delhi, 2013.
- *Davisson and Germer Experiment*, Orientation Day, Department of Physics, Maitreyi College, University of Delhi, 2014.
- *Radionuclides and their effect of on the atmosphere*, University of Chemistry and Technology, 2016.
- IMETE Integrated project: *Sustainability of Dams in Latin America*, UNESCO-IHE Institute for Water Education, 2016

- IMETE Elective project: *Sludge Stabilization in Municipal Wastewater Treatment Plant*. Structural and technical planning to build a sustainable wastewater treatment plan for a town of 200,000 inhabitants, University of Chemistry and Technology, 2016.
- IMETE Master's dissertation: *Influence of operational temperature on sludge dewaterability in anaerobic digestion*. Research project included a comparison of the effect of mesophilic and thermophilic temperatures on biogas production and dewaterability of sludge under anaerobic conditions. Furthermore, different thickening technologies (centrifugation and gravity thickening) were studied and tested for efficiency in biogas production and dewaterability under mesophilic and thermophilic conditions.

SKILLS

❖ Languages

- Mother Tongue: Telegu (Fluent)
- English, Hindi (Extremely fluent)
- French, Dutch, Czech (Basic, A1 level certified)

❖ Communication Skills

- Excellent communication and public speaking skills gained from participation in various debates, presentations and workshops in senior high school.
- Junior editor for TIMES NIE Bloom Public School, 2007-2009.
- Awarded WWF's Young Writers Award in 2010 by Chief Minister of Delhi, Mrs. Shiela Dixit.
- Internship as writer and content manager for *Viewspaper, The Online Newspaper*, New Delhi (September 2012 to January 2013). Published articles on women safety, water pollution and female foeticide.

❖ Managerial Skills

- Brilliant managerial and leadership qualities such as patience, team building and decision making capabilities acquired through various experiences.
- President (2015) and vice-president (2014) of Galore, The Fashion Society of Maitreyi College. Declared Best Fashion Society of University of Delhi 2015 and one of the top 10 cultural societies of New Delhi. Fashion shows based on conservation of tigers (2015) and environmental awareness (2014).
- House-Captain, 2010-2012, Bloom Public School, New Delhi.
- Two times team leader for visiting VSO interns from Taiwan, France and Germany.
- Effective planning and execution of all live shows during college performances.

❖ Digital Skills:

- MS Office-spreadsheet and extremely good at MS Power Point.
- Basic knowledge of C++, Matlab, R Studio, Stell and GIS.

❖ Other interests and achievements

- Professional interests: wastewater treatment, WASH, water resource management, GHG emissions, alternate energy technologies, agricultural, crop and soil science.

- Personal interests: travelling, writing, reading, documentaries, piano, history, yoga, world cultures, fashion and commercial modeling.
- Miss Northern India 2013, First Runner-up.
- Miss India Andhra Pradesh 2018, Top 3 Finalists
- Best Model Award, University of Delhi 2015