

WEEK ONE
University of Auckland

Monday 17th Nov.		Tuesday 18th Nov		Wednesday 19th Nov		Thursday 20th Nov		Friday 21st Nov		Saturday 22nd Nov
8:00-8:30	Introductions, Course Organisation + Philosophy/Purpose. (MPT/MMH)	8:00-9:00	Energy Balance on cells: E to make metal (JJJC)	8:00-9:15	Dynamics of Cell Energy Balance (MPT)	8:00-9:00	Heat Transfer; Potshell and sidewall losses (JJJC)	8:00-9:30	Electromagnetic Forces in the Cell (Gustafsson)	
8:30-10:00	Process Overview (incl Mass and E Balance) (MPT)	9:00-10:30	Tutorial -Energy Balance (JJJC)	9:15-10:15	Tutorial: Understanding your cell dynamics (MPT)	9:00-10:00	Tutorial: Heat Transfer	9:30-10:15	Impurities in cells (JBM)	
10:00-10:20	Tea Break	10:30 -10:50	Tea Break	10:15 -10:30	Tea Break	10:00 -10:20	Tea Break	10:15 -10:30	Tea Break	
10:20-12:00	Electrolytes for Smelting and Bath Chemistry (JJJC)	10:50-12:00	Light Metals production: world status (JBM)	10:30-12:00	Measurement Processes, their reliability and reproducibility (PL)	10:20-12:00	Smelter grade alumina- structure and properties (JBM) Tutorial Alumina Spec sheet	10:30-12:00	Tutorial - Impurities (JBM)	
12:00 -1:00	Lunch	12:00 -1:00	Lunch	12:00 -1:00	Lunch	12:00 -1:00	Lunch	12:00 -1:00	Lunch	
1:00-1:30	Participant Presentations	1:00-1:30	Participant Presentations	1:00-1:30	Participant Presentations	1:00-1:30	Participant Presentations	1:00-1:30	Participant Presentations	Sunday 23rd Nov
1:30-3:00	Electrochemistry and the components of the cell voltage (MPT)	1:30-3:00	Impact of cell condition on cell voltage (PL)	1:30-3:00	Workshop: Measurement Processes (PL)	1:30-3:00	Cell Design Life Cycle (MPT)	1:30-3:00	Cell Start up (Siew/Lavoie)	
3:00-3:20	Tea Break	3:00-3:20	Tea Break	3:00-3:20	Tea Break	3:00-3:20	Tea Break	3:00-3:20	Tea Break	
3:20-5:00	Tutorial: Cell Voltage	3:200 - 5:00	Workshop/Tutorial: Cell condition and cell voltage	3:20-5:00	Dynamics of Cell Mass Balance (MPT) TUTORIAL: Cell Mass Balance	3:20-5:00	Bubble resistance and hydrodynamics (JJJC)	3:20-5:00	Cell Start up WORKSHOP/DISCUSSION (PL/MPT)	