

European Desalination Society



**Election of 6 members to the
Board of Directors 2012–2014**

Ursula A. Annunziata

**Sales Director
Genesys International Limited
UK**



EDUCATIONAL BACKGROUND

Ursula Annunziata studied Chemistry and Marine Zoology at London University and later received her M.Sc. in Applied Hydrobiology. For several years she was an investigative chemist/microbiologist with Unilever and Metal Box R&D, and later joined the Technical Division of Houseman Limited, a water treatment company, as worldwide technical liaison, with projects in the West Indies, South Africa and Egypt. She was a leading researcher on the bacterium that causes Legionnaires' disease in cooling water systems, writing several papers on the subject.

PROFESSIONAL EXPERIENCE

In the last 25 years Ms Annunziata has worked closely in all aspects of membrane technology. Formerly General Sales Manager for PermaCare, Ursula now works for Genesys International Limited, an independent company supplying Technology, Products and Services to the global membrane industry. As a chemist and microbiologist, she has been involved in the operation and optimization of desalination plants large and small, including the USA and South America, Africa, Europe, the Middle East and Asia.

ADDITIONAL INFORMATION

Ms Annunziata has been a Director of the European Desalination Society (EDS) for a number of years, and is currently also on the Board of Directors of the IDA. Her vision for desalination is to help reduce costs, increase availability, optimise resources and lower environmental impact, in order that clean water is available to all.

Sophie Bertrand

**Manager
Desalination Process Department
Degremont, France**



Sophie Bertrand joined Degremont in 2010 as Manager of the Desalination Process Department. Her responsibilities include technical support for tenders and engineering contracts as well as for innovation programs. She holds an engineering degree in environmental chemistry.

She started her career in the Veolia Water Group in 1991 where she got the opportunity to participate in the engineering and commercial development of the membrane technologies for potable and industrial applications. Since the development of the market in large reverse osmosis desalination plants at the end of the nineties, she has been involved in many of the most important plant tenders and/or contracts such as Ashkelon (Israel), Sur (Oman), Fujairah (UAE), Sydney (Australia) or more recently Al Dur (Bahrain). Due to each of those challenging experiences, she has acquired a strong expertise in desalination especially in the pre treatment field, which remains a key issue for ensuring a successful operation of the plants.

Sophie has always committed to share her technical experience in particular through training courses dedicated to the reverse osmosis desalination process. She participated at several SWRO training sessions organized by the MEDRC (Middle East Desalination Research Center) in Bejaia (Algeria), Tunis (Tunisia) and Casa (Morocco). She is a member of the IDA and IWA.

“If elected to the EDS board, I would like to promote and organize high expertise sharing events. A majority of desalting companies being located in Europe, I would like them to commit with EDS in this task”.

Marta Farriols

**European Sales Director
BWA Water Additives
Spain**



Chemical Engineer by the University of Barcelona, Spain. Fourth year of the degree done in London at the Queen Mary and Westfield College.

Currently European Sales Director for BWA Water Additives and previously Membranes Global Director also at BWA.

I started working for BWA Water Additives in 1999 focused already in the Industrial and Desalination water treatment.

BWA Water Additives is fully dedicated to water treatment.

I am a member of EDS, IDA, CaribDa and Aedyr. Also a member of Aquaespaña.

My proposal as a member of the EDS Board is to work towards a more environment-friendly treatment. Use of green chemistry when possible and more efficient chemical treatment of the plants, both in reverse osmosis and in thermal desalination.

Ahmed Hashim Hashim

**Manager, Addur SWRO Desalination Plant &
Ras Abu Jarjur BWRO Desalination Plant,
Water Production Directorate, Electricity
and Water Authority, Kingdom of Bahrain**



B.Sc. in Chemical Engineering and M.Phil./Ph.D. in "Membrane Technology RO" from the University of Newcastle Upon Tyne, UK. Process Engineer at the Bahrain Petroleum Co. (1982). In 1986 joined the Electricity and Water Authority (EWA) as a General Engineer at the Ras Abu Jarjur BWRO Desalination Plant. Chemical Engineer, Senior Chemical Engineer, and Head of Operations at the Addur SWRO Desalination Plant; and promoted to Manager of the Addur Plant in 2004. In January 2012, in addition to current responsibility, assigned as Manager of the Ras Abu Jarjur BWRO Desalination Plant.

