

3–5. November 2025. Hotel Radisson Blu Split, Croatia

SPS ARW Split 2025

International Workshop on Advanced Technologies and Mobile Laboratories for Countering Chemical Threats



fkit unizg.hr/CroCerS/SPS_ARW_Workshop_Split2029 THE STATE

for Countering Chemical Threats Lechnologies and Mobile Laboratories

#SCHEDULE

	Monday, November 3 rd 2025
08:30	Registration (30 min)
09:00	WELCOME CEREMONY (30 min) Cherv-Mandid

Opening info (10 min) V. Mandić, M. Erceg Welcome lecture (20 min) Eyüp Turmus

09:30

30 Session PLENARY 1 (30 min) ONNINGER PL1 (25+5 min) Mark Morgan The Role of the Mobile Forensics Laboratory in Chemical Attack Site Forensic Operations

10:00 Coffee break 1 (30min)

10:30

Session CHEMICAL THREATS 1

(115 min) Grain P. Hotchikiss

KL1 (20+5 min) Nigel Lightfoot
ce of networking for mobile chemic

10:55 IL1 (15+3min) Benjamin Trump

IL2 (15+3min) Vasile Panainte thening national resilience by using 11:13 ence by using a chemical mobile laboratory in the

11:31 IL3 (15+3min)Anders Östin Experiences of Swedish chemical denl plovable laboratory

11:49 IL4 (15+3min) TBA TBA

Complementarity between the mobile laboratory and his INRAP

12:07 IL5 (15+3min) Mirna Maravić Implementation of the Convention on the Prohibition of the Development, Production, Stockpiling and Use of Chemical Weapons by the Ministry of Econ

Lunch 1 (77 min)

Session PANEL (90 min) chart De Sio

Moderated (U-shape): presenting their concerns or challenges. Topic: 1-Systems to be addressed, concerning the priorities? Topic: 2-The role of the mobile labs in addressing priorities? Topic: 3-Challenges to increasing viability of the mobile labs?

Session CHEMICAL THREATS 2

(55 min) OwekMorpen
KL2 (20+5 min) Peter Hotchkiss
nce and technology: opportunities for and risks to the
ntation of the Chemical Weapons Convention

15:55 IL7 (15+3min) Laura Marshall

ng strategies and challenges af IL8 (15+3min) Alyssa Walsh 16:13

16:31

free time (29 min)

17:00

Laboratory tour to KTF chem laboratories starting in front of the KTF (link): 17:00 Group 1 (30 min) Matko Erceg 17:30 Group 2 (30 min) Matko Erceg

19:30

addressing of the distinguishers (10 min) in front of the Ballroom

Tuesday, November 4th 2025

08:30 09:00 Session PLENARY 2

(60 min) charactedghani
PL2 (25+5 min) Eduard llobet
eless sensing networks for warfare

PL3 (25+5min) Fabiana Arduini
Paper-based electrochemical (bio)sensors as smart, sustainable, and robust
advanced detection and identification systems

10:00 Coffee break 3 (30min)

09:30

Session ADV. DETECTION & IDENTIFICATION (115 min) Owher Robot KL3 (20+5 min) Janez Zavašnik
Plasma-engineered lightweight composite materials for broadband electromagnetic wave absorption

10:55 ILg (15+3min) Ines Primožić

11:13 IL-10 (15+3min) Ivana Panžić Nitride Quantum Dots for Rapid and Sensitive Explosive Detection

11:31 IL11 (15+3min) Kwang-Un Jeong rogrammed reactive mesogens for optical applications

11:49 | L12 (15+3min) Behi Syrine Graphene-based gas sensors for real time detection of chemical threats

12:07 IL13 (15+3min) TBA TBA

The compution and Al for identifying target molecules that could potentially

12:28 IL14 (15+3min) Jean-Charles Quevillon

12:43

Session ADV. DETECTION & IDENTIFICATION (115 min) OMPICTOR AND KL4 (20+5min)Adnane Abdelghani
Nanotechnology for advanced detection and identification of chemical

