

BIO-DATA



Dr. Mahuya Ghosh

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Designation	Scientist, Gr.-1
Educational Qualifications:	<p>Ph. D. (Engg.) Indian Institute of Technology Delhi, 2007. Title of the Thesis: "Development of Jute-based Asphalt Overlay Fabric"</p> <p>M.Tech. in Textile Engineering, Indian Institute of Technology Delhi, 2001.</p> <p>B.Tech. in Fibre Technology, University of Calcutta, 1999.</p> <p>B.Sc. (III-year Hons.) in Physics, University of Calcutta, 1995.</p>
Experience Institution(s) served	6 years at Indian Jute Industries' Research Association (since 4 th May 2009)
Awards, achievements	<ol style="list-style-type: none"> 1. International Award, entitled, "STUDENT AWARD 2008" conferred by International Geosynthetics Society (IGS) in recognition of the academic contribution made during doctoral research work (IIT Delhi). Awarded during proceeding of 4th Asian Regional Conference on Geosynthetics: <i>Geosynthetics Asia 2008</i> in Shanghai, P.R. of China in 2008. 2. Successfully completed the Jute Technology Mission (Mini-Mission – IV, DDS 7.1/2) Project, namely, "Manufacture of Jute Braided Cloth by Appropriate Design Incorporation in Braiding Machines" as Principal Investigator in 2013.
Areas of Specialization	Fabric structures and their manufacturing technologies, Technical Textiles (Geotextiles, Agrotextiles, Sewing thread), Product development, Textile testing (especially, Geotextile testing), Roads/ Pavement Engineering, Asphalt- characterization and rheology
Publications in leading journals/conferences/ books published	<p>International peer-reviewed journal papers</p> <ol style="list-style-type: none"> 1. Banerjee, P.K., Ghosh, M., 2008. Studies on jute-asphalt composites, <i>Journal of Applied Polymer Science</i>, Vol. 109, Issue 5, 3165-3172.

Publications in leading journals/conferences/books published

2. Ghosh, M., Banerjee, P.K., Rao, G.V., 2010. Development of Asphalt Overlay Fabric from Jute, Journal of the Textile Institute, Vol. 101, 431-442.
3. Ghosh, M., Biswas, D, Sanyal, P., Development of Jute Braided Sapling Bag for Nursery Use, Accepted for publication in Journal of Natural Fibers, November 2014.

International Conference papers

1. Banerjee, P.K., Ghosh, M., 2014. Development of Braided Jute Sapling Bag, International Conference on Technical Textiles and Nonwovens, IIT Delhi, November, New Delhi, India.
2. Rao, G.V., Anuradha, G., Ghosh, M., 2012. Jute fibres for geosynthetics - Strategies for growth, 5th Asian Regional Conference on Geosynthetics: Geosynthetics Asia 2012, December, Bangkok, Thailand.
3. Ghosh, M., Banerjee, P.K., Rao, G.V., 2008. Development of asphalt overlay fabric from jute and its performance evaluation, Proceedings of 4th Asian Regional Conference on Geosynthetics: Geosynthetics Asia 2008, June, Zhejiang University Press and Springer Publication, Shanghai, P.R. of China, pp. 688-694.
Presented the paper in the concerned international conference.
4. Ghosh, M., Banerjee, P.K., Rao, G.V., 2006. An approach to develop asphalt overlay fabric from jute, International Conference on Technical Textiles, IIT Delhi, November, New Delhi, India.
Presented the paper in the concerned international conference.
5. Banerjee, P.K., Ghosh, M., 2003. Jute Geotextiles in rural road application, Proceedings of International Jute Symposium, February, organized by JMDC (presently NJB), Kolkata, pp. 117-142.

National Conference papers

1. Ghosh, M., Biswas, D., Das, A., 2012. Development of a jute braided agrotextile, National Seminar on: Protective Agrotextiles – Advantage & Future Prospects, jointly organized by O/o Textile Commissioner, SASMIRA, IJIRA & BCKV, March, Kolkata, India.
Presented the paper.

	<p>2. Ghosh, M., Choudhury, P.K., Sanyal, T., 2009. Suitability of natural fibres in geotextile applications, Proceedings of the Indian Geotechnical Conference 2009: Geotechnics in Infrastructure Development (GEOTIDE), held in February 2010, Guntur, India, pp. 497-501. Presented the paper.</p> <p>Book Chapters</p> <p>1. Ghosh, M., 2012. From raw jute to jute geotextile, In Book: Advances in Geosynthetics, Chapter 31, Eds. G.V.Rao and G.V.S.S. Raju, Sai Master Geoenvironmental Services Pvt. Ltd. Publication, Hyderabad, India, pp. 459-473.</p> <p>2. Ghosh, M., Banerjee, P.K., Rao, G.V., 2012. Jute overlay fabric – Development of two constructions, In Book: Advances in Geosynthetics, Chapter 34, Eds. G.V.Rao and G.V.S.S. Raju, Sai Master Geoenvironmental Services Pvt. Ltd. Publication, Hyderabad, India, pp. 490-506.</p>
Technologies on offer	<ol style="list-style-type: none"> 1. Jute Braided Sapling Bag: Product and process development 2. Jute braided sleeve for 'moss-stick' preparation 3. Jute braided water bottle carry bag
Technical support that can be offered(Sector wise)	<ol style="list-style-type: none"> 1. Jute Industry 2. Govt. Departments related to Infrastructure Development, e.g., PWD, BRO, etc. 3. Horticulture & forestry departments and nurseries
Institution (served) in collaboration	<p>During the initial tenure at IJIRA, worked as 'Scientist' in the collaborative projects with National Jute Board, viz., 'Promotion of Jute Geotextiles' and 'Development and application of potentially important Jute Geotextiles- CFC/ IJSG/ 21)'.</p>

