### ICAVS10 DRAFT PROGRAMME

#### Sunday 7 July 2019

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Details</th>
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<tbody>
<tr>
<td>9:00AM - 1:00PM</td>
<td>Pre-Conference Workshops</td>
<td><strong>HANDHELD AND PORTABLE/DESKTOP RAMAN AND NEAR-INFRARED (NIR) SPECTROSCOPY WORKSHOP</strong>&lt;br&gt;Hosted by Metrohm Australia / New Zealand&lt;br&gt;Room: Case Room 2</td>
</tr>
<tr>
<td>12:30PM</td>
<td>Registration Opens (Level 0, Owen G. Glenn Building)</td>
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<tr>
<td>1:00PM - 5:00PM</td>
<td>Pre-Conference Workshops</td>
<td><strong>NEW PERSPECTIVES IN 3D RAMAN IMAGING AND CORRELATIVE TECHNIQUES</strong>&lt;br&gt;Hosted by WITec&lt;br&gt;Room: Case Room 2</td>
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<tr>
<td>5:00PM - 7:00PM</td>
<td>Welcome Function (Level 0, Owen G. Glenn Building)</td>
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<tr>
<td>Time</td>
<td>Session</td>
<td>Speaker</td>
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<tr>
<td>10:40AM</td>
<td>Raman Applications for Clinical Routines</td>
<td>- Michael Schmitt, Institute Of Physical Chemistry, Friedrich-schiller</td>
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<td></td>
<td>University Jena</td>
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<td>*Invited Speaker</td>
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<tr>
<td>11:00AM</td>
<td>Live-Cell Raman Imaging of the Macrophage Response to Local Environmental Changes</td>
<td>- Alison Hobro, Osaka University</td>
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<td>*Invited Speaker</td>
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<tr>
<td>11:40AM</td>
<td>Ramon Microscopy Studies on Chemotherapeutic Drugs Impact on Endothelial Cells</td>
<td>- Kataryna Majzner, Faculty of Chemistry, Jagiellonian University, Gronostajowa 3, Krakow, Poland</td>
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<td>*Invited Speaker</td>
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<tr>
<td>12:20PM</td>
<td>Skin and Bone: The Raman Connection</td>
<td>- Michel Niewoudt, The University of Auckland</td>
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<td>*Invited Speaker</td>
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<tr>
<td>1:00PM</td>
<td>Raman Microscopy Studies on Chemotherapeutic Drugs Impact on Endothelial Cells</td>
<td>- Katarzyna Majzner, Faculty of Chemistry, Jagiellonian University, Gronostajowa 3, Krakow, Poland</td>
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<tr>
<td>1:40PM</td>
<td>Consequences of Red Blood Cell Degradation Evaluated by Raman Spectroscopy</td>
<td>- Richard Dhuihy, University Of Alabama At Birmingham</td>
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<td>*Invited Speaker</td>
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<tr>
<td>2:20PM</td>
<td>Ex Vivo Molecular 3D Sensing of the Intracellular Morphology of the Human Epidermis Using Coherent Raman Scattering Microscopy (SRS/CARS)</td>
<td>- Marko Egawa, Shiseido Global Innovation Center</td>
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<td>*Invited Speaker</td>
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<tr>
<td>3:00PM</td>
<td>Detection of Proteoglycan Loss from Articular Cartilage Using Brillouin Microscopy, With Applications to Osteoarthritis</td>
<td>- Irina Kabakovskaya, University Of Technology Sydney</td>
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<td>*Invited Speaker</td>
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<tr>
<td>3:40PM</td>
<td>FTR Spectroscopic Imaging Analysis of Collagen, in Post-Infarction Cardiac Tissue and in Nanoscale Fibres</td>
<td>- Kathleen Gough, University of Manitoba</td>
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<td>*Invited Speaker</td>
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<tr>
<td>4:20PM</td>
<td>Time-Resolved Spectroscopy of Single-Molecule Optical Spectroscopy</td>
<td>- Zhenchao Dong, University Of Science And Technology Of China</td>
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<td>*Invited Speaker</td>
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<tr>
<td>5:00PM</td>
<td>Ramon Microscopy with a Mechanical Streak Camera</td>
<td>- Rintaro Shimada, The University of Tokyo</td>
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<tr>
<td>Time</td>
<td>Session</td>
<td>Computational methods and theory</td>
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<tr>
<td>3:00PM</td>
<td>VIBRATIONALLY ASSISTED ENERGY AND CHARGE TRANSFER DYNAMICS</td>
<td>Martin Richter, Friedrich Schiller University Jena</td>
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<tr>
<td>3:00PM</td>
<td>*Invited Speaker</td>
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<tr>
<td>3:15PM</td>
<td>DEVIATIONS FROM BEEN’S LAW BASED ON THE NONADDITIVITY OF ABSORBANCE AND ABSORPTION CROSS SECTIONS</td>
<td>Thomas Mayerhöfer, Leibniz Institute Of Photonic Technology</td>
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<tr>
<td>3:20PM</td>
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<tr>
<td>3:30PM</td>
<td>IMPROVEMENT OF SIGNAL ENHANCEMENT FACTOR IN VERTICAL FLOW METHOD FOR RAMAN SPECTROSCOPY</td>
<td>Hirotsugu Hiramatsu, National Chiao Tung University</td>
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<td>3:35PM</td>
<td>*Invited Speaker</td>
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<tr>
<td>3:45PM</td>
<td>UTILISING EMERGING IR IMAGING TECHNOLOGIES TO PROVIDE RAPID HIGH-RESOLUTION MID-IR SPECTRAL HISTOPATHOLOGY</td>
<td>Nick Stone, University Of Exeter</td>
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<td>3:50PM</td>
<td>*Invited Speaker</td>
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<tr>
<td>4:10PM</td>
<td>HYDRATION STRUCTURE OF BIOMATERIALS EXPLORED BY IN SITU ATR-IR SPECTROSCOPY COMBINED WITH MCR</td>
<td>Shigeaki Morita, Osaka Electro-communication University</td>
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**Afternoon Tea**

