

| Time (CST) | CLS X-Ray Diffraction and Scattering Summer School 2023 | | In person school! |
|----------------------------|--|--------------------------|-------------------|
| Wednesday, August 16, 2023 | | | |
| 9:15 to 9:20 | Welcome and Introductions / badges for all | Beatriz Moreno | Room tbd |
| 9:20 - 10:00 | Introduction to powder diffraction | Joel Reid | Room tbd |
| 10:00-10:20 | Snacks | | Room tbd |
| 10:20 - 11:10 | <i>Rietveld Method</i> | <i>Robert Von Dreele</i> | Room tbd |
| 11:10 - 12:00 | <i>Introduction to GSAS II</i> | <i>Bob Von Dreele</i> | Room tbd |
| 12:00 - 13:15 | ----- Lunch Break ----- room 2D21 at Agriculture | | |
| 13:15 - 14:20 | Structure Solution with Powder Diffraction | Joel Reid | Room tbd |
| 14:20 - 15:10 | GSAS II hands on data analysis | Bob / Joel / Beatriz | Room tbd |
| 15:10 - 15:25 | Snacks | | Room tbd |
| 15:25 - 16:30 | GSAS II hands on data analysis | Bob / Joel / Beatriz | Room tbd |
| 17:00 - 18:00 | Happy Hour at Louis ¹ | | |
| Thursday, August 17, 2023 | | | |
| 9:15 - 10:05 | MicroXRD and Laue x-ray diffraction | Renfei Feng | Room tbd |
| 10:05-10:20 | Snacks | | |
| 10:20 - 11:10 | PDF - General | Al Rahemtulla | Room tbd |
| 11:10 - 12:00 | PDF - x-rays vs neutrons / instrumentation | Graham King | Room tbd |
| 12:00 - 12:45 | ----- Lunch Break ----- room 2D21 at Agriculture | | |
| 12:45 13:05 | Group 1 walks to the CLS / Group 2 goes to Computer Room | | Room tbd |
| 13:05 - 14:50 | Group 1: Experiments at the beamlines / Group 2: hands-on GSAS II + t | All hands on deck | Room tbd |
| 14:50 - 15:10 | Snacks / Group photo | | |
| 15:10 - 17:00 | Group 1: Hands-on GSAS II + tour to CLS/ Group 2: Experiments at the b | All hands on deck | Room tbd |
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| Friday, August 18, 2023 | | | |
| 9:15 - 9:55 | Introduction to SAXS | Adam Leontowich | Room tbd |
| 9:55 - 10:35 | In-situ experiments / Thin films | Beatriz Moreno | Room tbd |
| 10:35-10:50 | Snacks | | Room tbd |
| 10:50 - 11:30 | Anomalous XRD | Chang-Yong Kim | Room tbd |
| 11:30 - 12:15 | How do synchrotrons work and what are they good for | Feizhou He | Room tbd |
| 12:15 - 13:30 | ----- Lunch Break ----- room 2D21 at Agriculture | | |
| 13:30 - 14:20 | Hands-on GSAS II | All hands on deck | Room tbd |
| 14:20 - 15:10 | Hands-on PDFgui | Graham King | Room tbd |
| 15:10 - 15:25 | Snacks | | Room tbd |
| 15:25 - 16:30 | Hands-on SAXS | Adam Leontowich | Room tbd |
| 16:30 - 16:35 | Closing remarks | Beatriz Moreno | Room tbd |