

## Bio-data



**Name** Mukesh Kumar Singh  
**Date of birth** 15-06-1970  
**Date of joining** 16-09-1999  
**Position hold** Associate Professor

### Qualifications

1. Ph.D from IIT Delhi on “Hand behaviour of multifilament woven polyester fabrics” under guidance of Prof. B . K. Behera, 2010
2. M.Tech (Textile Technology) from CSJM University Kanpur, 1999
3. B.Tech (Textile Technology) from Kanpur University Kanpur, 1995
4. D.Tech (Textile Technology) from UP Technical Board, Lucknow, 1992
5. B.Sc (Physics, Chemistry, Mathematics) Agra University, 1988

### Employment Record (Industrial, Research and Academic)

Organization/Institute	Position held	Period		Experience in years
		From	To	
UPTTI	Associate Professor	Spet 2012	Till date	02
UPTTI	Assistant Professor	Spet 2009	Sept, 2012	03
UPTTI(formerly GCTI), Kanpur	Senior Lecturer weaving	Sept. 2004	Sept, 2009	05
GCTI, Kanpur	Lecturer Weaving	Sept. 16, 1999	Sept. 16, 2004	
Pasupati Spg and Wvg Mills, Rewari	Spinning assistant	June 1992 Sept. 1995	August 1993 Sept. 1996	01 01
<b>Total</b>				

## Publications

### International Journals

1. Effect of Dyeing at different stages of polyester fabric manufacturing on low stress mechanical and hand behavior Accepted in *Coloration Technology* , 2009, 102-111  
M.K. Singh, B.K Behera
2. Breathable fabrics: Various aspects *Textile Asia*, Sept/Oct, 2007, 38-45  
B.K. Behera, M.K. Singh

3. Smart Textiles- the reality on floor *Asian Text. J* May 2004 p33-42, M.K. Singh
3. Baby Clothing: Different safety aspects, *Ind. Tex. J* June 2006, Abha Bhargava, M.K.Singh
4. Phase Change Materials *Asian Text. J* Vol. 17(8), August 2008, p 45-50 , Abha Bhargava, M.K.Singh
5. Sun Protective Clothing *Asian Text. J* Jan/Feb, 2005, 91-97 M.K.Singh
6. The State of –art Smart Textiles *Pakistan Text. J* , Aug, 2004, p 1-11 M.K. Singh
7. A Study on Comparative Hand Behaviour of Fabrics Produced from Different Natural and Man-made Fibres communicated to *Indian Journal of Fibres and Textile Research* B.K. Behera & Mukesh Kumar Singh
8. Cosmetotextiles: State of Art to prolong the Youthness *Texiles and Fibres in Eastern Europe* , Vol. 19 No. 4 4(87), 2011, p27-33 Mukesh K. Singh, V. K. Varun\* & B. K. Behera
9. Scaffolds for Tissue Engineering *Asian Textile Journal*, October 2009, p 58-62, Mukesh Kumar Singh , P Kumar, B.K. Behera
10. Photovoltaic textiles *Asian Textile Journal* January 2010, p 24-27 Mukesh Kumar Singh, Abha Bhargava
11. Enhancing the value of Linen Fabric with resist printing using vat dyes and different resist agents Colourage July 2010, p65-68, Meenaxi Tiwari, Archana Singh and M K Singh
12. Textiles for Biomonitoring: Various Aspects *Asian Textile Journal* March 2012, 52-56 Mukesh Kumar Singh, Annika Singh, V K Malhotra
13. A review on designing viral barrier fabrics with monolithic films *Int. J of Clothing Science and Technology*, Vol. 24 Iss: 2/3, 2012, pp.181 – 194, Mukesh Kumar Singh, Annika Singh
14. Ultraviolet Protection by Fabric Engineering , *Journal of Textiles*, Volume 2013 (2013), available on <http://www.hindawi.com/journals/textiles/2013/579129/> Mukesh Kumar Singh, Annika Singh
15. Effect of various ring yarns on fabric comfort, M K Singh, Akansha Nigam, *Journal of Textiles* 2013, ID 206240,7
16. Role of filament cross-section in properties of PET multifilament yarn and fabric. Part II: effect of fibre cross-sectional shapes on fabric hand, Mukesh Kumar Singh, B K Behera *Journal of Textile Institute*, Published online on May 22, Vol 105 (4), 2014, 365-376 <http://www.tandfonline.com/doi/full/10.1080/00405000.2013.774132#tabModule>
17. Role of filament cross-section in properties of PET multifilament yarn and fabric. Part I: Effect of fibre cross-sectional shape on transmission behaviour of fabrics, Mukesh Kumar Singh, B K Behera, *J of Text. Inst.* 105(9) 2014, 895-904
18. Study on comparative hand behaviour of fabrics produced from different natural and man-made fibres B K Behera, Mukesh Kumar Singh, *Journal of Eng. Fib ad Fab*, 2012, 215-222

