CV

Prof. Messaoud BENOUNIS *(**State Engineer in Chemical Engineering** -U. of Annaba)*
Married and 04 children
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CURRENT SITUATION, DIPLOMAS and PROFESSIONAL ACTIVITIES

- ***Professor of Chemical Engineering*** *–University of Khenchela,* ***June 2015***
- ***Director of Laboratory LCIP*** *- Order No. 45 of April 14, 2012*
- **2004 Doctorat en Matériaux** – Ecole Centrale de Lyon
- **2004–2006** Ecole Centrale of Lyon
- **2006–2007** University Claude Bernard, Lyon1
- **2006–2007** Centre for Chemical Sensors (CCS)-ETH of Zurich

SCIENTIFIC AND EDUCATIONAL RESPONSIBILITIES

- **Director and founder of the LCIP Research Laboratory, since 2012**
- **Head of SM domain, since October 10, 2014**
- **President of the CSD of Industrial Engineering since November 18, 2013**
- **Responsible for the CFD of Process Engineering - U. of Khenchela**
- **Initiator of the process engineering sector, March 2009. U. of Khenchela**

PATENTS AND COMPLETED RESEARCH PROJECTS

- **Patent** in collaboration with IFOS Laboratory – ECL of Lyon, Chemistry Laboratory of ENS of Lyon and Semiconductor Physics Laboratory - IPEST - TUNIS
- **2011-2022** Manager of several CNEPRU and PRFU projects
- **2011-2013** Manager of two PNR code projects: 8/cu40/2179 and 4/u40/4264
- **2015-to date** LMD PhD project manager in process engineering7 positions –U. by Khenchela

TEACHING AND RESEARCH

Teaching: Single-phase reactors / Polyphase reactors / Bioreactors / Chemical kinetics / Applied thermodynamics / Organometallic complexes / Chemical sensors and biosensors

Research: Biotechnology, Chemical and electrochemical sensors, biosensors, DNA chips, Polymers and composite materials

PUBLICATIONS SCIENTIFIQUES RECENTES

- **S Rabai, M Benounis, G Catanante, A Baraket, A Errachid, NJ Renault**, Development of a label-free electrochemical aptasensor based on diazonium electrodeposition: Application to cadmium detection in water, **Analytical Biochemistry 612, 113956**
- **S Rabai, A Teniou, G Catanante, M Benounis, JL Marty, A Rhouati**, Fabrication of AuNPs/MWCNTS/Chitosan Nanocomposite for the Electrochemical Aptasensing of Cadmium in Water, **Sensors 22 (1), 105**
- **S Kouchar, M Benounis, N Jaffrezic**, New selective modified glassy carbon electrode based on 6-furfurylaminopurine ligand for cadmium detection in real samples, **Monatshefte für Chemie-Chemical Monthly 152 (1), 43-49**
- **A Touati, M Braiek, M Benounis, N Jaffrezic**, Application of new aptasensor modified with nanocomposite for selective estradiol valerate determination in pharmaceutical and real biological samples, **Monatshefte für Chemie-Chemical Monthly 152 (6)**
- **Ghedir, A Baraket, S Kouchar, S Rabai, M Benounis, A Alcacer,** Electrochemical Immunosensor for NT-proBNP Detection in Artificial Human Saliva: Heart Failure Biomedical Application, **Multidisciplinary Digital Publishing Institute Proceedings 2 (13**
- **N Mecheri, M Benounis, H Barhoum,** New modified selective platinum electrode based on poly (ethylene glycol) for Iron (III) detection in real water, **Sensor Review**
- **L Benammar, T Menasria, A Ayachi, M Benounis,** Phosphate removal using aerobic bacterial consortium and pure cultures isolated from activated sludge, **Process Safety and Environmental Protection 95, 237-246**
- **M Benounis**, Novel phosphate-selective poly (vinyl chloride-co-vinyl acetate-co-vinyl alcohol) membrane optode with carrier based on tin compound , **Sensors and Actuators B: Chemical 216, 57-63**