2 nd RealSOFC Summerschool Characterisation Technicques for SOFC materials Cells and stacks Ovronnaz 11.9.-16.9.2005

	Time	Sun 11.9.	Mo 12.9.		Tue 13.9.		Wed 14.9.		Thur 15.9.		Fri 16.9.	
			Topic	Lecturer	Topic	Lecturer	Topic	Lecturer	Topic	Lecturer	Topic	Lecturer
Morning session 1	09:00		General Introduction Welcome	Augustin McEvoy	Intro-Set-up EC electrode/cell tests	Peter Holtappels Empa	Fuel/ Gas analysis	to be defined	Non destructive testing (NDT)	Thomas Lüthi Empa	SOFC Systems	Miika Jussila Wärtsilä
	09:30		Intro SOFC Activities in Europe	Robert Steinberger, FZ- Jülich								
	10:00											
	10:30		Coffee/Tea		Coffee/Tea		Coffee/Tea		Coffee/Tea		Coffee/Tea	
Morning session 2	11:00		Structural Methods	John Irvine Univ St Andrews	AC-DC-Electrochemical techniques	Bernard Boukamp, Uni Twente	Cell testing procedures/equipment	ECN Planje	Stack testing setup/equipment	Bert de Haart, FZJ	Sulzer System performance & field tests	Jeanette Frei, Sulzer Hexis
	11:30											
	12:00		Large Facilities Neutron X-ray									
			Lunch		Lunch		Packed Lunch		Lunch		Farewell and Lunch	
Aftrenoon session 1	14:00		Thermal Analysis DTA/TG CTE	John Irvine Univ St Andrews	Mechanical Testing	Jakob Kuebler, Empa	Excursion: Lötschberg Tunnel and Hydro electric power station		Understanding/ Modelling Degradation: performance operation	Werner Lehnert ZSW Ulm		
	14:30		Chemical Methods									
	15:00											
	15:30 - 17:00		Break		Electrical Testing1stGr/break 2nd	Bernard Boukamp, Uni Twente, Martin Smith, EPFL			Electro Test	Fideris		
Afternoon session 2	17:30	Welcome gathering	Imaging TEM	Jesus Canales Univ Barcelona					Electrical Testing2ndGr/break 1st	Bernard Boukamp, Uni Twente, Martin Smith, EPFL		
	18:00		Imaging SEM		Powder characterisation	Ton Schoofs Beckman-Coulter						
	18:30		Electron Beam Analysis									
	19:00 - 24:00h						Banquet		Exams for Certificates			
	Teaching Units		6		8		4		6		4	
	Total		**28**									