

Ranjith K. Annepu

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EDUCATION

Columbia University, School of Engineering and Applied Science
MS in Earth and Environmental Engineering

GPA: 3.33
Fall 2009 – Summer 2011

Osmania University, Chaitanya Bharathi Institute of Technology (CBIT)
B.Tech in Chemical Engineering

Aggregate: 70%
September, 2005 – April, 2009

HONORS

- American Society of Mechanical Engineers, Materials and Energy Recovery Division awarded \$1,500 in recognition of work on solid waste management at EEC
- WTERT Fellowship 2009 and 2010: awarded for two consecutive years to conduct and continue research on solid waste management in India

WORK EXPERIENCE

Cason Family Foundation
Research Associate

New York, NY
August 2011 – Present

- Developed a proposal to map all solid waste landfills in the developing world to estimate the overall contribution of informal waste pickers to the environment and economy of respective regions.
- Helped develop the concept and organize the Informal Waste Sector Thinking Group Meeting for the Clinton Global Initiative, attended by 80 world leaders.

Earth Engineering Center (EEC), Columbia University
Research Associate

New York, NY
September, 2009 – Present

- Waste-to-Energy Research and Technology Council (WTERT)
 - Coordinated the creation of WTERT, India in association with the National Environmental Engineering Research Institute (NEERI), a top engineering research institute in India to conduct studies focused on the entire spectrum of solid waste management (SWM).
 - Actively approaching sponsors, partners and clients to develop WTERT-India into a self sustaining and successful organization.
- Sustainable Solid Waste Management in India
 - Developed a *Road to Sustainable Solid Waste Management in India* as Master's thesis. It is the largest collection of data and new findings published about the sector and its impacts on public health, environment, and climate change.
 - Organized two research visits to India, covering thirteen cities to examine the present situation there and evaluate the prospects for sustainability in SWM.
 - Blogged the observations from research, at www.swmindia.blogspot.com, which has a viewership of more than 1000 people/month.
- Consulting, Waste-to-Energy in New York City
 - Guided a senior-year project of seven undergraduates studying the feasibility and design of a waste-to-energy (WTE) plant in a client's plot in New York City.

- It was found that the site was suitable for a WTE plant due to its proximity to an existing material transfer station and businesses which can use the electricity, and the waste heat and steam generated by the facility.
- Proposals to USEPA
 - Managed the entire process of preparing and submitting grant applications to USEPA for proposals to help improve *Activities that Advance Methane Recovery and Use as a Clean Energy Source* in developing nations like Mexico and Vietnam.

Indian Institute of Chemical Technology (IICT)

Hyderabad, India

Intern

May, 2007 – September, 2007

- Design of a Full Scale Domestic Sewage Treatment Plant
 - Designed a small-scale (18,500 gallons per day) domestic sewage treatment plant to handle sewage from hundred households
 - Molded the design to be compatible with small communities to complement Hyderabad city's four-hundred year-old sewer system

OTHERS

Presentations

- Nickolas, J.T. & Ranjith, K.A. (2011), Sustainable Waste Management and Informal Recycling, Informal Waste Sector Thinking Group – Second Annual Meeting, 2011, New York, NY.
- Ranjith, K. A. & Nickolas, J. T. (2010), Sustainable Solid Waste Management in India, North American Waste-To-Energy Conference (NAWTEC) - 18, Orlando, FL.
- Venkatesh K., Ranjith, K.A. (2009), Impact of Kyoto Protocol on Energy Utilization and Global Warming, Panjab University, Chandigarh.
- Venkatesh K., Ranjith, K. A. (2008), Solar Desalination Using Membrane Distillation. Paper presented at a) GVP College of Engineering, Vishakhapatnam, b) SRM University, Chennai and c) Heritage Institute of Technology, Kolkatta.
- Ranjith, K. A. & Rakesh, K. (2007), Solar-Hydrogen Cycle. Paper presented at a) MVGR College of Engineering, Vizianagaram and b) National Institute of Technology (NIT), Warangal.

Computer Applications: ArcGIS, SimaPro, and BioWin

Leadership Activities

- Coordinated social service activities as Vice-President of CBIT's National Social Service wing, 2008 - 2009
- Planned and organized an event attended by 130 participants while coordinating 30 volunteers and 4 judges over 2 days in T-Summit, a techno-entrepreneurial festival at CBIT, March 2008
- Initiated and organized Chem Wiz, a technical festival at CBIT, March 2008

Volunteer Work

- Monitored green house gas measuring instruments on a research cruise evaluating the environmental damage due to the Gulf of Mexico Oil Spill, August 2010. The results were used to conclude massive degradation of oil by bacteria.
- Worked for animal welfare organizations "Friends of Snakes" and "The Blue Cross of Hyderabad", 2007 – 2009