

INTERNATIONAL SUMMER SCHOOL "Advanced Materials for Chromogenic Device Applications" and "Thin Films: Synthesis and Characterization"

Dates: 2-5 June 2024

Location: ISSP UL, Kengaraga st. 8, Riga, Latvia, 2. floor – Conference Hall

AGENDA:

MONDAY, 3 June

9:00- 9:30	Registration and welcome coffee	
9:30 – 9:50	Introduction	J. Purans
9:50 – 10:50	Advances in Solar Energy Materials: Self-adaptive chromogenics, transparent conducting materials and advanced wettability	L. Österlund
10:50 – 11:00	Coffee break	
11:00 – 12:00	Chromogenic properties of smart materials: from powders to thin films	A. Rougier
12:00 – 13:00	Lunch break	
13:00 - 14:00	Introduction to thin film characterization techniques	E. Butanovs
14:00 – 15:30	Magnetron deposition of thin films / Room 218/216	M. Zubkins
15:30 – 17:00	Conductivity measurements / Room 218	M. Zubkins

TUESDAY, 4 June

8:45 – 9:00	Welcome coffee	
9:00 – 10:00	Thermodynamics and Overview of thin films growth techniques	M. Toprak
10:00 – 11:00	MOCVD Growth of Nitrides: Opportunities and Challenges	A. Kumar
11:00 – 11:15	Coffee break	
11:15 – 12:15	Lecture on Physical vapour deposition (PVD) method: Magnetron Sputtering	M. Zubkins
12:15 – 13:15	Lunch break	
13:15 - 14:45	X-ray diffraction (XRD) / Room 530/318A	L. Ignatane
14:45 – 16:00	X-ray photoelectron spectroscopy (XPS) / Room 530/513	A. Sarakovskis

WEDNESDAY, 5 June

8:45 – 9:00	Welcome coffee	
9:00 – 10:00	Photochromic coatings: research and applications	S. Karazhanov
10:00 – 11:00	EXAFS characterization of thin films	J. Purans
11:00 – 11:15	Coffee break	
11:15 – 12:15	Cleanroom and laboratory tour	B. Polyakov
12:15 – 13:15	Lunch break	
13:15 – 14:45	Optical characterization methods: spectroscopic ellipsometry / Room 530/505	J. Butikova
14.45 – 16.00	Optical transmission spectroscopy / Room 530/505	M. Kemere
16.00 – 16.15	Final remarks	J. Purans

