Plasma Physics Division
Fachverband Plasmaphysik (P)

Jan Benedikt
Kiel University
Faculty of Mathematics and Natural Sciences
Institute of Experimental and Applied Physics
Leibnizstr. 19
24098 Kiel
benedikt@physik.uni-kiel.de

Overview of Invited Talks and Sessions

(Lecture halls ELP 6: HS 3, ELP 6: HS 4, and WW 1: HS; Poster ELP 6: Foyer)

Plenary Talks of the Plasma Physics Division

PV II	Mon	9:45–10:30	ELP 6: HS 3+4	**The role of plasma conversion technology in the greening of the chemical industry** — •Richard van de Sanden
PV VIII	Thu	9:45–10:30	ELP 6: HS 3+4	**Achieving target gain $>$ 1 from inertial confinement fusion implosions at the National Ignition Facility*** — •Tilo Döppner

Invited Talks

P 1.1	Mon	11:00–11:30	ELP 6: HS 3	**On the observation of Trapped Electron Modes in W7-X** — •Andreas Krämer-Flecken, Paul Costello, Golo Fuchert, Joachim Geiger, Stèphane Heuraux, Alexander Knieps, Josefine Proll, Kian Rahbarnia, Roland Sabot, Luigui Salazar, Gavin Weir, Thomas Windisch, Haoming Xiang
P 2.1	Mon	11:00–11:30	WW 1: HS	**Interaction of reactive components of non-equilibrium atmospheric plasmas with liquids and surfaces** — •Kerstin Sgonina, Alexander Quack, Christian Schulze, Jan Benedikt
P 3.1	Mon	14:00–14:30	ELP 6: HS 3	**Influence of Nanosecond Pulsed Plasmas in Liquids on Copper Surfaces** — •Pia-Victoria Pottkämper, Oliver Krettek, Katharina Laake, Achim von Keudell
P 4.1	Mon	14:00–14:30	WW 1: HS	**Ab initio calculations of conductivities under planetary interior conditions** — •Martin Preising, Martin French, Maximilian Schörner, Mandy Bethkenhagen, Argha Roy, Uwe Kleinschmidt, Ronald Redmer
P 7.1	Tue	11:00–11:30	ELP 6: HS 3	**Physics of Electrical Currents and Fields in the Scrape-off Layer of Tokamak Plasmas** — •D. Brida, G. D. Conway, J. Adamek, J. Cavalier, H. Bergstroem, G. Grenfell, U. Plank, the ASDEX Upgrade Team
P 8.1	Tue	11:00–11:30	WW 1: HS	**Pulsed Complex Plasma In Microgravity** — •Christina A. Knapek, Daniel P. Mohr, Peter Huber
P 10.1	Tue	14:00–14:30	WW 1: HS	**Filament interaction in dielectric barrier discharges** — •Hans Höft, Ronny Brandenburg, Markus M. Becker, Torsten Gerling
P 11.1	Tue	16:30–17:00	ELP 6: HS 3	**Collaboration on RDM in low-temperature plasma physics** — •Marina Prenzel, Kerstin Sgonina, Markus Becker
P 14.1	Wed	11:00–11:30	WW 1: HS	**Insights into the Non-Thermal Character of Molecular Plasmas from Optical Frequency Comb Spectroscopy** — •Ibrahim Sadiek, Norbert Lang, Jean-Pierre H. van Helden

P 15.1	Wed	14:00–14:30	ELP 6: HS 3	**Particle fueling, profiles and transport in neutral beam heated plasmas at Wendelstein 7-X** — •Sebastian Bannmann, Oliver Ford, Peter Poloskei, Jakob Svensson, Samuel Lazerson, Hakan Smith, Robert Wolf
P 16.1	Wed	14:00–14:30	WW 1: HS	**CO_2 dissociation by microwave plasmas: experimental studies on interfaces in view of industrial applications** — •Rodrigo Antunes, Christian K. Kiefer, Ante Hecimovic, Katharina Wiegers, Arne Meindl, Andreas Schulz, Ursel Fantz
P 17.1	Wed	16:30–17:00	ELP 6: HS 3	**Finite Element Method to Describe Magnetic Measurements of Tearing Modes in ASDEX Upgrade** — •Magdalena Bauer, Hartmut Zohm, Marc Maraschek, Anja Gude, Wolfgang Suttrop, Felix Klossek, Bernhard Sieglin, Louis Giannone
P 18.1	Wed	16:30–17:00	WW 1: HS	**Diffusion of reactive species in aqueous solutions treated by a humid atmospheric pressure plasma jet** — •Steffen Schüttler, Emanuel Jess, Judith Golda
P 20.1	Thu	11:00–11:30	ELP 6: HS 3	**Modelling of tungsten erosion and deposition in fusion devices** — •Andreas Kirschner, Sebastijan Brezinsek, Juri Romazanov
P 20.2	Thu	11:30–12:00	ELP 6: HS 3	**Drift flows in the island divertor of W7-X** — •Carsten Killer, Sean Ballinger, Seung-Gyou Baek, Dario Cipciar, Olaf Grulke, Adrian von Stechow, Jim Terry
P 21.1	Thu	14:00–14:30	ELP 6: HS 3	**The collisionally modified Bohm criterion: Insight or illusion?** — •Ralf Peter Brinkmann
P 22.1	Thu	14:00–14:30	ELP 6: HS 4	**First Results of Laser-Induced Desorption - Quadrupole Mass Spectrometry (LID-QMS) at JET** — •Miroslaw Zlobinski, Gennady Sergienko, Ionut Jepu, et al
P 22.2	Thu	14:30–15:00	ELP 6: HS 4	**Deuterium retention analysis in pre-damaged tungsten using laser-induced breakdown spectroscopy** — •Erik Wüst, Christoph Kawan, Sebastijan Brezinsek, Thomas Schwarz-Selinger
P 23.1	Thu	16:30–17:00	ELP 6: HS 3	**Characterizing electron depleted, nanodusty plasmas recent developments and future outlooks** — •Andreas Petersen, Franko Greiner
P 24.1	Thu	16:30–17:00	ELP 6: HS 4	**Electron surface scattering kernel for plasma simulations** — •Franz Xaver Bronold, Felix Willert

