



## InnovaXN Plenary Event

Tuesday 4 June 2024

### Programme

|       |       |  |   |
|-------|-------|--|---|
| 14:00 | 14:15 | <b>Welcome</b>   | <b>Michael Krisch,</b><br>ESRF Director of Research |
| 14:15 | 14:45 | <b>Call one Thesis presentations (ESRF Auditorium)</b><br>Chaired by P. Fouquet/ P. Bruno            | <b>InnovaXN students of cohort 1</b>                |
| 14:15 | 14:30 | Elucidating the deactivation of Cu-CHA industrial DeNOx catalysts by X-ray absorption spectroscopy   | <b>Anastasia Molokova</b>                           |
| 14:30 | 14:45 | Solution behaviour of hair dyes in the presence of surfactants                                       | <b>Wenke Mueller</b>                                |
| 14:45 | 15:30 | <b>Student clips session (ESRF Auditorium)</b><br>Chaired by A. Molokova                             | <b>InnovaXN students of Cohort 2</b>                |
| 14:45 |       | Probing proton dynamics in perovskite fuel cell electrolyte by Quasi-Elastic Neutron Scattering      | <b>Chenyang Liao (ILL)</b>                          |
| 14:50 |       | XAS/XES study of Pt-CTF perovskite catalyst for room-temperature carbon monoxide oxidation reaction  | <b>Luca Bugarin (ESRF)</b>                          |
| 14:55 |       | Nano-characterization of a next-generation aluminium alloy for additive manufacturing                | <b>Deepak Mani (ESRF)</b>                           |
| 15:00 |       | Diffusion in supramolecular gels for drug delivery   | <b>Riccardo Morbidini (ILL)</b>                     |
| 15:05 |       | Impact of Mn/Ni Ordering on Electrochemical performance of LNMO cathode material                     | <b>Ilia Tertov (ILL) <i>by zoom</i></b>             |
| 15:10 |       | Investigation of proton exchange membrane fuel cell catalyst ink structure using CV-SANS             | <b>Martha Stando (ILL)</b>                          |
| 15:15 |       | Understanding how additives influence crystallization at the nanoscale                               | <b>Annet Baken (ESRF)</b>                           |
| 15:20 |       | Fundamentals of Organic Friction Modifiers by synchrotron scattering techniques                      | <b>Inga Kicior (ESRF)</b>                           |
| 15:25 |       | Uncovering novel drug targets of polyprotein of SARS-CoV-2   | <b>Gian Luca Freiherr Von Scholley (ESRF)</b>       |
| 15:30 | 16:00 | <b>Coffee break &amp; photo session (ESRF entrance hall)</b>   |   |
| 16:00 | 16:40 | <b>Continuation of student clips session</b><br>Chaired by Wenke Mueller                             | <b>InnovaXN students of Cohort 2</b>                |
| 16:00 |       | Operando Studies of Catalytic Dehydrogenation in LOHC technology                                     | <b>Olvido Irrazabal Moreda (ESRF)</b>               |
| 16:05 |       | Tuning weak polymer-surfactant interactions in solution and surface confined mesophase               | <b>Egor Bersenev (ESRF)</b>                         |
| 16:10 |       | Microscopic dynamic properties of monoclonal antibody solutions                                      | <b>Ilaria Mosca (ILL)</b>                           |
| 16:15 |       | Study of functionalised polymeric micelles through Small Angle Scattering                            | <b>Ananthapadmanabhan Unnikrishnan (ILL)</b>        |
| 16:20 |       | In-situ characterization of stress assisted grain boundary oxidation in IN718                        | <b>Pedro Damas Resende (ESRF)</b>                   |
| 16:25 |       | Combinatorial metallurgy : high throughput mapping in time and compositional space of advanced alloy | <b>Vuk Manojlovic (ESRF)</b>                        |
| 16:30 |       | Laser-driven shock compressed metals probed by X-Ray Absorption Spectroscopy                         | <b>Sofia Balugani (ESRF)</b>                        |
| 16:35 |       | Magnetic proximity effects in epitaxial structures   | <b>Kamaldeep Dalal (ILL)</b>                        |
| 16:40 | 17:10 | <b>Closing speech &amp; Wrap up</b>  | <b>Jacques Jestin,</b><br>ILL Science Director      |
| 17:10 | 19:30 | <b>Poster session &amp; apéritif buffet (ESRF entrance hall)</b>                                     | <b>InnovaXN students</b>                            |