



KOBIS

SAFETY & SECURITY

Seminar
**Detekcija in identifikacija
nevarnih snovi**

KEMIKALIJE EKSPLOZIVI DROGE RADIACIJA BIOLOŠKI DEJAVNIKI

Program, 06.03.2024, Four Points by Sheraton, Ljubljana

8:45 - 9:15	Pregled tehnologij za odkrivanje nevarnih snovi
9:15 - 9:30	Trdni in tekoči vzorci (Raman, FT-IR, NIR in XRF). Pregled naprav podjetij Thermo POA, Pendar, RedWave, Elvatech in NIRLAB
9:30 - 10:00	Novi ramanski spektrometer Pendar X-10 – snemanje vzorcev na razdalji
10:00 - 10:30	Odmor za kavo in demonstracija Pendar X-10 - identifikacija neznanih snovi
10:30 - 10:50	Narkotiki . NIRLAB - Identifikacija in kvantifikacija na terenu in v laboratoriju
10.50 - 11.30	Demonstracija naprav na vzorcih: narkotiki, eksplozivi, neznane nevarne snovi
11.30 – 12.30	Kosilo
12.30 – 13.15	Odkrivanje nevarnih snovi v sledovih – pregled tehnologij (masna spektrometrija, luminescenca in GC-MS). Kemična bojna sredstva, eksplozivi in narkotiki ter demonstracija detekcije in identifikacije eksplozivov in narkotikov v sledovih
13:15 – 14:15	Analiza plinov, aerosolov in hlapljivih snovi – pregled tehnologij (FT-IR, IMS, MS, GC-PID, GC-MS). Demonstracija naprav podjetij RedWave, AirSense, FLIR Detection, Nanova and 908Devices
14:15 – 14:45	Odkrivanje radioaktivnih snovi – pregled tehnologij in demonstracija naprav Identifinder R225 and Identifinder R425
14:45	Demonstracija in testiranje naprav (Raman Thermo Scientific First Defender RMX, Raman Thermo Scientific Omega, FTIR/Raman Thermo Scientific Geminy, FTIR Thermo Scientific TruDefender FTX, FTIR RedWave ThreatID, FTIR RedWave XplorIR (plini, VOC), Raman Pendar X-10, NIRLAB, Hitri testi (CBD, THC, fentanil) Detectachem MobileDetect, IMS GDA-P AirSense, MS MX908 and modul Aero, FLIR Fido X4 (eksplozivi), FLIR identifinder R225, FLIR Identifinder R425, ročni ED XRF Prospector 3MAX

MX908 Multi-mission Handheld Portable Mass Spectrometer

- Detects compounds at trace levels with a high level of sensitivity and unparalleled selectivity
- Real-time threat detection
- All Phase Detection: Solids, Liquids, Aerosols, Vapors



Pendar X10 Handheld Raman Spectrometer

- 2 meter standoff point-and-shoot measurement
- No contact, no sampling, no handling of sensitive or toxic materials
- Class 3R laser; no laser safety eye protection needed
- Minimal ignition risk with black powder and sensitive primaries
- Dark or highly fluorescent materials identified in <30 seconds, white powders in 5 to 10 seconds



XplorIR Handheld Gas/Vapor Detector

- Rapidly detect and identify 5600+ unknown gas and vapor chemical threats
- Simple controls and an intuitive display
- Built for reliable operation in harsh environments



MicroNIR OnSite-W battery-powered handheld near-IR analyzer

- Rapid, real-time, non destructive near-infrared material analysis
- IP65 /IP67 wet and dusty environments
- Powerful MicroNIR Pro model-building software and prediction; Cloud solutions and AI principles are used
- Visible quantity Identification, qualification and quantitative analysis



Contact Us

- 01 / 563 60 80
- info@kobis.si
- www.kobis.si
- Ljubljanska cesta 48
1236 Trzin,



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OUR EXPERIENCE.**



SAFETY & SECURITY

**CBRN Technology
Toolbox**

Gemini™ Chemical Identification Analyzers

- RAMAN
Aqueous solutions
Point-and-shoot through semi-translucent containers
- FTIR
Colored samples
Fluorescent samples
- Identifies unknown solids/liquids, from explosives and chemical warfare agents to industrial chemicals and precursors using a comprehensive onboard library



TruDefender™ FTX Handheld FTIR for Chemical Identification

- Fast, accurate identification of potential explosives or hazardous materials
- Easy sampling of solid and liquid chemicals in the field using the self-contained anvil sampling head



FirstDefender™ RM Chemical Identification System

- Fast, Accurate Identification
- Built for Field Use
- Improved Automatic Mixture Analysis
- Point-and-Shoot Identification
- Extensive Substance Library



DETECT SOLIDS, LIQUIDS, VAPORS AND GASES

TICs	TIMs	VOCs
Explosives	Narcotics	Pesticides
CWAs	Biological Threats	Pharm. Agents
Precursors	Radiation	+

identiFINDER® R425 Radionuclide Identification Device (RID)

- Absorption of EM gamma and neutron emissions
- Detects neutron and gamma radiation emitted from natural occurrences in the environment, special nuclear material, industrial, or medical material



Fido® X4 Premium Handheld Explosives Trace Detector (ETD)

- Expanded threat coverage, enhanced sensitivity, and specific threat identification
- Intuitive interface, onboard video tutorials, user prompts, and color-coded alarms



Griffin™ G510 GC/MS (Gas Chromatograph Mass Spectrometer)

- Identify chemicals in the field within minutes
- Trace-level detection
- Solids, liquids and vapors analysis
- Library of over 270,000 chemicals

