

Curriculum Vitæ

PERSONAL INFORMATION

Name: Kerstin Witte
Born: 21/10/1985 in Finsterwalde, Germany
E – mail: kerstin.witte@uni-rostock.de

EDUCATION

Rostock University, Rostock, Germany
Studying physics

10/2005 – 9/2010

Rostock University, Rostock, Germany
Diploma thesis title: "Magnetic nanoparticles as negative contrast agents – simulation of particle behavior".

3/2010 – 9/2010

LANGUAGES

Native language: German

Other languages: English French

COMPUTER SKILLS

Operating systems:	MS Windows, Linux
Word processing:	Latex, MS Office, Open Office
Programming languages:	C/C++, Pascal/Turbo Pascal, Labview
Bitmap and vector graphics:	CorelDraw, Adobe Photoshop, Gimp, Gwyddion
Visualizations programs:	MicroAVS
Mathematical software:	Scilab, Matlab, Maple, OriginPro
FE Tools:	GID, Gmsh
Simulation/modeling software:	magpar - Parallel Finite Element Micromagnetics Package

OTHER SKILLS

Transmission Electron Microscopy investigation
Atomic Force Microscopy imaging
Magnetic Force Microscopy imaging
Optical microscopy imaging
Cell cultures
Susceptometer investigation
Magneto – optical – Kerr – Effect – Spectrometer
Magnetic Resonance Imaging investigation
grazing x-ray reflectometry

x-ray diffractometer investigation

physical vapor deposition

INTERNSHIP

micromod Partikeltechnologie GmbH, Rostock, Germany
Calibration of a susceptometer and data analysis

2/2009 – 3/2010

APPOINTMENTS

Department of Physics of New Materials, Rostock, Germany
Work in the research group of Eberhard Burkel

3/2007 – 9/2010

OTHER ACTIVITIES

Beam-time at the DESY/HASYLAB (31 October - 2 November 2008) Hamburg, Germany

Beam-time at the DESY/HASYLAB (4 - 7 July 2010) Hamburg, Germany

Lectured weekly physical laboratory for students of the medical department (10/2008-1/2009)

POSTER PRESENTATIONS

K. Porath, K. Witte and E. Burkel

„Simulation of magnetic particle behavior for hyperthermia treatment“

NenA – Nano – Entrepreneurship – Academies 16th – 21st March 2008, Halle/Saale, Germany

M. Lantow, K. Porath, K. Witte, J. Mayer, I. Weber, D. Weiss, E. Burkel

„Cellular effects of TiO₂ and of ferromagnetic nanoparticles on human Mono Mac 6 monocytes and mouse J774A.1 macrophages“

20th Annual Conference of the German Society for Cytometry, Leibzig, October 13 – 15 2010, submitted

ORAL PRESENTATIONS

K. Porath, K. Witte and E. Burkel

„Micromagnetic Simulations of Thin Films and Nanoparticles“

Materials' Days Rostock 2007 Functional Materials and Nanotechnology May 3rd - 4th 2007

K. Porath, K. Witte and E. Burkel

„Magnetic Nanostructures“

Advanced Processing of Novel Functional Materials - APNFM2008 Dresden, Germany, January 23rd -25th 2008