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| CURRICULUM VITAE |



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| **Personal data** | *Name:*Erik Reimhult  *Date of Birth:* 4 October 1974  *Place of Birth:* Uppsala, Sweden  *Nationality*: Swedish  *Marital status:* Married to Camilla Porsman Reimhult; 3 sons Vin, Jet and Zac |

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| **Current position:** | Univ. Prof. Department of Nanobiotechnology, University of Natural Resources and Life Sciences Vienna, Austria  Head of Institute for Biologically inspired materials since 2011  Vice-chairman of the Senate | 2010- |
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| **Contact Information:** | Institute for Biologically inspired materials  Department of Nanobiotechnology  University of Natural Resources and Life Sciences Vienna  Muthgasse 11-II, A-1190 Vienna, Austria  Tel: +43 (0)1 / 47654-80211  E-mail: [erik.reimhult@boku.ac.at](mailto:erik.reimhult@boku.ac.at)  Web: <http://www.nano.boku.ac.at/bimat>; [https://forschung.boku.ac.at/fis/staff?name=ErikReimhult](https://forschung.boku.ac.at/fis/staff?=ErikReimhult) |  |
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| **Qualifications:** | Doctor of Philosophy (Physics) – Chalmers University of Technology, Gothenburg, Sweden – studying the self-assembly of supported lipid membranes. | 1999-2004 |
|  | International Master in Science and Technology (M. Sc.) and Diploma in Physics and Engineering Physics – Chalmers University of Technology, Gothenburg, Sweden | 1993-1999 |
|  | Bachelor in Business Administration – Göteborg University, Gothenburg, Sweden | 1993-1997 |
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| **Professional experience:** | Senior scientist (Oberassistent) Eidgenössische Technische Hochschule (ETH) Zürich, Switzerland | 2008-2010 |
|  | Postdoctoral fellow Eidgenössische Technische Hochschule (ETH) Zürich, Switzerland | 2006-2008 |
|  | Research associate Institute of Materials Research and Engineering, Singapore | 2004-2006 |
|  | PhD student and lecturer, Department of Applied Physics, Chalmers University of Technology, Sweden |  |
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| **Current research fields:** | magnetic nanoparticles; (bio)functionalization of nano- and microparticles; colloid assembly; nanoparticle-based smart materials; nanoscale polymer brush morphology; nanocapsules (drug delivery vehicles); bacteria-interface interactions; early biofilm formation; cell interaction with model membranes; molecular binding and insertion into lipid membranes; nanopores; nanopatterned and membrane biosensors |  |
| **Career breaks:** | At ETH Zürich I had reduced working hours due to the birth of my second son. The total reduction in working time in the period 2007-2009 amounted to 9 months. |  |

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| **Supervision completed:** | 8 PhD theses, 4 external PhD theses, 24 master theses |
| **Supervision ongoing:** | 5 PhD theses, 1 external PhD theses |

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| **Total number of publications in SCI journals:** 78 |
| **Average citations per publication:** >40 |
| **h-index (SCI/WoS):** 27 |
| **Invited talks at international conferences per year:** ~4 (Total 43) |
| **Number of accepted referee assignments per year:** >30 |
| **Book chapters:** 7 |
| **Patents and patent applications:** 8 filings; #PCT/SE2004/000555, Swedish application SE0301038-6; #EP09011190 (also PCT); #EP10163865; #EP11068350; EP10013193; EP14180393; EP15192570; EP16199508 |

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| **5 selected conference invitations:** | “Core-Shell Nanoparticle Assembly at Oil and Amphiphile Interfaces”, 9th International Conference on Materials for Advanced Technologies, Singapore, 20.06.2017 |
|  | “(Magnetic) core-shell nanoparticles at liquid interfaces”, European Materials Research Society Meeting 2015, Warsaw, Poland, 16.09.2015 |
|  | “Design, structure and assembly of superparamagnetic core-shell nanoparticles”, 16th European Conference on Biotechnology, Edinburgh, UK, 15.07.2014 |
|  | “Core-shell superparamagnetic nanoparticle membranes", American Chemical Society Spring Meeting, New Orleans, LA, 10.04.2013 |
|  | “Biomimetic ultra-stable nanoparticles and actuated membranes”, Gordon Research Conference on Biointerfaces, Les Diablerets, Switzerland, 20.05.2012 |