Special responsibilities: (1) within EWA: Secretary (representing WPD) in the Operational Procedures Committee; Represented WPD in the Rehabilitation Project of the Addur Plant Pre-treatment System; Assessment of specific modification recommendations and consultancy reports submitted by international consultants; Industrial Safety and Security Directorate's Safety Committee Chairman in the Addur Plant for several years; Member representing WPD in the Outage Planning and Coordination Committee for the whole Electricity and Water Producing Facilities of Bahrain; Member representing WPD in the Coordination Committee for the New Al Dur IWPP; (2) outside EWA, mainly: representing the EWA in the Programme Industrial Advisory Committee "PIAC" for the University of Bahrain for evaluating the B.Sc. Programmes for the College of Chemical Engineering (in cooperation with the American Accreditation Board for Engineering and Technology from 2006–2010 and till–date; representing the EWA in the Industrial Advisory Committee for the Bahrain Technical Institute for evaluating the H.N.D. Programmes for the Chemical Technology Curriculum (in cooperation with a team from local industries and a British Institute of Technology from the UK) from 2005 till 2010; representing the EWA in the Academic Programme Advisory Committee for the University of Bahrain for evaluating, modifying and providing specifications to all the academic educational programmes for the College of Sciences (in collaboration with a team from local industries and entities), commenced in 2010 till–date.

Dr. Hashim authored/co-authored, published and presented numerous papers in several conferences, journals, and workshops.

"I feel that our focus should be towards the impact of desalination plants' liquid/fluid effluents on the seas and oceans and water security issues."

Erineos Koutsakos

**General Manager
MN Limassol Water Co. Ltd.
Cyprus**



EDUCATION AND PROFESSIONAL QUALIFICATIONS – POSITIONS

BSc – Honors degree in Chemical Engineering, Polytechnic of Wales, UK;
MEng – Masters degree in Advanced Chemical Engineering, Bradford University, UK; PhD – Solid Suspensions – Hydrodynamics in Stirred Reactors, UCL, UK; MBA – Masters in Business Administration, Open University, UK; CEng – Chartered Engineer; FIChemE – Fellow Member of the Institute of Chemical Engineers

PROFESSIONAL HISTORY

2009 to date MN Limassol Water Co Ltd, Cyprus, General Manager
(Mekorot-Netcom joint company set-up to run Limassol and Larnaca Desalination plants in Cyprus)
2002–2009 Larnaca Desalination Plant, Cyprus, Plant Manager
2000–2002 Hyder Consulting Ltd, UK, Project Manager
1998–2000 HydroMed Ltd, Cyprus, Director
1990–1998 Thames Water Plc, UK, Principal Research Engineer & Projects Development Manager
1988–1990 UK Centre for Biochemical Engineering, Birmingham University, Post Doctorate Fellow of Research
1982 Cyprus Petroleum Refinery Ltd, Chemical Engineer
1981 ICI Ltd UK, Process Chemist

AIMS FOR EDS ACTIVITY

"I am committed to furthering the sustainability of EDS and its development through introducing new topics and seeking funds for furthering activities".

Xujie Lu

**School of Chemical and
Environmental Engineering
Jiangnan University
Wuhan, P.R. China**



I am committed to the development and promotion of the appropriate use of desalination, desalination technology and water reuse in countries all over the world. I endeavor to achieve these goals by sharing desalination experiences, latest technological and regional advancements, knowledge, resources and best practices. I will focus on all new opportunities available to promote efficient and cost effective solutions for desalination and water reuse and to achieve highest reliability and water quality.

Under the leadership of EDS, I will work at serving the large members, supporting the legal rights of members, carrying out the national policy, ordinance; promoting professional technique progress, increasing economic performance in profession, enhancing international exchange and cooperation, and promoting the development of the whole profession with progress.

My research interests are: Wastewater treatment and reuse, Membrane technology, Disposal of residual sludge and solid wastes, Treatment of leachate

Over 20 publications in research journals.

