

Dr. Mallika Datta

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Summary

A gold medalist in M Tech and a PhD in textile technology with over 15 years of experience in academics and research; author of 22 papers published in various national and international journals and co-author of a book; and recognized for three projects .

Professional Experience

Assistant Professor

Department of Textile Technology
Government College of Engineering and Textile Technology
Serampore, West Bengal
Since June 2006

Research Associate

Department of Jute and Fibre Technology, Calcutta University
(Formerly, Institute of Jute Technology or IJT)
Kolkata
July 2003 to September 2005

Research Associate

National Institute of Research on Jute and Allied Fibre Technology (NIRJAFT)
Kolkata
May 1998 to January 2001

Project Details

Development of an Instrument to Measure Sound Barrier Property of Jute Nonwovens and Jute Composites

Funding Agency: National Jute Board (NJB)
Budget:Rs 0.9 lakh
Project Status: Completed in 2011

Investigation of Effect of Structure of Jute and Allied Fibre Products on Sound Insulation Property

Funding authority: National Agricultural Science Fund (NASF)
Date of sanction:16 June 2015
Duration: 36 Months
Budget: Rs 215.02967 lakh
Project Status: Ongoing

Pilot project on Modernisation of Pre- Loom/ Weaving Preparatory Section for Khadi sector

Funding authority: West Bengal Khadi & Village Industries Board

Date of sanction: 29th July 2016

Budget: Rs 5.32 lakh

Project Status: Ongoing

Patent Details

Device for Measuring Noise Control Behaviour of Any Sample Material

Patent Application No: 904/KOL/2015 dt. 21-08-2015

The Patent Office Journal publication date: 11/9/2015

Academics & Awards

Best Teacher for the year 2016-2017

From Maulana Abul Kalam Azad University of Technology, West Bengal

5th September 2017

Doctor of Philosophy (Technology) in Textile Technology

University of Calcutta, 2015

The Thesis: Engineering of Jute Based Acoustic Insulator and Its Structural Analysis

Gold Medalist in M.Tech (Textile Technology)

University of Calcutta, 1999

Best Student in Textile Spinning Precitex Award

Stood second in B Tech (Textile Technology)

University of Calcutta, 1997

Best Poster paper Award

Best Poster Paper entitled “Jute based sound absorber” presented in TINFS organised National seminar on market driven innovations in natural fibres held on 22-23rd February 2018.

Publications

Have 22 papers published in various national and international journals.

Co-authored a book, Potentiality of Indian Flax, published by NIRJAFT in 2014.

1) International Journal

- i) Datta, M., Chaudhuri, A., Mitra, M., Nath, D., Das, D. (2018). Development of biodegradable conductive cotton yarns by in-situ polymerisation of pyrrole, The Journal of Textile Institute, doi.org/10.1080/00405000.2018.1455312.

- ii) Datta, M., Nath, D., Javed, A., Hossain, N., (2017) ,Seam Efficiency of Woven Linen Shirting Fabric: Process Parameter Optimisation, *Research Journal of Textile and Apparel*, 21 (4), 293-306.
- iii) Datta, M., Mitra, S., & Samayun, M. (2017). Revival and digitization of bygone woven design through textile CAD/CAM system- A Case Study. *American International Journal of Research in Sciences, Technology, Engineering and Mathematics* , 1 (17), 11-14.
- iv) Datta, M., Nath, D., Patra, S., Ishlam, S., & Bala, S. (2016). Effect of fabric design on physical properties of composite. *American International Journal of Research in Sciences, Technology, Engineering and Mathematics* , 2 (16), 125-129.
- v) Datta, M., Nath, D., & Sett, S. K. (2016). Jute cloth reinforced composite by compression moulding. *American International Journal of Research in Sciences, Technology, Engineering and Mathematics* , 2 (15), 221-226.
- vi) Das, D., Datta, M., Datta, S., & Chauhan, R. B. (2005). Coating of Jute with Natural Rubber. *Journal of Applied Polymer Science* , 48.