**Poster Session 1 and Exhibit Viewing (Level 0 Exhibition)**
Mulling over Nanoemulsions: Interfacial Molecular Structure, Assembly and Stabilization

Katsumasa Fujita

Tuesday 9 July 2019

11:35AM

Invited Speaker
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Contributed Session</th>
<th>Speaker/Institution</th>
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<tbody>
<tr>
<td>2:45PM - 3:00PM</td>
<td>*Invited Speaker</td>
<td>CONTRIBUTED SESSIONS</td>
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<tr>
<td>3:00AM - 4:10PM</td>
<td><strong>Contributed Sessions</strong></td>
<td>Gas spectroscopy and monitoring</td>
<td>Jim Lin, Academia Sinica</td>
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<td><strong>Contributed Sessions</strong></td>
<td>Material science</td>
<td>Spectroscopic Study of Nanodomains in High-Impact Polymers by AFM-IR</td>
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<td><strong>Contributed Sessions</strong></td>
<td>Miniaturization and handheld instruments</td>
<td>Seeing Through: Advancements in Raman Measurements Through Opaque Packaging</td>
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<td><strong>Contributed Sessions</strong></td>
<td>Food security and quality</td>
<td>Countering the 'Fake News' of Food: The Role of Chemometrics with Vibrational Spectroscopy Techniques.</td>
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<td>3:00PM</td>
<td><strong>Contributed Sessions</strong></td>
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<td>4:10PM - 6:00PM</td>
<td><strong>Contributed Sessions</strong></td>
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<td>6:30PM</td>
<td><strong>Poster Session 2 and Exhibit Viewing (Level 0 Exhibition)</strong></td>
<td><strong>Contributed Sessions</strong></td>
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<td>6:30PM</td>
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<td>7:15AM</td>
<td>Registration Opens (Level 0, Owen G. Glenn Building)</td>
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| 7:45AM - 8:30AM | Matthew Baker, University Of Strathclyde  
CLINICAL SPECTROSCOPY: TRANSLATING SPECTROSCOPIC BIOFLUID DISEASE DETECTION |
| 8:30AM - 9:15AM | Dongho Kim, Department of Chemistry, Yonsei University  
ULTRAFAST STRUCTURAL DYNAMICS IN VARIOUS PI-CONJUGATED MOLECULAR SYSTEMS PROBED BY TIME-RESOLVED ELECTRONIC AND VIBRATIONAL SPECTROSCOPY |
<table>
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<tbody>
<tr>
<td>8:00AM</td>
<td>Registration Opens (Level G, Owen G. Glenn Building)</td>
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</table>
| 8:45AM - 9:30AM | Hongfei Wang, Fudan University  
NONLINEAR VIBRATIONAL SPECTROSCOPY FOR MOLECULAR SURFACES/ INTERFACES AND BEYOND         |
| 9:30AM - 10:15AM | Marina Manley, Stellenbosch University  
NEAR-INFRARED (NIR) HYPERSONAL IMAGING: EXPLOITING THE SPATIAL INFORMATION FOR ANALYSIS OF HETEROGENEOUS AGRI-FOOD PRODUCTS |
| 10:15AM - 10:40AM | Invited Speaker                                                                                           |
| 10:40AM - 11:00AM | Invited Speaker                                                                                           |
| 11:00AM - 11:20AM | Invited Speaker                                                                                           |
| 11:20AM - 11:40AM | Invited Speaker                                                                                           |
| 11:40AM - 12:10PM | Invited Speaker                                                                                          |

