



Curriculum vitae Hans-Stephan Bosch

Date of birth: 29. May 1957
 Place of birth: Stuttgart
 Family status: married, two children

EDUCATION

Vordiplom	09/1979	Westfälische Wilhelms-University, Münster
Dipl.-Phys.	08/1983	Ludwig-Maximilians-University, München
Dr. rer. nat.	12/1986	Technical University, München (summa cum laude)
Habilitation	07/2000	Habilitation for experimental plasma physics at the Humboldt-University in Berlin

SCIENTIFIC CAREER

11/1983 – 12/1986	Ph.D. work at the tokamak ASDEX in IPP
2/1987 – 1/1988	Post-Doc at Princeton University, Princeton Plasma Physics Laboratory, New Jersey: Diagnostics with fusion reaction products on TFTR
1988 – 1990	staff member at the tokamak ASDEX, working on neutron diagnostics
1990 – 2000	staff member at the tokamak ASDEX Upgrade
	<u>scientific interests</u>
	- investigation of fusion neutrons and charged fusion products
	- divertor physics, 2-d modelling of the divertor plasma
	- helium transport and -exhaust
	<u>Administrative functions</u>
	- radiation safety officer for ASDEX Upgrade
	- session leader at ASDEX Upgrade
	- group leader „diagnostics III“
2000-2003	head of the scientific-technical office in IPP (staff office of the director)
1/2004 – 10/2013	leader of Project coordination Wendelstein 7-X in IPP Greifswald
	highlights in this period:
	- Development and implementation of the „Integrated Planning Tool“
	- Introduction of a risk budget into the W7-X planning
5/2006-9/2017	associate director coordinaton of Wendelstein 7-X
28.02.2008	„Venia Legendi“ for experimental physics at Greifswald University (Privatdozent)
Since 11/2013	division head „Wendelstein 7-X operation“ and „Technical. Leader W7-X“. This divison with about 90 staff is responsible for the technical operation of W7-X, for CoDaC (data acquisition, control and safety control systems, general IT and communications) as well as for the operational management of the plasma experiments

3/2014 – 12/2015	Chief Commission Manager (CCM), responsible for the first commissioning of Wendelstein 7-X (OP 1.1)
Since 12/2015	Technical leader for operations and CCM for the commissioning of OP 1.2a/b <ul style="list-style-type: none"> the commissioning procedures have been further developed for the operation phases OP 1.2 and OP 1.2b for the operation phases, a system of deputies (TLvD) was set up to lead the technical operation of W7-X
5.08.2016	appointment as „Honorarprofessor“ at the Technical University Berlin
Since 10/2017	Deputy of the scientific director of <i>Wendelstein 7-X/completion</i>

AWARDS

1987	Otto-Hahn-medal of the Max-Planck-Gesellschaft
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MEMBERSHIP IN COMITEES

1990 – 1992	chair of the scientists council at IPP
1997 – 2000	elected representative of the IPP scientists in the CPTS of the Scientific Council of the Max-Planck-Society; member in 2 appointment committees
1999 – 2001	member of the EFDA JET-sub-committee, which controls and monitors the operations of JET
2000 – 2006	member of the management council of the German Physical Society (DPG)
2008 – 2009	member of the ITER Cost Review (Briscoe-Panel)
2009 – 2020	member of the Fusion Technology Committee (FTC) of the IEEE Nuclear & Plasma Science Society (NPSS)
2014 – 2017	member of the MAST-U review group in CCFE, Culham, UK
2016 – 2020	member of the WEST Governing Board, Cadarache, France
2018	member of the NSTX Director's review in PPPL, NJ, USA
2019	member of the panel to assess the inclusion of WEST into the MST program
2020	Member of the NSTX-U Recovery Project FDR, Princeton, NJ, USA
Since 1.11.2018	Member of the ITER Operation Network (ION), Cadarache, France
Since 1.01.2020	Member of the Technical Advisory Panel (TAP) for F4E, Barcelona, Spain
November 2021	Member of the ESS Re-baseline Review Group, Lund, Sweden

TEACHING

WS 91/92 – SS 94	Augsburg University <ul style="list-style-type: none"> exercises in Experimental Physics III and IV and lectures in Plasma Physics I and II
1995 – 2000	supervision of diploma- and Ph.D. theses on ASDEX Upgrade
1996 – 2000	leading the Summer University on Plasma Physics of IPP
WS 98/99 – SS 99	Humboldt-University in Berlin lectures Magneto-Hydro dynamics and Plasma Diagnostics
WS 01/02 – WS 03/04	Ulm University <ul style="list-style-type: none"> lectures Plasma Physics I and II organisation of hands-on training in Plasma Physics

WS 04/05	Humboldt-University in Berlin lectures in Magneto-Hydrodynamics
SS 09 – WS 15/16	Ernst-Moritz-Arndt-Universität Greifswald <ul style="list-style-type: none"> • lectures in „Struktur der Materie für Umwelt-Wissenschaftler“, High Temperature Plasma Physik, Fusionsphysik • supervision of a BA-thesis
Since SS 2018	Technical University Berlin <ul style="list-style-type: none"> • lectures in Controlled Nuclear Fusion • setting up and supervising an experiment for hands-on training

Updated December 1, 2021