



YCM1

1st
Franco-German
YOUNG
CRYSTALLOGRAPHERS
MEETING

26-29 September 2023

UNIVERSITÉ DE STRASBOURG

*Institut de Science et
d'Ingénierie Supramoléculaires*



Université
franco-allemande
Deutsch-Französische
Hochschule



Tuesday 26th September

- 16.00 – 18.00 **Arrival & Check-in**
- 18.00 – 18.15 **Opening remarks**
- 18.15 – 19.00 **Plenary session / K01**
“Teasing out the secrets of subtle protein dynamics”
HELEN GINN
DESY, Hamburg, Germany
- 19.00 – 20.30 **Welcome cocktail**



Wednesday 27th September

- 09.00 – 09.45 **Plenary session / K02**
“The challenging crystallography of mixed-anion inorganic compounds”
ROMAIN WERNERT
University of Oxford, United Kingdom
- 09.45 – 10.00 **Talk / C01**
“Structural analyses and properties of complex sulphides in the Cr-Sn-S system”
FLORENTINE GUIOT
University of Rennes, France
- 10.00 – 10.15 **Talk / B01**
“Unusual peptide-binding proteins guide pyrroloindoline alkaloid formation in crocagin biosynthesis”
DAZHONG ZHENG
University of Glasgow, United Kingdom
- 10.15 – 10.30 **Talk / C02**
“A series of supramolecular metalacyclic assemblies of CuI8MII/III/IV: how structural conformers can influence the photophysical properties”
CONSTANCE LECOURT
Institut des Sciences Chimiques de Rennes, France
- 10.30 – 11.30 **Coffee break**
Poster session

- 11.30 – 11.45 **Talk / P01**
“Innovative synthesis at high pressure and high temperature of new compounds in the ternary B-C-Si system”
MARTIN DEMOUCRON
Institut de Minéralogie, de Physique des Matériaux et de Cosmochimie, France
- 11.45 – 12.00 **Talk / C03**
“Linkage isomerism in a photoswitchable palladium nitro complex”
ARTEM MIKHAILOV
Université de Lorraine, France
- 12.00 – 12.15 **Talk / B02**
“Time-resolved crystallography for the study of protein dynamics using X-ray Free-Electron Lasers (XFELs)”
RONALD RIOS-SANTACRUZ
Université Grenoble Alpes, France
- 12.15 – 12.30 **Talk / C04**
“Structural and theoretical study of the unexpected flexibility of CALF-20 MOF”
JOANNA DRWĘSKA
Adam Mickiewicz University, Poland
- 12.30 – 12.45 **Talk / P02**
“Observing growth of silver thin films in situ with synchrotron radiation”
MICHAŁ KAMINSKI
Karlsruhe Institute of Technology, Germany
- 12.45 – 14.30 **Lunch buffet**
Poster session
- 14.30 – 14.45 **Talk / B03**
“Emergence of order from proteins under nucleation”
DIMITRIS P. TRIANDAFILLIDIS
Universität Hamburg, Germany
- 14.45 – 15.00 **Talk / C05**
“Building New Metal-Organic Frameworks from Iron-Thiolate Layers”
NUSIK GEDIKOGLU LAURITZEN
Institut des Matériaux Jean Rouxel de Nantes, France
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- 15.00 – 15.15 **Talk / P03**
“Characterization of [Au]core@[Ag]shell nanorods by ultra low frequency Raman scattering”
CHARLES VERNIER
Sorbonne Université, France
- 15.15 – 15.30 **Talk / B04**
“Optimising Protein Production for Functional and Structural Studies: Example of the NYN proteins”
LÉNA COUDRAY
Institut de Biologie Moléculaire et Cellulaire, France
- 15.30 – 15.45 **Talk / C06**
“Study of Organolanthanide Complexes with Cyclononatetraenyl (cnt) and Cyclooctatetraenyl (cot) Ligands”
NICOLAS CASARETTO
Laboratoire de Chimie Moléculaire, Centre National de la Recherche Scientifique, École Polytechnique, France
- 15.45 – 16.15 **Coffee break**
- 16.15 – 16.30 **Talk / P04**
“Unraveling intermolecular protein interactions: insights from molecular rotors”
YEVGENIYA KARIBJANOVA
Laboratoire de Génie Chimique, France
- 16.30 – 16.45 **Talk / B05**
“Structural characterization of the BLUF photoreceptor OaPAC using time-resolved crystallography”
ANAÏS CHRETIEN
European XFEL, Germany
- 16.45 – 17.00 **Talk / C07**
“Structure Dynamics in a Spin-Crossover Crystal Probed with Ultrafast Electron Diffraction and Serial Femtosecond X-ray Diffraction”
YIFENG JIANG
European XFEL, Germany