**Contributed Sessions**

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| 10:40AM      | MAIRS AND CHEMOMETRICS: QUANTITATIVE PURSUE OF CHEMICAL REACTION IN A THIN FILM  
- Takeshi Hasegawa, Kyoto University                                                  |
| 10:40AM      | RAMAN SPECTROSCOPY FOR IN SITU DIAGNOSIS IN NEUROSURGERY  
- Emile Lemoine, Polytechnique Montréal                                                |
| 10:40AM      | ULTRAFAST STIMULATED RAMAN SCATTERING AND NONLINEAR PHONONICS  
- Roberto Merlin, University Of Michigan                                               |
| 10:40AM      | PRESSING SOLIDS DIRECTLY INTO SHEETS OF PLASMONIC NANOJUNCTIONS ENABLES SOLVENT-FREE SURFACE-ENHANCED RAMAN SPECTROSCOPY  
- Chunhun Li, Queen's University Belfast                                               |
| 11:00AM      | WEEK HYDROGEN BONDING OF BIODERGRADABLE POLYESTER STUDIED BY TERAHERTZ SPECTROSCOPY  
- Harumi Sato, Kobe University                                                        |
| 11:00AM      | EX VIVO DETECTION OF COELIAC DISEASE: A MULTI-SPECTROSCOPIC APPROACH TO DISEASE DIAGNOSIS  
- Sara Miller, Department of Chemistry, University Of Otago                          |
| 11:00AM      | PHASE-RESOLVED NONLINEAR SPECTROSCOPY AT ELECTRODE/ELECTROLYTE SOLUTION INTERFACES  
- Satoshi Nihonyanagi, Riken                                                            |
| 11:00AM      | NOVEL APPROACH FOR METROLOGICAL QUANTIFICATION OF TIP-ENHANCED RAMAN SPECTROSCOPY (TERS) AMPLIFICATION  
- Andrea Mario Rossi, Inrim                                                               |
| 11:20AM      | HIGHLY SPATIALLY RESOLVED SIMULTANEOUS IR AND RAMAN SPECTRAL IMAGING OF BIPLASTIC COMPOSITES USING OPTICAL PHOTOTHERMAL SPECTROSCOPY  
- Isao Noda, University of Delaware                                                      |
| 11:20AM      | SPECTROSCOPIC GIVES VIRAL POINT-OF-CARE DETECTION OF VIRAL AND IMMUNE FACTORS DIRECTLY FROM BLOOD USING ATR-FIR SPECTROSCOPY  
- Baylen Wood, Monash University                                                        |
| 11:20AM      | UNDERSTANDING THE IMPACT OF PH AND AQUEOUS COMPOSITION ON THE WATER STRUCTURE AT SILICA INTERFACES USING VIBRATIONAL SUM FREQUENCY GENERATION  
- Julianne Gibbs, University Of Alberta                                                  |
| 11:20AM      | CORRELATING CHARGE TRANSFER TRANSITIONS WITH THE CATALYTIC ACTIVITY OF B- AND TRIMETALLIC NANOPARTICLES  
- Douglas Santos Lopes, University De Sao Paulo                                            |
| 11:20AM      | LATEST ADVANCES IN NANOSCALE IR SPECTROSCOPY AND IMAGING  
- Curtis Marcott, Light Light Solutions                                                 |
| 11:20AM      | MULTISPECTROSCOPIC APPROACH FOR THE ANALYSIS OF ISOLATED AND INTACT RED BLOOD CELL MEMBRANES.  
- Katarzyna Maria Marzez, Jagiellonian Centre for Experimental Therapeutics (JCET), Jagiellonian University |
| 11:20AM      | VIBRO-POLARITONS FOR CONTROL OF CHEMICAL REACTION KINETICS  
- Rabash Arul, University Of Auckland                                                  |
| 11:20AM      | NANO SCALE CHEMICAL AND ELECTRONIC MAPPING OF CARBOXYL GRAPHENE OXIDES USING TERS  
- Marc Chaigneau, HORIBA France                                                         |
| 11:40AM      | ANALYSIS OF STRUCTURAL DYNAMICS OF UNCRYSTALIZED POLYESTER UNDER HEATING BY USING A PULSE-INDUCED DYNAMIC COMPRESSION (POC) METHOD  
- Yuji Nishikawa, KonicaMinolta, Inc.                                                  |
| 11:40AM      | NEW INSIGHTS INTO THE RELATIONSHIP BETWEEN BREAST MICROCALCIFICATIONS AND BREAST DISEASE FROM COMBINING FTIR, RAMAN AND SYNCHRONIZED X-RAY DIFFRACTION  
