CRC1316 – Project meeting Kerkrade

26 June 2018

on 11th/12th/13th July 2018

at **Abdij Rolduc**, Heyendallaan 82,6464 EP Kerkrade
Netherlands

The aim of the meeting is the presentation of the status of the project.

The content of the project presentation should include:

- What is the aim of the projects in the general?
- What is the scientific status?
- What are the most important cooperation partners?
- Who are the persons working in this project?
- 10 min. discussions!

Agenda/Timeline

Wednesday, 11 July 2018	CRC1316	
15:00	Board Meeting	Board - Saloon 6
	Activity for PhD students	PhD students - Saloon 4
19:00	**Dinner**	All
Thursday, 12 July 2018	**Transient plasmas** **Presentation: 20 min. Discussion: 10 min.**	**Leader: Czarnetzki**
09:15	Welcome	von Keudell
09:30	A1 – Sub-ns electric field measurement in transient atmospheric pressure plasmas	Luggenhölscher
10:00	A2 – Ro-vibrational distribution measurement in transient discharges by coherent anti-Stokes Raman scattering	Kuhfeld
10:30	**Coffee break**	All
11:00	A3 – Excitation transfer between molecules in transient atmospheric pressure plasmas and its impact on plasma chemistry	Urbanietz
11:30	The LisbOn KInetics (LoKI) computational tool	Alves/ Tejero
12:30	**Lunch**	All
13.30	A4 – Process control in micro atmospheric pressure RF plasma jets by voltage waveform tailoring and customized boundary surfaces	Korolov
14:00	A5 – From ns- to ms-pulses: influence of voltage characteristics on surface dielectric barrier discharges	Smith
14:30	A6 – Pulsed plasma interaction with catalytic surfaces within micro-structured array devices	Dzikowski
15:00	**Coffee break**	All
15:30	A7 – Plasma—assisted catalysis for conversion volatile organic compounds (VOC)	Peters/ Schücke
16:00	A8 – A 1.5 dimensional transient transport model of plasma jets	Brinkmann
16:30	A9 – A kinetic chemistry model for atmospheric-pressure plasmas	Kemaneci/ Brinkmann
17:00	Financial remarks, Mercator fellows	Böke
19:00	**Dinner**	All

Friday, 13 July 2018	Plasma-liquid-solid interfaces Presentation: 20 min. Discussion: 10 min.	Leader: Muhler
9:00	B1 – Plasma-induced nanostructuring and catalyst activation under operando conditions	Grosse
9:30	B2 – Self-organization of sub-µm surface structures stimulated by microplasma generated reactive species and short-pulsed laser irradiation	Preissing
10:00	B4 – Theoretical studies on the interaction of excited species with catalyst surfaces	Jacob
10:30	**Coffee break**	All
11:00	B5 – 2D-plasma-liquid-solid interfaces – plasma electrolytic oxidation	Bracht
11:30	B7 – Reaction chemistry of plasmas in liquids interacting with surfaces	Grosse
12:00	B8 – Non-thermal plasma driven biocatalysis	Yayci
12:30	Closing	von Keudell
12:35	**Lunch**	All
13:30	**Departure**	**All**