2) National Journal

- i) Datta, M., & Hatua, P. (2011). Filament winding: A new generation technology. *Indian Textile Journal* , 121 (4), 18.
- ii) Datta, M. (2008, December). Composites: The future in progress. *Man-made Textiles in India* , 421.
- iii) Ghosh, S. K., & Datta, M. (2006). Geosynthetics -Its Functional Properties and Potential Uses. *Journal of Institute of Engineers (India): Textile Divn* , 8.
- iv) Basu, G., Sarkar, B., & Datta, M. (2009, January). Introduction to Flax/Linseed Fibre and Its Double Purpose Variety. *Textile Trends* , 29.

3) International Conference

- i) Datta, M., Nath, D., Nandi, S., Bhakat, S., & Basu, G. (2017). Study on Noise Control Behaviour of Jute Plain Woven Fabric. In D. Das (Ed.), *Book of Papers: International Conference on Textile and Clothing :Present and Future Trends* (pp. 52-54). Kolkata: Department of Jute and Fibre Technology, University of Calcutta.
- ii) Rout, P., Datta, M., & Dey, S. Jute Lunch Bag with Heating Arrangement (2017). Jute Lunch Bag with Heating Arrangement. In D. Das (Ed.), *Book of Papers: International Conference on Textile and Clothing :Present and Future Trends* (pp. 69-71). Kolkata: Department of Jute and Fibre Technology, University of Calcutta.
- iii) Datta, M., Roy, A. N., Nath, D., Sarkar, R., Kundu, S., Samanta, A., et al.(2017). Physical Property and Design of Cotton Woven Fabric. In D. Das (Ed.), *Book of Papers: International Conference on Textile and Clothing :Present and Future Trends* (pp. 289-292). Kolkata: Department of Jute and Fibre Technology, University of Calcutta.

- iv) Datta, M., & Basu, G. (2014). Use of coconut fibre for making composites by compression moulding method. *Conference proceedings: International conference on natural fibres (theme: jute & allied fibres)* (p. 167). Kolkata: The Indian Natural Fibre Society.
- v) Ray, P., Datta, M., & Chatterjee, B. (2011). Evaluation of the Acoustic and Non-Acoustic Properties of Sound Absorbing Jute Nonwoven Fabric. *Conference Proceedings: International Seminar On Strengthening for Jute, Kenaf And Allied Fibres Research & Development*. Kolkata: International Jute Study Group.
- vi) Ray, P., Samanta, A. K., & Mallika, D. (2004). Virtue of Jute Fibre In The Global Technical Textile Market. *International Symposium Cum Exhibition On Jute And Geo-Textiles*. Kolkata: by Technical University Of Liberec, Czech Republic, Jute Manufactures Developments Council, Ministry of Textiles.
- vii) Ray, P., & Datta, M. (2004). Jute in Technical Textile. *Conference Proceedings: 1st China International Bast Fibrous Plants and Textile Conference*. Beijing: Bast And Leaf Fibre Institute China.
- viii) Das, D., Datta, M., & Datta, S. K. (2004). Coating of Jute With Natural Rubber And Chlorinated Polyethylene. *Proceedings: International Rub – Tech Expo*. Mysore: Indian Rubber Institute.
- ix) Das, D., Datta, M., & Datta, S. K. (2003). Coating of Jute with Rubber . *Asian Textile Conference*. New Delhi: Textile Association, India.

4) National Conference

- i) Debnath, S., Midhya, S., Nath, D., Basu, G., Datta, M. (2018). Jute based sound absorber” presented in National seminar on market driven innovations in natural fibres held on 22-23rd February 2018. TINFS, NIRJAFT
- ii) Datta, M. (2016). Influence of winding angle on the physical properties of filament wound composite pipe. *Proceedings: 3rd national conference emerging trends in textile, fibre and apparel engineering* (pp. 102-113). Berhampore: GCETT, Berhampore.
- iii) Das, D., Datta, M., & Datta, S. K. (2005). Coated products based on jute. *National convention of textile engineers on innovative and diversified jute products*. Kolkata: Institute of Engineers (India).