

## WORKSHOP

### “ANALYSIS AND SAMPLING OF AIR AND AIR POLLUTION”

Cairo House  
Cairo, 14<sup>th</sup> – 18<sup>th</sup> May 2006

#### **9,30 Opening of the Workshop**

EEAA and RBO Responsibles/Experts  
APAT and MATT Experts

#### **Tour de table**

Presentations of each APAT and EEAA Experts with short details on their activities  
Presentation of the Workshop  
Mr. Emam Hussein EEAA  
Mr. Gaetano Battistella APAT

### **1. AIR POLLUTION AND ENVIRONMENTAL IMPACTS**

#### **1. Brainstorming (based on experiences)**

- Environmental impacts of hydrocarbons (oil and gas)
- Identification of the sources of pollutant substances emissions;
- Training of experts for the adoption and use of the new instruments and tools;

EEAA Experts/RBO Experts  
APAT Experts (Mr. Leonardi Mr. De Lauretis, Di Menno, Mr. Battistella)

#### **12,30 High Tea**

#### **2. Brainstorming (based on experiences)**

- Integrated system of information concerning the emissions of pollutant substances into the air
- Studies about environmental, social and economic impacts of transport
- Studies about obsolete vehicles impacts (> 20 years)

EEAA Experts/RBO Experts  
APAT Experts (Mr. De Lauretis, Mr. Leonardi, Mr. Di Menno, Mr. Battistella)

#### **3. EEAA/APAT comments**

#### **15,30 Ordinary Break**

#### **4. Working group N. 1**

Design and check an example of an integrate national system for air pollution

EEAA Experts/RBO Experts  
APAT Experts (Mr. De Lauretis, Mr. Leonardi, Mr. Battistella, Mr. Di Menno)

#### **17,30 Closing of the works**

## **9,30 Opening of the works**

### **5. Presentation of results of Working group N. 1**

EEAA Experts/RBO Experts

### **6. Conclusion**

EEAA Experts/RBO Experts

APAT Experts (Mr. De Lauretis, Mr. Leonardi, Mr. Di Menno, Mr. Battistella)

## **2. AIR POLLUTANTS AND CONTROL**

### **1. Brainstorming (based on experiences)**

1. General principles on air quality monitoring equipment
2. PM10, PM2,5 monitoring equipment
3. Quality control for air monitoring equipment;

EEAA Experts

APAT Experts (Mr. Di Menno, Mr. Leonardi, Mr. Battistella)

### **12,30 High Tea**

### **2. Brainstorming (based on experiences)**

4. SO<sub>2</sub>, NO<sub>x</sub>, CO etc. monitoring equipment;
5. Mobile system for air monitoring
6. Evaluation of pollutants

EEAA Experts/RBO Experts

APAT Experts (Mr. Di Menno, Mr. Leonardi, Mr. Battistella)

### **3. EEAA/APAT comments**

### **15,30 Ordinary Break**

### **4. Working group N. 2**

Defined applicable criteria for an air monitoring network

EEAA Experts/RBO Experts

APAT Experts (Mr. Di Menno, Mr. Leonardi, Mr. Battistella)

### **17,30 Closing of the works**

## **9,30 Opening of the works**

### **5. Presentation of results of Working group N. 2**

EEAA Experts/RBO Experts

### **6. Conclusion**

EEAA Experts/RBO Experts

APAT Experts (Mr. Di Menno, Mr. Leonardi, Mr. Battistella )

## **3. EMISSION MONITORING AND EQUIPMENT**

### **1. Brainstorming (based on experiences)**

- Modernization and updating of the equipment (software e hardware) needed for the monitoring of air emissions
- Possible Technical Details

EEAA Experts

APAT Experts (Mrs. Belli, Mr. Di Menno, Mr. De Lauretis, Mr. Leonardi, Mrs. Ardoino, Mr. Battistella,)

## **12,30 High Tea**

### **2. Brainstorming (based on experiences)**

- General principles on emission monitoring equipment
- Equipment for continuous emission monitoring

