

# Symposium Domain Wall Functionality and Engineering in Complex Oxides (SYDW)

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

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This symposium focuses on present and future developments in the emergent field of domain wall engineering, related functionality and concepts, as well as advanced characterization methods. The goal of the symposium is to discuss the state of the art of the research on magnetic, ferroelectric, and multiferroic domain walls and identify open key questions and important challenges in this rapidly growing field.

## Overview of Invited Talks and Sessions

(Lecture room: H 0105)

### Invited Talks

SYDW 1.1	Mon	9:30–10:00	H 0105	<b>Domain walls: from conductive paths to technology roadmaps</b> — •GUSTAU CATALAN
SYDW 1.2	Mon	10:00–10:30	H 0105	<b>Domain walls and oxygen vacancies - towards reversible control of domain wall conductance</b> — •PATRYCJA PARUCH
SYDW 1.3	Mon	10:30–11:00	H 0105	<b>Novel mechanisms of domain-wall formation</b> — •ANDRES CANO
SYDW 1.4	Mon	11:30–12:00	H 0105	<b>Novel materials at domain walls</b> — •BEATRIZ NOHEDA
SYDW 1.5	Mon	12:00–12:30	H 0105	<b>Controlling and mapping domain wall behaviour in ferroelectrics</b> — •JOHN MARTIN GREGG, JONATHAN WHYTE, RAYMOND MCQUAID, MICHAEL CAMPBELL, AMIT KUMAR, ROGER WHATMORE

### Sessions

SYDW 1.1–1.5	Mon	9:30–12:30	H 0105	<b>Symposium on Ferroic Domain Walls</b>
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