

Dr. ir. Brian Richard Pauw

International Center for Young Scientists (ICYS) National Institute for Materials Science (NIMS) 1-2-1 Sengen, Tsukuba, Ibaraki, 305-0047, Japan

http://www.lookingatnothing.com/ Born on the 5 th of January, 1982 in The Netherlands.

EDUCATION

2006 - 2009: *Ph.D./dr.* Technical University of Denmark, Chemical Engineering. Thesis topic: *The nanostructure of high-performance fibres*. Graduated November 23, 2009.

2000 - 2006: *M.Sc./ir.* Eindhoven University of Technology, Chemical Engineering. Graduated *Cum Laude*. Thesis topic: *Going deeper into metal hydrides — an ab initio study*.

AWARDS

2010: The **Award for Encouragement of Research of Materials Science**, awarded at the 20th Academic Symposium of MRS-Japan.

2009: The **Prize for Excellence** in the category “Application of Small-Angle Scattering” was awarded at the XIV International Conference on Small-Angle Scattering.

DISSEMINATION AND TEACHING

Publications are listed in a separate document. Only high-profile presentations are listed.

2009: *Presentation* B. R. Pauw, M. E. Vigild, K. Mortensen, J. W. Andreasen, E. A. Klop, D. W. Breiby, O. Bunk, *Strain-Induced Nanofibrillation of Polymer Filaments*, presented at the XIV International Conference on Small-Angle Scattering.

2009: *Presentation* B. R. Pauw, M. E. Vigild, K. Mortensen, J. W. Andreasen, E. A. Klop, *Nano pores in micro filaments: structures of high-performance polymers*, presented at the “Synchrotron Radiation in Polymer Science 4” conference.

WORK ACTIVITIES

2011 - *current*: Independent researcher at the National Institute for Materials Science. Developing advanced methodologies for anisotropic and isotropic small-angle scattering.

2009 - 2011: Post-doc position at Aarhus University. Materials crystallography studies, liaising between Aarhus University (Denmark) and RIKEN/SPRING-8 scientists.

2006 - 2009: *Ph.D.* studies at the Technical University of Denmark, methodology development, ex- and in-situ measurements on high-performance fibres.

2004 - 2005: Completed a four-month internship at Teijin Twaron, developing methodology for - and investigating - microfibrillar properties of high-performance yarns. Completed with a grade of 9/10.

2002 - 2006: Student assistant in the research group of Prof. Schubert (Faculty of Chemical Engineering, Eindhoven University of Technology), focussing on analytical method development. Completed research internship in this group (with a grade of 9/10)

SKILLS

Languages: Fluent in Dutch and English, average fluency in German, French, Afrikaans and Danish, currently studying Japanese.

Extraordinary Computer Programs: Photoshop, Illustrator, POV-ray, Python, Matlab, LaTeX, Vienna Ab-initio Simulation Package (VASP).

Hobbies: Photography, mountaineering and climbing, sailing and windsurfing.

REFERENCES

Ph.D. project supervisors: Martin E. Vigild, mev@kt.dtu.dk, +4545252967; Kell Mortensen, kell@life.ku.dk, +4535332311; Jens W. Andreasen, jens.wenzel.andreasen@risoe.dk, +4546774702; Enno A. Klop, enno.klop@tejinaramid.com, +31263665490.
