

3rd TROPSENSE Meeting:
Project Meeting, Workshop, Winter School

Ulm – Germany, 9 – 10 January 2017

Villa Eberhardt - Heidenheimer Straße 80, 89075 Ulm



AGENDA

Monday - January 9, 2017

TROPSENSE project meeting 09:00 – 13:00

09:00 Welcome and Introduction (Boris Mizaikoff, Lars Österlund and Radu Ionescu)

09:15 – 10:45 Activities during 2nd year (approx. 10 min per Partner)

- UCMMIT
- IPT
- UP
- URV
- PG
- IMNR
- MolFing

10:45 – 11:00 Coffee Break

11:00 – 11:45 Activities during 2nd year (approx. 10 min per Partner) – con't

- JLM
- UMI
- SITEX
- UULM

11:45 – 13:00 Project matters (Radu Ionescu)

- I. Project progress and next work and activities
- II. Declarations in the Participants Portal
- III. 1st periodic report
- IV. Exploitation Strategy Seminar (Service provided by EC)
- V. Free questions

13:00 – 14:00 Lunch

TROPSENSE Workshop

“Spectroscopy-based sensors: Vibrational spectroscopy and electronic nose techniques”

Ulm – Germany, 9th January 2017

Chair: Lars Österlund, MolFing

14:00 – 15:30 Session 1 (25 min per presentation)

- Lars Österlund (MolFing): “Planar IR waveguide and surface spectroscopy.”
- Mikael Karlsson (MolFing): “TBD.”
- Yusuf Kocaöz (UUlm): “Combined IR-MOX sensors.”

15:30 – 15:45 Coffee Break

15:45 – 17:45 Session 2

- Eduard Llobet (URV): “On dimensionality reduction in FTIR-spectrophotometry gas sensing.”
- Janusz Smulko (PG): "How to prepare measurement system for fluctuation enhanced sensing using resistive sensors."
- Dumitru Ulieru (SITEX): “The spectroscopy gas sensing for microelectronics application.”
- Benachir Bouchikhi (UMI): “Development and characterization of an electrochemical sensor based on molecularly imprinted polymer employing cyclic voltammetry, electrochemical impedance spectroscopy, and UV-Vis as a tool of creatinine detection in human urine.”
- Carsten Jaeschke (JLM): “The Volgacore System.”
- Roxana Piticescu (IMNR): “Doped BST multifunctional thin films for toxic gas detection.”
- Maher Sayhi (IPT): “Influenza virus type A detection, using metallic nanoparticles, by chronoamperometric electrochemical analytical method.”

19:00 Dinner (Restaurant Lochmühle; Gerbergasse 6, 89073 Ulm)

TROPSENSE Winter School
“Mid-Infrared Quantum Cascade Laser Spectroscopy”

Ulm – Germany, 10th January 2017

Chair: Boris Mizaikoff, University of Ulm

Tuesday - January 10, 2017

09:00 – 10:30 Session 1 (45 min per presentation)

- Rolf Szedlak (Vienna University of Technology): “Quantum cascaded lasers (QCLs): Fundamentals and perspectives.”
- Vjekoslav Kokoric (UUIlm): “Hollow waveguide technologies for IR gas phase analysis.”

10:30 – 10:45 Coffee

10:45 – 12:15 Session 2

- Felicia Seichter (UUIlm): “Chemometric strategies in IR breath diagnostics.”
- Erhan Tütüncü (UUIlm): “Laser-based IR breath diagnostics.”

12:15 – 13:30 Lunch

13:30 – 15:00 Session 3

- Erhan Tütüncü (UUIlm) and Markus Nägele (OptoPrecision):
DEMO “APOSEMA – ICL-based IR breath analyzer prototype.”
- Tomas Edvinsson (UU): "Resonant and off-resonant Raman spectroscopy."

15:00 – 15:15 Coffee

15:15 – 15:30 Closing

15:30 – 17:00: OPTIONAL - Lab Tour IABC