Dr. ir. Brian Richard Pauw

Advanced Key Technologies Division National Institute for Materials Science
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brian@stack.nl, http://lookingatnothing.com/ , Nationality: Dutch
Born on the 5th of January, 1982 in Zuidelijke Ijselmeerpolders, The Netherlands.

EDUCATION:

2006 - 2009: Ph.D./Dr. Technical University of Denmark, Chemical Engineering. Thesis topic: *The nanostructure of high-performance fibres*. Graduated Nov. 23, 2009, awarded Feb. 10, 2010.

2000 - 2006: M.Sc./ir. Eindhoven University of Technology, Chemical Engineering. Graduated *Cum Laude* August 30, 2006. Thesis topic: *Going deeper into metal hydrides — an ab initio study*.

AWARDS:

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

2009: **Prize for Excellence** in "Application of Small-Angle Scattering", awarded at the XIV International Conference on Small-Angle Scattering.

DISSEMINATION AND TEACHING: *Publications provided separately. Only selected presentations are listed.*

2014: Invited seminar series B. R. Pauw, *"All you ever wanted to know about SAXS: What, why, how and when."*, presented at the Universities of York, Leeds, Lille, Birmingham and Nottingham and at BAM in Berlin.

2013: Invited seminar B. R. Pauw, *"Everything SAXS: The old and the new"; and "Monte Carlo: now in 2D!"*, held at the BAM Federal Institute for Materials Research and Testing in Berlin.

2012: Presentation B. R. Pauw, E. A. Klop, M. Takata, B. B. Iversen, M. Ohnuma, K. Sakurai, *Monte Carlo: Now in 2D!*, presented at the XV International Conference on Small-Angle Scattering.

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.

SELECTED WORK ACTIVITIES:

2014 - now: Permanent researcher at the National Institute for Materials Science (Japan). Developing advanced methodologies for small-angle scattering.

2011 - 2014: Independent researcher at the National Institute for Materials Science (Japan). Developing advanced methodologies for anisotropic and isotropic small-angle scattering.

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

2006 - 2009: Doctoral studies at the Technical University of Denmark. Development of SAXS methodology for 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.

2002 - 2006: Student assistant in the research group of Prof. Schubert (Faculty of Chemical Engineering, Eindhoven University of Technology), focusing on analytical method development.

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

REFERENCES:

Kell Mortensen (pkf389@ku.dk); Jens W. Andreasen (jens.wenzel.andreasen@risoe.dk);
Enno A. Klop (enno.klop@teijinaramid.com); Jan Ilavsky (ilavsky@aps.anl.gov);
Kenjiro Miyano (miyano.kenjiro@nims.go.jp)