

# CURRICULUM VITAE OF AUDRIUS ALKAUSKAS



## Personal information

- Date of Birth: 8<sup>th</sup> February 1978
- Nationality: Lithuanian (EU)

## Scientific experience

- From 2016: **Principal Research Fellow** and **Group leader** at Centre for Physical Sciences and Technology, Vilnius, Lithuania.
- From 2014: **Professor** at Kaunas University of Technology, Kaunas, Lithuania (part-time).
- 2014-2016: **Senior Research Fellow** at Centre for Physical Sciences and Technology, Vilnius, Lithuania.
- 2011-2014: **Associate Specialist** at the University of California, Santa Barbara (USA).
- 2006-2010: **Postdoctoral Researcher** in Ecole Polytechnique Fédérale de Lausanne (Switzerland)

## Education

- 2002-2006: **PhD** in Physics, University of Basel (Switzerland)  
PhD thesis: *Site-selective adsorption and energy-level alignment of large organic molecules on noble metal surfaces*
- 2000-2002: **Master of Science** in Physics, Vilnius University (Lithuania) and University of Copenhagen (Denmark)
- 1996-2000: **Bachelor of Science** in Physics, Vilnius University (Lithuania)

## Scientific interests

- Radiative and non-radiative processes in semiconductors: first principles theory
- Defects for quantum information processing and nanoscale metrology

## Scientific information and activities

- 38 research papers
  - Physical Review Letters** – 3
  - Physical Review X** – 1
  - Physical Review B** – 13
  - Applied Physics Letters** – 2
  - Nano Letters** – 1
  - New Journal of Physics** - 1
  - Journal of Physical Chemistry** – 2
  - Journal of Applied Physics** – 2
  - Ultramicroscopy** - 1
  - Physica B** – 3
  - Physica Status Solidi** – 3
  - European Physical Journal** – 1
  - Lithuanian Physical Journal** - 1
  - other journals – 4

- **Invited colloquia**

28/10/2016: University of California, Santa Barbara, USA  
17/02/2016: University College London, UK  
23/10/2014: University of Groningen, Netherlands  
15/11/2012: Texas Tech University, Lubbock, USA  
12/10/2012: Virginia Commonwealth University, Richmond, USA

- **Invited talks in research centres:**

08/07/2016: Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland  
29/06/2016: Max Planck Institute Stuttgart, Germany  
16/12/2014: J. Goethe University, Frankfurt, Germany  
03/10/2014: University of Latvia, Riga, Latvia  
28/03/2014: National Renewable Energy Laboratory, Golden, Colorado, USA  
25/02/2014: University of California Davis, USA  
12/01/2012: Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland  
03/12/2010: Max Plank Institute Stuttgart, Germany  
10/28/2009: University of California Santa Barbara, USA  
04/12/2008: University of Leoben, Austria  
28/05/2008: University of Basel, Switzerland  
26/11/2007: University of Groningen, Netherlands  
23/09/2005: IRRMA, Lausanne, Switzerland

- **Invited and keynote talks at international conferences:**

- 08/10/2016: International Workshop on Nitride Semiconductors, Orlando, USA
- 09/20/2015: Psi-k meeting, San Sebastian, Spain
- 28/07/2015: International Conference on Defects in Semiconductors, Helsinki, Finland
- 08/06/2015: International Conference on Inorganic Scintillators (SCINT), Berkeley, USA
- 04/27/2015: International workshop "*Nothing is perfect – the quantum mechanics of defects*", Ascona, Switzerland
- 03/03/2015: March Meeting of the American Physical Society, San Antonio, USA
- 01/09/2014: CCMX summer school on computational materials science, EPFL Lausanne, Switzerland
- 21/07/2013: International Conference on Defects in Semiconductors, Bologna, Italy
- 20/05/2013: European Theoretical Spectroscopy Facility Young Researchers' Meeting 2013, Budapest, Hungary – keynote talk
- 05/11/2010: Meeting on Optical Response in Extended Systems, Vienna, Austria

- **Contributed talks in international and national conferences**

- March meeting of the American Physical Society (2016, 2014, 2013, 2012)
- Fall meeting of the APS California-Nevada Section (2012)
- International conference "From Basic Concepts to Real Materials" at the Kavli Institute of Theoretical Physics (KITP), Santa Barbara (2010)
- International Conference on Defects in Semiconductors (2007)
- Annual meeting of the Swiss Physical Society (2007)
- European Conference on Surface Science (2005).

- **Organized conferences and workshops:**
  - *Lithuanian National Physics Conference 2015, Vilnius, Lithuania (organizing committee)*
  - *Lithuanian Physics Conference for young Researchers LTΦ 2015, 2015, Vilnius, Lithuania (initiator and co-chair)*
  - *Gordon Research Seminar “Defects in Semiconductors”, 2014, Bentley University, Massachusetts, USA (chair)*
  - *CECAM workshop “Which theory for the study of defects?”, 2009, Lausanne, Switzerland (co-chair)*
  - *International Conference on Defects in Semiconductors (ICDS) – member of the International Advisory Board (from 2015)*
- **Referee** for: Physical Review Letters, Physical Review B, Physical Review X, Journal of Chemical Physics, Journal of Physics: Condensed Matter, New Journal of Physics, Journal of Physical Chemistry
- **COST** targeted network SciGeneration: WG1 member and Lithuanian representative (2014-2016)

### Teaching experience

- Courses taught. Solid State Physics (Kaunas University of Technology)
- Assistant for the courses. Statistical Physics, Quantum Mechanics, Electrodynamics (University of Basel); Computational Physics, Physics I (EPFL).
- Supervision of graduate and undergraduate students. EPFL, UCSB, FTMC.

### Fellowships, Grants, and Awards

- Marie Skłodowska-Curie Individual Fellowship (project Nitride-SRH, “Energy losses in light-emitting diodes”) 2015-2017.
- M-ERA.NET grant (project MvND, “Metrology at the Nanoscale with Diamonds”) 2015-2018.
- Fellowship of the Swiss National Science Foundation for Advanced Researchers (project “Optical properties of defects in energy materials”) 2011-2013.

### Social activities and other information

- Member of the Board of the Lithuanian Community in Switzerland 2007-2010
- Languages: **Lithuanian** (mother tongue), **English** (fluent), **Russian** (fluent), **French** (very good), **German** (good)

### References

1. Prof. Alfredo Pasquarello, Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland  
email: [alfredo.pasquarello@epfl.ch](mailto:alfredo.pasquarello@epfl.ch)
2. Prof. Cécile Hébert, Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland  
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3. Prof. Claudia Draxl, Humboldt University Berlin, Germany  
email: [claudia.draxl@physik.hu-berlin.de](mailto:claudia.draxl@physik.hu-berlin.de)
4. Prof. Chris G. Van de Walle, University of California at Santa Barbara, USA  
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5. Prof. Michael A. Reshchikov, Virginia Commonwealth University, Richmond, USA  
email: [mreshchi@vcu.edu](mailto:mreshchi@vcu.edu)
6. Prof. Gintaras Valušis, Centre for Physical Science and Technology, Lithuania  
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