

Present Position

since 2005 Scientific staff, DESY.
Head FLASH accelerator. FLASH is a free-electron laser user facility providing femtosecond scale radiation in the XUV and soft X-ray wavelength range.
Directing the operation of the FLASH accelerator.
Realization of upgrade projects and operational improvements.

Career History and Employments

1999 – 2005 Scientific staff, DESY.
Photoinjector FLASH especially cathodes and laser systems.

1994 – 1999 Post-Doc at DESY.
Photoinjector TESLA Test Facility linac.
ECFA/DESY study of physics and detectors for a future linear collider, working group machine detector interface.

1992 – 1994 Fellow at the European Laboratory for Particle Physics CERN, in the accelerator division
CLIC Test Facility: generation of 30 GHz rf power with a train of electron bunches.
Drive laser system and the generation of pulse trains.
CLIC is a project to develop a next generation linear collider for high energy electron and positron collisions.

1988 – 1992 Research Assistant at the University of Bonn, Physics Department in the OPAL group. OPAL was one of the four particle physics detectors at the electron-positron collider LEP at CERN.
Laser calibration system for the OPAL jet chamber.

1987 Research Assistant at the National Research Council, Canada, Division of Physics, High Energy Physics Section, Ottawa, Ont.
Drift velocity monitoring system for the OPAL vertex chamber using quartz-fiber guided UV-laser beams.

Education

- 1992 PhD (Dr. rer. nat.),
“Investigation of Multi-Hadronic Decays of the Z^0 with High Energetic Photons from Bremsstrahlung off Quarks”,
- 1987 University degree in physics (Diplom-Physiker),
“Calibration of Drift Chambers with UV-laser Beams: Investigation on Quartz Fibres as an Alternative to Beam Transport by Mirrors”,

Awards

- 2017 Innovation Award on Synchrotron Radiation bestowed by the Society of Friends of Helmholtz-Zentrum Berlin

Memberships, Committees

- 2017 Scientific Advisory Board ICFA mini-Workshop “Nonlinear dynamics and collective effects in particle beam physics”, Arcidosso, 2017
- 2015 Scientific Program Committee SPIE Advances in X-ray Free-Electron Lasers Instrumentation, Prague, April 2015
- 2014-2019 Scientific Program Committee Free Electron Laser Conferences 2014, 2015, 2017, Chair 2019
- 2011 Chair and Scientific Program Committee EUROFEL Workshop on Photocathodes for RF guns, Lecce, 2011
- 2006 Scientific Advisory Committee, 1st Workshop on High Quantum Efficiency Photocathodes for RF guns, Milano, 2006
- 2005 – 2009 International Program Committee Advanced ICFA Beam Dynamics Workshop on Energy Recovery Linacs, 2005, 2007, and 2009
- 2002 International Program Committee ICFA Workshop on “The physics and applications of high brightness electron beams”, Chia Laguna, 2002
- since 1985 Member German Physics Society (DPG)
- 2018-2019 EuPRAXIA@SPARC_LAB CDR Review Committee
- 2017 ThomX Machine Advisory Committee
- 2010 – 2011 Joint ICFA/ICUIL Task Force High power laser technology for accelerators
- since 2011 BerlinPro Machine Advisory Committee
- 2008 – 2013 ICFA Committee for Advanced and Novel Accelerators
- since 2006 Elected Member DESY Scientific Committee
- 2006-2019 TESLA Technology Collaboration Technical Board (ex officio)
- 2006 LCLS Injector Commissioning Readiness Review Committee
- since 2005 FLASH “Beam Time Allocation Committee”, Chair since 2010
- ORCID iD 0000-0001-7705-649X