Total Spectrum

In cooperation with

National Institute for Research and Development of Isotopic and Molecular Technologies (INCDTIM)

INCDTIM

UNIVERSITATEA BABEŞ-BOLYAI
BABEŞ-BOLYAI TUDOMÁNYEGYETEM
BABEŞ-BOLYAI UNIVERSITÄT
BABEŞ-BOLYAI UNIVERSITY
TRADITIO ET EXCELLENTIA

Workshop on nano-biosensing with portable/handheld Raman systems:

From food products, toxins, safety and molecular contaminants to knowledge transfer to economic partners - With practical demos!

Program

11:00-11:05 **Opening and welcome - Dr. Csilla Molnar (INCDTIM)**

11:05-11:25 **Latest developments in analytical equipment and their capabilities - Cecilia MERTICARU (Total Spectrum)**

11:25-11:35 **Latest developments from Bruker TXRF and HHXRF – elements quantification from F to U in food, cosmetics, packages, environmental stewardship, RoHS regulation**

Application topics

11:35-11:45 ***From nano-biosensing to knowledge transfer*** - Professor Dr. Habil. Simona CÎNTĂ PÎNZARU (UBB)

11:45-11:55 ***Fast SERS sensing for food control and toxins detection*** - Dr. Csilla MOLNÁR (INCDTIM)

11:55-12:05 ***Raman spectroscopy for edible oils analysis*** - Dr. Camelia GROȘAN (INCDTIM)

Coffee break

12:15-12:30 ***Electrochemically assisted SERS for detection of pharmaceutical pollutants*** - Rebeca MOLDOVAN/ Dr. Bogdan-C. IACOB (UMF)

12:30-12:40 ***Self-assembled nanostructured SERS substrates*** - Dr. Cosmin FARCĂU (INCDTIM)

12:40-12:50 ***SERS of propranolol: Au vs Ag*** - Dr. Alexandra FĂLĂMAȘ (INCDTIM)

12:50-13:05 ***Official control of water intended for human consumption,*** Chim. pr. Carmen PĂRĂU (DSP)

Coffee break

13:15-14:30 **Practical demonstrations Portable Raman equipment (Wasatch Photonics)**

When? October 6, 2022, at 11^{00} a.m

Where? Conference room - INCDTIM, 67-103 Donat Street, Cluj-Napoca, Romania

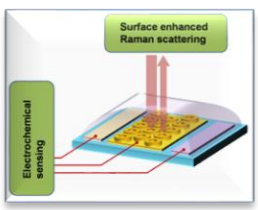
Participation free of charge!

Main objective and topics

- ✓ Target the innovative analytical methods using Raman technology for food control, quality assessment, toxins detection, public awareness, knowledge transfer to stakeholders;
- ✓ New sensing substrates for fast detection of molecular compounds related to the water bodies and food quality; pharmaceutical pollutants, pesticides;
- ✓ Demonstrations of new capabilities of the sensing technology using portable/ handheld Raman instruments.

Wasatch Photonics

WP-532-A-SR-IC



BRUKER

Acknowledgements

- PD51/07.08.2020
- 359PED/23.10.2020
- 354PED/23.10.2020
- 477PED /23.10.2020
- 377PED/01.11.2020

Contact

Molnár Csilla csilla.molnar@itim-cj.ro
Cosmin Farcău cosmin.farcau@itim-cj.ro
Covaciu Florina florina.covaciu@itim-cj.ro