



SFERA Networking

WINTER SCHOOL 2011

ETH Zurich, Switzerland

24th – 25th March 2011

Topic of the 2nd SFERA Summer School:

SOLAR FUELS & MATERIALS

Thursday, March 24

8:00-9:00

Registration

9:00

Welcome

09:15-10:00

Prof. Aldo Steinfeld, ETH Zurich (Switzerland):
Fundamentals of solar thermochemical processes

10:15-11:00

Prof. Robert Pitz-Paal, DLR (Germany):
Heliostat field design for solar thermochemical processes

11:15-12:00

Dr. Martin Roeb, DLR (Germany):
Sulfur-Iodine and ferrite-based thermochemical cycles for splitting H₂O

12:15-13:00

Dr. Jonathan Scheffe, ETH Zurich (Switzerland):
Solar thermochemical cycles using thin film ferrites and other metal oxides

13:00-14:30

Lunch

14:45-15:30

Dr. Sixto Malato, CIEMAT (Spain):
Solar detoxification of water

15:45-16:30

Dr. Michael Epstein, Weizmann Institute (Israel):
Solar thermal reforming methane

16:45-17:30

Dr. Gilles Maag, ETH Zurich (Switzerland):
Solar co-production of H₂ and C by thermal decomposition of CH₄

18:30

Dinner

Friday, March 25

09:15-10:00

Dr. Anton Meier, Paul Scherrer Institute (Switzerland):
The Zn-based thermochemical cycle for splitting H₂O and CO₂

10:15-11:00

Dr. Peter Loutzenhiser, ETH Zurich (Switzerland):
Reduction of CO₂ and H₂O with Zn and FeO

11:15-12:00

Dr. March Chambon, PSI (Switzerland):
Solar thermochemical cycles based on the ZnO/Zn or SnO₂/SnO redox couples

12:15-13:00

Dr. Christian Wieckert, Paul Scherrer Institute (Switzerland):
Solar carbothermic production of zinc

13:15-14:30 ***Lunch***

14:45-15:30 Dr. Ivo Alxneit, Paul Scherrer Institute (Switzerland):
Temperature measurement in solar furnaces and solar simulators

15:45-16:30 Dr. Alfonso Vidal, CIEMAT (Spain):
Solar gasification of petroleum coke

16:45-17:30 Dr. Nic Piatkowski, ETH Zurich (Switzerland):
Solar gasification of carbonaceous waste feedstock

18:00 ***Adjournment***