

# 4<sup>th</sup> Annual European Forum on Nanoscale IR Spectroscopy

Amsterdam, Netherlands  
11 - 12 September, 2019



## Conference Program – Day 1

<b>September 11th, Wednesday</b>	
<b>Registration &amp; Introduction (08:45 - 09:30)</b>	
09:30-09:50	<b>Introduction: Dr Erik Van Heumen/Dean Dawson</b>
<b>Panel Session 1</b>	
09:50-10:30	<b>Prof. Alex Dazzi</b> AFM-IR, history and technique evolution
<b>Break (10:30 - 10:45)</b>	
10:45-11:15	<b>Dr. Chanmin Su</b> Latest Advancements in nanoscale IR spectroscopy instrumentation
11:15-11:40	<b>Dr. Karsten Hinrichs</b> Polarization dependent AFM-IR for analysis of structure and anisotropy of thin films at the nanoscale
<b>Lunch (11:45 - 12:45)</b>	
12:45-13:10	<b>Dr. Lily Poulidakos</b> The chemistry of bitumen microstructures
13:10-13:35	<b>Dr. Francesco Simone Ruggeri</b> Nanoscale Chemical Analysis from Single Biomolecules to Living Organisms in Air and Native Liquid Environment
<b>Break (13:35 - 13:45)</b>	
13:45-14:10	<b>Dr. Luca Quaroni</b> Resolution and sensitivity in PTIR measurements of thin organic films
14:10-14:45	<b>Dr. Cian Bartlam</b> Nanoscale Infrared Characterisation of Chemical Functional Groups on Two-dimensional Materials
<b>Live Demo/Tour/Break - Rotating Groups (14:45 - 16:00)</b>	
<b>Social Events and Conference Dinner (16:00 - 21:00)</b>	

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## Conference Program - Day 2

### September 12th - Thursday

#### Panel Session 2

- 09:00-09:25 **Prof. Michael Molinari**  
Correlation between the chemical and mechanical properties of hemp fiber at nanoscale using Atomic Force Microscopy: the effect of lignin
- 09:25-09:50 **Dr. Natalia Piergies**  
Spectroscopic insights into the drug - nanocarrier interaction. SERS and AFM - IR studies

#### Break (09:50 - 10:00)

- 10:00-10:25 **Dr. Laurene Tetard**  
Manipulating light-matter interaction to explore properties of organic and biological systems at the nanoscale
- 10:25-10:50 **Dr. Suzanne Morsch**  
Examining the Buried Epoxy - Metal Interphase with AFM-IR
- 10:50-11:15 **Tom Vincent**  
Nanoscale optical properties of bubbles in graphene heterostructures

#### Poster Session & lunch (11:15 - 12:30)

- 12:30-12:55 **Dr. Erik Van Heumen**  
A near field view on metal insulator transitions in complex oxides
- 12:55-13:20 **Dr. Michael Casford**  
Vibrational Nanospectroscopy and Microscopy of Biosubstrate Surfaces and Molecular Films

#### Break (13:20 - 13:35)

- 13:35-13:50 **Dr. Alexey Kuzmenko**  
Infrared cryo-SNOM studies of complex oxides
- 13:50-14:15 **Dr. Sissi de Beer**  
Revealing Nanoscale Subsurface Composition by Combining Near-Field Infrared Microscopy and Mechanical Mapping
- 14:15-14:50 **Selwin Hageraats**  
AFM-IR for the physico-chemical analysis of paint degradation on the nanoscale
- 14:50-15:00 **Conference closing: Dean Dawson**