



SYNGAS 3
CONVENTION
PROGRAMME – AUTUMN SCHOOL

DAY 1 – THURSDAY – 22 MARCH 2018

11:00 – 13:00	Registration
	13:00 – 13:30 Welcome – Eric van Steen (UCT)
Session 1	13:00 – 14:00 World Energy Scene – Eric van Steen (UCT)
Session 2	14:00 – 14:30 Overview of drivers in industry – Youqi Zhuang (SASOL) 14:30 – 15:15 Synthesis gas generation – Marnus Beukman (SASOL) 15:15 – 15:45 CO ₂ removal – Daleen van Dyk (SASOL)
15:30 – 16:00	Tea/Coffee
Session 2 cont.	16:00 – 17:00 FT synthesis and the FT process – Jaco Nel (SASOL) 17:00 – 17:30 Hydroformylation using CO ₂ – Gerrit Julius (SASOL)
17:30 – 19:00	Dinner
Session 3	19:30 – 20:30 CO ₂ Overview – Gabriele Centi (Univ. Messina)

DAY 2 – FRIDAY – 23 MARCH 2018

Session 4	8:30 – 10:00 Concepts in heterogeneous catalysis – Eric van Steen (UCT)
10:00 – 10:30	Tea/Coffee
Session 5	10:30 – 12:00 Heterogeneous CO ₂ reduction – Levi Thompson (Univ Michigan)
12:00 – 13:30	Lunch
Session 6	13:30 – 14:15 Concepts in homogenous catalysis – James Darkwa (Botswana IT)
Session 7	14:15 – 15:00 Electrocatalysis: An introduction – Pieter Levecque (UCT)
15:00 – 15:30	Tea/Coffee
Session 8	15:30 – 16:45 Electro-catalytic CO ₂ reduction – Gabriele Centi (Univ. Messina)
Session 9	16:45 – 18:00 Energy for sunlight using catalysis – Mike Bowker (Cardiff Univ.)
18:00 – 19:30	Dinner
Session 10	19:30 – 21:00 Panel discussion on CO ₂ generation/mitigation/reduction (Bowker/Centi/Thompson)

DAY 3 – SATURDAY – 24 MARCH 2018

Session 11	8:30 – 10:00 DFT modelling in catalysis – Pieter van Helden (SASOL)
10:00 – 10:30	Tea/Coffee
Session 12	10:30 – 12:00 Micro-kinetic modelling – Ivo Filot (Eindhoven Univ. Tech.)
	Closing remarks
13:00 – 14:00	Lunch
From 14:00	Individual transfers