DR. ABDESSALEM CHAMEKH
Assistant professor, Department of Mechanical Engineering, King Abdulaziz University

Education

Degree	*Field*	*Institution*	*Year*
PhD	Engineer sciences	ISTIA, Angers, France	2008
MS	Mechanical Engineering	ENIM, Monastir, Tunisia	2003
ING	Mechanical Engineering	ENIM, Monastir, Tunisia	2001

Academic Experience

From	*To*	*Institution*	*Rank*	*Title (Chair, Coordinator, etc.)*	*Full or Part Time*
2002	2006	Gabes Univ., Tunisia	Contr.Assist.	-	Part Time
2006	2009	Sousse Univ.,Tunisia	Assistant	-	Full Time
2009	2012	Sousse Univ., Tunisia	Assist. Prof.	-	Full Time
2012	Date	King Abdulaziz Univ.	Assist. Prof.	-	Full Time

Non Academic Industrial Experience (including Consultations)

From	*To*	*Company/Entity*	*Title*	*Position Description*	*Full or Part Time*
2002	2003	M.B.G. (Tunisia)	R&D Engineer	Sheet Metal Forming control	Part Time
2008	2009	M.I.S.F.A.T. (Tunisia)	R&D Engineer	Multistep Optimization Sheet Metal Forming Process	Part Time

Funded Research Projects and Patents from the Past Five Years

1. Special Grant from PRISME Laboratry, Polythech's Orleans (France), Research Project, *Multiscale modelling of the bone behaviour*, 2009.
2. Special Grant From PRISME Laboratry, Polythech's Orleans (France), Research Project, *Study of physical activity on the bone remodelling, 2011*.

Institutional and Professional Services *(administration, committees, units, etc.)*

1. Academic advisor for more than 20 students, over 5 years, Mechanical Eng. Dept., ENIM, Tunisia.
2. Mechanical departement coordinator, ISSAT Sousse, Sousse Univ., Tunisia, 2011-2012.
3. Member of Professional Master degree committee, Sousse University, 2011- 2012.
4. Member of LASQUO Laboratory, Angers, France, 2004-2008.
5. Member of LGM Laboratory, ENIM, Tunisia, 2004-2012.
6. Reviewer in several international peer-reviewed journals.

Principal Publications/Presentations from the Past Five Years

1. Abdelwahed Barkaoui, **Abdessalem Chamekh**, Tarek Merzouk, Ridha Hambli and Ali Mkaddem, Multiscale approach including microfibril scale to assess elastic constants of cortical bone based on neural network computation and homogenization method, ***International Journal for Numerical Methods in Biomedical Engineering***, Volume 30, Issue 3, pages 318–338, **Mar. 2014**.
2. Mohamed NASSER, **Abdessalem CHAMEKH**, Gildas GUILLEMOT, Mustapha NASRI, Alain IOST "Modélisation du comportement élastoplastique d'un revêtement Fe-Zn par nanoindentation : Approche inverse basée sur les plans d'expériences et les algorithmes génétiques multiobjectifs, ***20ème Congrès Français de Mécanique, Besançon, France***, **Sep. 2011**.
3. **Abdessalem Chamekh**, Souad BenRhaiem, Houda Khaterchi, Hedi BelHadjSalah, Ridha Hambli, An optimization strategy based on a metamodel applied for the prediction of the initial blank shape in a deep drawing process, ***Int. J. Adv. Manuf. Technol.*** 50, 93-100, **Sep. 2010**.
4. **A. Chamekh**, "Modélisation et Optimisation en Mise en Forme", Une approche hybride basée sur la Méthode des Eléments Finis et les Réseaux de Neurone Artificiels: Application à l'emboutissage et à

l'hydrofomage", ***Book, Edition européenne : ISBN : 978-613-1-53027-2***, **2010**.

5. Ridha Hambli, Damien Soulat, **Abdesselem Chamekh**, Finite element prediction of blanking tool cost caused by wear, ***Int. J. Adv. Manuf. Technol.*** 44,648-656, **Oct. 2009**.
6. **Chamekh A.**, BelHadjSalah H., Hambli R., Inverse technique identification of material parameters using finite element method and neural network computation, ***Int. J. Adv. Manuf. Technol.*** 44, 173-179, **Sept. 2009**.
7. Aguir H., **Chamekh A.**, BelHadjSalah H., Dogui A., Hambli R., Parameter identification of a non-associative elastoplastic constitutive model using ANN and multi-objective optimization, ***International Journal of Material Forming*** 2 (2), 75-82, **Jun. 2009**.