- Nick Stone, University Of Exeter                                                       |
| 11:40AM      | RAPD 12C02 NUMBER DENSITY AND 13C02/12C02 ISOTOPIC DETERMINATION WITH AN OPTICAL FREQUENCY COMB  
- Sarah Scholten, University Of Adelaide                                               |
| 11:40AM      | PROBING LOCAL STRAIN WITH SYNCHRONIZED INFRARED NANOSPECTROSCOPY  
- Hans Bechtel, Advanced Light Source, Lawrence Berkeley National Lab                     |
| 11:55AM      | SPECTROSCOPIC CHARACTERIZATION AND SERS ACTIVITY AGAINST AMINO ACIDS AND NEUROTRANSMITTERS OF 2dO NANOPEARLS SYNTHESIZED BY ELECTROCHEMICAL AND GREEN CHEMISTRY METHODS  
- Edyta Proniewicz, AGH University of Science and Technology                            |
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<tr>
<td>11:00AM</td>
<td>Lunch</td>
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<tr>
<td>12:00PM</td>
<td>International Steering Committee Meeting</td>
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| 1:00PM     | Contributed Sessions  
SERS-BASED SENSOR FOR ULTRASENSITIVE DETECTION OF BIOMOLECULES  
- Young Mee Jung, Kangwon National University  
VIBRATIONAL SPECTROSCOPY OF THE EDGES OF TWO-DIMENSIONAL NANOARCHITECTURES  
- Mark Waterland, Massey University  
ELECTRONIC AND VIBRATIONAL SERS SPECTROSCOPY AT ELECTROCHEMICAL INTERFACES  
- Katsuyoshi Ikeda, Nagoya Institute of Technology  
SINGLE-MOLECULE SURFACE-ENHANCED DETECTABILITY OF Porphyrine DERIVATIVES - THE INFLUENCE OF TEMPERATURE AND PERIPHERAL SUBSTITUTION  
- Sylwester Gawinski, Institute Of Physical Chemistry Pas  
LABEL-FREE SERS IMAGING FOR MOLECULAR IMAGES  
- Stefania Alexandra Jakab, Universitat Rovira i Virgili  |
| 2:00PM     | Contributed Sessions  
TRACE BODY FLUID DETECTION AND IDENTIFICATION BY SERS  
- Lawrence Ziegler, Boston University  
IT IS AN EMERGENCY: SPECTROSCOPY OUTSIDE THE LABORATORY  
- Michael Logan, Queensland Fire And Emergency Services  
BACTERIAL IDENTIFICATION USING DIFFERENT R MODALITIES  
- Angela Flack, Université Reims Champagne-ardenne  
DETECTION OF HIGH EXPLOSIVE MATERIALS WITHIN FINGERPRINTS BY MEANS OF OPTICAL-PHOTOTHERMAL INFRARED SPECTROMICROSCOPY  
- Agnieszka Banas, Singapore Synchrotron Light Source  
COHERENT RAMAN SPECTROSCOPIC FLOW CYTOMETRY FOR LARGE-SCALE SINGLE CELL ANALYSIS  
- Kotori Hiramatsu, The University of Tokyo  |
| 3:00PM     | Contributed Sessions  
RELATIONSHIP BETWEEN PROTEIN PHOSPHORYLATION AND BIOACTIVITY ANALYZED BY RAMAN SPECTROSCOPY  
- Mika Ishigaki, Shikoku University  
NEW ADVANCES IN OCEANOGRAPHY USING VIBRATIONAL SPECTROSCOPY  
- Philip Heraud, Monash University  
TIME-RESOLVED FTIR DIFFERENCE SPECTROSCOPY IN COMBINATION WITH QUANTUM CHEMICAL CALCULATIONS FOR THE STUDY OF PIGMENTS IN PROTEIN COMPLEXES  
- Gary Hastings, Georgia State University  
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- Agnieszka Banas, Singapore Synchrotron Light Source  
INTERFACIAL MOLECULAR STRUCTURES FROM HIGH-RESOLUTION AND HIGH-REPEITION-RATE VIBRATIONAL SURF-FREQUENCY GENERATION SPECTROSCOPY IN THE C-H, O-H STRETCHING AND THE Fingerprint REGION  
- Zuzanna Heiner, Humboldt Universität zu Berlin  |
| 4:00PM     | Contributed Sessions  
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- Zuzanna Heiner, Humboldt Universität zu Berlin  |
| 6:00PM     | Poster Session 3  
Conference Dinner (Auckland Museum)  
MODELLING NEAR INFRARED SPECTRA IN TEMPERATURE INDUCED TRANSITION ZONE FROM ICE TO LIQUID: PREDICTION OF FAT CONTENT IN MEAT  
- Nagashvili Patil, University Of Padova  |
Friday 12 July 2019