Giorgio Micale

**Associate Professor of Chemical Engineering
Università di Palermo, Italy**



Giorgio Micale received a Laurea cum laude in Chemical Engineering from Università di Palermo in 1993 and a PhD from Università di Napoli in 1997. He joined University College London as a Lecturer in Chemical Engineering in 2000, promoted to Senior Lecturer in 2002. He is currently Associate Professor of Chemical Engineering at Università di Palermo. From 2005 to 2010 he was deputy-head of the Chemical, Process and Material Engineering Department. From 2011 to present he is the Coordinator of the Board of Studies in Chemical Engineering at Università di Palermo.

His early research interests were focused on the analysis of mixing processes and multiphase flows in stirred tank reactors, developing novel experimental and CFD modelling techniques; these researches resulted in the “Young Researcher’s Award” by the Working Party on Mixing of the European Federation of Chemical Engineering, awarded in May 2001. Current research interests are Fluidization Dynamics Modelling and Renewable Energy Desalination Processes. He contributed to the NATO Workshop “Solar Desalination for the 21st Century” in Tunisia in 2006. He is responsible for several European Research Project such as: MEDIRAS, “Membrane Distillation in Remote Areas”; PRODES, “Promotion of Renewal Energy for Water Production through Desalination”; REAPower, “Reverse Electrodialysis Alternative Power Production”. He has been co-responsible for an international cooperation programme between Italy and Tunisia, funded by the Sicilian Government, and several local research programmes.

He has edited and co-authored a book on “Seawater Desalination. Conventional and Renewable Energy Processes” published in 2009 by Springer which has recently been published in Arabic. He keeps open international collaborations in seawater desalination with a number of research centres, in Germany, UK, Kuwait, Tunisia, Belgium, The Netherlands and others.

Peter Moss

**European RO and NF
Applications Manager
Koch Membrane Systems
UK**



Peter Moss studied at Sheffield University and obtained a Special Honours Degree in Chemistry. He initially worked as the Chemist for Holden Vale, a cellulose pulp manufacturer, in the Hercules Group, where the duties included the water and waste water facilities.

In 1978 he joined Ames Crosta Babcock (now Biwater) as a Process Chemist, where his experience with reverse osmosis started, and worked on many membrane applications including brackish water, seawater and waste water. He later became Senior Engineer responsible for reverse osmosis system design and sales.

In 1985 he joined Mannesmann UK as Project Manager establishing a water treatment group, with responsibility for design, sales and execution of projects.

He currently works for Koch Membrane Systems as European RO and NF Applications Manager having joined Fluid Systems (now part of KMS) in 1989, where he is responsible for technical and applications support for the KMS European and Middle East regional offices.

He is a currently a board member of EDS and is a chartered member of RSC and CIWEM and a member of IDA, and FS.

Aims for the future of EDS are to continue to work with other board members to promote the appropriate development and use of desalination technology for society for today and the future.

Erik Roesink

**Director of Blue Sky Innovation
and Business Development
Pentair CPT Water
The Netherlands**



I started my membrane career in the mid-seventies, was co-founder of X-Flow in the mid-eighties, developed during my PhD work the membranes, that are still produced by Pentair X-Flow, and consequently I bring a lot of experience in the field of membrane technology.

At the moment my focus is on innovation and business development. In that role I am maintaining and expanding an international network in which I connect universities, institutes, and private agencies.

Being a member from the industry it will be my role to create a stronger “bridge” between the business world and the academic world. I am convinced, that based upon my background I can strongly contribute to the positioning of EDS.

Olga Villa Sallangos

**Dhekelia Desalination, Plant Manager
Caramondani Desalination Plants Ltd
Cyprus**



Olga Sallangos was born in Medellin, Colombia. She is a holder of a diploma in Civil Engineering from Medellin University.

She has 26 years experience in the water treatment field with the last 23 years dedicated to desalination processes. During the last 16 years she has been the Plant Manager of Dhekelia Seawater Desalination Plant in Cyprus.

Her special interests include energy consumption issues, post-treatment of desalinated water and membrane management. She has taken part in many piloting testing and thoroughly studied these issues.