EAA Experts/RBO Experts

APAT Experts (Mrs. Belli Mr. Di Menno, Mr. De Lauretis, Mr. Leonardi, Mrs. Ardoino, Mr. Battistella)

### **3. EEAA/APAT comments**

## **15,30 Ordinary Break**

### **4. Working group N. 3**

Design a draft of Guidelines for environmental monitoring including equipment

EEAA Experts/RBO Experts

APAT Experts (Mrs. Belli, Mrs. Ardoino, Mr. Leonardi, Mr. Di Menno, Mr. Battistella)

## **17,30 Closing of the works**

## **9,30 Opening of the works**

### **5. Presentation of results of Working group N. 3**

EEAA Experts/RBO Experts

### **6. Conclusion**

EEAA Experts/RBO Experts

APAT Experts (Mrs. Belli, Mrs. Ardoino, Mr. Leonardi, Mr. Di Menno, Mr. Battistella)

## **4. NON IONIZING RADIATION**

### **1. Brainstorming (based on experiences)**

1. Environmental impacts of electromagnetic waves and equipment
2. General principles on non-ionizing radiation measurements; Non-ionizing radiation measurement equipment;

EEAA Experts/RBO Experts

APAT Experts (Mrs. Belli, Mrs. Ardoino, Mr. Battistella)

## **12,30 High Tea**

### **2. Brainstorming (based on experiences)**

3. Calibration and quality control for non-ionizing monitoring equipment

EEAA Experts/RBO Experts

APAT Experts (Mrs. Belli, Mrs. Ardoino , Mr. Battistella)

### **3. EEAA/APAT comments**

## **15,30 Ordinary Break**

### **4. Working group N. 4**

Define a draft procedure for non ionizing radiation measurement

EEAA Experts/RBO Experts

APAT Experts (Mrs. Belli, Mrs. Ardoino, Mr. Leonardi, Mr. Di Menno Mr. Battistella )

## **17,30 Closing of the works**

## **9,30 Opening of the works**

### **5. Presentation of results of Working group N. 4**

EEAA Experts/RBO Experts

### **6. Conclusion**

EEAA Experts/RBO Experts

APAT Experts (Mrs. Belli, Mrs. Ardoino, Mr. Leonardi, Mr. Di Menno Mr. Battistella )

## **5. QUALITY CONTROL AND ACCREDITATION**

### **1. Brainstorming (based on experiences)**

- Emission sampling and analysis;
- Quality control for emission monitoring equipment;
- Accreditation of laboratories (ISO-17025)
- Traceability of analytical results and uncertainties evaluation;
- Quality control in the environmental laboratories (use of reference materials and certified reference materials, calibration, control chart, participation in proficiency testing exercises).

EEAA Experts/RBO Experts

APAT Experts (Mrs. Belli, Mr. Battistella)

## **12,30 High Tea**

### **2. Brainstorming (based on experiences)**

- Basic Concept of Sound.
- Measuring Sound Parameters.
- Principles of Acoustic Measurements.
- Different Noise Sources and Introduction to Environmental Noise.
- Health Impact for High Noise Levels Exposures.
- International Standard for Sound Levels Meters Equipments.
- International Standard for Environmental measuring ISO1996.

EEAA Experts/RBO Experts

APAT Experts (Mrs. Belli, Mr. Battistella)

### **3. EEAA/EEAA comments**

## **15:30 Ordinary Break**

EEAA Experts/RBO Experts

APAT Experts (Mrs. Belli, Mr. Battistella )

### **4. Working group N. 5**

Define a quality system for laboratory accreditation

EEAA Experts/RBO Experts

APAT Experts (Mrs. Belli, Mrs. Ardoino, Mr. Leonardi, Mr. Di Menno Mr. Battistella )

## **5. Presentation of results of Working group N. 5**

EEAA Experts/RBO Experts

### **17,30 Conclusions and closing of the Workshop**

During the Workshop will be hold also meetings on General Training Component for the ‘General Training Activities Programme’ definition and on the Subcomponent ‘Environmental awareness’ program and a visit to EEAA laboratories.