

ROPME

SEA KAPS



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WORKSHOP ON CHEMICAL HAZARD MODELLING



Bahrain, 30th APRIL- 1st MAY 2001

INTRODUCTION

In accordance with the Decision CM11/19 of the Eleventh Meeting of the ROPME Council (October 2000) relating to the Development of a Safety Programme for Harmful Substances, a Workshop for the Chemical Hazard Modelling and Other Harmful Substances was convened at MEMAC Regional Training Centre in Bahrain during 30 April - 1 May 2001.

MEMAC has been concentrating in combating pollution by oil as the



main threat to the marine environment during the last two decades. The rapid urbanization and industrialization in the Region due to the chemical and petrochemical based industries urged Member States to take a decision for a proper safety programme in dealing with harmful substances and other types of pollution. Since the pollution by chemicals is different from pollution by oil due to its far reaching impacts to human life and marine environment, and as it has a wide range of various products and difference characteristics, a different model internationally used has been introduced.

OBJECTIVES

The main objective of the Workshop was to train personnel of the Member States and capacity building in the field of marine environment protection and safety in dealing with chemicals and other harmful substances.

ATTENDANCE

The Workshop was attended by delegates from Member States, representatives of GAOCMAO Member Companies, experts from UNEP, United States Coast Guard, AEA Technology-UK, Applied Science Associates (USA), as well as professional staff of MEMAC.

OPENING OF THE WORKSHOP

The Workshop was opened at 08:30 a.m. on Monday 30 April 2001 by a welcome statement by Capt. A. M. Al-Janahi, MEMAC Director, on behalf of H.E. Dr. Abdul Rahman Al-Awadi, Executive Secretary of ROPME.

Capt. Al-Janahi explained the role of MEMAC in combating the pollution by oil and other harmful substances in protecting the marine environment of the Region. He stated that the rapid development due to the petrochemical industries in the Region paved the way for the ROPME Council to think and assign MEMAC to look into its impacts on human health and the marine environment.

He further emphasized the importance of the Workshop which introduces difference chemical products, gases and other harmful substances with a



wider range than the oil and its needs for a more precautionary measures to be taken before and during the incidents. He also added that since the traffic of chemical materials has increased the potential risk of accidents have also increased.

Capt. Janahi stated that there are various models available world wide to deal with the different chemical incidents scenarios. Since the Region deals with different chemical products, MEMAC made those models available in the Workshop for the benefit of all the participants.

At the end, he wished all the participants a successful workshop and wished them a pleasant stay in Bahrain.

ORGANIZATION OF THE WORKSHOP

As the chemicals and other harmful substances have a wide range and long list of products, there are many models set to deal with the different incident scenarios round the globe. MEMAC invited well known and experienced experts in the field to share and present the subject to the participants.

Appplied Science Associates Inc. has a system in use in many parts of the world as well as in the ROPME Sea Area. The system known as "CHEMMAP Model" was introduced by Messrs. Eric Anderson and Thomas Roderick. This model can be designed and modified to the requirements of the Region.





UNEP/ROWA represented by Dr. Ahmed Basel introduced APPEL Model for the Ports and Terminal. This Model is available on the Internet.

United States Coast Guard National Strike Force represented by Captain Harlan Henderson introduced the CHRIS Model used by United States of America and many other countries of the world. This model is available on their web site.

The National Chemical Emergency Centre, AEA Technology, which is the replacement of Warner Spring Laboratory of UK, represented by Dr. Jenny Corps, introduced the Emergency Centre Database Systems. The Centre is kept active round the clock for use by its Members. A Member has to pay a annual subscription fee. A life exercise was carried out between the participants and the centre both in Arabic and English languages.

WORKSHOP SUBJECTS

All the system and model subjects introduced as spill incidents and past incidents and experience :



- Different chemical database in use
- Fates Model description
- Model description
- Sensitivity analysis for chemical spills
- Chemical spill model forecasts/hindcasts and environment risk assessment
- Chemicals discharge Model systems
- Information required during chemical spills
- Emergency response to marine chemical spills
- Model for port and terminal as a guide to raise awareness and preparedness in emergency
- Develop an integrated emergency preparedness and response strategy

CLOSURE OF THE WORKSHOP

On behalf of H.E. Dr. Abdul Rahman Al-Awadi, Executive Secretary of ROPME, Captain Al-Janahi presented the course certificate to all the participants and wished them all the success in their work. Captain Al-Janahi expressed the organizations appreciation of the lecturers work for their efforts in leading the course to a successful conclusion. The Workshop was declared closed at 1430 hours on 1 May 2001.

LIST OF PARTICIPANTS

MEMBER STATES

STATE OF BAHRAIN

Mr. Jaffar Ahmed SALMAN
Eng. Feras Abbas AMEEN

STATE OF KUWAIT

Mr. Abdulla Abdul Nabi SLIMAN
Mr. Hamza Abbas A. KARAM

SULTANATE OF OMAN

Mr. Ibrahim Hamed WEDWADI

STATE OF QATAR

Eng. Hassan KHOWAR

KINGDOM OF SAUDI ARABIA

Mr. Jamal KAZIM
Mr. Khaled S. AL-RASHEED

UNITED ARAB EMIRATES

Mr. Nashaat AL-BADAWNA

OTHERS

ADMA/OPCO

Mr. Abdulla Jaber Al-Kuwaiti
Mr. Waleed Bin Braik
Mr. Waleed Al-Shamsi

AGOC/AOC

Mr. Tareq M. AL-MOHAINI

OTHERS (Contd.)

BAPCO

Mr. Ali Salman Ali

Bahrain Society of Engineers

Eng. Mubarak E. Al-Kawari

SAUDI ARAMCO

Mr. Ali M. BAYOUNIS

SWCC

Mr. Mohd Abdulla KANO

Mr. Abdulsalam A. AL-MOBAYED

Mr. Saleh AL-BUTHI

SPEAKERS

Mr. Eric ANDERSON
Applied Science Associates Inc.

Mr. Roderick M. Thomas
Applied Science Associates Ltd.

Dr. Jennifer CORPS
AEA Technology Environment

Dr. Basel Al-Yousfi
UNEP/ROWA

Captain Harlan HENDERSON
USCG

MEMAC

Captain A. M. Al-Janahi

Captain Ali Haji HASAN

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