

Ashutosh Das, Ph. D.

*Assistant Professor in Civil Engineering,
SASTRA University, Thanjavur-613402.*



Research Area

1. Industrial Wastewater Engineering,
2. Energy and Environmental Auditing ,
3. Geographic Information System (GIS),
4. Environmental Impact Assessment (EIA),
5. Soft-Computing and Stochastic Modeling,
6. Traditional Ecosystem Development Planning

Subjects Handled

1. Environmental Studies,
2. Basic Civil Engineering,
3. Engg. Graphics (Design CAD),
4. Surveying (Basic and Advanced),
5. Engineering Materials & Geology,
6. Environmental Engineering (P.H. Engg),

HONOURS AND AWARDS

1. Reviewer of *INAE Young Engineer Award 2006 & 2007*, by Indian National Academy of Engineering (INAE), New Delhi, a premier engineering academy of India
2. Selected to be included among “**Leading Engineers of the World**”, “**21st Century Award for Achievement**” and “**2000 Outstanding Intellectuals of the 21st Century**” by International Biographical Society, Cambridge.
3. Selected for publication in US- based Marquis Who’s Who ‘in Asia 2006’, ‘in the world 2006’ and ‘in Science and Technology 2006-2007’.
4. Co-editors for “*Journal of Ecotoxicology and Hematology*” and “*Journal of Current Sciences.*”
5. Honour of reviewership of “*Hydrological Processes*” – an international journal of repute, published by the Wiley InterScience. (This is in addition to the reviewership of International Journal of Chemistry and Environment and Indian Journal of Geomorphology)
6. Resource Committee Member on compilation of a report on ‘Roadmap for Water Purification’ on advise by the Chief Scientific Officer of the Prime Minister, and subsequent high appreciation of the report by the coordinators of the committee at BARC, Mumbai.
7. Co-Coordinator : Two- day National Seminar on “Effective Conservation of Water and Sustainable Management techniques ” at Shanmugha College of Engineering, SASTRA, Tirumalaisamudram from 2-3 Jan 2004.
8. Member of Academic Council and Board of Studies for School of Civil Engineering, SASTRA UNIVERSITY.

Fellowship of Academic bodies and Professional Societies

1. Fellowship, International Congress of Chemistry and Environment
2. Fellowship, International Society for Ecological Communications
3. Fellowship, Indian Geological Congress
4. Fellowship, Geological Society of India
5. Fellowship, Indian Geomorphological Society
6. Fellowship, Society of Environmental Sciences
7. Fellowship, Society of Sciences

Membership of Scientific and Professional Societies

Membership, Indian Society of Technical Education
Membership, Indian Geotechnical Society
Membership, Indian Society of Remote Sensing
Membership, Indian Water Resource Society

RESEARCH

Consultancy and Sponsored Research activities :

Year	Organisation	Project Title	Amount of Funding (Rs)	Position
2004	DST, Govt. of India	Research Study at Mahamaham Tank to monitor the water quality and to derive a model on the variants of water quality.	3.6 lakhs	Principal Investigator
2004	DST, Govt. of India	Development of a low cost indigenous adsorbent using agro wastes for dephenolation of aqueous industrial wastewater	9.2 lakhs	Principal Investigator
2005	DST, Govt. of India	Water Quality Assessment in Tsunami Affected Coastal Areas of Tamil Nadu – Nagapattinam to Vedaranyam	3.33 lakh	Principal Investigator

No. of Master's thesis guided

- 1 Ph.D. completed, 4 continuing (3 Env. Engg, 1 Math);
- 1 M.Tech completed (Computer Sc. & Engg);
- 10 B.Tech completed (Env. Engg)

PUBLICATIONS

Book(s)

1. Sharma, D.K., Giri, C. C., Wadhwa, G., Chahar, S, Das, Ashutosh, “Laboratory Manual for Fuel Technology”, Centre for Energy Studies, IIT Delhi, 1993. (A Text Book for Energy Laboratories – a four-credit compulsory course for M.Tech Energy Studies in IIT Delhi).
2. Ananthapadmanaban, S, Das, Ashutosh (Ed), “Environmental Studies”, School of Civil Engineering, SASTRA Deemed University, Thanjavur, Tamil Nadu, 2004 (A Text Book for Environmental Studies – a compulsory course for all the I year B.Tech/B.E. students, as per the direction of Supreme Court of India).
3. Das, Ashutosh, Sivaramakrishna, GCCNP, Srihari,V., “Design and Economic Evaluation of Activated Sludge Process Units for Domestic and Wastewater Treatment – An Indian Perspective”, Indian Valuer- All India Sem. Pap. Book, 2005.

