International Conference on Desalination and Sustainability

1 - 2 March 2012





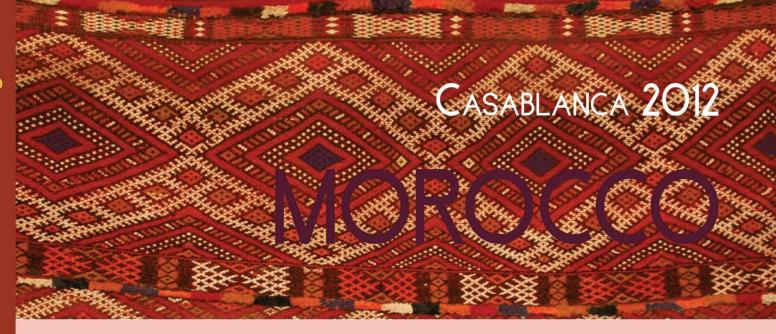
in cooperation with





supported by





# **Around the Mediterranean North–South Cooperation**

Miriam Balaban

MOR12\_20 Miriam







# Around the Mediterranean North-South Cooperation

#### Miriam Balaban

European Desalination Society
Desalination and Water Treatment 2009–
Desalination, 1966–2009
Desalination Directory

IDA-SMMD International Conference on Desalination and Sustainability Casablanca, Morocco, 1–2 March 2012

#### **Barcelona Process**

- Barcelona 1995 European Union Association with countries around the Mediterranean region
- Promoted dialogue and cooperation for greater stability and security in the Mediterranean region
- Euro-Mediterranean Free Trade Area
   (EMFTA) The Euro-Mediterranean Association
   agreements between the EU and nearly all of the
   countries on the southern coast have made possible major
   advances in trade liberalization
- Re-launched in 2008 as the Union for the Mediterranean (UfM). One of the main objectives is the de-pollution of the Mediterranean Sea.



#### **EDS** in the Barcelona Process

- 1998 At EDS Conference in Las Palmas.
   EDS was alerted to the Barcelona Process which encouraged cooperation in science and technology between countries around the Mediterranean basin.
- 1999 At an opportune meeting of the African Academy of Science in Hammamet, Tunisia I met with Professor Safi and travelled to Tunis to see his solar pond. On the way EuroMed was born which led to the joint conference in Jerba.



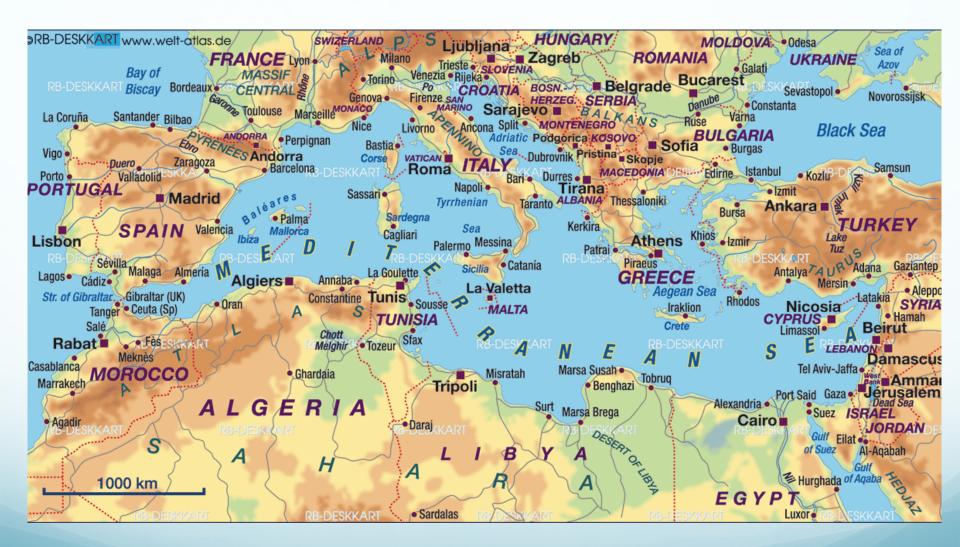


## Las Palmas - Morocco





## Mediterranean Region





#### **EDS Series of Conferences**

- Desalination for the Environment
   Noordwijkerhout 1993, Genoa 1995, Las Palmas 1998,
   Cyprus 2001, Malta 2003, Santa Margherita 2005,
   Halkidiki 2007, Baden-Baden 2009, Barcelona 2012
- EuroMed Desalination Strategies in South Mediterranean Countries
   Cooperation between Mediterranean countries of Europe and the Southern rim of the Mediterranean
   Jerba 2000, Sharm El Sheikh 2002, Marrakech 2004, Montpellier 2006, Dead Sea Jordan 2008, Tel Aviv 2010, Rabat 2013
- Membranes in Drinking and Industrial Water Production

