

PROF. DR. SYLVIA WENMACKERS

CURRENT AFFILIATION:

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Institute of Philosophy
Centre for Logic and Analytic Philosophy
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3000 Leuven
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PERSONAL WEBSITE:

<http://www.sylviawenmackers.be/>

FIVE KEY QUALIFICATIONS

- ◆ Ph.D. in Science (physics, 2008) & Ph.D. in Philosophy (philosophy of science, 2011).
- ◆ My research is guided by a broad range of interests (from foundations of physics to formal epistemology) and executed with appropriate methods picked from a well-lined toolbox (from delicate logic to brute-force computer simulations).
- ◆ Extended publication list in international peer-reviewed journals: 25 peer-reviewed journal articles and 5 proceeding articles, and 2 book chapters (h index 11, Erdős number 4, Einstein number 6).
- ◆ Experienced public speaker (2 awards for talks at conferences, various invited talks) and teacher ([video of tutorial session](#)).
- ◆ Passion for communication with the general public (columnist and blogger, in Dutch; won two prizes for popular essays in 2015, one in English and one in Dutch).

AREAS OF SPECIALIZATION

- Physics, in particular quantum mechanics and materials science (especially optics).
- Philosophy of science, in particular philosophy of physics and probability.
- Logic, in particular model theory (non-standard models of arithmetic and of real-closed fields).
- Computer simulations, including applications in formal epistemology.

STUDIES & DEGREES

- ◆ Ph.D. in Philosophy, *cum laude* – University of Groningen, The Netherlands
May 2, 2011

Dissertation: “Philosophy of probability: foundations, epistemology, and computation”
Promoter: Prof. dr. I.E.J. Douven
- ◆ Ph.D. in Science: Physics – Hasselt University, Belgium
May 26, 2008

Dissertation: “Morphology, functionality and molecular conformation study of CVD diamond surfaces functionalised with organic linkers and DNA”
Promoter: Prof. dr. P. Wagner
Copromoter: Prof. dr. M. Nesládek
- ◆ Master in Science: Theoretical Physics – Ghent University, Belgium
July 3, 2002
- ◆ Academic teaching degree: Physics – Ghent University, Belgium
July 10, 2002
- ◆ Bachelor in Science: Physics – Limburgs Universitair Centrum, Belgium
July, 2000

CAREER HISTORY

- ◆ Faculty of Philosophy, University of Leuven, October 2014 – now
BOF-ZAP Research Professorship (tenure-track position).
- ◆ Faculty of Philosophy, University of Groningen, January 2013 – (January 2016)
Postdoctoral researcher on a VENI-grant of the Dutch Research Organization (NWO).
Project title: “Inexactness in the exact sciences”.
- ◆ Faculty of Philosophy, University of Groningen, June 2011 – December 2012
Postdoctoral researcher on the Endowed Chair of Prof. dr. I.E.J. Douven.
- ◆ Faculty of Philosophy, University of Groningen, Dec. 2010 – May 2011
PhD-student on the Endowed Chair of Prof. dr. I.E.J. Douven (Formal Epistemology).
- ◆ Department of Solid State Physics, Ghent University, Jan. 2010 – Nov. 2010
Practical assistant (physics).
- ◆ Faculty of Philosophy, University of Leuven, Dec. 2009 – Nov. 2010
Postdoctoral researcher on the Formal Epistemology Project of Prof. dr. I.E.J. Douven.
- ◆ Institute for Materials Research, Hasselt University, Oct. 2008 – Nov. 2009
Postdoctoral researcher of Flemish Research Fund (FWO–Vlaanderen).
- ◆ Institute for Materials Research, Hasselt University, Sept. 2002 – Sept. 2008
PhD-student and teaching assistant.

SCIENTIFIC GRANTS

- ◆ Current grants:
 - Research project of the Flemish Research Fund (FWO–Vlaanderen) (with Christian Maes).
Project title: “Time, Causality, and Probability in Quantum Mechanics: Assessing Retrocausal Explanations in Light of Recent Experiments”.
 - Start-Up Grant of the KU Leuven: financing of a Ph.D. student.
Project title: “Probability, determinism and causation along closed timelike curves”.
Employee: Pieter Thyssen.
 - VENI-grant of the Dutch Research Organization (NWO).
Project title: “Inexactness in the exact sciences”. (Ends January 25, 2016.)
- ◆ Past grant:
Postdoctoral researcher on a grant of the Flemish Research Fund (FWO–Vlaanderen).
Project title: “Biomolecules on diamond”.

INTERNATIONAL EXPERIENCE



Spent most of my career in my native country, Belgium.