Selected Journal Publications

[Total no. of journal publications- 40 (International-30, National 10)]

INTERNATIONAL

1. **Das, Ashutosh** and Sharma, Durlubh Kumar, “Adsorption of Phenol from Aqueous Solutions by Oxidized and Solvent Extracted Residual Coal”, *Energy Sources*, 20(9), 1998, 821-830.
2. **Das, Ashutosh** and Sharma, D. K., “Organic Desulfurization of Assam Coal and Its Sulphur-Rich Lithotypes by Sequential Solvent Extraction of Obtain Cleaner Fuel”, *Energy Sources*, 23(8), 2001, 687-697.
3. Thilagavati, S and **Das, Ashutosh**, “ Studies on Chloride Fixing in Concrete with Lead Oxide Admixture”, 16(4), 2004, 145-153.

4. Rajaram T. and **Das Ashutosh**, 2006, 'Need for participatory and sustainability principles in India's EIA system: lessons from the Sethusamudram Ship Channel Project', Impact Assessment and Project Appraisal, volume 24, number 2, June 2006, pages 115-126, Beech Tree Publishing, UK
5. Rajaram T. and **Das Ashutosh**, 'Water Pollution by Industrial Effluents in India: Discharge Scenarios and Case for Participatory Ecosystem Specific Local Regulation', Futures, Elsevier (accepted for publication).
6. Ravichandran K.S., Rajaram T., and **Das Ashutosh**, 2006, 'A Fuzzy Based Ranking of Dominance among Water Quality Parameters for Modeling: A Case Study', International Journal of Ecology & Development (ISSN 0972-9984), Volume 4, No. S06, Summer 2006, pp 51-64.
7. Srihari, V., Madhan Babu, S and **Das Ashutosh**, Kinetics of Phenol-Sorption by Raw Agro – Wastes, Journal of Applied Sciences, Asian Network for Scientific Information 6(1), 2006: pp 47-50
8. Srihari, V., and **Das Ashutosh**, The Kinetic and Thermodynamic Studies of Phenol- Sorption onto Three Agro-based Carbons, Desalination (accepted for publication)- Elsevier.
9. Srihari, V., **Das, Ashutosh**, Ram Prasath, C. ; Meera, A. ; Vasantha Devi G., "Study on Adsorption of Phenol Study On Adsorption of Phenol from Aqueous Media Using Extracted Residue of *Hemidescus Indicus* ", Asian Journal of Microbiology, Biotechnology and Environmental Sciences, 2(3), 2005.
10. Srihari, V., **Das, Ashutosh**, "Reduction of Chemical Oxygen Demand of Sugar Industry Effluents using Natural Clays as Adsorbents", Journal of Chemistry and Environment, 8 (2), 2004, 65-68.
11. Srihari, V., **Das, Ashutosh**, "Study on Phenol-sorption of Two Homogenized Industrial-Wastewater-Blend using Activated Carbon" Ecology, Environment and Conservation, 23(4), 2004.
12. Srihari, V., **Das, Ashutosh**, Uma, S.R. "Cyclonic Wind Energy- Dissipation and Extraction Techniques for Coastal Villages of India", Ecology, Environment and Conservation, 24 (2), 2005.
13. Rajaram, T., **Das, Ashutosh**, "Study on suitability of water quality for Mass Bathing in Southern Kumbha Mela Festival (Mahamaham) using Fuzzy Inference System (FIS)", Pollution Research, 24 (3), 2005.
14. **Das, Ashutosh**, V. Ganesh, S. Anantha Padmanaban, Development Of ANN Model For Dissolved Oxygen Estimation Due To Mass Bathing -A Case Study Mahamaham 2004, The Ecologia, 3(1)2005 (in press).

NATIONAL

15. **Das, Ashutosh**, V. Srihari, S. Madanbabu, S. Anantha Padmanaban, Estimating the Oxygen Requirement in A Mass Bathing Tank – A Case Study: MAHAMAHAM 2004 (Southern Kumbhamela), Indian Journal of Environment and Ecoplanning, 10(1), 2005 (in press)

16. Srihari, V., and **Das Ashutosh**, (in press) A Thermodynamic Evaluation of COD-Reduction-Characteristics of Sugar- Industry Effluents using Natural Clays, Asian Journal of Microbiology Biotechnology & Environmental Science
17. **Das, Ashutosh**, Suribabu, C.R., Rao, M.R.J., "Inter Basin Water Transfer in India and Trenchless Technology: A Conceptual Treatise", *Journal of Indian Water Resources Society* 20(2), 2000,103-108.
18. Rao, M.R.J, Brahadeeswaran, S., **Das, Ashutosh**, "Environmental Technology Strategy-Problems & Prospects", *Indian Journal of Environmental Protection*, 20(6),2000, 473-475.
19. Srihari, V., **Das, Ashutosh**, "Thermodynamic Evaluation of Phenol Adsorption by Agricultural Waste – *Hemidesmus indicus*", *Engineering Today*, VI (10), October 2004, 5-7.
20. Srihari, V., **Das, Ashutosh**, "Determination of Adsorption Isotherm Coefficients of Phenolated Wastewater by Using Pressmud", *Applied Science Periodicals*, VII (1), February 2005.
21. Srihari, V., **Das, Ashutosh**, "Estimation of Adsorption Spontaneity through Thermodynamics Parameters", *Applied Science Periodicals*, VII (1), February 2005.
22. Srihari, V, and **Das Ashutosh**, (in print) Rural Transportation And Bullock Cart-Futuristic Perspective, ACCST Research Journal, volume III, No3, July 2005.

