

Résumé Prof. Dr. Arne Kallenbach***Personal Details:***

Name Arne Kallenbach
 Date and Place of Birth: xx/xx/xx, xxxxx, xxxxx
 Nationality: German
 Place of Work: Max-Planck-Institut für Plasmaphysik, Boltzmannstr. 2, D-85748 Garching

Contact:

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Education:

1979 – 1984 Physics study, University of Hannover
 1985 – 1988 member at Institute for Plasma Physics, University of Hannover
 11.02.1988 Graduation to Dr. rer. nat. at the University of Hannover.
 01.02.1995 Habilitation to Dr. rer. nat. habil. for “Physics” at University of Hannover

Career:

1988- Employed at Max-Planck-Institut für Plasmaphysik, Garching
 1995-2006 Group leader for spectroscopy at ASDEX Upgrade
 2001-2002 Deputy Task Force Leader Task Force E at JET/Culham/UK.
 since 2002 Extra-ordinary Professor at Hannover University
 2007-2010 Head (acting) of the Department E2: ”Tokamak: Edge and Divertor Physics”.
 Aug. 2010- Project Leader for the ASDEX Upgrade tokamak
 2010- Member of the ITPA CC-JEX meeting (machine leader AUG)
 2013 - 2019 IFERC Project Committee Member
 2014 - 2016 Member of CCFE Programme Advisory Committee
 2017- Member of IPP.CR International Board of Advisers
 2019- Member of the DIII-D Programme Advisory Committee (PAC)
 2019- Member of STAC
 2021- Member of the EUROfusion Tokamak Exploitation Project Board

Awards:

“Röntgenpreis“ of the University Giessen (1994)
 IAEA Nuclear Fusion Journal Prize 2018

Major Conference Talks*Closed Divertor Operation in ASDEX Upgrade and JET*

Invited Talk, 26th EPS Conference on Controlled Fusion and Plasma Physics, Maastricht 1999

Tokamak operation with high-Z plasma facing components

Invited Talk, 32th EPS Conference on Controlled Fusion and Plasma Physics, Tarragona, Spain, 2005.

Plasma surface interactions in impurity seeded plasmas

Review Talk, 19th PSI Conference, San Diego, USA, 27.5.2010

Overview of ASDEX Upgrade results

Overview Talk, 23rd IAEA FEC Conference, Daejeon, Korea, Oct 2010.

Impurity seeding for tokamak power exhaust: from present devices via ITER to DEMO

Plenary Invited Talk, 40th EPS Conference on Plasma Physics, Espoo, Finland, 1.-5.7.2013.

Partial detachment of high power discharges in ASDEX Upgrade

Invited Talk, 25th IAEA FEC Conference, St. Petersburg, Russia, Oct 2014.

Power and particle exhaust at high P/R in ASDEX Upgrade

Invited talk, 18th ICPP Conference, Kaohsiung, Taiwan, June 2016

Overview of ASDEX Upgrade results

Overview Talk, 26th IAEA FEC Conference, Kyoto, Japan, Oct 2016.

General Comments

Prof. Kallenbach's main fields of interest are the edge and scrape-off layer plasma and its interaction with wall and divertor surfaces. He accomplished primary work on edge plasma physics and wall material release and developed foremost radiative cooling techniques in ASDEX Upgrade. Current focus of his work are operational aspects of a tokamak with fully tungsten-coated plasma facing components and the dissipation of high power levels in the divertor employing seed impurity radiation and hydrogenic momentum loss processes. His tasks as project leader for the ASDEX Upgrade tokamak include the setup of IPPs experimental programme, integration with the EUROfusion WP-TE programme, organisation of experiments conduction, supervision of tokamak operation and quality control and endorsement of publications and conference contributions.

(Prof. Dr. Arne Kallenbach)