Dec. 2010 – Sept. 2014, worked at the Faculty of Philosophy at Groningen University, The Netherlands.



During Michaelmas Term 2011–2012 (Oct. – Dec. 2011), “Visiting Philosopher” at the Faculty of Philosophy, Oxford, United Kingdom.



In the period 2007–2009, three research stays at the synchrotron facility BESSY II in Berlin, Germany.

LANGUAGES

Dutch (fluent; native speaker), English (fluent*), French (very good), German (good), Latin (reading).

*: Assessment of English in 2012-2013 by Language Center of Groningen University: “fully equipped to teach through English” (detailed report available upon request).

COMPUTER SKILLS

Programming: Delphi (Object Pascal), Fortran (basics);
Mathematics and simulation: Mathematica, Maple, LabView;
Imaging: ImageJ, Paint Shop, Photo Shop, Paint.NET, Gimp;
Web-based teaching: Blackboard;
Office: LaTeX, MS and Open Office (Word, Excel, Powerpoint, Outlook).

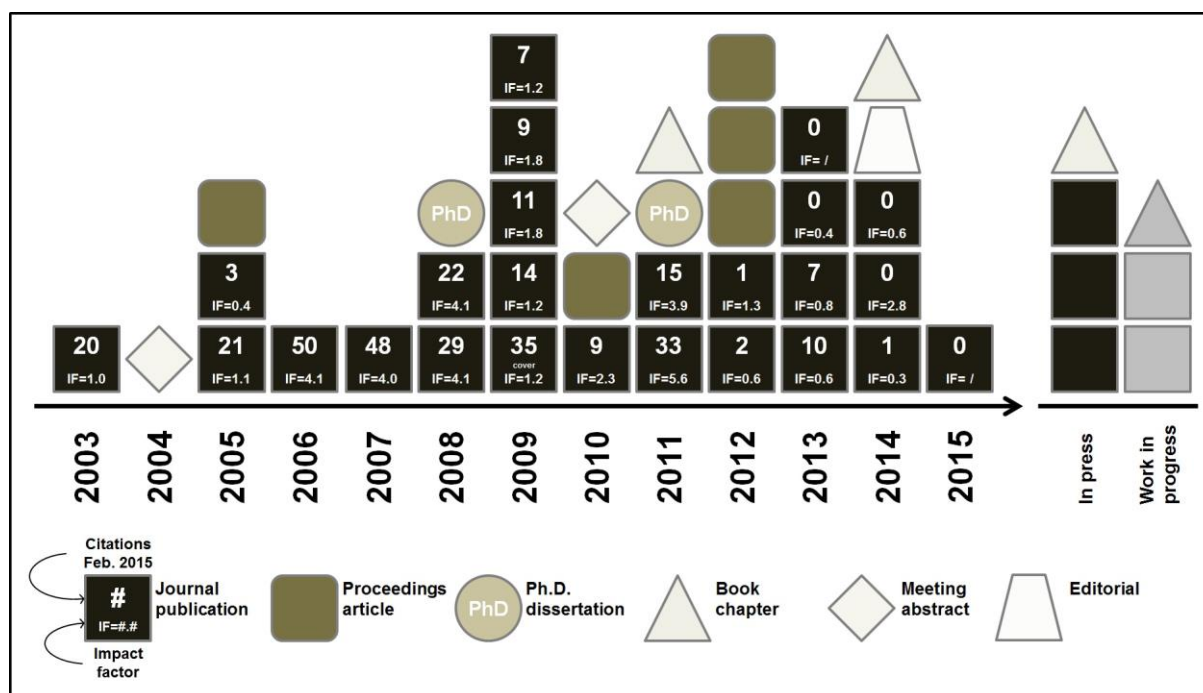
MEMBERSHIPS

- Secretary Nederlandse Vereniging voor WetenschapsFilosofie (NVWF, Netherlands).
- Member Nationaal Centrum voor Navorsingen in de Logica (NCNL/CNRL, Belgium).

APPENDICES

- pp. 5 – 10: Publications
- pp. 11 – 18: Oral presentations
- pp. 18 – 22: Poster presentations
- p. 23: Teaching experience
- pp. 24 – 29: Miscellaneous activities

APPENDIX I: ACADEMIC PUBLICATIONS BY SYLVIA WENMACKERS



Schematic overview of all publications with current citation numbers (according to the Web of Science database, consulted on January 26, 2016).

