Prof. Dr. habil. Fred Lisdat
Biosystems Technology
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Fred Lisdat has the Chair of Biosystems Technology at the Technical University of Applied Sciences Wildau and is Head of the Bioanalysis and Biosensors Laboratory. He is the Director of the Institute of Applied Life Siences at TUAS.
He received his PhD in Physical Chemistry from Humboldt University Berlin in 1992 and his Facultas Docendi in Analytical Biochemistry from Potsdam University in 2004 (habilitation).
He began his research career in the field of chemical sensors concentrating his efforts on semiconductor-based devices. Later he has focused on biosensors mainly on enzymatic recycling schemes using bio- and bioelectrocatalysis and on direct protein electrochemistry. Analytical applications have been demonstrated for the sensorial detection of reactive species, hormones and metabolites. Special attention is given to the development of protein multilayer architectures and the application of nanoparticles in combination with redox proteins. Besides this, light-addressable sensors have been developed. Furthermore, he has been working in the field of DNA- and antibody- detection using optical and electrochemical techniques and studying protein-protein and protein-nucleic acid interactions.
He is author of more than 100 original papers, 15 reviews and book chapters and 3 patents. He is actively organising symposia for the International Society of Electrochemistry, the Bioelectrochemical Society and within the German Biosensors Symposiums Series.
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Birth:	20.09.1963, Berlin
Nationality	German
Study:	1984-89 Chemistry (Humboldt University Berlin)
	1988 Exchange student at the University of St. Petersburg (Russia)
phd:	1989-92 Humboldt University Berlin, Institute of Physical and Theoretical Chemistry "Development and characterization of a reference element for the ion sensitive field effect transistor (ISFET)"
	1992 Dr. rer. nat. (summa cum laude)
Post doc	1993-94 Kyushu University Fukuoka (Japan)
	1994-95 Institute of Technology and Environmental Protection Berlin
Project leader	1995-98 Potsdam University (Institute of Biochemistry and Biology)
	1998-03 BioHyTec (research association for biohybrid technologies)
	since 2000 chair of BioHyTec
Professor	2001 guest professor at the University of Tokyo (Japan)
	Center for Collaborative Research
Habilitation	2004 University of Potsdam: "Sensorial detection of signal molecules using redox conversions at protein molecules"
Professor	since 2004 Technical University of Applied Sciences Wildau
	Chair of Biosystems Technology
Scientific Societies	International Society of Electrochemistry ISE
	Bioelectrochemical Society BES (Council member)
	Gesellschaft Deutscher Chemiker GdCh
	FMS Forschungsgemeinschaft für Messtechnik, Sensorik und Medizintechnik
	DiagnosticNet Berlin Brandenburg (Council member)
	Zentrum für Molekulare Diagnostik und Bioanalytik (Council member)