

**SURNAME:** YALCINKAYA

**FIRST NAME:** FATMA

**ACADEMIC DEGREE:** M.Sc.

**POSITION:** Ph.D. Student

**DATE OF BIRTH** :01.01.1983

**NATIONALITY:** Turkey

**INSTITUTION:** Technical University of Liberec, Textile Faculty, Nonwoven Dept./ Czech Republic

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**EDUCATION :**

**Ph.D. (2011-)** Technical University of Liberec, Textile Faculty- Nonwoven Dept. /Czech Republic

**Master (2007-2010)** Kahramanmaras Sutcu Imam Universty Textile Eng. Department

Degree: 95.8/100

**2009 (4.5 months)** Technical University of Liberec (Czech Republic)-Erasmus Programe Nonwoven Dept.

**Undergraduate**

**2002-2006** Gaziantep University Textile Eng. Department

Degree: 78.3/100

**2006 (6 months)** Akademia Techniczno-Humanistyczna (Poland)-Erasmus programe Textile Eng. Department

**OTHER LANGUAGES :** **English** (Good at reading, writing and speaking)



**Master Thesis:** “Comparision of Needle and Needless Electrospun Nanofibers and Effect of System Parameters on Electrospun Nanofibers”, August 2010 Kahramanmaraş.

#### **WORK EXPERIENCES:**

1. Internship in **Sanko Holding** (yarn production stage), 2003 (1 month)
2. Internship in **Sanko Holding** (knitting and weaving), 2004 (1 month)
3. Production and quality control engineer in **Adil Hali Iplik San. Ltd. Sti.** (2007-2009)
4. Research assistant in **Kahramanmaras Sutcu Imam University** (2009-2010)
5. Research assistant in **Bilkent University-National Nanotechnology Research Center** (2010-2011, 6 months).

#### **PUBLICATIONS:**

##### **Published in refereed journals, technical notes, letters to the editor, discussion, case reports and a summary of publications other than the type of article**

1. F. Yener, O. Jirsak, B. Yalçinkaya, ‘Effects of Material Parameters on Electrospun Polyvinyl Butyral Nanofiber Web’, *Electronic Journal of Textile Technologies*, Issue: 5, Volume: 2, Pages: 26-34, 2011.
2. R. Gemci, F. Yener, H. Solak, ‘The Relationship between Applied Voltage and Diameter of PVB Nanofibers’, *KSU. Journal of Engineering Sciences*, 14(1), 2011.

##### **Publications in S. C. I. , S. S. C. I. , A. H. C. I. Indexed Journals**

1. F. Yener, O. Jirsak, ‘Comparision of Needle and Roller Electrospinning Sytem of Polyvinylbutyral’, **Journal of Nanomaterials**, Volume 2012 (2012), Article ID 839317, 6 pages doi:10.1155/2012/839317 2012.
2. F. Yener, O. Jirsak, R. Gemci, ‘ Using a Range of Pvb Spinning Solution To Acquire Diverse Morphology for Electrospun Nanofibres’, **IJCCE**, vol.31, No:4, pages:49-58 2012.
3. F. Yener, B.Yalcinkaya, ‘Electrospinning of Polyvinyl Butyral in Different Solvents’, **e-Polymers**, Volume 13, Issue 1, Pages 229–242, 2013.
4. F. Yener, B.Yalcinkaya, O. Jirsak, ‘On the Measured Current in the Needle- and Needleless Electrospinning’, **Journal of Nanoscience and Nanotechnology, J. Nanosci. Nanotechnol.** 13, 4672-4679 (2013).
5. B. Yalcinkaya, F. Yener, O. Jirsak, F. Cengiz-Callioglu, ‘On the Nature of Electric Current in the Electrospinning Process’, **Journal of Nanomaterials**, Volume 2013 (2013), Article ID 538179, 10 pages.

6. B. Yalcinkaya, F. Cengiz-Callioğlu, F. Yener, Measurement and Analysis of Jet Current and Jet Life in Roller Electrospinning of Polyurethane, **Textile Research Journal**, 2013, DOI: 10.1177/0040517514528563.