For links to e-prints, see: <http://www.sylviawenmackers.be/blog/my-academic-publications/>

Type of Publication:

- | | |
|---------------------------------------|-------------------|
| (#) Academic journal (peer-reviewed), | (E) Editorial, |
| (P) Proceedings (peer-reviewed), | (C) Book chapter, |
| (M) Meeting abstract, | (T) Ph.D. thesis |

Submitted / under review

- (O) Hindriks, F.; Douven, I.; Wenmackers, S.
“Moral Bookkeeping”
under review.
- (O) Douven, I.; Wenmackers, S.; Jraissati, Y.; Decock, L
“Measuring Graded Membership: The Case of Color”
submitted.
- (C) Wenmackers, S.
“‘Dat kan geen toeval zijn’ – Over waarschijnlijkheid: objectieve kansen en
subjectieve graden van overtuiging”
Chapter in “Lessen voor de XXI eeuw” edition 22, Universitaire Pers Leuven (planned
for 2016).

Accepted / In press

- (O) Douven, I; Wenmackers, S.
“Inference to the best explanation versus Bayes’ rule in a social setting”
British Journal for the Philosophy of Science, forthcoming (DOI:
10.1093/bjps/axv025). (2013: IF = 1.0)
- (O) Benci, V.; Horsten, L.; Wenmackers, S.
“Infinitesimal probabilities”
British Journal for the Philosophy of Science, accepted in 2015. (2013: IF = 1.0)
- (O) Wenmackers, S.; Romeijn, J.-W.
“New theory about old evidence; A framework for open-minded Bayesianism”
Synthese, forthcoming (DOI: 10.1007/s11229-014-0632-x). (2013: IF = 0.6)
- (C) Wenmackers, S.
“Infinitesimal probabilities”
Book chapter (invited) for “Open Handbook of Formal Epistemology”, J. Weisberg
and R. Pettigrew (eds.), accepted in 2015 pending final revision.
- (C) Wenmackers, S.
“Children of the Cosmos”
Chapter in: Angela Lahee and Zeeya Merali (eds.) “Trick or Truth?”, Frontier’s
Collection, Springer, final version accepted in 2015 (planned for 2016).

Published

2015

- (25) Wenmackers, S.
“Zekerheid in de waarschijnlijkheidsleer”
Algemeen Nederlands Tijdschrift voor Wijsbegeerte **107**, 167–172 (2015).

2014

- (24) Wenmackers, S.; Vanpoucke, D.E.P.; Douven, I
“Rationality: a social epistemology perspective”
Frontiers in Psychology **5**, article number 581, 14 pages (2014). (2013: IF = 2.8)
- (23) Decock, L.; Douven, I.; Kelp, C.; Wenmackers, S.
“Knowledge and approximate knowledge”
Erkenntnis **79**, 1129–1150 (2014).
- (22) Krzyżanowska, K.; Wenmackers, S.; Douven, I.
“Rethinking Gibbard’s riverboat argument”
Studia Logica **102**, 771–792 (2014). (2013: IF = 0.3)
- (E) Editorial
Peijnenburg, J.; Wenmackers, S.
“Infinite regress in decision theory, philosophy of science, and formal epistemology”
Synthese **191**, 627–628 (2014). (2013: IF = 0.6)

- (C) Pop, S.D.; Hinrichs, K.; Esser, N.; Wenmackers, S.; Cobet, C.; Zahn, D.R.T.
“DNA structures on silicon and diamond”
Book chapter in: “Ellipsometry of Functional Organic Surfaces and Films”, K.
Hinrichs and K.-J. Eichhorn (eds.), Vol. 52 of Springer Series in Surface Sciences;
Springer, Berlin; ISBN 978-3-642-40127-5, pp. 47–59.

2013

- (21) Krzyżanowska, K.; Wenmackers, S.; Douven, I.
“Inferential conditionals and evidentiality”
Journal of Logic, Language and Information **22**, 315–334 (2013).
- (20) Wenmackers, S.
“Ultralarge lotteries: analyzing the Lottery Paradox using non-standard analysis”
Journal of Applied Logic **11**, 452–467 (2013). (IF = 0.4)
- (19) Benci, V.; Horsten, L.; Wenmackers, S.
“Non-Archimedean Probability (NAP)”
Milan Journal of Mathematics **81**, 121–151 (2013). (IF = 0.8)
- (18) Wenmackers, S.; Horsten, L.
“Fair infinite lotteries”
Synthese **190**, 37–61 (2013). (IF = 0.6)

