

GEC Workshop "Electrification of the chemical industry"

Bochum, Germany, October 10th

10.00 – 12.30 Session I.

10:00 Introduction to the workshop, David Graves (UC Berkeley) and Richard van de Sanden (DIFFER, TU/e)

Email: gravesdav@gmail.com, m.c.m.vandesanden@diffier.nl

10:15 "The benchmark: Electrochemistry and fuel production", Ming Chen (DTU Kopenhagen, Denmark)

Email: minc@dtu.dk

10:55 "Plasma as power transfer medium", Gerard van Rooij, CO₂ plasma activation (DIFFER)

Email: G.J.vanRooij@diffier.nl

11:35 "Nonequilibrium kinetics in N₂ and CO₂", Vasco Guerra (IST, Portugal)

Email: vguerra@tecnico.ulisboa.pt

12.15-13.30 lunch break

13.30 – 15.30 Session II

13:30 "Fusion farming, fossil free fertilizer on the farm by Nitrogen fixation", Rune Ingels (N₂ Applied AS, Oslo)

Email: rune.ingels@n2applied.no

14:10 "Direct decarbonization of methane by thermal plasma for the co synthesis of carbon black and hydrogen", Laurent FULCHERI (Paris tech, France)

Email: laurent.fulcheri@mines-paristech.fr

14.50 – 15.20 coffee break

15.20 – 16.40 session III

15:20 "Advanced control of cold atmospheric plasmas", Ali Mesbah (UC Berkeley)

Email: mesbah@berkeley.edu

16:00 "Plasmabased Synthesis of Nitrogenoxid - Enabler for CO₂-free Fertilizer Production", Jürgen Lang (Evonik, Germany)

Email: juergen.lang@evonik.com

16.40 Closure of workshop