**International conference by presenting papers published in full text**

1. F. Yener, O. Jirsak, 'Improving Performance of Polyvinyl Butyral Electrospinning', **3th Nanocon**, Brno, Czech Republic, 2011.
2. F. Yener, O. Jirsak, B. Yalçinkaya, "The Determination of Anionic and Non-Ionic Surfactant Effect on Electrospun Nanofibers", **18<sup>th</sup> Strutex**, Liberec-Czech Republic, 2011.
3. F. Yener, O. Jirsak, B. Yalçinkaya," Effect of Additives on Needle Electrospinning system, **18<sup>th</sup> Strutex**, Liberec-Czech Republic, 2011.
4. B. Yalçinkaya, F. Yener, O. Jirsak., F. Cengiz Çallioğlu, 'Influence of NaCl Concentration on the Taylor Cone Number and Spinning Performance', **18<sup>th</sup> Strutex** Liberec-Czech Republic, 2011.
5. B. Yalçinkaya, O. Jirsak, F. Cengiz Çallioğlu, F. Yener, ' The Effect of Concentration on Spinning Performance Using Roller Electrospinning ', **18<sup>th</sup> Strutex**, Liberec-Czech Republic, 2011.
6. N. Duyar, B. Yalçinkaya, F. Yener, "Preparation of Electrospun fibers PVB/CNT Composite Fibers", **18<sup>th</sup> Strutex**, Liberec-Czech Republic, 2011.
7. H. G. Sevgisunar, F. Yener, B. Yalçinkaya, "Comparision of Needle and Rod Electrospinning System", **18<sup>th</sup> Strutex**, Liberec-Czech Republic, 2011.
8. F. Yener, O. Jirsak, 'Optimization and Characterization of Polyvinyl Butyral Nanofibers in Different Acetalisation Degree', **12<sup>th</sup> Autex**, Croatia, Zadar 2012.
9. F. Yener, O. Jirsak, "Effect of Nonsolvent on Electrospinning Performance and Nanofiber Properties", **4th Nanocon**, Brno, Czech Republic, 2012.
10. F. Yener, O. Jirsak, "Development of New Methods for Study of Mechanism of Electrospinning", Student grant competition of Faculty of Textile Engineering and Faculty of Mechanical Engineering of Technical University of Liberec, **Workshop**, Světlanka, 2012.
11. O. Jirsak, K. Farana, F. Yener, 'Electrospinning Studies: Jet Forming Force', **19<sup>th</sup> Strutex**, Liberec-Czech Republic, 2012.
12. F. Yener, O. Jirsak, "Development of New Methods for Study of Mechanism of Electrospinning", **19<sup>th</sup> Strutex**, Liberec-Czech Republic, 2012.
13. F. Yener, B. Yalcinkaya, O. Jirsak, 'Roller Electrospinning System: A Novel Method to Producing Nanofibers', **The International Istanbul Textile Congress**, Istanbul, Turkey, 2013.

14. F. Yener, B. Yalcinkaya, O. Jirsak, 'New Measurement Methods for Studying of Mechanism of Roller Electrospinning System', **5th Nanocon**, Brno, Czech Republic, 2013.

#### **International conference posters presentations (Abstract)**

1. F. Yener, O. Jirsak, R. Gemci, 'Effect of Polymer Concentration on Electrospinning System', **Fiber Society**, Bursa, spring 2010.
2. F. Yener, B. Yalcinkaya, O. Jirsak, 'Effect of Jet Electric Current on Jet Regimes in Electrospinning of Polyvinyl Butyral Solutions', **Fiber Society**, St. Gallen, Spring 2012.
3. F. Yener, O. Jirsak, 'A Study on Physical Principles of Roller Electrospinning', **Advanced Material World Congress**, 16-19 September, Izmir, 2013.

#### **National conference posters presentations**

1. F. Yener, O. Jirsak, R. Gemci, 'Effect of Concentration on Roller Electrospinning', **6th Nanoscience and Nanotechnology Conference**, Izmir, Turkey, 2010.
2. F. Yener, B. Yalcinkaya, O. Jirsak, M. Kumalo, 'Increasing Fabric Performance of Electrospun Nano Mat', **8th Nanoscience and Nanotechnology Conference**, Ankara, Turkey, 2012.

#### **PROJECTS:**

##### **Supported by national organizations to take part in the project**

1. 'Set up of Needle Electrospinning System' BAP Project, Kahramanmaraş Sutcu Imam University (Project Manager Assistant).
2. 'Development of new methods for study of mechanism of electrospinning' Ministry of Education, Youth and Sports of the Czech Republic (Student's grant competition TUL in specific University research in 2012 - Project No. 4866).
3. 'Study of mechanism of electrospinning' Ministry of Education, Youth and Sports of the Czech Republic (Student's grant competition TUL in specific University research in 2013 - Project No. 48004).

#### **AWARDS**

1. Swiss National Science Foundation (SNSF) for the conference **Fiber Society**, Empa, St. Gallen, 2012.
2. Honorable mention Poster Award in **Nanocon** 2013.