2012

- (17) Wenmackers, S.; Vanpoucke, D.E.P.
“Models and simulations in material science: two cases without error bars”
Statistica Neerlandica **66**, 339–355 (2012). (IF = 0.6)
- (16) Wenmackers, S.; Vanpoucke, D.E.P.; Douven, I.
“Probability of inconsistencies in theory revision. A multi-agent model for updating
logically interconnected beliefs under bounded confidence”
European Physical Journal B **85**, 44 (15 pages) (2012). (IF = 1.3)
- (P) Wenmackers, S.
“Ultralarge and infinite lotteries”
In: Van Kerkhove, B.; Libert, T.; Vanpaemel, G.; Marage, P. (eds.) “Logic,
Philosophy and History of Science in Belgium II”, Proceedings of the Young
Researchers Days 2010, Koninklijke Vlaamse Academie van België voor
Wetenschappen en Kunsten, Brussels, (2012) 59–66.
- (P) Benci, V.; Horsten, L.; Wenmackers, S.
“Axioms for Non-Archimedean Probability (NAP)”
In: De Vuyst, J.; Demey, L. (eds.) *Future Directions for Logic; Proceedings of PhDs
in Logic III*, Vol. 2 of IfColog Proceedings, College Publications, London, UK (2012)
127–135.
- (P) Krzyżanowska, K.; Wenmackers, S.; Douven, I.; Verbrugge, S.
“Conditionals, inference, and evidentiality”
In: Szymanik, J.; Verbrugge, R. (eds.) *Proceedings of the Logic & Cognition*

2011

- (C) Wenmackers, S.
“How to track reality”
Chapter 1 in: Botz-Bornstein, T. (ed.), *Inception and Philosophy* (ISBN 978-0-8126-9733-9), Vol. 62 of Popular Culture and Philosophy series, Open Court (2011) 3–23.
- (T) Wenmackers, S.
“Philosophy of probability: foundations, epistemology, and computation”
PhD-dissertation, University of Groningen (2011).
ISBN printed version: 978-90-367-4869-8; electronic version: 978-90-367-4870-4.
- (15) Tran, D.T.; Vermeeren, V.; Grieten, L.; Wenmackers, S.; Wagner, P.; Pollet, J.; Janssen, K.P.F.; Michiels, L.; Lammertyn, J.
“Nanocrystalline diamond impedimetric aptasensor for the label-free detection of human IgE”
Biosensors and Bioelectronics **26**, 2987–2993 (2011). (IF = 5.6)
- (14) Vermeeren, V.; Grieten, L.; Vanden Bon, N.; Bijmens, N.; Wenmackers, S.; Janssens, S.D.; Haenen, K.; Wagner, P.; Michiels, L.
“Impedimetric, diamond-based immunosensor for the detection of C-Reactive Protein”
Sensors and Actuators B: Chemical **157**, 130–138 (2011). (IF = 3.9)

2010

- (M) Vermeeren, V.; Bijmens, N.; Grieten, L.; Wenmackers, S.; Vanden Bon, N.; Haenen, K.; Wagner, P.; Michiels, L.
“Diamond-based biosensors with an impedimetric and label-free read-out”
In: *Nanotech 2010 Conference Technical Proceedings*, “Nanotechnology 2010: Bio Sensors, Instruments, Medical, Environment and Energy” (ISBN: 978-1-4398-3415-2) Vol. 3, Ch. 1 “Bio Sensors, Diagnostics & Imaging” 23–26 (2010).
- (P) Bäcker, M.; Poghossian, A.; Abouzar, M.H.; Wenmackers, S.; Janssens, S.D.; Haenen, K.; Wagner, P.; Schöning, M.J.
“Capacitive field-effect (bio-)chemical sensors based on nanocrystalline diamond films”
Mater. Res. Soc. Symp. Proc. **1203**, J17–31 (2010).
- (13) Vansweevelt, R.; Malesevic, A.; Van Gompel, M.; Vanhulsel, A.; Wenmackers, S.; D’Haen, J.; Vermeeren, V.; Ameloot, M.; Michiels, L.; Van Haesendonck, C.; Wagner, P.
“Biological modification of carbon nanowalls with DNA strands and hybridization experiments with complementary and mismatched DNA”
Chemical Physics Letters **485**, 196–201 (2010). (IF = 2.3)

2009

- Cover article
- (12) Wenmackers, S.; Vermeeren, V.; vandeVen, M.; Ameloot, M.; Bijmens, N.; Haenen, K.; Michiels, L.; Wagner, P.

“Diamond-based DNA sensors: surface functionalization and readout strategies”
Physica Status Solidi (a) **206**, 391–408 (2009). (IF= 1.2)

- (11) Bijnens, N.; Vermeeren, V.; Daenen, M.; Grieten, L.; Haenen, K.; Wenmackers, S.;
Williams, O.A.; Ameloot, M.; vandeVen, M.; Michiels, L.; Wagner, P.