Paris 1995, L'Aquila 1997, Amsterdam 1998, Paris 2000, Mülheim 2002, L'Aquila 2004, Harrogate 2006, Toulouse 2008, Trondheim 2010, Leeuwarden 2012, Brugge 2014

#### **EDS** Conferences

#### 1993-2011

Noordwijkerhout 1993

Genoa 1995

Paris 1995

L'Aquila 1997

Las Palmas 1998

Amsterdam 1998

Paris 2000

Jerba 2000

- Limassol 2001
- Sharm El Sheikh 2002
  Mülheim 2002
- Malta 2003

L'Aquila 2004



Santa Margherita 2005

Harrogate 2006

Montpellier 2006

Halkidiki 2007

Toulouse 2008

Dead Sea Jordan 2008

Baden-Baden 2009

Trondheim 2010

Tel-Aviv 2010

#### **Future Conferences**

Barcelona, Spain, April 2012 Rabat 2013

Algeria 2014





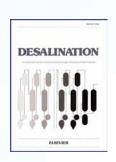


# EuroMed papers in Desalination and Desalination and Water Treatment



Desalination	Conference	No. of papers		
Vols. 136–137 (2001)	) September 11–13, 2000, Jerba, Tunisia			
Vols. 138–139 (2001)	May 28-31, 2001, Lemesos, Cyprus	108		
Vols. 152–153 (2002)	May 4–6, 2002, Sharm El Sheikh, Egypt	98		
Vols. 156–158 (2003)	May 4–8, 2003, Malta	145		
Vols. 165–168 (2004)	May 30-June 3, 2004, Marrakech, Morocco	208		
Vols. 203–206 (2007)	May 21–25, 2006, Montpellier, France	214		
Desalination and Water Treatment				
Vols. 3,5,7,10 (2010)	November 9-13, 2008, Dead Sea, Jordan	125		
Vol. 31 (2011)	October 3-6, 2010, Tel Aviv, Israel	53		
Total		1026		

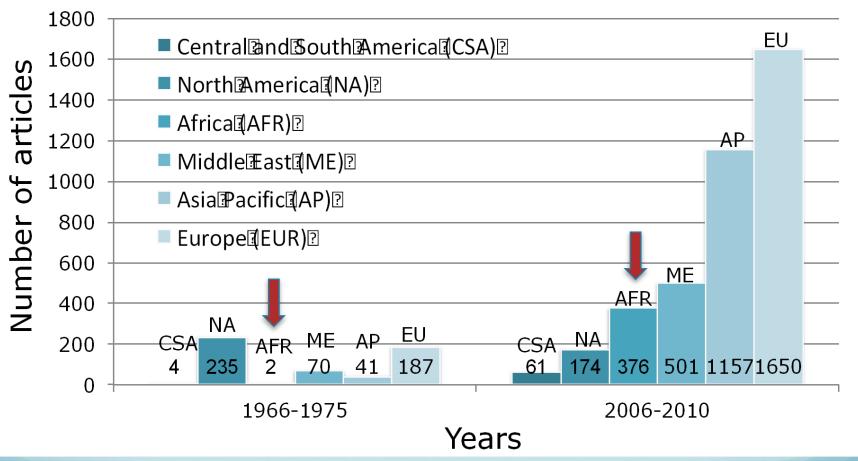




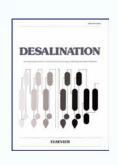
## **Desalination** and **DWT**



#### **Number of Articles by Region**







# Number of articles in *Desalination* and *DWT* 1966–2010



Country	Population (M people)	Articles	Articles per M people
Tunisia	10.5	178	16.95
Libya	6	50	8.33
Algeria	35	224	6.4
Egypt	84.5	225	2.66
Morocco	35	56	1.6

