

Workshop on Salts and Chemicals Extraction from Saline Waters for IORA Countries

Tehran, Islamic Republic of Iran
15-17 October 2019

Venue: Sharif University of Technology

Tuesday: 15 October 2019

Opening Ceremony

- 09:00 – 9:30 Registration
- 09:30 – 10:30 Citation of Holy Quran
- Welcome Speech by Dr. Tahereh Miremadi, Director of Regional Centre for Science and Technology Transfer (RCSTT)-IORA
- Welcome Speech by Dr. Ali Asghar Alamolhoda, Secretariat of Desalination Committee, Ministry of Science and Technology
- Invited honorary speaker (TBA)
- Guest Speakers (TBA)

10:30 – 11:00 Break

11:00 – 12:00 - Introductory

12:00 – 13:30 Lunch

Session 1:

Environmental impacts of brine discharge (Moderator: Dr. Madjid Abbaspour)

- 13:30 – 14:00 South African brines and current and potential treatment processes
By: Prof. Alison Lewis
- 14:00 – 14:30 Environmental Impacts of Desalination Plants in Iran
By: Prof. Parvin Farshchi
- 14:30 – 15:00 Metal accumulation in soils and plants irrigated with saline and treated wastewaters
By: Prof. Ahmed Al-Busaidi
- 15:00 – 15:15 Break*
- 15:15 – 16:00 Discussion
- 16:00 – 16:15 Day One Wrap-up

Wednesday: 16 October 2019

Session 2:

Dual-purpose desalination plant (Moderator: Dr. Soheila Shokrollahzadeh)

9:00 – 9:30 Producing salts and chemicals from desalination plant brine: Possibilities and Challenges

By: Prof. Al-Haddabi

9:30 – 10:00 Technological and Industrial Developments of Salts and Chemicals Extraction from Saline Waters in China

By: Prof. Liu Luofeng

10:00 – 10:30 Dual Purpose Desalination (Water and Salt) Plants

By: Dr. Ali Jafarian

10:30 – 10:45 *Break*

10:45 – 11:45 Discussion

11:45 – 13:15 *Lunch*

Session 3:

Valuable and Trace Elements (Moderator: Dr. Ali.A. Alamolhoda)

13:15 – 13:45 Extraction of trace elements from seawater: a biophysical perspective

By: Prof. Ugo Bardi

13:45 – 14:15 Extraction of edible salt from high TDS brine

By: Mr. Ekhteraei

14:15 – 14:45 Brine evolution and mineral extraction of Urmia Lake

By: Dr. Razyeh Lak

14:45 – 15:00 *Break*

15:00 – 16:00 Discussion

16:00 – 16:45 Closing Ceremony