“Synthetic diamond films as a platform material for label-free protein sensors”
Physica Status Solidi (a) **206**, 520–526 (2009). (IF= 1.2)

- (10) Smisdom, N.; Smets, I.; Williams, O.A.; Daenen, M.; Wenmackers, S.; Haenen, K.;
Nesládek, M.; D’Haen, J.; Wagner, P.; Rigo, J.-M.; Ameloot, M.; vandeVen, M.
“Chinese hamster ovary cell viability on hydrogen and oxygen terminated nano- and
microcrystalline diamond surfaces”

Physica Status Solidi (a) **206**, 2042–2047 (2009). (IF= 1.2)

- (9) Remes, Z.; Kromka, A.; Kozak, H.; Vanecek, M.; Haenen, K.; Wenmackers, S.
“The infrared optical absorption spectra of the functionalized nanocrystalline diamond
surface”

Diamond and Related Materials **18**, 772–775 (2009). (IF= 1.8)

- (8) Vermeeren, V.; Wenmackers, S.; Wagner, P.; L. Michiels, L.

“DNA sensors with diamond as a promising alternative transducer material”
Sensors **9**, 5600–5636 (2009). (IF = 1.8)

2008

- (7) Wenmackers, S.; Pop, S.D.; Roodenko, K.; Vermeeren, V.; Williams, O.A.; Daenen,
M.; Douh ret, O.; D’Haen, J.; Hardy, A.; Van Bael, M.K.; Hinrichs, K.; Cobet, C.;
vandeVen, M.; Ameloot, M.; Haenen, K.; Michiels, L.; Esser, N.; Wagner, P.

“Structural and optical properties of DNA layers covalently attached to diamond
surfaces”
Langmuir **24**, 7269–7299 (2008). (IF = 4.1)

- (6) Vermeeren, V.*; Wenmackers, S.*; Daenen, M.; Haenen, K.; Williams, O.A.;
Ameloot, M.; vandeVen, M.; Wagner, P.; Michiels, L.
“Topographical and functional characterisation of the ssDNA probe layer generated
through EDC-mediated covalent attachment to nanocrystalline diamond using
fluorescence microscopy”

Langmuir **24**, 9125–9134 (2008). (IF= 4.1)

(*: these authors contributed equally)

- (T) Wenmackers, S.

“Morphology, functionality and molecular conformation study of CVD diamond
surfaces functionalised with organic linkers and DNA”
PhD-dissertation, Hasselt University (2008).

2007

- (5) Vermeeren, V.; Bijnens, N.; Wenmackers, S.; Daenen, M.; Haenen, K.; Williams,
O.A.; Ameloot, M.; vandeVen, M.; Wagner, P.; Michiels, L.

“Towards a real-time, label-free diamond-based DNA sensor”
Langmuir **23**, 13193–13202 (2007). (IF = 4.0)

2006

- (4) Christiaens, P.; Vermeeren, V.; Wenmackers, S.; Daenen, M.; Haenen, K.; Nesládek, M.; vandeVen, M.; Ameloot, M.; Michiels, L.; Wagner, P.
“EDC-mediated DNA attachment to nanocrystalline CVD diamond films”
Biosensors and Bioelectronics **22**, 170–177 (2006). (IF = 4.1)

2005

- (3) Wenmackers, S.; Christiaens, P.; Daenen, M.; Haenen, K.; Nesládek, M.; vandeVen, M.; Vermeeren, V.; Michiels, L.; Ameloot, M.; Wagner, P.
“DNA attachment to nanocrystalline diamond films”
Physica Status Solidi (a) **202**, 2212–2216 (2005). (IF = 1.1)
- (P) Vermeeren, V.; Christiaens, P.; Wenmackers, S.; vandeVen, M.; Ameloot, M.; Wagner, P.; Michiels, L.
“EDC-mediated DNA attachment to nanocrystalline diamond”
Communications in agricultural and applied biological sciences **70**, 285–8 (2005).
- (2) Wenmackers, S.; Christiaens, P.; Deferme, W.; Daenen, M.; Haenen, K.; Nesládek, M.; Wagner, P.; Vermeeren, V.; Michiels, L.; vandeVen, M.; Ameloot, M.; Wouters, J.; Naelaerts, L.; Mekhalif, Z.
“Head-on immobilization of DNA fragments on CVD-diamond layers”
Materials Science Forum **492-493**, 267–272 (2005). (IF = 0.4)

2004

- (M) vandeVen, M.; Wenmackers, S.; Haenen, K.; Nesládek, M.; Wagner, P.; Michiels, L.; Ameloot, M.
“Spectral confocal imaging and patterning effects of surface modified polycrystalline diamond films”
Biophysical Journal (a) **86**, 608A–609A (2004).

