



OPCW

Organisation for
the Prohibition of
Chemical Weapons



Ministero degli Affari Esteri
e della Cooperazione Internazionale
Autorità Nazionale per l'attuazione della Convenzione
sulla proibizione delle armi chimiche



Consiglio Nazionale
delle Ricerche



FEDERCHIMICA
CONFINDUSTRIA



ISTITUTO DI SCIENZE E TECNOLOGIE CHIMICHE GIULIO NATTA



MASTER CBRNe
Chemical, Biological, Radiological, Nuclear and explosive
Department of Industrial Engineering and School of Medicine and Surgery

OPCW Workshop

General Aspects on Chemical Safety and Security in Laboratories



Agenda

Day 1. Tuesday, October 8 Location: Congress Centre, National Research Council, Milan (via Corti 12)

09:00 – 09:30 Welcome and Opening Remarks

09:30 – 10:00

The Italian National Authority and the Implementation of CWC

Andrea Gloria, Italian National Authority, Rome

CWC, OPCW and ICB activities

Roman Warchol, Organization for Prohibition of Chemical Weapons, the Hague

10:00 - 10:15 Group photo

10:15 - 10:45 Chemical Safety & Security in small production sites and Laboratories: Efforts for better Controls and Improvements

Massimo Ranghieri, CNR-SCITEC, Milan

10:45 – 11:15 coffee/tea break

11:15 - 12:15 Hazardous materials and clinical effects: the Bergamo Poison Center experience

Mariapina Gallo, Bergamo Poison Center, ASST Papa Giovanni XXIII Hospital, Bergamo

12:15 – 13:00 Principles of Personal Protection: Equipment and Best Practices

Snapshots from the European Project RescEU

Edoardo Cavalieri d'Oro, NBCR Unit, Vigili del Fuoco, Milan

13:00 – 14:00 lunch break (CNR canteen)

14:00 - 14:30 Safety and Security in Chemical Environments: definitions and context

Matteo Guidotti, CNR-SCITEC, Milan

14:30 - 15:00 Handling Spills of Hazardous Chemicals and Waste Materials in Labs

Raffaella Soave, CNR-SCITEC, Milan

15:00 - 16:15 Study cases and snapshots by Participants

Few slots are available (on a voluntary basis) for Participants who want to prepare a short presentation (ca. 5 min) on specific themes and personal experiences related about safety and security issues in chemical plants and labs.

16:15 – 16:30 Wrap-up and Open Discussion about Day 1

Day 2. Wednesday, October 9 Location: Congress Centre, National Research Council, Milan (via Corti 12)

09:00 – 09:30 Hazardous Chemical Waste – definitions, state-of-the-art and guidelines

Laura Polito, Raffaella Soave, CNR-SCITEC, Milan

09:30 - 10:00 Alternatives to Hazardous Chemicals: Sustainability and Green Chemistry

Laura Polito, CNR-SCITEC, Milan

10:00 - 10:30 Hazop analysis: a tool for the risk assessment on pilot-scale plants in laboratories

Carlo Pirola, Arian Grainca, Dept. of Chemistry, University of Milan

10:30 - 11:00 Good practices and training capabilities

Joint CBRN Defence School, Rieti, Italy

11:00 – 11:30 coffee/tea break

11:30 -12:00 Incidents in Chemical Laboratories and Working Sites: Case Studies

Massimo Ranghieri, CNR-SCITEC, Milan

12:00 - 12:30 Climate change and extreme weather events: potential impact on chemical safety

Matteo Guidotti, CNR-SCITEC, Milan

12:30 – 13:00 Wrap-up and Open Discussion about Day 2

13:00 – 14:00 lunch break (CNR canteen)

14:00 – 17:00 Practical training module in Research Chemical Lab

- Static Display of PPE and tools for detection of chemical hazardous substances
- Description of Best Practices in Lab and an example of case study
- Interactive exercise in the case of emergency in confined spaces (spill of hazardous liquids in chemical laboratory)

CNR-SCITEC, Milan



Day 3. Thursday, October 10 Location: Congress Centre, National Research Council, Milan (via Corti 12)

09:00 – 09:30 The role of Federchimica in the Italian Scenario

Fabrizio Filippini, Federchimica, Milan

09:30 – 10:00 Hazardous Chemicals Communications: CLP Labelling and Safety Data Sheets

Paola Granata e Ilaria Malerba, Federchimica, Milan

10:00 – 11:00 Safety and Security aspects in the management of Biological and Biochemical Labs

Davide Mileto, Alessandro Mancon, “Luigi Sacco” University Hospital, Milan

11:00 – 11:30 coffee/tea break

**11:30 - 12:30 The Emergency Response Guidebook, ERG - edition 2024: general overview
Interactive live exercise with ERG 2024 application for smart-phones**

Matteo Guidotti, Stefano Econdi, CNR-SCITEC, Milan

Participants are invited to use their own smart-phones, tablets, personal computers to get acquainted with the ERG2024 app.

12:30 – 13:00 Wrap-up and Open Discussion about Day 3

13:00 – 14:00 lunch break (CNR canteen)

Location: Laboratory of Forensic Toxicology and Museum of Anthropological, Medical and Forensic Sciences for Human Rights of the University of Milan (via Mangiagalli 37)

14:00 – 14:30 Walk to the Labs of Forensic Toxicology

14:30 – 16:30 Guided visit to the Laboratories and tour to the exhibition at the Museum of Anthropological, medical and Forensic Sciences for Human Rights

Cristina Cattaneo (Labanof and MUSA), Gabriella Roda (Lab. Forensic Toxicology), University of Milan in collaboration with Leonardo De Angelis

18:00 – 20:00 Happy “Chemical” Hour

*Italian aperitivo with scientific discussion animated by the Participants
(on request; to be confirmed and defined on Day 1)*



Day 4. Friday, October 11 Location: Congress Centre, National Research Council, Milan (via Corti 12)

09:00 -09:30 G7 Italia - The Global Partnership Chemical Security Working Group: an overview
Matteo Guidotti, CNR-SCITEC, Italy

09:30 -10:00 Security issues in the management of chemical samples of forensic value
Davide Cutrino, Carabinieri, Italy

10:00 – 10:30 CBRNe Master Courses Table Top Exercise (TTX)
on Chemical Safety & Security (Rome TorVergata University)
Set-up of the Table-Top Exercise;
Break-down of the Participants into Working Groups

Michael Ian Thornton, Colomba Russo
International Master Courses in Protection Against CBRNe events, University of Rome Tor Vergata

10:30 – 13:00 Exercise: Role and Responsibility in Chemical Site Management

coffee/tea and refreshments will be served during the exercise

13:00 – 14:00 lunch break (CNR canteen)

14:00 – 15:30 Outcomes and Discussion on the Table-Top Exercise
- Questions & Answers by the Participants

15:30 – 16:30 Hand-over of the Attendance Certificates

Closing Remarks