## **Papers Communicated for Publication in International Journals**

1. **A study on comparative hand behaviour of fabrics produced from different natural and man-made fibres**, B.K. Behera, Mukesh Kumar Singh , *Indian Journal of Fibres and Textile Research*
2. **Effect of residual extensibility of polyester filament yarn on low-stress mechanical**

**properties of fabric**, B.K. Behera, Mukesh Kumar Singh , *Indian Journal of Fibres and Textile Research*

- 3. Effect of filament configuration on handle and transmission properties of polyester multifilament fabrics**, B.K. Behera, Mukesh Kumar Singh , Journal of Textile Institute
- 4. The effect of denier per filament (DPF) on low stress mechanical and transmission behaviour of polyester filament fabrics**, B.K. Behera, Mukesh Kumar Singh , Journal of Textile Institute
- 5. Effect of fibre cross sectional shape on bending behaviour of yarns and fabrics**, B.K. Behera, Mukesh Kumar Singh , Journal of Textile Institute

### **National Journal/ Magazines**

- 21<sup>st</sup> Century with Deodorant Fabrics *Man Made Text. In Ind.* July, 2002 M.K. Singh, p279-285
- Fashion forecasting a systematic approach “*Textile Magazine*” May 2002, M.K. Singh
- Banarasi Saree Manufacturing Textile *Magazine*, June 2001
- Microencapsulation of phase change materials Textile Review, May, 2012  
Shyam Barhanpurkar, **Mukesh Singh**, Mr . Tanveer Malik, Ayush Paharia, Vineet Singh

### **Papers presented in International Conferences/ Seminars**

- Presented a paper on Inherent flame retardant polyester fibres using organophosphorous as dope additive in POLYMER 99 An international symposium on Polymers Beyond AD 2000 Jan 12-15, 1999 at IIT Delhi, New Delhi
- Technological developments in textiles AICTE sponsored QIP programme for faculty development organized by GCTI, Kanpur 24-12-2001 to 05-01-2002
- Global industrial concepts in textiles AICTE sponsored QIP programme for faculty development organized by GCTI, Kanpur 10- 01-2005 to 21-01-2005
- “Flame Retardancy in Inflatable” workshop organized by ADRDE, AGRA , Ministry of Defense
- Cold sizing –a state of art in engineering of sizing National Seminar on “Stress Management in Small Ruminant Production and Product Processing” January 29-31, 2010
- Fibre Engineering for Engineered Fabric B. K. Behera, M. K. Singh  
7th International Conference - TEXSCI 2010 September 6-8, Liberec, Czech Republic
- Development of Inherent flame retardant PET fibres by dope additives “Advances in Polymers fibres and fabrics” Mukesh Kumar Singh A national symposium organized by DMSRDE Kanpur, 26-28 December, 2011
- Development and Characterisation of 3D Woven Fabrics Mukesh Kumar Singh, Ankush Kamble<sup>2</sup>, Ashutosh Shukla and B K Behera Proceedings of the 5<sup>th</sup> World Conference on

3D Fabrics and Their Applications Delhi, India 16-17 December, 2013

9. B. K. Behera and M.K.Singh, Structured fibre for Engineered fabric, 1<sup>st</sup> International conference on innovative textiles, CET-Bhubaneswar, 12-13 April, 2013

## Invited Talks

1. Delivered a talk on Seat Belt: A safety segment in automotive textiles in All India Seminar organized by The Institution of Engineers, at Kanpur 9<sup>th</sup> & 10<sup>th</sup> Feb, 2008
2. Delivered a talk on “Effect of fibre fineness, filament configuration and filament residual extensibility on hand and transmission behaviour of polyester woven fabrics” in an **INTERNATIONAL SEMINAR** organized by Textile Association of India, Rajasthan Unit, Bhilwara, Rajasthan , 20-21 December, 2008
3. Deliver a talk on Comfort: concept of comfort, comfort testing and related physical properties of textiles in Workshop organized by UPTTI, Kanpur 3-5 Feb, 2009
4. Deliver a invited Talk on “ Opportunities of Technical Textiles in Kanpur” in a seminar organized by Textile Committee Office Kanpur, Ministry of Textiles March 31, 2012
5. Deliver a invited Talk on “Cosmetotextiles” in a seminar organized by MCUP and Institution of Engineers India, KLC, June 3<sup>rd</sup> , 2012
6. Delivered a invited Talk in DMSRDE, Kanpur on Quality Aspects of Manmade fibre based fabrics” on June 13<sup>th</sup>, 2012
7. Delivered a talk in CEP on Protection and Care of Textiles on Dec 17, 2014
8. Talk on “Application of nano technology in Textiles” and Fabric Comfort on November, 25, 2014 at Sir Hingibottom University Allahabad

