

















REPORT

REPORT

on

Regional Training Course on

Coastal Desalination Intake and Brine Disposal System- Planning, Design and Implementation

(Online)

27 -29 October 2021

11:00 am- 13:30 (Tehran Time +3:30 GMT) Every day

INTRODUCTION

Regarding the importance of desalination plants in the region and considering that many large desalination plants, mostly coastal, have been constructed or are under construction in the region of the Persian Gulf, the Oman sea and even the Caspian Sea, and their environmental impacts, the Regional Training Course on Coastal Desalination Intake and Brine Disposal System- Planning, Design and Implementation was organized to be held from 27-29 October 2021.

This course was held online from 11:00 am to 13:30 each day for 3 days by UNESCO Category 2 Regional Ecucation and Research Centre on Oceanography for West Asia (RCOWA) in cooperation with Babol Nooshirvani University of Technology, Ramsar Regional Centre – Central and West Asia, IORA Regional Centre for Science and Technology Transfer, Inter-Islamic Network on Oceanography (INOC), and IOC Regional Committee for the Central Indian Ocean (IOCINDIO).

The course was presented by Dr. Ozeair Abessi, Assistant Professor of Babol Nooshirvani University of Technology, Babol, Iran.



















140 experts and students of the region registered. 75 users participated in the course. The participants were from Iran, Oman, Kuwait, Yemen, Pakistan, Japan, Iraq, Egypt, Somalia, Russia, Madagascar and Malaysia.

The couse was opend officially by the Director of the Regional Ecucation Regional Education and Research Centre on Oceanography for West Asia (RCOWA), Prof. Behrooz Abtahi. Prof Abtahi welcomed the participants and noted the importance of the Desalination plants for the regions and the oceanographic researches in this field.

In the course, some of the essential issues involved in the managment and modeling of sea water deep intakes and brine discharge systems alonge the near field were discussed.



Opening of the course - From Left: Dr. Ozeair Abessi, Assistant Professor of Babol Nooshirvani University of Technology, Prof Behrooz Abtahi, Director of RCOWA and Director of Iranian National Institute for Oceanography and Atmospheric Science (INIOAS), Ms. Fahimeh Foroughi, RCOWA Secretatiate & Head of International Cooperation Office of INIOAS





















ORGANIZER

Organizer:

Regional Education and Research Centre on Oceanography for West Asia (RCOWA) under the auspices of UNESCO

Moral sponsers:

- Babol Nooshirvani University of Technology,
- Ramsar Regional Centre Central and West Asia,
- IORA Regional Centre for Science and Technology Transfer,
- Inter-Islamic Network on Oceanography (INOC), and
- IOC Regional Committee for the Central Indian Ocean (IOCINDIO)

LECTURER

Dr. Ozeair Abessi, Assistant Professor, Babol Noshirvani University of Technology, Babol, Iran

Dr. Ozeair Abessi, Ph.D. is Assistant Professor of Water and Environmental Engineering at Babol Noshirvani University of Technology. Dr. Abessi's professional interests are in Environmental Fluid Mechanics and its



application to the engineering design of marine outfalls for the disposal of wastewaters and desalination brine. During the last 15 years, he has been involved in some international research projects in USA, Canada, New Zealand, Brazil and Oman. Dr. Abessi has spent a sabbatical at UFPR, Brazil working with Dr. Tobias Bleninger on the fluid mechanics of inshore surface channel for brine discharges and also worked with Prof. Mark Davidson at University of Canterbury, New Zealand on the hydraulic of surface brine discharge in flowing waters. Dr. Abessi's last position was visiting research faculty at the Georgia Institute of Technology, USA, where he spent 3 years working with Prof. Philip Roberts on a project funded by United States Bureau of Reclamation (USBR) on the optimization of desalination brine diffuser. Dr. Abessi has lectured widely on outfall design and had an international talks and short courses at Sultan Qaboos University (SQU), Oman



















and Ottawa University, Canada. He is presently a member of the IAHR/IWA joint Committee on Marine Outfall Systems. Dr. Abessi published several articles on the brine outfall design and contributed to IWA 2016 report on Global Trends & Challenges in Water Science, Research and Management that published every 10 year on the future of Water Science researches. Dr. Abessi wrote a chapter for Elsevier on Sustainable Desalination Handbook (2018) about Brine Disposal Management, Planning and Design and recently wrote Iran's Guideline for Environmental Studies of Coastal Desalination plants.

