

Monday 29th August 2022

8h00-8h45	Registration
8h45-9h00	Welcome
9h00-10h15	BIOANALYTICAL APPLICATIONS (Part 1) Chair: Marek PROCHÁZKA
9h00	Invited speaker: Erik GOORMAGHTIGH Infrared imaging of protein microarrays for high throughput characterization
9h30	Neil HUNT Detection of Paracetamol Binding to Albumin in Blood Serum using 2D-IR Spectroscopy
9h45	Ali ASSI* Effects of solar radiations on Stratum Corneum hydration: Protective role of skin surface lipids and solar filters efficacy
10h00	Maria Paula MARQUES Profiling of Human Burned Bones by Vibrational Spectroscopy: Forensic and Archaeological Applications
10h15-10h45	Coffee break
10h45-12h15	BIOANALYTICAL APPLICATIONS (Part 2) Chair: Neil HUNT
10h45	Cécile LEVASSEUR-GARCIA Near Infrared Spectroscopy and Food Quality
11h00	Alžbeta KUIŽOVÁ* Drop coating deposition Raman spectroscopy of contaminants
11h15	Nils Kristian AFSETH FTIR spectroscopy as a future bioprocess monitoring tool – Characterisation of hydrolysed proteins and peptides
11h30	Omar DIB Chemometrics Tools for the non-Targeted Research of Microorganisms in Food Samples by Raman spectroscopy
11h45	Ning YANG Online monitoring of fermentation bioreactor based on Raman spectroscopy
12h00	Katarzyna DZIEDZIC-KOCUREK Avian vs human erythrocytes – preliminary spectroscopic studies
12h15-13h45	Lunch
13h45-15h00	MOLECULAR SPECTROSCOPY 1 Chair: Sophie LECOMTE
13h45	Invited speaker: Susan QUINN Time-Resolved Infrared Study of Adenine photo-oxidation by an Intercalated Chromium Polypyridyl Complex
14h15	Maxim BOKOV* Rearrangement of intracellular crystalline guanine as an adaptation for various illumination levels

14h30 **Igor SAZANOVICH**
Conformational relaxation and molecular oxygen rebinding in alpha and beta subunits within valency hybrids of human hemoglobin

14h45 **Janne IHALAINEN**
The structural effect between the output module and chromophore binding domain is a two-way street via the hairpin extension

15h00-15h30 Coffee break

15h30-17h15 **BIOMEDICAL APPLICATIONS 1**
Chair: Malgorzata BARANSKA

15h30 **Invited speaker: Hugh BYRNE**
Biomedical Applications of Vibrational Spectroscopy: the continued drive towards Clinical Translation

16h00 **Antoine HUGUENIN**
Candida albicans outbreak in a Maternity Unit: Epidemiologic study by FTIR spectroscopy, MALDI-TOF spectrometry and microsatellite analysis of strains from neonates

16h15 **Uraib SHARHA**
Rapid determination of Proteus mirabilis susceptibility to antibiotics using infrared spectroscopy in tandem with random forest

16h30 **Anna NOWAKOWSKA**
On the way to clinical diagnostics: can Raman spectroscopy detect leukemic cells?

16h45 **Murali Krishna CHILAKAPATI**
Raman and FTIR spectroscopic stratification of saliva of healthy, habitués and oral cancer subjects

17h00 **Lila LOVERGNE**
Infrared spectral biomarkers of neurodegenerative diseases

18h30 **Welcome reception, City Hall**
Talk by Daniel Cordier,
University of Reims Champagne-Ardenne:
The icy moons of the solar system : Titan and its family