Member of EDS, IDA, AWWA and ETEK.

Olga Sallangos would like to work to increase the collaboration between members of EDS so as to establish means to compare the performance of different desalination factories on the same basis. The principle should also be established for the comparison of tenders. These should include a platform to have common data such as TDS, Energy Consumption, Treated Water Quality, Operating period, etc evaluated on the same basis.

Rick Stover

**Executive Vice President
Desalitech, Ltd.
Newton, Massachusetts, USA**



Richard L. Stover, Ph.D. has twenty-five years of professional experience, specializing in water technologies.

His current work with Desalitech aims to simplify and improve water treatment with a next-generation RO process. Dr. Stover previously served as Chief Technical Officer for Energy Recovery, Inc. where he led the development and launch of energy recovery devices and pumps for seawater RO. He also served as VP of Engineering for Oasys Water where he developed forward osmosis processes for desalination, water reuse and osmotic power. Dr. Stover earned a doctorate degree in Chemical Engineering from the University of California at Berkeley and a bachelor's degree in Chemical Engineering from the University of Texas. He has been granted numerous patents for desalination methods and devices. Dr. Stover was co-recipient of the EDS 2006 Sidney Loeb award for outstanding innovation. He currently serves on the board of IDA.

STATEMENT OF CANDIDACY FOR EDS BOARD OF DIRECTORS

“I am firmly committed to the development and application of desalination and water reuse to address the global water crisis. I have been an advocate of and an active participant in EDS since 2004, and recognize EDS as an important and exciting organization. By welcoming a broad range of participants, including companies, universities, research institutes and government agencies, EDS provides a diverse and empowering forum for the advancement of desalination and membrane technologies. EDS offers a truly international platform for exchanging information, facilitating collaboration and providing leadership. As such, it is appropriate and advantageous to incorporate board members from outside of Europe where many water treatment technologies have been conceived and developed and where resources for the continued advancement of the field are available. I pledge to bring a high level of energy and commitment to help EDS grow and thrive. As an active member and a consensus builder, I will work to assure that sound decisions are made that promote the interests of the EDS constituency.

Santi Talo

**Senior Sales Director Europe,
Africa and Middle East
Hydranautics
Barcelona, Spain**



Santi Talo is Senior Sales Director EU/AFR/ME for Hydranautics, where he has worked since 1997. Over the past 14 years, he has been organizing the regions that he has covered, establishing new distribution channels with continuous training and service for the correct use and service to each installation, customer and/or person who needs or wants to work using desalination technology. During those 14 years, he has presented more than 30 papers in different exhibitions and congress around the world.

EDUCATION

Chemical Industrial Engineer, Universidad Politecnica de Catalunya
MBA, ESADE Ramon Llull University

VISION STATEMENT

“I have the commitment that we have to bring the appropriate use of the technology that we are honored to have in our hands. This is a small world with few people involved. Service is the main target. During all these years, increasing unification of the world's economic so-called globalization has reduced the barriers where desalination technology is applied. I have been a member of the EDS since the late 1990s, and now I want to bring young blood into the team to try to bring my experience and knowledge to help the continuous growth of EDS.”

Yury Volkovich

**Leader Researcher
A.N. Frumkin Institute of Physical Chemistry
and Electrochemistry of Russian Academy
of Sciences, Moscow**



EDUCATION

Graduated from Moscow D.I. Mendeleev Chemical Technology Institute in 1962 (Specialty: Electrochemical Technology)

Ph.D. 1969 Thesis title: Micro- and macrokinetics of electrooxidation of methanol on smooth and porous electrodes (Electrochemistry)

Dr.Sci. 1983 Thesis title: Macrokinetics of processes in fuel cells with capillary membranes and methods of standard porosimetry.

SCIENTIFIC ACTIVITY

1962–1966: Power Sources Institute (Moscow)

1966–present: A.N.Frumkin Institute of Physical Chemistry and Electrochemistry, Leader Researcher; Capacitive deionization (desalinization) of water solution, supercapacitors, fuel cells, batteries, development of methods and devices for investigations of porous structure and others properties of porous bodies.