8:30AM | Registration Opens (Level 0, Owen G. Glenn Building)

9:30AM - 10:15AM | Bernhard Lendl, Technische Universität Wien
NEW SENSING SCHEMES BASED ON QUANTUM CASCADE LASERS

10:15AM - 11:00AM | Steve Holloyd, Fontetra
THE USE OF NEAR INFRARED SPECTROSCOPY IN THE DAIRY INDUSTRY: NEW TRENDS AND APPLICATIONS

11:00AM - 11:25AM | Malgorzata Baranska, Jagiellonian University
THE USE OF NEAR INFRARED SPECTROSCOPY IN THE DAIRY INDUSTRY: NEW TRENDS AND APPLICATIONS

11:25AM - 12:00PM | Bernhard Lendl, Technische Universität Wien
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1:15PM - 1:30PM | Steve Holloyd, Fontetra
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1:30PM - 2:00PM | Malgorzata Baranska, Jagiellonian University
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2:00PM - 2:05PM | Steve Holloyd, Fontetra
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3:05PM - 3:20PM | Malgorzata Baranska, Jagiellonian University
THE USE OF NEAR INFRARED SPECTROSCOPY IN THE DAIRY INDUSTRY: NEW TRENDS AND APPLICATIONS

3:20PM - 3:25PM | Steve Holloyd, Fontetra
THE USE OF NEAR INFRARED SPECTROSCOPY IN THE DAIRY INDUSTRY: NEW TRENDS AND APPLICATIONS

3:25PM - 4:00PM | Malgorzata Baranska, Jagiellonian University
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4:00PM - 4:05PM | Steve Holloyd, Fontetra
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4:25PM - 5:00PM | Malgorzata Baranska, Jagiellonian University
THE USE OF NEAR INFRARED SPECTROSCOPY IN THE DAIRY INDUSTRY: NEW TRENDS AND APPLICATIONS

5:00PM - 5:05PM | Steve Holloyd, Fontetra
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5:05PM - 5:20PM | Malgorzata Baranska, Jagiellonian University
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5:25PM - 6:00PM | Malgorzata Baranska, Jagiellonian University
THE USE OF NEAR INFRARED SPECTROSCOPY IN THE DAIRY INDUSTRY: NEW TRENDS AND APPLICATIONS

6:00PM - 6:05PM | Steve Holloyd, Fontetra
THE USE OF NEAR INFRARED SPECTROSCOPY IN THE DAIRY INDUSTRY: NEW TRENDS AND APPLICATIONS

6:05PM - 6:20PM | Malgorzata Baranska, Jagiellonian University
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6:25PM - 7:00PM | Malgorzata Baranska, Jagiellonian University
THE USE OF NEAR INFRARED SPECTROSCOPY IN THE DAIRY INDUSTRY: NEW TRENDS AND APPLICATIONS

7:00PM - 7:05PM | Steve Holloyd, Fontetra
THE USE OF NEAR INFRARED SPECTROSCOPY IN THE DAIRY INDUSTRY: NEW TRENDS AND APPLICATIONS

7:05PM - 7:20PM | Malgorzata Baranska, Jagiellonian University
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THE USE OF NEAR INFRARED SPECTROSCOPY IN THE DAIRY INDUSTRY: NEW TRENDS AND APPLICATIONS

7:25PM - 8:00PM | Malgorzata Baranska, Jagiellonian University
THE USE OF NEAR INFRARED SPECTROSCOPY IN THE DAIRY INDUSTRY: NEW TRENDS AND APPLICATIONS

8:00PM - 8:05PM | Steve Holloyd, Fontetra
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8:25PM - 9:00PM | Malgorzata Baranska, Jagiellonian University
THE USE OF NEAR INFRARED SPECTROSCOPY IN THE DAIRY INDUSTRY: NEW TRENDS AND APPLICATIONS