

**BIO-DATA –Dr. Sandip Bose**



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| SANDIP BOSE                   |
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| Designation                                      | Scientist Gr 1   |
| Educational Qualifications:                      | <p><b>Ph.D</b> Indian Institute of Technology, Delhi, 2012<br/> <b>M.Tech.</b> Fibre Science &amp; Technology, Indian Institute of Technology, Delhi, 2001<br/> <b>B.Tech.in</b> Fibre Technology from IIT, University of Calcutta, 1999.<br/> <b>B.Sc.(III-year Hons.)</b> in Chemistry, from University of Calcutta, 1995.</p>   |
| Experience Institution(s) served                 | <p>Organisation: Atul Ltd.<br/> Designation - Assistant Marketing Manager (National)<br/> Expertise – Marketing and Technical support to Sales of Textile dyes and auxiliaries.<br/> Duration: From February 2005 to November 2005</p> <p>Organization: Kenda Farben India Pvt. Ltd.<br/> Designation: Technical Manager<br/> Expertise – Setting up of Laboratory for matching shades and gloss aspects of footwear lacquer industry, Quality control and scaling up in collaboration with Kenda Farben Italy.<br/> Duration: October 2004 to February 2005</p> <p>Organization: Jubilant Organosys Ltd.<br/> Designation: Research Scientist, Research Associate<br/> Expertise – Synthesis of Vinyl Acetate based emulsion polymers for Textile Application.<br/> Duration: April 2002 to June 2004</p> |
| Awards, achievements                             | <p>Undergone Internship at Tokyo Institute of Technology, Tokyo Japan under IAESTE/ JENESYS/SAARC Program in August 2008 on <b>High speed melt spinning of sheath-core bi-component fibers</b> representing student of SAARC community from India.</p>   |
| Areas of Specialization                          | <p>Chemical processing of Jute<br/> Electrospinning of nanofibers<br/> Nanofinishing of natural textiles<br/> Emulsion and solution polymerization<br/> Application of polymers in lacquers<br/> Instrumentation of Jute Fibre Strength Tester<br/> Operating skill of running following instruments FE-SEM, ATR-FTIR, AFM, CCM, XRD, TGA-DSC, Cone and plate Rheometer etc for material characterization</p>  |
| Publications in leading journals/books published | <p><b>Electrospun Self-Assembled Nanofiber Yarns</b>, A Mondal, R Borah, Sandip Basu, M Jassal and AK Agrawal, <i>Journal of Applied Polymer Science</i>, <b>110</b> (1), 603–607, 2008. DOI: 10.1002/app.28673</p> <p><b>Concept of Minimum Electrospinning Voltage in Electrospinning of Polyacrylonitrile DMF system</b> Sandip Basu, A. K. Agrawal, and M. Jassal,</p>   |

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|   | <p><i>Journal of Applied Polymer Science</i>, <b>122</b> ( 2), 856-866, 2010. DOI: 10.1002/app.34083</p> <p><b>Concept of Minimum Electrospinning Voltage (MEV) in Electrospinning of PAN - DMF System: Effect of Distance</b> Sandip Basu, A. K. Agrawal, and M. Jassal, <i>Journal of the Textile Institute</i>, <b>104</b> (2), 158-163, 2013. DOI: 10.1080/00405000.2012.703797</p> <p><b>Effect of bipolar configuration on morphology of electrospun webs</b>, Sandip Basu, A. K. Agrawal, and M. Jassal, <i>Journal of the Textile Institute</i>, Published online 15 Mar 2013, DOI: 10.1080/00405000.2013.774133</p> <p><b>Role of elasticity in control of diameter of electrospun PAN nanofibers</b>, Sandip Basu, Naminita Gogoi, Shilpi Sharma, Manjeet Jassal, Ashwini K. Agrawal, <i>Fibers and Polymers</i>, <b>14</b> (6), 950-956, June 2013. DOI: 10.1007/s12221-013-0950-5</p> <p><b>Multiple Functional Properties of Jute and Cotton Fabrics finished with Titania nanofinishes</b>, Sandip Basu, A. C. Deka, M. Pal, S. Ghosh and S. K. Chakrabarti. National Seminar on Jute and allied fibers in changing times:Issues and Strategies”,January 3-5, 2013, NIRJAFT, Kolkata.</p> <p><b>Understanding the Effect of Electrospinning Distance on the Morphology of PAN Nanofibers</b>, Manjeet Jassal, Sandip Basu, Ashwini K. Agrawal, <i>The Fiber Society 2012 Spring Conference, Fiber Research for Tomorrow's Applications</i>, May 23-25, 2012, Switzerland</p> <p><b>Continuous Production of Electrospun Nano Fibers for Commercial Application</b>, Dharendra Singh, Sandip Basu, Manjeet Jassal and Ashwini K. Agrawal, <i>International conference on Technical Textiles and Nonwovens</i>, 11-13 Nov. 2008 , IIT Delhi, India.</p> <p><b>Electrospun Self-assembled Nanofiber Yarns</b>, Manjeet Jassal, Ashwini K. Agrawal, Abhijit Mondal, Ritutapan Borha, Avishek Mukherjee, Sandip Basu,<i>Nano for 3<sup>rd</sup> Millenium- nano for life</i>,17-18<sup>th</sup> Oct.2007, Prague.</p> <p><b>Responsive Electrospun Nanofibrous Membrane</b>, Sandip Basu, Avishek Mukherjee, Manjeet Jassal, and Ashwini K Agrawal,<i>Macro 2006</i>, Dec 17-20,2006, NCL Pune, India.</p> |
| <p>Patents obtained applied, if any. Give details</p> |   |
| <p>Technologies on offer</p>                          | <p>Completed Projects:<br/> Development of lightfast bleached, dyed and finished jute fabrics for manufacturing of export quality home textiles sponsored by National Jute Board as co-investigator<br/> Multifunctional ceramic based nanofinishing of outdoor textiles by sol-gel technique sponsored by Ministry of Textiles as Principle Investigator<br/> Development of Portable Jute Fibre Strength Tester sponsored by DST as Principle Investigator</p>  |

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| <p>Technical support that can be offered(Sector wise)</p> | <p>Bleaching and Dyeing of Jute Fabrics</p> <p>Assessment of strength by IJIRA developed Jute Fibre Strength Tester</p> |
| <p>Institution(served)</p>                                | <p>Atul Ltd.</p> <p>Kenda Farben India Pvt. Ltd.</p> <p>Jubilant Organosys Ltd.</p>                                     |