BASIC ACHIEVEMENTS

Development of scientific basis of electrochemical processes in the fuel cells for the Soviet and Russian space programs (1970–1995).

Development of a new method and new equipment - Method of Standard Contact Porosimetry - for investigation of porous structure and sorption properties of any porous and dispersed bodies (1976–2002).

Development of a new type of hybrid supercapacitor (1998–2006).

Development of mathematical model and experimental verification of the capacitive deionization (desalinization) of water solution (2007–2011).

MY AIMS FOR THE FUTURE YEARS OF EDS ACTIVITY

"I will promote EDS conferences and visits to plants and exchange of technical information on the capacitive deionization (desalinization) of water solution."

Hans Vrouwenvelder

**Delft University of Technology
and KAUST
The Netherlands and Saudi Arabia**



Dr. Vrouwenvelder has 22 years of experience in research on microbiological and technological aspects of water treatment and distribution. He is an expert in (drinking) water microbiology, biofilm formation and biofouling, shown by the tools he developed, his publications list and citation index. He has been involved in the organization of several international workshops on biofouling and biological stability.

After completing his study Bioprocess Technology in Delft, Dr. Vrouwenvelder worked at Delft University of Technology (1990–1993). 1993–2006 he was employed by Kiwa, further developing his expertise on water treatment and distribution. He completed his Ph.D. "Biofouling of spiral wound membrane systems" in 2009. Current research efforts include application of membrane processes for water quality control including desalination, biological stability of (desalinated) water during distribution and water sanitation in developing countries.

Dr. Vrouwenvelder has been scientific supervisor of the biofouling research team at Wetsus and research manager at Delft University of Technology (2009–2011). He is now responsible for the research on biofouling and biological stability at KAUST and Delft University of Technology, where he leads a research group of 11 FTE. At KAUST he is also lecturer in Membrane Technology and Environmental Microbiology. He has lectured at numerous international conferences and academic courses. He has supervised more than 50 MSc and PhD students and postdocs. He has an extensive network of national and international research institutes, water supply companies, organizations and industrial companies.

He acknowledges EDS for its important role in exchanging, promoting and disseminating information on desalination and membrane technology by conferences, workshops and training courses. In EDS, he intends to play an active part in improving human and institutional capabilities through training courses, organizing of and presenting during conferences and workshops and by improving the sustainability by membrane processes by promoting research and knowledge transfer in this area.

Hiroyuki Yamamura

President

**Toray Membrane Europe AG
Muenchenstein, Switzerland**



Hiroyuki Yamamura has more than 30 years of experience in the membrane and water treatment industry, starting his work in R&D on new RO membrane in 1978 with Toray Industries Inc. Since then he has been largely contributing to development and commercial application of Toray's membrane products as well as to technology progress in the market. His works included not only RO but other leading edge technologies such as MF, UF, MBR, gas separation, deaeration and fuel cells. During over 20 years with Toray's R&D Division, he served in a variety of important positions and has been leading R&D and application of various kinds of new membranes. In 2001 he moved to the business division as GM.

At present he is President of Toray Membrane Europe AG, Switzerland.

Though Hiroyuki Yamamura's basis was in Japan in the past, he has many relations with European affiliates. His presentation on UF hollow fiber membrane at 1993's EDS conference in Germany generated excitement for this new UF and backed up the entire development in the market. He initiated and promoted collaborations with European companies and research centers. In the delegation dispatched from Japan's Water Research Center (JWRC) in 1998, visiting Germany, France, and Netherland for the purpose of understanding of European water treatment technology, he was in charge as acting leader. The relationships initiated then are still continuing. Graduated from Osaka University Japan with the Degree of Bachelor of Engineering Science in March 1977. Member of EDS, IDA, and JDA (Japan Desalination Association).

"My vision for EDS is to dispatch useful information on water to the world from Europe, to strengthen its position and to promote global cooperation. Many reputable and capable institutes and companies are in Europe and their impact is not limited to Europe. Continuous updates on the latest developments will contribute to the promotion of a stronger presence of EDS and its members. I aim to contribute to the European water society by serving as a bridge between Europe and other regions, especially Asia including Japan, Korea, China, Singapore and Australia."