

**Heiner Linke, Lund University****EDUCATION**

- 1997      PhD, Solid State Physics, Lund University, Sweden  
 1992      Dipl. Phys. (MSc)  
             Physics Department, Technical University Munich, Germany

**CURRENT POSITION**

- 2021 – 2023    Deputy Dean (prorektor), Faculty of Engineering LTH, Lund University  
 2009 -            Professor of Nanophysics, Physics Department, Lund University

**PREVIOUS POSITIONS**

- 2005 – 2009    Associate Professor (with Indefinite Tenure)  
                     Physics Department, University of Oregon, USA  
 2001 - 2005    Assistant Professor (Biophysics and Nanophysics, tenure track)  
                     Physics Department, University of Oregon, USA.  
 1998 - 2001    Australian Research Council Postdoctoral Fellow  
                     School of Physics, University of New South Wales, Sydney, Australia.

**FELLOWSHIPS AND AWARDS**

- 2004            Richard A. Bray Faculty Scholar in Arts and Sciences (University of Oregon).  
 2003            Faculty Early Career Development Award (CAREER), National Science Foundation, USA (674 kUSD for four years of research).  
 2000            6-year Swedish Research Council Fellowship (*Rådsforskartjänst*) (declined)  
 1998 - 2001    3-year postdoctoral fellowship awarded by the Australian Research Council.

**SUPERVISION****Graduate students as primary advisor: 14 graduated, 4 in progress**

Tammy Humphrey, Ph.D. 2003, then Marie-Curie Fellow with M. Büttiker, Geneva; • Erin Craig, Ph.D. 2008, now Assoc. prof. Central Washington U; • Brian Long, Ph.D. 2008, then postdoc OHSU, Portland, Oregon. • Eric Hoffmann, Ph.D. 2009, then Humboldt fellow, LMU Munich. • Ben Lopez, Ph.D. 2010, then postdoc UC Santa Barbara. • Nathan Kuwada, Ph.D. in 2010, now Asst. Prof. Central Washington U. • Natthapon Nakpathomkun, Ph.D. in 2010, then lecturer at Thammasat University, Thailand; • Jason Matthews, Ph.D. 2011, then postdoc University of Oregon; • Mercy Lard, Ph.D. 2014, then postdoc Lund Univ; • Sofia Fahlvik Svensson, Ph.D. 2014, then Azpect Photonics; • Cassandra Niman, Ph.D. 2014, then postdoc UC San Diego; • Artis Svilans, PhD 2018, then FactSet; • Damiano Verardo, PhD in 2018, then Aligned Bio AB; • Frida Lindberg, PhD 2019, then postdoc Heidelberg University.  
 Current: Jonatan Fast, Ivan Unkssov, Pradheebha Surendiran, Rubina Davtyan.

**Postdoctoral researchers: total of 14 since 2009**

Dr. Jingyuan Zhu (since 2018); Dr. Roman Lyttleton (since 2018); Dr. Jae Shin (2020; then Diagonal Pharma AB); Dr. Steven Limpert (2016-2018, then First Solar); Dr. Anders Kyrsting (2016-2018, then Kaleida Technology); Dr. Adam Burke (2014-2016, then Asst. prof. Lund Univ); Dr. Liselotte Jauffred (2014-2015, then Asst. prof. U Copenhagen); Dr. Phillip Wu (2010-2012, then postdoc Stanford U); Dr. Martina Balaz (2009-2012); Dr. Jason Matthews (2012, now Lincoln Electrics); Dr. Johanna Generosi (2010, then U Copenhagen), Dr. Ann Persson (3/2006 – 5/2009, now Bombardier), Dr. Greg Gemmen (8/2008 – 11/2009; then Scripps San Diego), Dr. Gerhard Blab (8/2008 – 8/2009, now Asst. Prof., Utrecht), Dr. Erin Craig (9/2008- 3/2009, now Assoc. Prof. Centr. Wash. Univ.).

