

Résumé - Curriculum Vitae

Professor dr. Jeff Th.M. De Hosson

1. Address

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2. Date of Birth

27 May 1950, Utrecht, the Netherlands.

3. Education

Gymnasium 1962-1968, Veluws Gymnasium-Apeldoorn, the Netherlands.

Bachelor Degree: 1971, Faculty Mathematics and Physical Sciences University of Utrecht, the Netherlands, with highest distinction (cum laude).

Master Degree: 1973, Faculty Mathematics and Physical Sciences, Physics, University of Utrecht, the Netherlands, with highest distinction (cum laude).

PhD Degree: 1976, Physics, University of Groningen, the Netherlands, with highest distinction (cum laude);
Title: Atomic configurations and electronic structures of dislocations (Thesis supervisor professor A. Wegener Sleeswijk).

Post-doc/Visiting Scholar: 1976-1978, University of California Berkeley, UCB-USA and Northwestern University, NU, Chicago-Evanston-USA (Supervisor prof. J.B. Cohen).

4. Employment History

1972-1973	Student assistant: University of Utrecht, the Netherlands.
1973-1976	Scientific co-worker, (National Science Foundation, FOM)
1976-1978	Post-doc, Visiting Scholar, UCB and NU, USA.
1977-present	Professor of Applied Physics, Appointed by the Crown, Her Majesty Queen Juliana of the Kingdom of the Netherlands, Decree KB 101, October 6 th 1977.
1985-present	Central Departmental Chair in Applied Physics, Appointed by Executive Board, University of Groningen.

5. Awards /Honors/Academies et cetera

- Unilever Research MSc Student Award Physics and Chemistry, 1973;
- Shell Research PhD Award, Physics and Chemistry, Faculty of Science, 1976;
- Elected to “The Royal Holland Society of Science and Humanities” (De Koninklijke Hollandsche Maatschappij der Wetenschappen), 1995;
- Acta Materialia Best Paper Award, 1996;
- Honorary member Student Association Applied Physics, TFV-Francken, 1996- present;
- Elected to “Royal Netherlands Academy of Arts and Sciences” (KNAW, Koninklijke Nederlandse Akademie van Wetenschappen, division physics), 2000;
- Elected Fellow American Society for Metals (FASM), 2002;
- Acta Materialia Inc Appreciation Award, 2003;
- Elected Fellow of the Wessex Institute of Great Britain, 2004;
- Trophy Award, Materials Research Society, USA, 2004;
- Eminent Scientist Medal, Wessex Institute of Great Britain/Un. of Southampton, 2005;
- European Materials Gold Medal, European Materials Societies, 2005;
- Acta Materialia Best Paper Award, 2006;

- Chairman of the division Applied Sciences of the “Royal Netherlands Academy of Arts and Sciences” (KNAW, Koninklijke Nederlandse Akademie van Wetenschappen, division physics/ afdeling natuurkunde), 2006-present;
- Honorary Guest Professorship Tsinghua University, Beijing, China, 2008-present;
- Elected Fellow International Society Nanoscience and Nanotechnology, 2008;
- Honorary Guest Professorship, Nelson Mandela Metropolitan University, Port Elisabeth, South Africa, 2008-present.
- Nanostructured Materials Award, NanoSmatPrize 2009
- TMS-Triple M (Materials Metals Minerals) Society USA Fellow Award 2010.

6. Editorships of academic journals and scientific leadership

Editorships (current):

Editor Scripta Materialia/Acta Materialia;
 Editor J. Nanoscience and Nanotechnology;
 Editorial board Encyclopedia Nano Science and Nanotechnology;
 Editorial board Current NanoScience;
 Editorial board Surface and Coating Technology;
 Editorial board Surface Engineering;
 Editorial board Interface Science;
 Editorial board Computational Materials Science;
 Editorial board Materials Science Forum;
 Editorial board Microstructure and Materials Properties;
 Editorial board High temperature materials and processes;
 Editorial board International Journal of Molecular Engineering;
 Editorial board Jap. Intern. J. Iron and Steel.