14:30 IL15 (15+3min) Luciano De Sio

14:48 IL16 (15+3min) Anton Köck

15:06 IL17 (15+3min) Vilko Mandić Nanostructured gas sensors for detect

ion of chemical threats

Nanostructured gas sensors for or detection of crientical trifeats 15-24 [LLB2 (4:5+3min) Maria P. P. Intital Nanostructured Materials for SERS based Gas Sensing of CWAs 15-42 [LLg (4:5+3min) Matteo Guldott Bridging the gap between labs and incident sites: pros and cons of advanced

mobile CBRN laboratories

Session POSTERS -

Working Coffee break 4 (6o min) in front of Ballroom

J. Hyeong: Natural Rubber-Based Stretchable Heat Transfer Materials

D. Yu: Triphenylamine-based electrochromic films for smart information

J. Jang: Nanostructured Fluorescent Films via Self-Assembly for Acid Vapour Monitoring
M. Rim: Interfacial Phonon Engineering in Polymer Composites Using Reactive Mesogens
M. Oh: Light-Responsive Ionic Skins for Conductivity Switching and Shape Actuation via Azobenzene Mesogens
Y. Wi: Zwitterionic Interlocking Enables Polarization-Dependent Photochromism and Ionic Switching in Diarylethene-Based Smart Films
D. Gašpanć: Development of next-generation solar cells for environmentally sustainable energy production
G. Mihalinec: Enabling Reversible Chemistry in Calcium Batteries through SEI Design
I. Čurić: Removal of chemical warfare agent simulant using reverse osmosis membranes: Investigation of efficiency and separation mechanisms
F. Petronella: Plasmonic nanoplatforms as novel optical diagnostic tools in a one-health perspective
F. Zaccagnini: Development of next-generation solar cells for environmentally sustainable energy production
A. Avitabile: Selective detection of SARS-COV-2 spike protein via biofunctionalized gold nanorods

free time (150 min)

19:30

Dinner (90 min)

Wednesday, November 5th 2025

09:00 IL20 (15+3mi

09:18 IL21 (15+3mi

Session MOBILE LABS & THEIR BENEFITS (60 min) Obstaction
) Zvonko Orehovec s Management and Safety Innovations in CBRN 1 Thomas Ellisner CWA threats by mobile sensors in the field 10 Michael Gallacher.

Detection of current CWA threats by mobile sensors in the lielu **09:36 IL.22** (15+3min) **Michael Gallagher** Raman and FTIR Spectroscopy for military personnel and first responders

09:54 IL23 (15+3min) Jeremy Van Auker

10:12 Coffee break 5 (30min)

Session MOBILE LABS & THEIR BENEFITS (115, min) own to so KL5 (20+5 min) Karim Ben Ali Chemical DIM deployable laboratory: Bringing the Lab to the Sampl

10:55 IL 24 (15+3min) Valentina Ključarić Importance of the military segment of CBRN defense in the homeland security

system 11.13 [L25 (15+3min) Sarah Brewer 11.13 [L25 (15+3min) Sarah Brewer The 80% solution: balancing integrity and decision making in mobile labs in field-the 80% solution: balancinal radiological and nuclear (CBRN) response 133 IL.26 (15+3min) Edoardo Cavalleri d Oro Integration of mobile laboratories within a detection sampling and monitoring capacity: the case of the new European capacity designed by Italy called resCEU CBRN-DSIM-IT

11:49 IL27 (15+3min) Taoufik Bouayoun
Contribution of Forensic Institute of Gendary . rmerie Rovale (ICGR) to chemical

12:07 | IL 28 (15+3min) Beatriz Ambrosio Development and commissioning of mobile laboratories

12:28 IL29 (15+3min) Ivana Cetina Dual-use items as potential CBRN terrorist threats

Lunch 3 (62 min)

13:45

Session ROUND TABLE - Working Coffee 6 (45 min) annumber Moderated (U-shape): underline talks; conclude

14:30 Technical break (90 min)

Session CITY TOUR (75 min)

start from

CLOSING REMARKS & Addressing of the Distinguished Guests (10 min)
WORKSHOP DINNER (150min)
at Restaurant Fin Jeaf