Invited Talks of the joint Symposium Plasmas in the Solar System (SYPS)

See SYPS for the full program of the symposium.

SYPS 1.1	Thu	11:00–11:30	ELP 6: HS 4	**Energetic Particles in the Turbulent Heliosphere** — •Horst Fichtner
SYPS 1.2	Thu	11:30–12:00	ELP 6: HS 4	**Persistent solar wind forcing of the F2-region ionosphere observed at Tromsø** — •Claudia Borries, Pelin Iochem
SYPS 1.3	Thu	12:00–12:30	ELP 6: HS 4	**In-orbit diagnostics for artificial plasmas created by electric propulsion systems: The Heinrich Hertz Satellite Mission** — •Thomas Trottenberg
SYPS 1.4	Thu	12:30–13:00	ELP 6: HS 4	**Plasma-based space propulsion: status and scientific challenges** — •Kristof Holste

Sessions

P 1.1–1.4	Mon	11:00–12:35	ELP 6: HS 3	**Magnetic Confinement I/HEPP I**
P 2.1–2.5	Mon	11:00–12:30	WW 1: HS	**Atmospheric Pressure Plasmas and their Applications I**
P 3.1–3.7	Mon	14:00–16:00	ELP 6: HS 3	**Plasma Wall Interaction I**
P 4.1–4.7	Mon	14:00–16:00	WW 1: HS	**Astrophysical Plasmas/Laser Plasmas**
P 5.1–5.5	Mon	16:30–18:15	ELP 6: HS 3	**Magnetic Confinement II/HEPP II**
P 6.1–6.30	Mon	16:30–18:30	ELP 6: Foyer	**Poster I**
P 7.1–7.5	Tue	11:00–12:30	ELP 6: HS 3	**Magnetic Confinement III**
P 8.1–8.5	Tue	11:00–12:30	WW 1: HS	**Complex Plasmas and Dusty Plasmas I**
P 9.1–9.5	Tue	14:00–16:05	ELP 6: HS 3	**HEPP III**
P 10.1–10.7	Tue	14:00–16:00	WW 1: HS	**Atmospheric Pressure Plasmas and their Applications II**

P 11.1–11.3	Tue	16:30–17:40	ELP 6: HS 3	**Codes and Modeling I**
P 12.1–12.31	Tue	16:30–18:30	ELP 6: Foyer	**Poster II**
P 13.1–13.4	Wed	11:00–12:20	ELP 6: HS 3	**Magnetic Confinement IV/HEPP IV**
P 14.1–14.5	Wed	11:00–12:30	WW 1: HS	**Low Pressure Plasmas and their Application I**
P 15.1–15.5	Wed	14:00–16:10	ELP 6: HS 3	**HEPP V**
P 16.1–16.7	Wed	14:00–16:00	WW 1: HS	**Atmospheric Pressure Plasmas and their Applications III**
P 17.1–17.6	Wed	16:30–18:35	ELP 6: HS 3	**Magnetic Confinement V/HEPP VI**
P 18.1–18.7	Wed	16:30–18:30	WW 1: HS	**Atmospheric Pressure Plasmas and their Applications IV**
P 19	Wed	18:45–19:45	ELP 6: HS 3	**Members' Assembly**
P 20.1–20.5	Thu	11:00–12:45	ELP 6: HS 3	**Magnetic Confinement VI**
P 21.1–21.5	Thu	14:00–15:30	ELP 6: HS 3	**Low Pressure Plasmas and their Application II**
P 22.1–22.4	Thu	14:00–15:50	ELP 6: HS 4	**Plasma Wall Interaction II/HEPP VII**
P 23.1–23.5	Thu	16:30–18:00	ELP 6: HS 3	**Complex Plasmas and Dusty Plasmas II**
P 24.1–24.4	Thu	16:30–17:45	ELP 6: HS 4	**Codes and Modeling II**
P 25.1–25.31	Thu	16:30–18:30	ELP 6: Foyer	**Poster III**

Members' Assembly of the Plasma Physics Division

Wednesday 18:45–19:45 ELP 6: HS 3