

Symposium Crystallography in Materials Science (SYCM)

jointly organized by
 the Crystallography Division (KR),
 the Dielectric Solids Division (DF),
 the Thin Films Division (DS),
 the Magnetism Division (MA), and
 the Microprobes Division (MI)

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New materials play an increasingly important part in technology and every day's life. Their development, design, and fabrication is often challenging and needs detailed knowledge of the structure at all length scales down to the atomic level. Understanding physical properties, grounded on the crystal structure, and generating knowledge about crystal structures, is the domain of crystallography. Its significance has been acknowledged by the United Nations (UN) in declaring the year 2014 as the International Year of Crystallography.

In this symposium some frontiers of crystallographic work are highlighted.

Overview of Invited Talks and Sessions

(Lecture room: HSZ 02)

Invited Talks

SYCM 1.1	Mon	15:00–15:30	HSZ 02	Complexity on Compression: The Crystallography of High-Density Matter — ●MALCOLM MCMAHON
SYCM 1.2	Mon	15:30–16:00	HSZ 02	X-Ray Microscopy with Coherent Radiation: Beyond the Spatial Resolution of Conventional X-Ray Microscopy — ●CHRISTIAN G. SCHROER
SYCM 1.3	Mon	16:00–16:30	HSZ 02	Modulated martensite: A scale bridging Lego game for crystallographers and physicists — ●SEBASTIAN FÄHLER
SYCM 1.4	Mon	16:45–17:15	HSZ 02	Switching of magnetic domains reveals evidence for spatially inhomogeneous superconductivity — ●MICHEL KENZELMANN
SYCM 1.5	Mon	17:15–17:45	HSZ 02	The key role of magnetic neutron diffraction in materials science — ●LAURENT C. CHAPON

Sessions

SYCM 1.1–1.5	Mon	15:00–17:45	HSZ 02	Symposium Crystallography in Materials Science
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