17.00 – 17.15 **Talk / P05**

“Structural study of piezoelectric $\text{LnCa}_4\text{O}(\text{BO}_3)_3$ at high pressures and cryogenic temperatures”

FATIHA AZROUR

Institut Charles Gerhardt Montpellier, France

18.30 – 20.00 **Visit to the historic wine cellar of Strasbourg Hospices**

20.30 – 23.00 **Traditional Alsatian dinner**



Thursday 28th September

- 09.00 – 09.15** Talk / C08
“Effect of nanostructuring on the structural and physical properties of functional molecular nanomaterials: Applications to bioactive glasses”
AMIRA GHNEIM
Cristallographie, Résonance Magnétique et Modélisations, Université de Lorraine, France
- 09.15 – 09.30** Talk / C09
“Crystallography for molecular magnetism”
NATHALIE BRIDONNEAU
Institut de Chimie Moléculaire et des Matériaux d’Orsay, France
- 09.30 – 09.45** Talk / P06
“X-ray optical activity in achiral crystals of coordination complexes”
ELEN DUVERGER-NÉDELLEC
Institut de Chimie de la Matière Condensée de Bordeaux, France
- 09.45 – 10.00** Talk / B06
“Capabilities and developments at the SPB/SFX Scientific Instrument at the European XFEL”
RAPHAEL DE WIJN
European XFEL, Germany
- 10.00 – 10.15** Talk / C10
“Enhanced Circular Dichroism and Polarized Emission in an Achiral, Low Bandgap Bismuth Iodide Perovskite Derivative”
JAKOB MÖBS
Department of Chemistry and Material Sciences Center, Philipps-Universität Marburg, Germany
- 10.15 – 10.30** Talk / B07
“The in crystallo optical spectroscopy toolbox”
NICOLAS CARAMELLO
European Synchrotron Radiation Facility

- 10.30 – 11.15** **Coffee break**
Poster session
- 11.15 – 11.30** **Talk / P07**
“Milk fat polymorphism in the butter-making process”
VALENTIN DEMAILLE
Université de Bordeaux, France
- 11.30 – 11.45** **Talk / P08**
“Hexagonal 2H-SiGe in Nanostructures by Phase Transformation”
THEO VAN DEN BERG
Centre de Nanoscience et Nanotechnology, France
- 11.45 – 12.00** **Talk / B08**
“The mechanism of the SorC protein family revealed”
MARKÉTA ŠOLTYSOVÁ
Institute of Organic Chemistry and Biochemistry of Czech Academy of Sciences, Czech Republic
- 12.00 – 14.00** **Lunch**
- 14.00 – 15.00** **Plenary session / K03**
“Molecular machines and motors: A historical perspective”
JEAN-PIERRE SAUVAGE
University of Strasbourg, France
- 15.00 – 16.30** **‘Work with us’ session**
15.00 Introductory presentations
15.30 Poster session
Participants
Loïc Le Dréau ~ Bruker
Loïc Mazé ~ Malvern Panalytical
Laurent Loos ~ Rigaku
Laura Folkers ~ STOE
- 17.00 – 19.30** **Boat trip & visit to Strasbourg**
- 20.00 – 22.30** **Dinner**



Friday 29th September

- 09.00 – 10.00 French young crystallographers meeting
- 10.00 – 10.45 **Industry plenary session / K04**
“Crystallographers in the pharma world of drug discovery”
LAURE DELARBRE
Sanofi R&D, France
- 10.45 – 11.15 **Coffee break**
- 11.15 – 11.35 **AFC Doctoral Prize 2022 Winner Talk / AFC01**
“Discovery and structure-function studies of key enzymes behind the non-canonical ZTGC-DNA found in phages”
DARIUSZ CZERNECKI
MRC Laboratory of Molecular Biology, United Kingdom
- 11.35 – 11.55 **AFC Doctoral Prize 2022 Winner Talk / AFC02**
“Resolution of the cationic distribution in $Cu_{22}Fe_8Ge_4S_{32}$ using synchrotron resonant powder diffraction: A case study and guidelines for analogous compounds”
LAURA PARADIS-FORTIN
Lawrence Berkeley National Laboratory, California, USA
- 11.55 – 12.15 **AFC Doctoral Prize 2022 Winner Talk / AFC03**
“Unraveling Catalysis: Harnessing the Power of X-rays and Quantum Chemistry”
CORENTIN CHATELIER
CEA-Grenoble, IRIG, MEM, NRX, France
- 12.15 – 12.30 **Poster and talk prizes**
Closing remarks
- 12.30 – 13.00 **Lunch box**
Departure



PARTNERS



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