2003

- (1) Wenmackers, S.; Haenen, K.; Nesládek, M.; Wagner, P.; Michiels, L.; vandeVen, M.; Ameloot, M.
“Covalent immobilization of DNA on CVD diamond films”
Physica Status Solidi (a) **199**, 44–48 (2003). (IF = 1.0)

*: Indicates presenting author

2016 (planned)

Bristol-Leuven workshop in Philosophy of Science,
 S. Wenmackers* (joint work with D.E.P. Vanpoucke),
 “Neo-Leibnizian analysis of indeterminism in Newtonian physics”,
 February 1, 2016, Bristol University, Bristol, UK.

Seminar,
 S. Wenmackers* (joint work with D.E.P. Vanpoucke),
 “Neo-Leibnizian analysis of indeterminism in Newtonian physics”,
 February 4, 2016, Sorbonne/CNRS, Paris, France.

Invited talk

SOPhiA 2016 - Salzburg Conference for Young Analytic Philosophy,
 S. Wenmackers*,
 TBA,
 September 7–9, 2016, Salzburg, Austria.

2015

Thursday lecture,
 S. Wenmackers*,
 “Children of the Cosmos”,
 November 26, 2015, KU Leuven, Leuven, Belgium.

Invited talk

Quetelet lecture (lecture series for Honours students UGent),
 S. Wenmackers*,
 “Wat is wetenschap?” (“What is science?”),
 October 6, 2015, Ghent University, Belgium.

Invited talk

JustGroningen 2015 – conference on epistemic justification
 S. Wenmackers* (joint work with J.-W. Romeijn),
 “A new theory for old evidence”,
 August 23–25, 2015, University of Groningen, Groningen, The Netherlands.

ABM – Short course on agent-based computational modelling in population studies,
 S. Wenmackers*,
 “Sociophysics and Simulations for Social Epistemology: Spin Models for Opinion
 Dynamics and Beyond”,
 June 6, 2015, KU Leuven, Leuven, Belgium.

2014

Faculty seminar,
 S. Wenmackers* (joint work with J.-W. Romeijn),
 “A new theory of old evidence”,
 November 18, 2014, KU Leuven, Leuven, Belgium.

CLAW/RTAP seminar,
S. Wenmackers*,
“Paradoxes of Probability”,
November 14, 2014, KU Leuven, Leuven, Belgium.

Invited talk

Research Seminar,
S. Wenmackers*,
“Boxing up the subjectivity in the Sleeping Beauty problem”,
November 11, 2014, Bayreuth University, Bayreuth, Germany.

Invited talk

TiLPS Colloquium, Tilburg University,
S. Wenmackers*,
“Boxing up the subjectivity in the Sleeping Beauty problem”,
September 26, 2014, Tilburg University, Tilburg, The Netherlands.

Brown Bag lecture,
S. Wenmackers*,
“Sleeping Beauty Puzzle”,
May 7, 2014, University of Groningen, Groningen, The Netherlands.

GroLog lecture,
S. Wenmackers*,
“On numerosities and infinitesimal probabilities”
March 27, 2014, University of Groningen, Groningen, The Netherlands.

2013

CLPS13 – Congress on Logic and Philosophy of Science,
“A deterministic model for Norton’s dome”,
S. Wenmackers* (joint work with D.E.P. Vanpoucke),
September 16 – 18, 2013, Centre for Logic and Philosophy of Science, Universiteit
Gent, Ghent, Belgium.

Foundations of Physics 2013 – 17th UK and European Meeting,
“A deterministic model for Norton’s dome: what is the probability of equilibrium?”,
S. Wenmackers*, D.E.P. Vanpoucke,
August 29 – 31, 2013, Ludwig-Maximilians University (LMU) Munich, Munich
Center for Mathematical Philosophy (MCMP), München, Germany.

Invited talk

The Philosophy of Clark Glymour – Symposium,
“On the problem of old evidence: a new theory for theory change”,
S. Wenmackers* (joint work with J.-W. Romeijn),
June 13 – 15, 2013, Heinrich Heine University Düsseldorf, Düsseldorf Center for
Logic and Philosophy of Science (DCLPS), Germany.

Philosophy of Science in a Forest, PSF2013 – Zesde Vlaams-Nederlands Congres voor Algemene en Speciale Wetenschapsfilosofie,
“A deterministic model for Norton’s dome”,
S. Wenmackers* (joint work with D.E.P. Vanpoucke),
May 23 – 25, 2013, Leusden, The Netherlands.