#### Percentage of the total number of articles

1966-1999

After 2000 to now

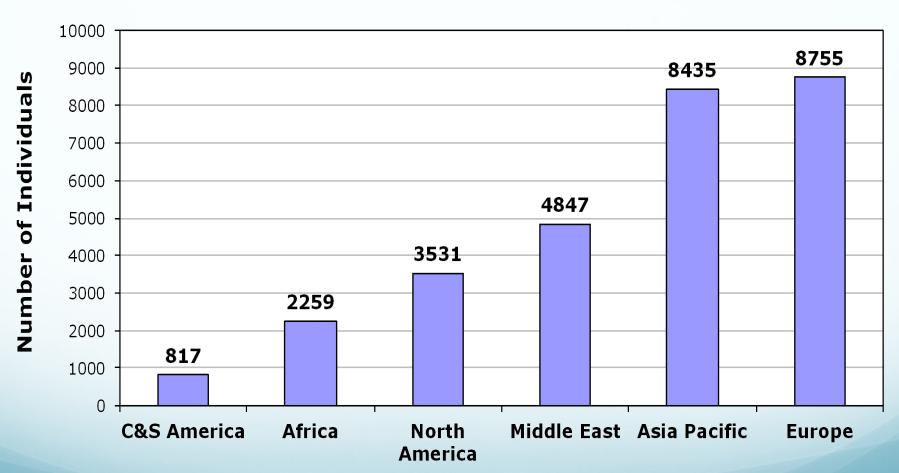
2.4%

9.75%





#### Number of Individuals by Regions Total number 28,644







## EuroMed 2000



#### September 11-13, Jerba, Tunisia

Ecole National d'Ingénieurs de Tunis National Engineering School of Tunis





Conference attended by Rodney Standring from the EC led to EC support of four EDS conferences.



## EuroMed 2002 May 4-8, Sharm El Sheikh, Egypt



ADST Alexandria University Desalination Studies and Technology Center







## Desalination and the Environment May 4-8, 2003, Malta











# EuroMed 2004 May 30-June 2, Marrakech, Morocco



**National Water Supply Agency** 





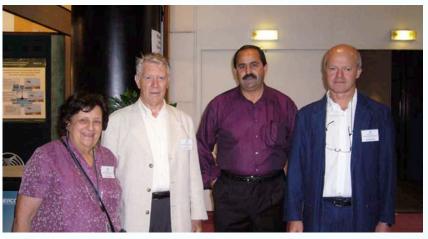




## EuroMed 2004

#### May 22-25, Montpellier, France











# **EuroMed 2008**November 9–13, Dead Sea, Jordan

Under the patronage of HE Prince Faisal bin Al Hussain

Sidney Loeb Award to Kazuo Yamamomoto









## **EuroMed 2010**

#### October 3-7, Tel Aviv, Israel















Moroccan Membrane and Desalination Society



Tunisian Desalination Association

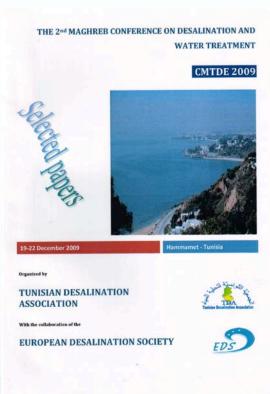
Algerian Water Reuse and Desalination Association (ALWARDA) (under construction)



#### **Tunisian Desalination Association**

#### **Conferences on Desalination and Water Treatment**

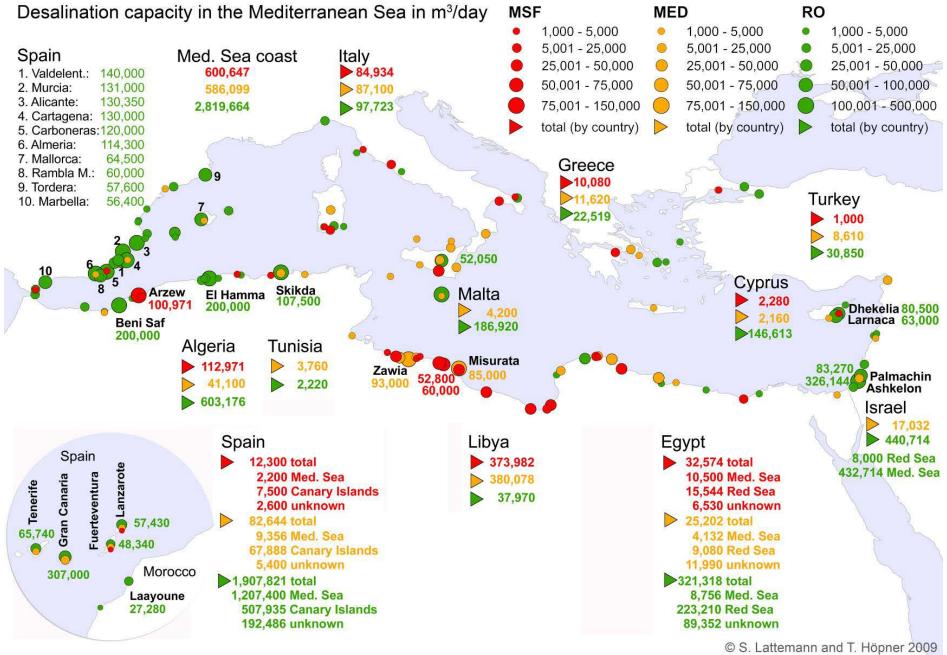






2007 2009 2011





© Lattemann and Höpner (2009). Primary data from IDA (2007). Map includes all plants that are presumed online or in construction and all sites with a capacity > 1,000 m<sup>3</sup>/d.

# From Barcelona to Barcelona process conference

# DESALINATION FOR THE ENVIRONMENT CLEAN WATER AND ENERGY

April 22-26, 2012

