

June 14th	
08:30-09:00	Registration <i>Sentralbygg 1, S1</i> (https://link.mazemap.com/BpfzR22f)
General and motivational talks (Chair: Kristian Etienne Einarsrud/Samuel Senanu)	
09:00-12:00	<i>Sentralbygg 1, S1</i> (https://link.mazemap.com/BpfzR22f) Digital participation with zoom Meeting ID: 961 1428 5557 Password: 111222
09:00-09:15	Welcome and intro to CaNAI Kristian Etienne Einarsrud/Tor Grande
09:15-11:20	Aluminium research at NTNU/SINTEF
09:15-09:35	SFI Metal production Aud Wærnes
09:35-09:55	SFI Physmet Knut Martinsen
09:55-10:15	NAPIC Geir Ringen
10:15-10:25	SISAI Gabriella Tranell
10:25-10:45	Break
10:45-10:50	ENSUREAL Jafar Safarian
10:50-11:20	Aluminium Research and Opportunities Arne Petter Ratvik
11:20-11:30	Aluminium research at LAVAL and REGAL Houshang Alamdari
11:30-12:00	Sustainability in industry
11:30-11:45	Hydro Trond Furu
11:45-12:00	Alcoa Ellen Bromstad Myrvold
12:00-13:00	Lunch <i>Sentralbygg 1, Hangaren</i> (https://link.mazemap.com/DAh7Ycu)
13:00-16:30	Short course on aluminium industry (Chair: Sindre E. Gylver) <i>Sentralbygg 1, S1</i> (https://link.mazemap.com/BpfzR22f) Digital participation with zoom Meeting ID: 961 1428 5557 Password: 111222
13:00-13:25	Bauxite and alumina Balomenos (Thymis) Efthymios (via zoom)
13:25-13:50	Electrode technology Espen Sandnes
13:50-14:15	Electrolysis Samuel Senanu
14:15-14:40	Casthouse Robert Fritsch
14:40-15:00	Break
15:00-15:25	Refining and recycling Anne Kvithyld
15:25-15:50	Thermomechanical processing Knut Martinsen
15:50-16:15	Products and alloys Knut Martinsen
16:15	End of day 1
19:00	Dinner and activities at Rockheim <i>Brattørkaia 14</i> , (https://goo.gl/maps/3D3jdLqDmzqzLfh6)

June 15th			
Course I - Aluminium and sustainability (Chair: Camilla Sommerseth)		Course II - Digitalization (Chair: Sindre E. Gylver)	
<i>Sentralbygg 1, S1</i> (https://link.mazemap.com/BpfzR22f) Digital participation with zoom Meeting ID: 961 1428 5557 Password: 111222		<i>Sentralbygg 1, S4</i> (https://link.mazemap.com/rprGBzcU) Digital participation with zoom Meeting ID: 933 8841 6632 Password: 111222	
09:00-10:30	Sustainability and material flow Leiv Kolbeinsen	Latent variable methods (LVM) for analysis of Big Data in primary aluminium smelting Carl Duschesne	
10:30-12:00	Modification of anode raw materials Duygu Kocaefe	Consolidating research and process data Jesper Friis/Sylvain Gouttebroze	
Lunch <i>Sentralbygg 1, Hangaren</i> (https://link.mazemap.com/DAh7Ycu)			
Research presentations (Chair: Samuel Senanu) <i>Sentralbygg 1, S1</i> (https://link.mazemap.com/BpfzR22f) Digital participation with zoom Meeting ID: 961 1428 5557 Password: 111222			
13:00	Alumina dissolution Sindre Gylver	NTNU	
13:15	PAH Kamilla Arnesen	NTNU	
13:30	Oxidation of aluminium Nick Smith	SINTEF	
13:45	Dross formation and treatment - state of the art Martin Syvertsen	SINTEF	
14:00	Parametric study of dross formation at industrial scale Cathrine Kyung Won Solem	NTNU	
14:15	Aluminothermic reduction of SiO2 using dross Ece Soylu	NTNU	
14:20	OxySens Wojciech Gebarowski	SINTEF	
14:35	Break		
15:00	Potentials of fluid mechanics research for aluminium production applications Sayed-Mohammad Taghavi	REGAL	
15:15	Challenges in mathematical modelling of anode baking furnaces Yasar Kocaefe	REGAL	
15:30	Effect of anode position in the furnace on its electrical resistivity Guillaume Gauvin	REGAL	
15:45	An attempt to understand the sticking of packing coke on anode surface Nafiseh Shadvar	REGAL	
16:00	Stretch bending for high precision manufacturing Sigmund Artsønn Tronvoll	NTNU	
16:15	Sustainability in Hydro Trond Erik Jentoftsen	Hydro	
16:45	End of day 2		
19:00	Dinner and activities at Sverresborg <i>Sverresborg Alle 13</i> (https://goo.gl/maps/84pQRor8GVuu7XVG8)		

June 16th			
Course III - Emissions and energy usage (Chair: Gøril Jahrsengene)		Course IV - Material testing and characterization (Chair: Robert Fritsch)	
<i>Sentralbygg 1, S1</i> (https://link.mazemap.com/BpfzR22f) Digital participation with zoom Meeting ID: 961 1428 5557 Password: 111222		<i>Sentralbygg 1, S4</i> (https://link.mazemap.com/rprGBzcU) Digital participation with zoom Meeting ID: 933 8841 6632 Password: 111222	
09:00-10:30	Emissions from the Al - industry Gudrun Sævarsdottir	Advanced material testing Jun Ma/Randi Holmestad	
10:30-12:00	Thermal transfer and heat management Louis Gosselin	Atom Probe Tomography Paris Kontis/Costa Hatzoglou	
Lunch <i>Sentralbygg 1, Hangaren</i> (https://link.mazemap.com/DAh7Ycu)			
Research presentations (Chair: Cathrine Kyung Won Solem) <i>Sentralbygg 1, S1</i> (https://link.mazemap.com/BpfzR22f) Digital participation with zoom Meeting ID: 961 1428 5557 Password: 111222			
13:00	Numerical modelling of the green anode forming process Daniel Rodrigues	REGAL	
13:20	Effect of strain rate and stress amplitude during cyclic compaction of carbon paste Zahraa Kansoun (via zoom)	REGAL	
13:35	Numerical Modelling of anode baking furnaces Olivier Lacroix	REGAL	
13:50	Nanoparticle containing aluminium filler wires Ingvald Runningen	NTNU	
14:05	Break		
14:20	Characterizing pilot anodes made from CTP and bio-pitch using μ CT Gøril Jahrsengene/Stein Rørvik	SINTEF	
14:35	Aluminium filtration Ragnhild Aune/Are Bergin	NTNU	
14:50	Aluminium degassing Reinis Baranovskis	Univ. Latvia	
15:05	Closing remarks Kristian Etienne Einarsrud	NTNU	
15:15	End of summer school		