

## WORKSHOP ORGANIZED BY

- Interdivisional group of Catalysis
- Division of Industrial Chemistry and Analytical Chemistry
- Interdivisional group of Security in Chemistry Environment
- Interdivisional group of Sensors

## ORGANIZING COMMITTEE

Matteo Guidotti, CNR-ISTM, Milano  
Elisa Micheleni, Univ. of Bologna  
Ernesto Salzano, Univ. of Bologna  
Domenica Tonelli, Univ. of Bologna  
Vincenzo Vaiano, Univ. of Salerno  
Roberto Consolo, CNR- ISTM, Milano

## REGISTRATION FEE

standard fee for non-members (3 days): 380 Euros

SCI members (3 days): 300 Euros

Reduced fee for student, young researchers, police, armed forces and fire service members (3 days): 180 Euros

*1-day registration fees will be also available*



## WORKSHOP VENUE

Grand Hotel,  
lungomare  
Tafuri 1,  
Salerno, Italy

## Workshop-specific Secretariat:

official website: [cis2019.com](http://cis2019.com)

e-mail: [chemsec.cis2019@gmail.com](mailto:chemsec.cis2019@gmail.com)

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ACCADEMIA DELLE SCIENZE  
DELL'ISTITUTO DI BOLOGNA



Chemistry meets Industry and Society

A creative showcase conference

Salerno, 28-30 August 2019

## WORKSHOP 1 29-30 AUGUST 2019

## Chemistry for Secure Societies



The workshop will highlight the pervasive role of chemistry, scientific research and technological/industrial innovation in achieving safer and resilient civil societies ahead of CBRNE threats, in terms of detection, prevention, protection, mitigation and defence against the use of hazardous materials, highly toxic chemicals and dangerous products (e.g. explosives, poisons, bio-toxins, radioactive agents) for criminal purposes.

trans-disciplinary approach:

- advanced analytical chemistry to materials science
- sensor technology
- catalysis
- latest advances in the field of rapid detection
- personal protection
- decontamination
- security policies

Presentations and discussion by eminent experts from:

- **Academia**
- **Research institutions**
- **Industry and governmental agencies**



### KEY RELEVANT SPEAKERS

**Vasile Parvulescu** | Univ. of Bucharest, Romania  
"Photocatalysis versus plasma-coupled catalysis for the mineralization of warfare and harmful compounds"

**Genserik Reniers** | TU Delft, the Netherlands  
"Integrating safety and security measures to avoid chemistry-related domino effects"

**Arben Merkoçi** | Inst. Català de Nanociència i Nanotecnologia, Barcelona, Spain  
"Nanobiosensors for diagnostics: from health, environment to safety and security applications"

**Fabiana Arduini** | Univ. of Rome Tor Vergata  
"Early and on site detection of chemical and biological warfare agents using miniaturised electrochemical biosensors"

**Chiara Bisio** | Univ. of Eastern Piedmont, Alessandria  
"Innovative layered materials as active allies for the decontamination of toxic chemical agents"

**Murugiah Muthusamy** | Fire & Rescue Training Academy, Malaysia  
"On-field detection of hazardous materials: limitations and challenges"

**Raja Subramaniam** | Centre for Chemical Weapons Analysis, Malaysia  
"Strategies for Analysis of Chemical Weapons for Forensic and Legal Prosecution"

**Andrei Katsev** | Medical Academy Georgievsky, Simferopol, Crimea  
"Detection of the toxicity of environmental and pharmaceutical substances by luminescence biotests"

National Authority for the Prohibition of Chemical Weapons, Rome  
"Working for the Chemical Weapons Convention: interdisciplinary expertise and funding opportunities"

Forensic Science Police Service, Bologna

National Fire Corps, Rome

The Workshop is addressed to:

- **Chemists working in the field of analytical chemistry, catalysis, sensors**
- **Scientists dealing with forensic investigations**
- **Professionals of Police forces and State agencies**
- **Technical experts developing new detection and protection systems**
- **Hazardous materials teams**

and

**young or skilled researchers who want a deeper insight into Chemistry for Security**



### SCIENTIFIC PROGRAMME

#### Day 1 - 29 August

Six keynote lectures, eight open oral presentations, one round table led by leading experts from academia and governmental institutions, one open poster session

#### Day 2 - 30 August

Six keynote lectures, seven open oral presentations, one round table led by relevant experts from industry

*Focus for students and young researchers*

Special sessions on

**Training and professional opportunities at international organizations in the field of chemistry for security**

**Fellowship grants available** for PhD students and young scientists with non-permanent positions from the Division of Industrial Chemistry and Analytical Chemistry the Interdivisional Group of Catalysis