LANGUAGE

English

HEADLINES

- Environmental Impact of coastal desalination plants
- Sea water intakes and the design standards
- Brine discharge in costal desalination plants
- Discharge modeling and water quality standards
- Integral models and numerical modeling
- Turbulent flow and CFD simulation

AGENDA	GENDA								
Time (Teheran Time, +4:30 GMT)		Outline							
27 October- Day 1	11:00-11:10	Opening							
	11:10- 12:00	 Environmental Impact of coastal desalination plants Coastal deslination brine, Characteristics, Procedure and Environmental Impacts Coatsal eco-sensitive areas, Siting regulations and Environmental Impact Assessment studies 							
	12:00-12:10	Break							





















	12:10- 13:30	 Sea water intakes An intrudcution to Open and Sub-surface intakes, Deslaination most common sea water intake Design standards, Guidlines and Modeling procedure
28 October – Day 2	11:00- 12:00	 Brine discharge in costal desalination plants Marine outfall applications: capabilities and limitations Brine charactristics, Standards and disposal methods
	12:00-12:10	Break
	12:10- 13:30	 Brine discharge modeling Near field modeling, Physical Mixing process and Mixing Zone Analysis Mixing theory and equations
29 October- Day 3	11:00- 12:00	 Integral models and numerical modeling Modeling and simulation approaches, experimental results, Design Scheme and de facto standards CORMIX Expert system for outfall design and discharge assessment,
	12:00-12:10	Break
	12:10- 13:30	 Turbulent flow and CFD simulation Modeling of turbulent flow, RANS models. Limitations and capabilitie of current models
	13:30- 13:40	Closing

















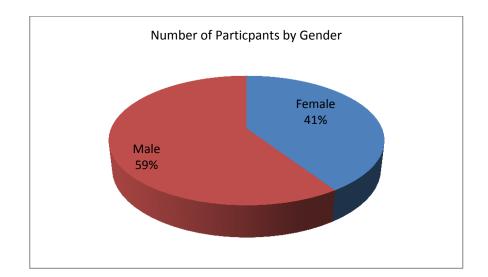




PARTIICPANTS

140 experts and students of the region registered and 75 users participated in the course.

The participants were from Iran, Oman, Kuwait, Yemen, Pakistan, Japan, Iraq, Egypt, Somalia, Russia, Madagascar and Malaysia.























List of recived registrations.

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138.	Mr	BAKO Marcel	Male	Master of geography - University of Toamasina/Madagascar	CFIM/Membre CNGIZC	Madagascar	marcel.bako3101@gmail.com
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140.							
140.	Mr.	Hery Razafimamonjiraibe	Male	Master 2 in Applied Economics, Specialization in Economics and Management of the Environment and Environmental Impacts (Montesquieu Bordeaux IV University)	International NGO "Blue Ventures"	Madagascar	*herylova@blueventures.org



















POSTER



REGIONAL TRAINING COURSE ON: REGIONAL TRAINING COURSE ON: COASTAL DESALINATION INTAKE AND BRINE DISPOSAL SYSTEM- PLANNING DESIGN AND IMPLEMENTATION



- Environmental Impact of coastal desalination plants
- · Sea water intakes and the design standards
- Brine discharge in costal desalination plants

 Biothers and discharge in costal desalination plants

 Output

 Discharge in costal desalination plants

 Output

 Discharge in costal desalination plants

 Output

 Discharge in costal desalination plants

 Discharge in costal desalination plants

 Output

 Discharge in costal desalinat
- Discharge modeling and water quality standards
- · Integral models and numerical modeling
- · Turbulent flow and CFD simulation
- * Registration Deadline: 16 October 2021
- *The link of the training course will be sent to the email of the eligible participants on 21 October.

Email address: inioas@inio.ac.ir

Dr. Ozeair Abessi, Assistant Professor, Babol Noshirvani University of Technology, Babol, Iran

Tehran time

11:00 AM-13:30 PM 27-29 OCTOBER 2021

ONLINE - EVERY DAY