Other Publications (Seminars) – ONLY SELECTED PAPERS

[Total no. of Seminar publications- 30 (International-10, National 20)]

1. Rajesh, S, Sankaraguru Raman, **Das, Ashutosh**, "A GIS/LIS Approach for Suitability of Shallow Foundation at Southern Chennai, India", Proc. MAPASIA – 2003, Kuala Lumpur, Malaysia, 13-15 October 2003.
2. Shyamala, A; Srihari, V. and **Das, Ashutosh**, "Study on Utility of Use of Agro-Waste Ash As Adsorbent for Dephenolation of Wastewater", National Seminar on Environmental Impact assessment, adhiyamaan College of Engg., Hosur, 29-30 Sept 2004.
3. Rajesh, S, Sankaraguru Raman, **Das, Ashutosh**, "Development of Soil Information System for Shallow Foundation using GIS", Proc. 6th ESRI User India Conference, New Delhi, 23-24 April 2003.
4. **Das, Ashutosh**, "Environmental Vastu", National Seminar on "Traditional Architecture as per Vaasthu Sastra" at SASTRA Deemed University, Thanjavur (7-8, March 2003)
5. **Das, Ashutosh**, "Clean –Fuel Technology", National Conference on Environmental Management at SASTRA, Deemed University, Thanjavur (26-28 Feb2003).
6. Srihari, V and **Das, Ashutosh**, "An Overview an Overused Environment", National Conference on Environmental Management at SASTRA, Deemed University, Thanjavur (26-28 Feb2003).

7. **Das, Ashutosh**, “Analysis and Feasibility of Specific Character Modules in Technical Education”, 31st Annual Conference of ISTE, Kalinga Institute of Technology, Bhubaneswar, 12 – 14 Dec. 2001
8. **Das, Ashutosh**, Gowrisankar, S. “Feasibility of Plant as an Architectural Design Parameter in Arid and Semi-Arid Zones Towards a Better Natural Resources Management”, Seminar –cum-Workshop on Jeopardised Environment and Its Protection, J.J.College of Arts and science, Puddukotai, T.N.(India). 16th Feb.2001.
9. **Das, Ashutosh**, Uma, S.R.. “Bio-Engineering Techniques through Landscaping with Special Reference to Cyclone for Indian Coastal Zone Management”, Seminar –cum-Workshop on Jeopardised Environment and Its Protection, J.J.College of Arts and science, Puddukotai, T.N.(India), 16th Feb.2001.
10. **Das, Ashutosh**, Thilagavati, S., “The Prospects and Feasibility of Distant Education Scheme for Transfer of Technical Education in India”, 30th Annual Conference of ISTE, Nirma Institute of Technology, Ahmedabad, 14 – 16 Dec. 2000, pp.168-169.
11. **Das, Ashutosh**, Thilagavati, S., Ravishankar, M., “Development and Performance Study of a Low-Cost Natural Resin Distemper on Priming Coat”, Proceeding All India Seminar on Building Science 2000, Conducted by Institution of Engineers(India), Nagpur, Nov.25-26, 2000.
12. Rao, M.R.J., **Das, Ashutosh** , Ravindar, S, Venkatasubramanian, C., “Delineation of Groundwater Potential Zones for Water Resources Development in Rural Areas”, All India Conference on Technology for Rural Development in Y2K+, Organised by Institute of Engineers (India), Tirupati (AP, India), June 30- July 1, 2000.
13. Uma, S.R., **Das, Ashutosh**, Srihari, V., “Bullock Cart – A Futuristic Perspective”, All India Conference on Technology for Rural Development in Y2K+, Organised by Institute of Engineers (India), Tirupati (AP, India), June 30- July 1, 2000.
14. Rao, M.R.J., **Das, Ashutosh** , Ravindar, S, Venkatasubramanian, C., “Ground Water Exploration in Coastal Areas – Using Remote Sensing Techniques”, Proceeding State Conf. on Exploration Techniques, Organised by UGC, Trichy, March 30-31, 2000.
15. Rao, M.R.J. , **Das, Ashutosh**, Brahadeeswaran, S, “Managing the Environment –an Integrated Approach”, All India Conference on Environment, PROBE, PMCTW, Vallam, T.N.(India) March 10-11, 2000.
16. **Das, Ashutosh** , Sharma, D.K., “Relation of Petrographic Composition of Coal with Combustion of Coal”, National Seminar on Coal and Coal Combustion in Utility Boiler, Organised by NTPC, Noida (UP, India), April 6-8, 1999.
17. **Das, Ashutosh** , Sharma, D.K., “Desulphurization of Assam Coal to Obtain Environmentally Cleaner Fuel” (Ts -1264), CHEMICON – 98: 51st Annual Session of Indian Institute of Chemical Engineering, Vishakhapatnam (AP, India), December 16-19, 1998.

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