

The Trondheim International Summer School on Aluminium Alloy Technology

16th - 20th of June 2025

Monday		Lecturer	Topic
Time			
0815-0830	Registration		Registration and Welcome
0830-0910	Lecture	Yanjun Li	Solidification and grain refinement of Al alloys
0910-0920	Break		
0920-1000	Lecture	Yanjun Li	Solidification and grain refinement of Al alloys
1000-1020	Coffee/tea		
1020-1100	Lecture	Christophe Sigli	Phase diagram, Solidification, Homogenization, Solutionizing, Incipient melting
1100-1110	Break		
1110-1150	Lecture	Christophe Sigli	Phase diagram, Solidification, Homogenization, Solutionizing, Incipient melting
1150-1210	Discussion		
1210-1300	Lunch		
1300-1340	Lecture	Christophe Sigli	Phase diagram, Solidification, Homogenization, Solutionizing, Incipient melting
1340-1350	Break		
1350-1430	Lecture	Tomas Manik	Crystal plasticity & texture - fundamentals
1430-1450	Coffee/tea		
1450-1530	Lecture	Tomas Manik	Crystal plasticity & texture - fundamentals
1530-1540	Break		
1540-1620	Lecture	Olaf Engler	Evolution in Microstructures and Textures of Aluminium Alloys during Deformation
1620-1640	Discussion		

1700	Reception
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Tuesday		Lecturer	Topic
Time			
0830-0910	Lecture	Bjørn Holmedal	Alloy & substructure strengthening
0910-0920	Break		
0920-1000	Lecture	Bjørn Holmedal	Alloy & substructure strengthening
1000-1020	Coffee/tea		
1020-1100	Lecture	Knut Marthinsen	Recovery & Recrystallization
1100-1110	Break		
1110-1150	Lecture	Knut Marthinsen	Recovery & Recrystallization
1150-1210	Discussion		
1210-1300	Lunch		
1300-1340	Lecture	Joao Quinta da Fonseca	Microstructure characterization of aluminium alloys
1340-1350	Break		
1350-1430	Lecture	Joao Quinta da Fonseca	Microstructure characterization of aluminium alloys
1430-1450	Coffee/tea		
1450-1530	Lecture	Joao Quinta da Fonseca	Microstructure characterization of aluminium alloys
1530-1540	Break		
1540-1620	Lecture	Irmgard Weissensteiner	Recycling sustainability in alloy development
1620-1640	Discussion		

1900	Concert i Nidarosdomen
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Wednesday		Lecturer	Topic
Time			
0830-0910	Lecture	Jostein Røyset	Extrusion of Al-alloys
0910-0920	Break		
0920-1000	Lecture	Jostein Røyset	Extrusion of Al-alloys
1000-1020	Coffee/tea		
1020-1100	Lecture	Ole Runar Myhr	Fundamentals of precipitation hardening
1100-1110	Break		
1110-1150	Lecture	Ole Runar Myhr	Integrated models for Al-Mg-Si alloys covering precipitation, yield strength, and work hardening
1150-1210	Discussion		
1210-1300	Lunch		
1300-1340	Lecture	Joe Robson	Microstructural modelling for high performance aluminium alloys
1340-1350	Break		
1350-1430	Lecture	Joe Robson	Microstructural modelling for high performance aluminium alloys
1430-1450	Coffee/tea		
1450-1530	Lecture	Calin D Marioara	AA6xxx alloys - alloy and process design
1530-1540	Break		
1540-1620	Lecture	Mami Mihara-Narita	AA7xxx alloys - alloy and process design
1620-1640	Discussion		

Thursday		Lecturer	Topic
Time			
0830-0910	Lecture	Olaf Engler	Microstructure, Texture and Property Relationships for Industrial Aluminium Sheet Production
0910-0920	Break		
0920-1000	Lecture	Olaf Engler	Microstructure, Texture and Property Relationships for Industrial Aluminium Sheet Production
1000-1020	Coffee/tea		
1020-1100	Lecture	Irmgard Weissensteiner	Recycling sustainability in alloy development
1100-1110	Break		
1110-1150	Lecture	Irmgard Weissensteiner	Recycling sustainability in alloy development
1150-1210	Discussion		
1210-1300	Lunch		
1300-1340	Lecture	O.S. Hopperstad	Ductile fracture of aluminium alloys: experiments, modelling and simulation.
1340-1350	Break		
1350-1430	Lecture	O.S. Hopperstad	Ductile fracture of aluminium alloys: experiments, modelling and simulation.
1430-1450	Coffee/tea		
1450-1530	Lecture	Andreas Erbe	Fundamentals of corrosion in Al-alloys
1530-1540	Break		
1540-1620	Lecture	Randi Holmestad	Advanced TEM for Al-alloy characterization
1620-1640	Discussion		

1900	Summer School dinner
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Friday		Lecturer	Topic
Time			
0830-0910	Lecture	Eva Mørtzell	Alloy design for end-product applications
0910-0920	Break	Break	
0920-1000	Lecture	Sigmund Arntsonn Tronvoll	Aluminium products – An application point of view
1000-1020	Coffee/tea		
1020-1100	Lecture		Industry presentations: Hydro (Jostein Røyset) Speira (Olaf Engler) Constellium (Chritophe Sigli)
1100-1110	Break		
1110-1140	Discussion		Panel discussion, moderated by Knut Marthinsen, NTNU. Participants; Jostein Røyset (Hydro), Olaf Engler (Speira), Christophe Sigli (Constellium), Irmgard Weißensteiner (Leoben University), Randi Holmestad (NTNU)
1140-1210	Quiz		Quiz from the school – and closing (Knut Marthinsen)
1210-1300	Lunch		
			END OF SUMMER SCHOOL