## Professional Trainings

S.No	Organisation	Period		Details of training
		From	To	
1.	GCTI, Kanpur for AICTE	05-06-2000	17-06-2000	Application of computers in Textiles
2.	GCTI, Kanpur for AICTE	03-07-2000	15-07-2000	Textiles in 21 <sup>ST</sup> Century
3.	TITI, Chandigarh for AICTE	16-07-2001	27-07-2001	Optical fibres and its applications
4.	GCTI, Kanpur for AICTE	24-12-2001	05-01-2002	Technological developments in textiles
5.	HBTI, Kanpur for AICTE	11-03-2002	24-03-2002	Eco-friendly chemical processing

6.	TTTI, Chandigarh for AICTE	15-07-2002	22-07-2002	Induction programme for teaching technology
7	GCTI, Kanpur for AICTE	10-01-2005	21-01-2005	Global industrial concepts in textiles
8.	NCUTE, IIT Delhi	16-03-200	18-03-2000	Man Mad Fibres-II
9.	NCUTE, IIT Delhi	03-09-2001	05-09-2001	Solution spun fibres
10.	NCUTE, IIT Delhi	15-10-1999	16-10-1999	Dyeing and Printing with natural dyes
11.	NCUTE, IIT Delhi	08-10-2003	09-10-2003	Industrial practices in yarn winding
12.	NCUTE, IIT Delhi	19-02-2000	20-02-2000	Computer aided textile design
13.	At GCTI, Kanpur	30-06-2003	04-07-2003	Spinning-Drawing, combing and roving
14.	NCUTE, IIT Delhi	04-09-2003	05-09-2003	Garment Technology
15.	NCUTE, IIT Delhi	10-12-1999	11-12-1999	CAD for Garment manufacturing
16.	At KCT, Coimbatore	26-11-2008	29-11-2008	Yarn winding
17.	UPTTI, Kanpur	3-2-2009	5-3-2009	Environmental aspects in wet processing
18.	HBTI, Kanpur	9-2-2009	15-2-2009	Textile Testing
19.	IIT Delhi	6-7-2009	10-07-2009	Advances in bioprocess & food processing technologies
20.	IIT Delhi	11-10-2008	23-10-2009	Emerging Trends in Fibres and Textiles
				Medical Textiles

### **Responsibilities held in the institutions**

- 1. Hostel Warden** for the first year students since 2003
- 2. Security officer** of the institute Since 2009 to till date
- 3. Member of Cultural Committee of the Institute**
4. Responsible to organize Literary activities of the institute (Specially on Hindi )
5. Coordinator Post graduate studies and IRD activities , UPTTI Kanpur

### **Books/ Chapters**

- 1. Industrial practices in winding, warping and sizing** (in English Accepted by Woodhead publications)
- 2. Photovoltaic Textiles for smart applications ( Chapter No. 3)**  
Solar Cells – New Aspects and Solutions (Published Online by InTech Publications) , 2011, page 43-68

3. **Textile Fibres at a glance** (in Hindi under progress)
4. **Cosmetotextiles: A new aspect of Technical Textiles (Chapter No 51)**  
Handbook of Cosmetic Science and Technology Fourth Edition Ed. AO Barel,  
M Paye, and H I Maibach, CRC Press ASBN13:978-84214-564-7 Pub: April  
2014 page 525-538

### **Membership of profession bodies**

1. Life member of **Institution of Engineers, India**  
Membership No. m-139326-4 , Reg. No. 090200385220
2. Life member of **Textile Association of India** , Membership No. F-1021
3. Patron member of OLD BOYS ASSOCIATION, GCTI, KANPUR  
(Reg.) Membership No. OBA/PM-169

### **Examiner of various universities**

1. Practical and theory examiner both at UG and PG level in CSA  
University of Agriculture and Technology, Kanpur
2. Thesis evaluator and theory examiner both at UG and PG level in GB Pant  
University of Agriculture and Technology, Pantnagar
3. Practical and theory examiner both at UG and PG level in UPTU, Lucknow
4. Practical and theory examiner both of board of Technical Education, Lucknow
5. Practical and theory examiner both at Indian Institute of Carpet Technology,  
Bhadohi

### **Contribution**

1. Member of committee for curriculum development for diploma in Textile Design under  
Institute of Research development and Training (IRDT) under department of Technical  
Education, UP, Kanpur
2. Member of Proctorial Board of the Institute
3. Member of Department Purchase Committee (DPC) of MMFT
4. Member of Cultural Committee of the Institute
5. Chief Editor “Fibre to Finish” Institute’s magazine Since 2012

**Mukesh Kumar Singh**

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