

## **Seminar Programme Nano and Fast Vibrational Spectroscopy**



## Faculty of Chemistry, Jagiellonian University Gronostajowa 2, 30-387 Krakow

Mon	ıday, 17 <sup>th</sup> J	une 2019
Nanoscale	<b>Vibrationa</b>	l Spectroscopy

12 <sup>00</sup> -12 <sup>55</sup>	5 REGISTRATION (hall, ground floor – Segment A)			
12 <sup>55</sup> -13 <sup>00</sup>	OPENING: Agnieszka Kaczor/Kamilla Małek (room A1-01, 1st floor)			
SESSION	I		Chairman: Katarzyna M. Marzec	
13 <sup>00</sup> -13 <sup>40</sup>	Jan Vavra	NeaSpec	Scattering-type scanning near-field optical microscopy and spectroscopy for nanoscale chemical analysis	
13 <sup>45</sup> -14 <sup>25</sup>	Wojciech Kwiatek	IFJ	Nanoworld investigation using AFM-IR spectroscopy	
14 <sup>30</sup> -15 <sup>10</sup>	Mustafa Kansiz	Photothermal Spectroscopy Corp.	Simultaneous submicron IR and Raman microscopy/imaging - Beyond the limits of traditional IR microscopy with optical photothermal infrared (O-PTIR)	
$15^{10}$ - $15^{45}$	COFFEE BREAK			
SESSION II			Chairman: Katarzyna Majzner	
15 <sup>45</sup> -16 <sup>25</sup>	Ewelina Lipiec	UJ	Infrared nano-spectroscopy in studies of lipids and nucleic acids	
$16^{30}$ - $17^{10}$	Luca Quaroni	UJ	Spectroscopy of thin organic layers by nanoIR techniques	
17 <sup>15</sup> -17 <sup>25</sup>	Aneta Blat	UJ	An analysis of isolated and intact RBC membranes — a comparison of a semi-quantitative approach by means of FTIR, nano-FTIR and Raman spectroscopies	
Tuesday, 18th June 2019				
Non-linear Raman Spectroscopy				
SESSION 1		ICLE DAN	Chairman: Krzysztof Czamara	
9 <sup>45</sup> -10 <sup>10</sup>	Michał Nejbauer  Jakob Nixdorf	IChF PAN	Practical aspects of femtosecond stimulated Raman spectroscopy	
		HHU	Stimulated Raman imaging - speed versus spectral Coverage	
10 <sup>15</sup> -10 <sup>50</sup>	Halina Abramczyk	PŁ	From femtosecond dynamics to intracellular retinoid metabolism in cancer cells by Raman spectroscopy	
1050 1120	COPERE PREAM			
10 <sup>50</sup> -11 <sup>20</sup>	COFFEE BREAK			
SESSION IV			Chairman: Marta Pacia	
11 <sup>20</sup> -11 <sup>55</sup>	Oliver Piot	URCA	Potential and limitations of stimulated Raman scattering for imaging of biological samples	
$12^{00}$ - $12^{25}$	Joanna Strzelczyk	Bionanopark	Coherent Anti-Stokes Raman Scattering (CARS) microscopy. Label-free imaging driven by molecular vibrations	
1230-1240	Aleksandra Dorosz	UJ	Lipid droplets in stimulated eosinophil cell line (EOL-1) studied by spontaneous Raman and CARS microscopy	

In the framework of the seminar, the **poster session** will be held and abstracts will be published in an electronic book of abstracts. Additionally, each of participants will receive a certificate of participation.

The seminar is **free of charge**, but the number of participants is limited to <u>120 people</u>. Travel and accommodation are not covered by the organizers.

The registration is <u>now open</u> and <u>abstracts submission</u> is **until May 31**<sup>st</sup>. All abstracts should be sent to the following e-mail address: <u>zor@chemia.uj.edu.pl</u>. **Abstract template** is available <u>here</u>

Please prepare your poster in A0 (80 x 120 cm) format (portrait orientation)

## **Organizers:**

Dr. hab. Agnieszka Kaczor and Dr. hab. Kamilla Małek
Ewa Machalska (<u>Secretary</u>, email: <u>zor@chemia.uj.edu.pl</u>)
Ewelina Bik
Aneta Blat
Karolina Chrabąszcz
Aleksandra Dorosz
Ewelina Wiercigroch

Raman Imaging Group, Faculty of Chemistry, Jagiellonian University in Krakow

## **Sponsors:**

Photothermal Spectroscopy Corp, WITec and Neaspec GmbH