2012

Tutorial

Formal Methods in Philosophy – Summer School,
“Numbers and Reality: Reals and Beyond”,
S. Wenmackers*,
August 23 – 28, 2012, University of Groningen, Groningen, The Netherlands.

Logic & Cognition – Workshop at ESSLLI 2012,
“Conditionals, inference, and evidentiality”,
K. Krzyżanowska*, S. Wenmackers, I. Douven, S. Verbrugge,
August 13 – 17, 2012, Opole, Poland.

Historical Counterfactuals – Workshop,
“Infinitesimal turn in a garden of forking paths”,
S. Wenmackers*,
August 14, 2012, University of Bristol, Bristol, United Kingdom.

Omwenteling in de Kenleer – Lente-symposium van de Nederlandse Vereniging voor Wetenschapsfilosofie (NVWF),
“Waterkansjes: kenleer van het hoogst onwaarschijnlijke”,
S. Wenmackers*,
June 15, 2012, University of Amsterdam, Amsterdam, The Netherlands.

Two tutorial sessions

FEW 2012 – Formal Epistemology Workshop,
“Hyperreals and Their Applications”,
S. Wenmackers*,
May 29 – June 2, 2012, Ludwig-Maximilians University (LMU) Munich, Munich Center for Mathematical Philosophy (MCMP), München, Germany.

2011

Philosophy and History of Science - Research seminar,
“Infinitesimal Probabilities and Stratified Belief”,
S. Wenmackers*,
November 16, 2011, University of Bristol, Bristol, United Kingdom.

FEMEP 2011 – Formal Epistemology Meets Experimental Philosophy,
“Stratified belief: Rational belief for real people”,
S. Wenmackers*,
and
“Determining the probability of inconsistencies in theory updating under bounded confidence”,
S. Wenmackers*, D.E.P. Vanpoucke, I. Douven,

September 29 – 30, 2011, University of Tilburg, Tilburg, The Netherlands.

Prolog 2011 – Workshop on Probability & Logic,
“Ultralarge lotteries: Dissolving the lottery paradox using non-standard analysis”,
S. Wenmackers*,
September 10 – 11, 2011, Columbia University, New York, USA.

DGL 2011 – 5th Workshop on Decisions, Games & Logic,
“Stratified belief and rational yes-no decisions”,
S. Wenmackers*,
July 7 – 9, 2011, University of Maastricht, Maastricht, The Netherlands.

MLNL 2011, Mathematical Logic in the Netherlands 2011,
“Axioms for non-Archimedean probability (NAP)”,
V. Benci, L. Horsten, S. Wenmackers*,
May 19 – 20, 2011, University of Groningen, Groningen, The Netherlands.

All models are wrong... – Model uncertainty & selection in complex models,
“Models and simulations in material science: two cases without error bars”,
S. Wenmackers*, D.E.P. Vanpoucke,
March 14 – 16, 2011, University of Groningen, Groningen, The Netherlands.

PhDs in Logic III,
“Axioms for non-Archimedean probability (NAP)”,
V. Benci, L. Horsten, S. Wenmackers*,
February 17 – 18, 2011, Palais des Académies, Brussels, Belgium.

Vaste-Stofwisselingen – Research seminar,
“Sociophysics and opinion dynamics”,
S. Wenmackers*,
February 11, 2011, Universiteit Gent – Solid State Sciences, Ghent, Belgium.

2010

Second Young Researchers Days, YRDII – Workshop on the Relations between Logic,
Philosophy and History of Science,
“Indefinitely large and infinite lotteries”,
S. Wenmackers*,
September 6 – 7, 2010, Palais des Académies, Brussels, Belgium.

Logic Colloquium 2010, Logic2010 – Annual European conference on logic,
organized under the auspices of the Association for Symbolic Logic (ASL),
“Finite and infinite, denumerable lotteries”,
S. Wenmackers*,
July 25 – 31, 2010, Paris Diderot University, Paris, France.

Philosophy of Probability III, POPIII – Graduate Conference 2010,
“Probability and Epistemology of Denumerable Lotteries Using Non-Standard
Analysis”,
S. Wenmackers*,
June 25 – 26, 2010, London School of Economics, London, UK.

Philosophy of Science in a Forest, PSF2010 – Vijfde Vlaams-Nederlands Congres voor Algemene en Speciale Wetenschapsfilosofie, “Ultralarge lotteries”, S. Wenmackers*, May 14 – 15, 2010, Leusden, The Netherlands.

