



# The Faculty of Science - Lebanese University The UNESCO-SIMEV Chair



Institut  
Européen des  
Membranes



invite you to the  
international conference

## NEW TECHNOLOGIES OF WATER TREATMENT ADAPTED TO DEVELOPING COUNTRIES

Monday and Tuesday, December 11 & 12, 2017  
Amphitheater of Pierre Gemayel Campus  
Fanar

For more information

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# New technologies of water treatment adapted to developing countries

## PROGRAM

### Monday, 11<sup>th</sup> of December 2017: Water and wastewater treatment in Lebanon

**8h30 - 9h00** : Reception and registration

#### **9h00 – 11h00: Session 1: Water quality in Lebanon**

Moderator : Dr. Claude DAOU, Lebanese University, Lebanon

- National Water Sector Strategy of Lebanon, Prof. Naim OUAINI, Ministry of Education and Higher Education, Lebanon
- Drinkable water and impact on the health of the Lebanese population, Dr. Farid KARAM, Ministry of Public Health, Lebanon
- Sustaining safe domestic water supply in Lebanon: challenges and future perspective, Prof. Mey JURDI, American University of Beirut, Lebanon
- Pollution vulnerability and solution approaches to water resources management in the Bekaa, Dr. Lucas BECK, Embassy of Switzerland in Lebanon

**11h00 – 11h30**: Coffee Break

#### **11h30 – 12h30: Official inauguration of the conference**

- Address of the Director of Faculty of Sciences II, Prof. Chawki SALIBA
- Address of the Dean of the Faculty of Sciences at the Lebanese University, Prof. Bassam BADRAN
- Address of the representative of the UNESCO Chair, Prof. Philippe MIELE
- Address of the Director of the “Agence Universitaire de la Francophonie”, Middle East Office (AUF-BMO), Prof. Herve SABOURIN
- Address of the Secretary General of the National Council for Scientific Research – Lebanon (CNRS-L), Prof. Mouin HAMZE
- Address of the President of the Lebanese University, Prof. Fouad AYOUB
- Address of H.E. Minister of Environment, Mr. Tarek EL KHATIB
- Address of H.E. Minister of Industry, Prof. Hussein EL HAGE HASSAN
- Address of H.E. Minister of Education and Higher Education, Mr. Marwan HAMADE
- Address of H.E. Minister of Public Health, Mr. Ghassan HASBANI

**12h30 - 14h00** : Lunch

#### **14h00 – 16h00: Session 2: Stakes of water and wastewater treatment in Lebanon**

Moderator : Dr. Carla KHATER, CNRSL-O-life, Lebanon

- Impact of treated and untreated domestic wastewater on the Lebanese marine environment, Dr. Milad FAKHRI, CNRS-L, Lebanon
- Industrial liquid waste: causes, problems, solutions and recommendations, Ms. Mimo ISHAK, Ministry of Industry, Lebanon
- Water treatment technologies in Lebanon, Mr. Najib ABI CHEDID, Ministry of Environment, Lebanon

## Tuesday, 12th of December 2017: New technologies of water and wastewater treatment (membrane processes)

### 9h00 - 11h00: Session 3: Introduction to membrane processes

Moderator: M<sup>me</sup> Claire PAPIN-STAMMOSE, Programme Solidarité-eau (pS-Eau), Lebanon

- Introduction: the UNESCO SIMEV Chair and the Thematic School *Science and Technologies for Membranes* (STM), Dr. Mathilde BOUCHER, UNESCO-SIMEV Chair, France
- The “Institut Européen des Membranes” (IEM) – Introduction, Prof. Philippe MIELE, IEM, France
- Introduction to the materials, units and processes of membranes for water and wastewater treatment, Dr. André DERATANI, CNRS - IEM, France

### 11h00 - 11h30: Coffee Break

### 11h30 - 13h00: Session 4: Treatment by membrane technology

Moderator: Dr. Désirée AZZI, USEK, Lebanon

- Nano-structured material engineering for membrane applications, Dr. Mikhael BECHELANY, IEM, France
- Membrane bioreactor (MBR) - Presentation, performance (clogging), and uses (recycling and reusing sewage water), Dr. Geoffroy LESAGE, IEM, France

### 13h00 - 14h00: Lunch

### 14h00 - 15h30: Session 5: Membrane applications

Moderator: Dr. Dominique SALEMEH, USJ, Lebanon

- Treatment of industrial water and sewage by membrane processes: the Moroccan experience and perspectives, Prof. Azzedine EL MIDAOU, President of Ibn Tofail University - Kenitra, Morocco
- Membrane processes for desalination, Dr. François ZAVITSKA, IEM-Polytech Montpellier, France

### 15h30 - 16h00: Overview and closing of the conference

#### Organizing committee :

##### Lebanese University

Prof. Ziad HERRO  
Dr. Claude DAOU  
Dr. Elie CHAHINE  
Dr. Frédéric HARB

##### Ministries

Prof. Naim OUAINI

##### CNRSL-O-life

Dr. Carla KHATER

##### UNESCO-SIMEV Chair

Prof. Philippe MIELE  
Prof. Gilbert RIOS  
Dr. Mikhael BECHELANY

##### pS-Eau

M<sup>me</sup> Claire PAPIN-STAMMOSE

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