

Saeed, Usman

Assistant Professor, Department of Chemical and Materials Engineering, King Abdulaziz University

Education			
<i>Degree</i>	<i>Field of Study</i>	<i>Institution</i>	<i>Year</i>
PhD	Materials Science	University of Vienna, Austria	2007
MS	Materials Science & Engineering	Christian Albrecht University, Kiel, Germany	2003
BS	Metallurgical Engineering & Materials Science	University of Engineering & Technology, Lahore, Pakistan	1995

Academic Experience					
<i>From</i>	<i>To</i>	<i>Institution</i>	<i>Rank</i>	<i>Title</i>	<i>Full or Part Time</i>
2015	Present	King Abdul Aziz University	Assistant Professor		Full Time
2012	2015	University of Ontario & Institute of Technology, Oshawa, Canada	Assistant Professor		Full Time
2010	2012	University of Ontario & Institute of Technology, Oshawa, Canada	Post Doc Fellow		Full Time
2007	2009	University of Applied Sciences, Augsburg, Germany	Post Doc fellow		Full Time

Non Academic Industrial Experience (including Consultations)					
<i>From</i>	<i>To</i>	<i>Company/Entity</i>	<i>Title</i>	<i>Position Description</i>	<i>Full or Part Time</i>
1996	2000	Peoples Steel Mills, Karachi, Pakistan	Deputy Manager	Production of High Alloy Steel	Full Time
1995	1996	Bolan Castings	Asst. Manager	Casting of Automotive Parts	Full Time

Funded Research Projects and Patents from the Past five Years

1.	“Indium Tin Oxide (ITO) coated biodegradable substrate for flexible display devices”. (P-I), KAU, 2016
2.	“Coherent Microporous Twisted Hybrid Nano Fibers for Tissue Engineering”. (P-I), KAU, 2015
3.	“Effects of Coupling Agent and Impact Modifier on interfacial adhesion of biodegradable polymer reinforced with wood fiber”, (P-I), KAU. 2015.
4.	“Fundamental Studies into Causes of Colour Mismatch”. SABIC, Canada, (CO_I), 2014.
5.	“Development of Electrospin Experimental Setup”. UOIT, Canada, (CO_I), 2013.

Certifications and Professional Registrations

1.	Professional Engineering Council
2.	Professional Engineering Canada (P Eng) (in progress)

Current Membership in Professional Societies and Organizations			
<i>Society/organization</i>		<i>Rank</i>	<i>Member Since</i>
1.	Society of Plastic Engineers, USA	Member	2011
2.	Materials Research Society, USA	Member	2010
3.	European Lead Free Technical Expert Group	Executive Member	2007

Honors and Awards	
1.	Fellowship NSERC Canada from 2010 to 2012
2.	Certificate of Outstanding Contribution as speaker, ESTC Conference UK, 2008
3.	Annual performance award, Peoples Steel Mills Ltd., Pakistan. 1998.

Institutional and Professional Services (<i>administration, committees, units, etc.</i>)	
1.	Department representative of undergraduate Materials Science Laboratories
2.	
3.	

Principal Publications/Presentations from the Past five Years	
1.	S. Ahmad, J. Saadi, U. Saeed , G.Rizvi, "Process Optimization through Designed Experiments to Achieve Consistency in Output Color of a Compounded Plastic Grade" Quality Engineering, Vol (27), 2015
2.	J. Alsadi, U. Saeed , S. Ahmad, G. Rizvi, "Processing issues of color mismatch: Rheological characterization of polycarbonate blends" Polymer Engineering. & Science, Vol. (55), 2015
3.	U. Saeed , J. Alsadi, S. Ahmad, G. Rizvi, "Polymer Color Properties: Neural Network Modelling" Advances in polymer technology, Vol. (33), (2014)
4.	U. Saeed , G. Rizvi "Investigation of fiber orientation of Compression Molded HDPE/Wood Fibers Using X-Ray Microtomography" Journal of cellular plastics, Vol. (51), (2014)
5.	U. Saeed , K. Hussain' G. Rizvi "HDPE Reinforced with Glass Fibers: Rheology, Tensile properties, Stress Relaxation and Orientation of Fibers, Journal of polymer composites", Vol. (35), (2014)
6.	U. Saeed , J. Alsadi, S. Ahmad, G. Rizvi, "Neural Network: A Potential Approach for Error Reduction in Color Values of Polycarbonate" Advances in polymer technology, Vol. (33), (2014)
7.	Conferences/Non Peer Reviewed <ul style="list-style-type: none"> • Characterization of glass-fiber reinforced high density polyethylene, Society of Plastic Engineer, USA, 2014 • 3D characterization of compression molded HDPE/wood fiber composites, Antec 2014 • Characterization of Wood Plastic Composites Using X-ray Micro Tomography, Biofoam conference, Toronto, Canada (2013) • Local anisotropy analysis of compression molded cotton fiber reinforced PLA composites, Americas Sky scan meeting, USA, (2013) • Implementation of neural network for color properties of polycarbonates Polymer plastic Society conference, Germany, (2013)

Recent Professional Development Activities (<i>Workshops, training, etc.</i>)	
1.	Micro CT Scanning 1172

2.	Physical Vapor Deposition (PVD)
3.	Design of Experiment (DOE)