A concise selection of scientific Boards (external): current and past

Associate editor Acta Materialia, 1984-2005;
 Associate editor Scripta Materialia, 1984-2005;
 Board of Governors, Acta Materialia Inc. (USA), 1993-1996, 2004-2006;
 Board Fed. European Materials Societies (FEMS);
 Board Surface Engineering, ASM-International, 2000-present;
 Board TNO-Lorentz-foundation, 1988-2003;
 Board EuroMAT Steering Committee;

Chairman of the committee and member of the Executive Board “FOM-Materialen”, National Science Foundation of the Netherlands-Physics Division, (NWO-the Hague);

Chairman of the committee and member of the Executive Board “Priority Programme on Materials Science”, (NWO-the Hague);

Executive Board and Founding member of one (out of four) of the leading technological institutes in the Netherlands, “the Netherlands Institute for Metals Research”;

Executive Board member and Vice-Chairman International Committee on nano-structured materials (Nano 2002- present);

Executive Board member and Vice-Chairman of the Council of Physics and Astronomy of the “Royal Netherlands Academy of Arts and Sciences” (Koninklijke Nederlandse Akademie van Wetenschappen , division physics), 2001-2007;

Review committee of the Program Strategic Alliances of the Royal Netherlands Academy of Arts and Sciences and Ministry Science and Technology (MOST), Academia Sinica, China, 2002-present;

Review committee ‘quality assessment of research in materials science’, Belgium-Flanders Science Foundations (FWO) Division for Material and Technical Sciences, FWO, 2003-present;

Review committee ‘quality assessment of research in materials science’, Grantová agentura České republiky, Czech Science Foundation, Prague, 2004-present;

Review committee ‘quality assessment of research in materials science’, Damarks Grundforskningsfond, Danish Science Foundation, 2008-present;

Review committee ‘quality assessment of research in Nano Science and Nano Technology’, Austrian Science Fund (FWF) Division for Natural and Technical Sciences, Austrian Nano initiative, Vienna, 2004-2006;

Program Council member and Cluster leader of the leading technological institute: Netherlands Institute for Metals Research, 1978-2007;

Program Council IOP programme Self Healing Materials, Senter, the Hague, 2008-present;

Program Council member and Cluster leader of the leading technological institute in the Netherlands, “Materials Innovation Institute”, 2008-present.

Program Council and board member NWO-Netherlands Institute for Radio Astronomy, ASTRON, the Hague, 2009-present;

7. A concise selection of executive Boards (Internal): current and past

Dean of the School of Physics/Department of Physics, University of Groningen, 1989-1992;

Member Executive board Faculty of Mathematics and Natural Sciences, 1984-1989;

Chairman of Department of Applied Physics, University of Groningen, 1984-2000;

Chairman, thrust leader and executive board member of one (out of six) of the leading national science institutes (NWO-the Hague), "Materials Science Centre" of the University of Groningen; 1998-2002;

Chairman and member of the executive board Materials Science Centre, University of Groningen, 1978-2002;

Chairman, Promotion and Tenure Committee, Faculty Mathematics and Natural Sciences, University of Groningen, 2008-present;

Chairman and member of the executive board of Education in Physics and Applied Physics, 1980-1990;1996-2000;2009-present;

Chairman Exam Council, Physics and Applied Physics, 2008-present.

8. Scientific publications and PhD Theses supervised (1975-xx)

He published more than 780 publications in international scientific journals + conference proceedings, a/o. about 25 elaborate review papers and chapters in books on dislocation dynamics, transmission electron microscopy, and surface science/ engineering. Up to now he supervised 63 PhD theses and 286 Master Theses.

9. Reviewer

Science, Nature, Nature Materials, Acta Materialia, Scripta Materialia, Physical Review Letters, Physical Review, Science, J. Applied Physics, Applied Physics Letters, Philosophical Magazine, Phil. Mag. Letters, Surface Engineering, Surface Coatings and Technology, Material Transactions A, Journal of Vacuum Science and Technology, Journal of Materials Science, Thin Solid Films, Applied Surface Science, Surface Science, J. Materials Research, Wear, Solid State Communications, J. Phys. Chem. Solids, Interface Science, J. Phys. D, condensed matter.

10. 5 publications covering fields of interests (period 1997-2009)

Albano Cavaleiro and Jeff Th. M De Hosson, *Nanostructured Coatings*, Springer, New York, 2006, 648 pages (and Наноструктурированные покрытия : in Russian 2009) .

J.Th.M. De Hosson and A. van Veen, *Nanoprecipitates and nanocavities in functional materials*, Encycl. of Nanoscience and nanotechnology, Vol. 7, 297-349 (2004).

J.T.M. De Hosson, V. Ocelik, Y. Pei, "Surface Engineering with Lasers", Chapter in: *Surface Modifications and Processing*, Publisher Marcel Dekker USA, 603-669 (2004).

K. Michielsen, H. De Raedt, J.Th.M. De Hosson, "Aspects of Integral-Geometry", *Advances in Imaging and Electron Physics* 125, 119 - 195 (2002).

J.Th.M. De Hosson,
Transmission Electron Microscopy of metals and alloys, in: *Handbook of Microscopy*, eds. S. Amelinckx et al., Volume 3, p. 5 - 111, VCH, N.Y. (1997).