



BIP Mössbauer Spectroscopy Summer School Olomouc 2026

13/09/2026–18/09/2026

Department of Experimental Physics, Faculty of Science, Palacký University Olomouc

The summer school shall take place in the main faculty building, Envelopa Campus, 17. listopadu 1192/12, 77900 Olomouc.

The detailed schedule will be finalized once the MSMS conference programme is ready.

03/09/2026, Thursday, 9:00–11:00 CEST (UTC+2)

- On-line session: introduction of organizers and participants, followed by a discussion
- Zoom link: will be available 02/09/2026

13/09/2026, Sunday

09:00–09:50	1. Basics of Mössbauer Spectroscopy – Vít Procházka
10:00–10:50	2. Mössbauer Spectroscopy – Theoretical Description – Michal Hausner
11:00–11:50	3. Modern Construction of Mössbauer Spectroscopic Systems. Detectors, Transducers, Electronics – Aleš Stejskal, Vít Procházka
12:00–13:00	Lunch (catering/restaurant)
13:10–14:00	4. Your Compass Through the Hyperfine Interaction World – Stefaan Cottenier
14:10–15:00	5. Nuclear Quantum Optics with Mössbauer Nuclei – Vlastimil Vrba
16:00–18:00	Guided City Tour

14/09/2026, Monday

09:00–09:50	6. Theoretical and Practical Foundations of Mössbauer Spectral Analysis as Implemented in MossWinn – Zoltán Klencsár
10:00–10:50	7. Iron Oxide and Ferrite Nanostructures – Mössbauer Spectroscopy Characterization, Applications – Libor Machala
11:00–11:50	8. Mössbauer Spectroscopy in Study of Fe-Cr Alloys – Stanislaw M. Dubiel
12:00–13:00	Lunch (UP canteen)
13:10–14:00	9. Mössbauer Spectroscopy and Its Application to the Characterization of Heat-Treated Parts – Jiří Pechoušek
14:30–15:30	10. MossWinn Practical Session 1 – Zoltán Klencsár
16:00–18:00	Visit to the Interactive Science Centre of Palacký University (Fort Science)

15/09/2026, Tuesday

08:30–09:00	MSMS Conference Opening: Summer school participants join selected lectures.
11:00–11:30	MSMS: Impact of Magnetism on Lattice Vibrations – Stanislaw M. Dubiel
12:30–13:00	MSMS: Operando Mössbauer Spectroscopy for Single-Atom Electrocatalysis – Junhu Wang
13:00–13:30	MSMS: Mössbauer and Complementary Spectroscopic Studies of Iron in Fertilizers and Plant Tissues – Maria Gracheva
13:30–14:45	Lunch (UP canteen)
15:00–16:00	11. MossWinn Practical Session 2 – Zoltán Klencsár
18:00–19:30	MSMS: Posters

16/09/2026, Wednesday

08:00–10:00	12. Laboratory Practical Session 1 (Mössbauer Laboratory – Department of Experimental Physics) – Vít Procházka / Michal Koutný / Jiří Pechoušek
10:30–11:00	MSMS: Mössbauer Spectroscopy and Magnetic Methods for Environmental Monitoring in Industrial and Post-Industrial Areas – Tadeusz Szumiata

12:30–13:00	MSMS: The Local Structure-Property Relationships in Complex Nanooxides – Vladimír Šepelák
13:00–14:15	Lunch (UP canteen)
14:30–16:30	13. Laboratory Excursions (Department of Experimental Physics) – Michal Koutný

17/09/2026, Thursday

07:40 08:00–10:00	Bus transport 14. Laboratory Practical Session 2 (Mössbauer Laboratory – Department of Experimental Physics / Science and Technology Park) – Jiří Pechoušek
10:40–11:10	MSMS: Key Insights Into MossWinn 5.0 – Zoltán Klencsár
13:10–14:30	Lunch (UP canteen)
14:30–16:30	15. Laboratory Excursions, opt. (Department of Experimental Physics) – Michal Koutný

18/09/2026, Friday

08:30–10:00	16. Summer School Closing: Short Presentations and Open Discussion – Jiří Pechoušek / Vít Procházka
10:20–10:50	MSMS: The Mössbauer Effect Can be Used for More Than Just Detecting the Electronic and Dynamic Properties of Iron Centers in Proteins – Volker Schünemann
10:50–11:00	MSMS Conference and Summer School Closing

13/10/2026, Tuesday, 9:00–11:00 CEST (UTC+2)

- On-line session: discussion
- Zoom link: will be available