



Tutorial 1 „Fundamentals and Trends of Plasma Surface Engineering“

Monday, September 2, 2024 | 09:30 – 13:00 Uhr | CZS - left

organized and moderated by
Dirk Hegemann, EMPA, Switzerland

9:30 – 10:15

Tut-01-01

Modeling and Simulation of Technical Plasmas

Ralf Peter Brinkmann, Ruhr-Universität Bochum, Germany

10:15 – 11:00

Tut-01-02

The role of ion bombardment for thin film deposition: Basics and diagnostics

Holger Kersten, Christian-Albrechts-University, Germany

11:00 – 11:30

Coffee Break

11:30 – 12:15

Tut-01-03

Fundamental and Trends of Plasma Surface Processing Surface engineering with atmospheric pressure plasmas

Michael Thomas, Fraunhofer Institut für Schicht- und
Oberflächentechnik IST, Germany

12:15 – 13:00

Tut-01-04

Plasma Treatment of Polymers and Plasma Polymerization

Dirk Hegemann, EMPA, Switzerland

13:00

Final Comments



Tutorial 2 „Diagnostics for Plasma Technologies“

Monday, September 2, 2024 | 09:00 – 13:00 Uhr | CZS - right

organized and moderated by
Peter Awakowicz, Ruhr-Universität Bochum, Bochum, Germany

9:00

Welcome Words

Peter Awakowicz

9:10 – 9:50

Tut-02-01

„Multipolresonanzsonde“

Moritz Oberberg, House of Plasma, Bochum, Germany

9:50 – 10:30

Tut-02-02

Self Excited Electron Resonance Spectroscopy”

Michael Klick, Plasmetrex, Berlin, Germany

10:30 – 11:10

Tut-02-03

“OES/OAS”

Volker Schulz van der Gathen, EP2, RUB, Bochum, Germany

11:10 – 11:40

Coffee Break

11:40 – 12.20

Tut-02-04

„Laserspektroskopie“

Jean Pierre van Helden, INP Greifswald, Germany

12:20 – 13:00

Tut-02-05

„Massenspektrometrie“

Jan Benedikt, Uni Kiel, Kiel, Germany

13:00

Final Comments

Peter Awakowicz



Tutorial 3 „Fundamentals and Trends for Gas Conversion“

Monday, September 2, 2024 | 09:30 – 13:00 Uhr | CR

organized and moderated by
Rony Snyders, UMONS, Belgium

Program

09:30 **Welcome Words**

9:30 – 11:00 **An introduction to the important principles related to plasma-based gas conversion including modelling aspects.**
Tut-03-01 Ramses Snoeckx, EMPA, Switzerland

11:00 – 11:30 **Coffee Break**

11:30 – 13:00 **A second part focusing on the experimental characterizations of these processes, especially by optical diagnostic.**
Tut-03-02 Nikolay Britun, Nagoya University, Japan

13:00 **Final Comments**