**TEACHING ACTIVITIES (selection)**

- 2019, 2020      Project Nanoengineer (3<sup>rd</sup> year nanoscience students), Lund University  
 2012 - 2018      Concepts of Quantum Physics (1<sup>st</sup> year physics students), Lund University  
 2010, 2011      Quantum Phenomena in Nanoscience (3<sup>rd</sup> year nanoscience), Lund University  
 2008, 2009      Biophysics (3<sup>rd</sup> year physics and chemistry students), Univ. of Oregon, USA  
 2001 – 2008      Physics 1, 2 and 3 (1<sup>st</sup> year physics students), Univ. of Oregon, USA

## ORGANISATION OF SCIENTIFIC MEETINGS (selection)

- 2021 Scientific co-chair (one of four), 70<sup>th</sup> Lindau Nobel Laureate Meeting (60 Nobel laureates and 600 students from 80+ countries), June 28 - July 3, online
- 2019 Program Chair, IVC-21, Malmö, Sweden. 800 abstracts and participants
- 2016 Co-chair, Biophysical Society (BPS) Thematic Workshop: *Engineering Approaches to Biomolecular Motors: From in vitro to in vivo*. Vancouver, Canada
- 2012 Chair, *Nobel Symposium on Nanoscale Energy Converters*, Örenäs, Sweden.
- 2010 - 2012 Co-Chair, Symposia at MRS Meetings, Spring 2008, Fall 2011, Spring 2012.
- 2005 Chair, *Nobel Symposium on Controlled Nanoscale Motion in Biological and Artificial Systems*, Bäckaskog, Sweden.

## INSTITUTIONAL RESPONSIBILITIES (selection)

- 2021 - Pro-dean, Faculty of Engineering LTH (10 000 students, 1600 employees)
- 2021 - Chair of the Board, NanoLund
- 2013 - 2020 Director of NanoLund (Centre engaging 350 scientists and staff in three faculties)
- 2009 – 2012 Deputy Director, Nanometer Structure Consortium (now NanoLund), Lund University
- 2009 – 2012 Head of Division of Solid State Physics ( $\approx$  80 employees), Lund University, Sweden
- 2006 - 2009 Associate Director, Materials Science Institute, University of Oregon, USA
- 2006 – 2007 Chair, Curriculum Committee, College of Arts and Sciences

## COMMISSIONS OF TRUST (selection)

- 2021 – 2024 Member, Committee of Experts and Excellence Commission, Germany's Excellence Strategy
- 2019 Selection Panel, Young Investigator Grants, Helmholtz Association of German Research Centers, Berlin, Germany
- 2018 Chair, Evaluation Panel for *Chemical engineering and physics*, Aalto University Research, Art and Impact Assessment, RAI 2018, Finland.
- 2018 Program Reviewer for *Energy efficiency, materials and resources (EMR)* (comprising five Helmholtz Institutes), Helmholtz Association, Berlin, Germany
- since 2016 Committee for the Nobel Prize in Chemistry (7 members)
- 2008 Nanotechnology and Nanobiotechnology Review Panel, National Institutes of Health, USA
- 2006 Biological Physics Review Panel, U.S. National Science Foundation (NSF), USA

## MEMBERSHIPS OF SCIENTIFIC SOCIETIES

- 2014 – Elected Member of the Royal Swedish Academy of Sciences
- 2000 – German Physical Society, American Physical Society, Biophysical Society

## MAJOR GRANTS AND COLLABORATIONS

- Coordinator, ERC Synergy Grant ArtMotor, European Research Council (2021 – 2027, 10 M€)
- Main PI, Swedish Research Council Research Environment *Single molecule bioanalytical sensing for precision cancer diagnostics* (2020- 2025, 1.7 M€)
- Coordinator, Knut and Alice Wallenberg Project *Nanothermodynamics for optoelectronic semiconductor devices* (2017 -2021, 4.7 M€)
- Coordinator of four EU projects: Marie Curie ITN project PhD4Energy (2014-2018, 3.2 M€), FET project ABACUS (2014-2016, 1.7 M€); FET Proactive project Bio4Comp (2017 – 2022, 6.1 M€); Marie Curie Cofund project for doctoral students, GenerationNano (2020 – 2024, 1.5 M\$)
- Lead investigator of a Human Frontiers Science Program (HFSP) collaboration on synthetic molecular motors. Partners: Univ. of Oregon, SFU Vancouver (Canada), Univ. Bristol (UK) and UNSW Sydney (Australia) (1.3 M USD for 2008 – 2010).
- Lead investigator of an international NICOP collaboration funded by the U.S. Office of Naval Research (ONR) and ONR-Global. (600k USD for 2005 – 2008).

## PUBLICATIONS

189 peer-reviewed publications, h = 36, 5171 citations (*Web of Science*, 3 May 2021)  
> 100 invited talks at conferences and workshops; > 70 invited seminars and colloquia