

## **DR. SALAH AL-TAHAR BOUGUECHA**

*Associate Professor, Mechanical Engineering Dept., King Abdulaziz University*

### **Education**

<i>Degree</i>	<i>Field</i>	<i>Institution</i>	<i>Year</i>
DSc.	Chemical	FST, Tunis, Tunisia	2005
PhD	Chemical	FST, Tunis, Tunisia	2003
MS	Chemical	FST, Tunis, Tunisia	1992
MS	Chemical Engineering	IGC, Toulouse, France	1985
BS	Chemical Engineering	ENIG, Gabes, Tunisia	1980

### **Academic Experience**

<i>From</i>	<i>To</i>	<i>Institution</i>	<i>Rank</i>	<i>Title (Chair, Coordinator, etc.)</i>	<i>Full or Part Time</i>
1992	2003	INRST	Assist		Full Time
2003	2007	INRST.	Assist Prof.		Full Time
2007	2007	CERTE	Assoc. Prof.		Full Time
2007	Date	King Abdulaziz Univ.	Assoc. Prof.		Full Time

### **Non Academic Industrial Experience** *(including Consultations)*

<i>From</i>	<i>To</i>	<i>Company/Entity</i>	<i>Title</i>	<i>Position Description (Brief)</i>	<i>Full or Part Time</i>
1981	1992	Institut National de Recherche Scientifique et Technique	Eng.	Responsible for Desalination Station	Full Time

### **Funded Research Projects and Patents from the Past Five Years**

1. *Desalination by solar energy assisted Membrane Distillation, Project No.: CEDT- 30-201, 2010-2013.*
2. *A novel fully integrated modelling-computational-experimental approach for the design and testing of spacers for membrane separation module, KACSTS, 2012.*

### **Certifications and Professional Registrations**

Licensed Professional Engineer in Tunisia.

### **Current Membership in Professional Societies and Organizations**

<i>Society/organization</i>	<i>Rank</i>	<i>Member Since</i>
1. Desalination and Water Treatment Society, Tunisia	General Secretary	2005- present

### **Honours and Awards**

1. 2008 Faculty of Engineering, King Abdulaziz Univ. Awards

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

1. Academic advisor for some students, Thermal and desalination technology Eng. Dept., KAU, 2007-present.
4. Member of Mechanical Engineering Department higher study Committee, 2012- present.

### **Principal Publications/Presentations from the Past Five Years**

1. J. Ben NACIB, R. CHOUIKH, S. BOUGUECHA, Modelling of Mass Transfer in Cavity Limited by a Semi Permeable Membrane (Simulation of Spiral Wound Module), Journal of Environmental Science and Engineering, 5, 567-573, 2011.
2. A. Ben Meriam, S. Bouguecha, S. Aly Essayed, Solar-driven integrated RO/NF for water desalination, International Journal of Engineering Research and Applications, 3, 354-368, 2013.
3. Ali Boubakria, Amor Hafiane, Salah Al Tahar Bouguecha, Application of response surface methodology for modeling and optimization of membrane distillation desalination process, Journal of Industrial and Engineering Chemistry, In Press, 2014.
4. Ali Boubakria, Amor Hafiane, Salah Al Tahar Bouguecha, Direct contact membrane distillation: Capability to desalt raw water, Arabian Journal of Chemistry, In Press, 2014.
5. Ali Boubakri, Raja Bouchrit, Amor Hafiane, Salah Al-Tahar Bouguecha, Fluoride removal from aqueous solution by direct contact membrane distillation: Theoretical and experimental studies, Environmental Science and Pollution Research, In Press, 2014.

### **Recent Professional Development Activities** (*Workshops, training, etc.*)

1. *Salah T. Bouguecha, Samir Elsyed Ali, Mohammad H. Albeirutty, Mohamed M. Hamdi*  
First Progress Report: Desalination by solar energy assisted Membrane Distillation, Project No.: CEDT-30-201, 04/02/2011.
2. *Salah T. Bouguecha, Samir Elsyed Ali, Mohammad H. Albeirutty, Mohamed M. Hamdi*  
Second Progress Report: Desalination by solar energy assisted Membrane Distillation, Project No.: CEDT-30-201, 26/03/2012.