

Prof. Dr. rer. nat. Dr. h.c. Eckehard Schöll, PhD (*06.02.1951)

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Scientific vita

2020– Guest Scientist at Potsdam Institute for Climate Impact Research (PIK)
1989– Full Professor (C4) of Theoretical Physics, TU Berlin
2001–2011 Executive Director of the Institute for Theoretical Physics, TU Berlin
1986–1987 Visiting professor, RWTH Aachen
1986 Habilitation in theoretical physics, RWTH Aachen (mentor F. Schlögl)
1985 Visiting scientist, University of Florida, USA
1983–1984 Visiting Assistant Professor, Wayne State U, Detroit, MI, USA
1981 Dr. rer. nat. (Physics), RWTH Aachen (supervisor: F. Schlögl)
1978 PhD (Mathematics), U of Southampton, UK (supervisor: P. T. Landsberg)
1976 Diplom (Physics), U of Tübingen, Germany

Research fields

- nonlinear dynamical systems (pattern formation, chaos, noise, and control)
- nonlinear dynamics and control of complex networks with and without time delay
- nonlinear dynamics and synchronization patterns of neural systems
- dynamics and stability of power grids
- nonlinear semiconductor laser dynamics
- theory of nonlinear charge transport in semiconductor nanostructures
- > 550 publications in journals, Hirsch index $h=70$, >20000 citations (google scholar)
- author of 3 books, and editor of 5 books and 8 topical journal issues
- E. Schöll, S. Klapp and P. Hövel (Eds.): Control of Self-Organizing Nonlinear Systems (Springer 2016)

Awards and scholarships

2018 Deutsche Physikalische Gesellschaft, Badge of Honor
2017 Honorary Doctorate of Saratov State University, Russia
2004 Fellow (Board) of the Berliner Wissenschaftliche Gesellschaft
2004 Visiting Professorship of the London Mathematical Society
2000 Fulbright Senior Scholar Award (Duke University, USA)
1997 Champion in Teaching of TU Berlin

Further activities (selection)

- President of the International Physics and Control Society (IPACS)
- Member of the Bernstein Center for Computational Neuroscience (BCCN) Berlin
- Member of International Advisory Board of Dynamics Days Europe (Chair 2016-18)
- Chief Editor of *Frontiers in Network Physiology: Networks of Dynamical Systems*
- Organizer of International Conferences on Control of Complex Systems and Networks Usedom 2016, Warnemünde 2014; Toronto 2015, Palma de Mallorca 2012
- Local Chairman of the 79th, 76th, and 72nd Annual Meeting and Spring Meeting of the Condensed Matter Division of DPG, Berlin 2015 (6000 participants), 2012 (6200 participants) and 2008 (5700 participants) and of the Joint meeting of the DPG and EPS Condensed Matter Divisions, Berlin 2018 (6400 participants)
- Chairman of XXV European Dynamics Days Berlin 2005
- Chairman of SFB 910 on Control of Self-Organizing Nonlinear Systems 2011–2018
- Vice Speaker of the CRC on Complex Nonlinear Processes (SFB 555) 1998–2010
- Vice Speaker of the CRC on Semiconductor Nanostructures (SFB 296) 1994–2002