

Training course: Soil Salinity and Soil Fertility Management in Africa



“An integrated approach for managing salt-affected lands to improve agricultural productivity and reduce food insecurity and poverty in Africa”

Funder
Islamic Development Bank
(IDB), Saudi Arabia

Organizer
International Center for
Biosaline Agriculture (ICBA),
United Arab Emirates

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**For more information and other
publications visit**
www.biosaline.org

Date: 11-15 October 2015

Venue: ICBA headquarters, Dubai, United Arab Emirates

Agenda

Sunday 11 Oct 2015

0900-0930 **Registration**

0930-1000 **Inauguration session**

Welcome address by Dr. Shoaib Ismail, Director R&I
Speech of Dr. Ismahane Elouafi, DG-ICBA
Introduction of Participants
Group Photo

1000-1030 **Tea/Coffee Break**

1030-1200 **Country Salinity Reports**

Presentations by training participants

1200-1245 **Lecture 1:** Mechanisms of soil salinity and sodicity development

Dr. Shabbir Shahid, Salinity Management Scientist, ICBA

1245-1300 Discussion

1300-1400 **Lunch and Prayer Break**

1400-1630 **Lecture 2:** Techniques of soil salinity assessment

Exercise I: Measurements of soil salinity-Laboratory work
Dr. Shabbir Shahid and his laboratory Team

Monday 12 Oct 2015

0900-1030 **Lecture 3:** Identification of salinity causes, effects, and potential interventions

Dr. Richard Soppe, Marginal Water Management Scientist, ICBA

1030-1100 **Tea/Coffee Break**

1100-1145 **Lecture 4:** Soil quality and productivity in Africa

Dr. Abdullah Alshankiti, Senior Soil Scientist, ICBA

1145-1200 Discussion

1200-1245 **Lecture 5:** Nutrient cycling for marginal environments

Dr. Shabbir Shahid, Salinity management scientist, ICBA

1245-1300 Discussion

1300-1400 **Lunch and Prayer Break**

1400-1445 **Lecture 6:** Integrated nutrient management approaches

Dr. Shagufta Gill, Soil Microbiologist, ICBA

1445-1500 Discussion

1500-1700 **Exercise II:** Analysis of soil and plant nutrients

Dr. Abdullah Alshankiti/Dr. Shagufta Gill and Laboratory Team

Tuesday 13 Oct 2015

0900-1030 **Field visit I:** ICBA Experimental Station
Dr. Asad Qureshi and his Field Team

1030-1100 **Tea/Coffee Break**

1100-1145 **Lecture 7:** Forage and cereal production systems for salinity management
Dr. Abdullah Dakheel/Dr. Iftikhar Hussain, Production Management Scientist/ Post-Doctoral Fellow, ICBA

1145-1200 Discussion

1200-1245 **Lecture 8: Biotechnology vision at ICBA: Plants for the future**
Dr. Khalid Masmoudi, Senior Molecular Biologist, ICBA

1245-1300 Discussion

1300-1400 **Lunch and Prayer Break**

1400-1445 **Lecture 9:** Protective Agriculture: concepts and advances in ICBA
Dr. Redouane Choukrallah/Dr. Hirich Aziz, Senior Horticulturist/Post-Doctoral fellow, ICBA

1445-1500 Discussion

1500-1545 **Lecture 10:** Integrated crop and aquaculture approach for marginal land and water environment
Dr. Shoaib Ismail/Dr. Dionyssia Lyra, Director/Halophyte Scientist, ICBA

1545-1600 Discussion

Wednesday 14 Oct 2015

0900-0945 **Lecture 11:** Use of different quality waters for salinity management
Dr. Asad Qureshi, Irrigation/Water Management Scientist, ICBA

0945-1000 Discussion

1000-1045 **Lecture 12:** Production of High Resolution climate change scenarios using dynamical downscaling techniques
Mr. Karem Bergaoui, Climate Change Scientist, ICBA

1045-1100 Discussion

1100-1130 **Tea/Coffee Break**

1130-1215 **Lecture 13:** Crop modeling for system optimization
Dr. Makram Belhaj Faraj, Agronomy Scientist, ICBA

1215-1230 Discussion

1230-1300 **General Discussion/New research and proposal Ideas**

1300-1400 **Lunch and Prayer Break**

1400-1430 Course Evaluation

1430-1600 **Closing Ceremony**

Thursday 15 Oct 2015

0900-1230 Field Visit
Dr. Abdullah Alshankiti/Dr. Asad Qureshi

1230-1400 **Lunch and prayer Break/Close of workshop**