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| **5 selected funded projects (in all projects responsible for planning, execution and management):** | “Nanocomposite Solutions” (2017-2018), ERC Proof of Concept (PI), EUR 150’000. |
| “Core-shell nanoparticles - structure and self-assembly at liquid-liquid interfaces” (2015-2018), FWF Stand-alone project (PI), EUR 148’260 (Project total 286’692. |
| “Interaction and actuation of lipid membranes with magnetic nanoparticles” (2013-2017), ERC Starting Grant (PI), EUR 1’489’027. |
|  | “Magnetically actuated delivery vehicles and membrane platforms for investigating ligand clustering” (2011-2014), BM.W\_F (IGS BioNanoTech) (PI), EUR 380’000. |
|  | “Functional assays for membrane protein on nanostructured supports” (2008-2011), EU FP7-NMP (Scientific coordinator and PI), EUR 439’960 (13 European partners, consortium total EUR 3’940’098). |

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| **5 most important awards:** | Member Austrian Academy of Sciences Junge Kurie | 2013 |
|  | Finalist Ertl award (Deutsche Physikalische Gesellschaft) | 2009 |
|  | Best contributed presentation at ESF Research Conference on Biological Surfaces and Interfaces, Sant Feliu de Guixols, Spain | 2005 |
|  | Best conference contribution at IMRE international post graduate workshop, Singapore | 2004 |
|  | Second prize for Best poster of the Applied Surface Science Division at AVS 48th International Symposium, San Francisco, CA, USA | 2001 |

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| **Most important peer review activities:** | American Vacuum Society BioInterface division Executive board member (2009-2013) |
|  | Editorial board: Materials (<http://www.mdpi.com/journal/materials>), (2009-); Nanocontainers (2012-2015), ACS Biomaterials Science & Engineering (2014-2017) |
|  | Organizing committee E-MRS Spring meeting: Nanobiophotonics session, Strasbourg, France (2012) |
|  | Have acted as grant evaluator for 12 national science foundations, including the Swiss National Science Foundation (SNF), French National Research Agency (ANR), the Hungarian Academy of Sciences and the Polish Research Foundation, US DoE, Croatian Science Foundation, Czech Research Foundation, FCT Portugal, CONICYT, Marsden Fund, VW Stiftung |
|  | Have acted as peer reviewer for >50 SCI journals, including ACS AMI, Nano Letters, Journal of the American Chemical Society, ACS Nano, Angewandte Chemie, Nanoscale, ACS BSE, Advanced Functional Materials and Soft Matter |

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| **Key cooperation partners last 5 years:** | Prof. Alexander Zelikin, Aarhus University (responsive hydrogels, hybrid materials and biomedial applications) |
|  | Prof. Helga Lichtenegger, University of Natural Resources and Life Sciences, Vienna (X-ray scattering on nanomaterials) |
|  | Dr. Ivan Coluzza, University of Vienna (colloid self-organization) |
|  | Dr. Lucio Isa, ETH Zürich (nanoparticle assembly and characterization) |
|  | Dr. Edmondo Benetti ETH Zürich (core-shell nanoparticle synthesis) |

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| **Conference organization:** | TETHMEM 2017, Vienna, Austria | 2017 |
|  | Symposium organizer European Biophysics Congress: Material Science in Biophysics, Dresden, Germany | 2015 |
|  | Scientific committee Bio-based Polymers and Composites, Visegrád, Hungary | 2014 |
|  | Organizing committee AVS International symposium: Biointerface division, Tampa, USA | 2012 |
|  | Organizing committee E-MRS Spring meeting: Nanobiophotonics session, Strasbourg, France | 2012 |
|  | Organizing committee AVS International symposium: Biointerface division, Nashville, USA | 2011 |
|  | Scientific committee AVS International symposium: Biointerface division, Albuquerque, USA | 2011 |
|  | Scientific committee NanoBio 2010, Zürich, Switzerland | 2010 |
|  | Co-organizer Intl. Conference Functionalized plasmonic nanostructures for biosensing, Ascona, Switzerland | 2010 |
|  | Organizing and scientific committee GRC Biointerface science, Aussois, France | 2008 |
|  | Co-organizer ESF-EMBO Symposium: Biological surfaces and interfaces, Sant-Feliu de Guixols, Spain | 2007 |
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| **Commercial:** | Co-founder (2004) and co-owner of Layerlab AB, Sweden |  |
|  | Agreement on commercialization of nanomaterials inventions with Tecnet GmbH |  |