2009

Invited talk

MRS Fall meeting 2009 – Symposium J ‘Diamond Electronics and Bioelectronics – Fundamentals to Applications III’,

S. Wenmackers, R. Vansweevelt, L. Grieten, S. Janssens, K. Haenen, V. Vermeeren, L. Michiels, M. Ameloot, A. Riskin, A. Hardy, M. Van Bael, S.D. Pop, C. Cobet, N. Esser, P. Wagner*,

“Biosensors on Diamond, Silicon and Carbon-Nanowalls”, November 30 – December 4, 2009, Boston, US.

EnFi09 – Workshop on Engineering of Functional Interfaces 2009,

V. Vermeeren*, S. Wenmackers, L. Grieten, K. Haenen, P. Wagner, L. Michiels, “Label-free, nanocrystalline diamond (NCD)-based, impedimetric biosensors”, and

R. Vansweevelt*, A. Malesevic, A. Vanhulsel, M. Vangompel, S. Wenmackers, J. D’Haen, V. Vermeeren, M. Ameloot, L. Michiels, C. Van Haesendonck, P. Wagner, “Covalent DNA binding and hybridization experiments on carbon-nanowall platforms”,

June 12 – 13, 2009, Diepenbeek, UHasselt, Belgium.

2008

EnFi08 – Workshop on Engineering of Functional Interfaces 2008,

S. Wenmackers*, N. Bijmens, K. Haenen, P. Wagner, V. Vermeeren, L. Michiels, M. vandeVen, M. Ameloot, S.D. Pop, K. Roodenko, C. Cobet, N. Esser, “Functionalisation of diamond with organic linker molecules and DNA”,

June 12 – 13, Jülich, Germany.

Keynote lecture

Congress *Biosensors 2008* – 10th World Congress on Biosensors,

“Optical conformation studies on DNA layers covalently bound to diamond-based sensors”,

S. Wenmackers*, V. Vermeeren, K. Roodenko, S.D. Silaghi, N. Esser, P. Wagner, *et al.*,

May 14 – 16, 2008, Shanghai International Convention Centre, Shanghai, China.

Invited talk

ISAS seminar

“DNA brushes on nanocrystalline diamond: probing the surface”,

S. Wenmackers*, V. Vermeeren, S.D. Pop, K. Roodenko, C. Cobet, K. Hinrichs, N. Esser, M. vandeVen, M. Ameloot, K. Haenen, L. Michiels, P. Wagner,

April 7, 2008, Institute for Analytical Sciences, Berlin, Germany.

Congress *Hasselt Diamond workshop 2008, SBDD XIII – Surface and Bulk Defects in CVD Diamond Films XIII*,
“Orientation of short DNA strands end-tethered to UNCD”,
S. Wenmackers*, V. Vermeeren, S.D. Silaghi, K. Roodenko, C. Cobet, N. Esser, K. Haenen, L. Michiels, P. Wagner,
February 25 – 27, 2008, Cultuurcentrum Hasselt, Hasselt, Belgium.

2007

Invited talk

Congress *3. Jahrestagung des Arbeitskreis Microsysteme für Biotechnologie und Lifesciences (AK-BioMST) e.V.*,
“Synthetische Diamantschichten als Plattform für den elektronischen Nachweis der DNA-Hybridisierung”,
S. Wenmackers*, N. Bijmens, K. Haenen, P. Wagner, V. Vermeeren, M. vandeVen, M. Ameloot, L. Michiels, S. Silaghi, K. Roodenko, K. Hinrichs, N. Esser,
June 19, 2007, Technologie Zentrum Dortmund, Dortmund, Germany.

Interregio-meeting Limburg-Brabant – Regional developments in the area of (bio-) medical devices,
“Towards DNA-sensors based on diamond thin films”,
S. Wenmackers*, V. Vermeeren, K. Haenen, M. vandeVen, M. Ameloot, L. Michiels, P. Wagner,
June 5, 2007, Technische Universiteit Eindhoven, Eindhoven, The Netherlands.

Finalist Young Scientist Award

Congress *International Scientific Meeting – Belgian Physical Society (BPS)*,
“Microfluorimetry and UV ellipsometry on DNA-fragments immobilized on synthetic diamond films”,
S. Wenmackers*, V. Vermeeren, S. D. Silaghi, K. Haenen, M. vandeVen, M. Ameloot, N. Esser, L. Michiels, P. Wagner,
May 30, 2007, Universiteit Antwerpen, Antwerpen, Belgium.

DBS 2007 – 5. Deutsches BioSensor Symposium,
“Anwendung von nanokristallinen Diamanten als DNA Sensorplattform”,
S. Wenmackers, V. Vermeeren, P. Christiaens, N. Bijmens, M. Daenen, K. Haenen, M. vandeVen, M. Ameloot, L. Michiels, P. Wagner*,
March 18 – 21, Ruhr-Universität Bochum, Bochum, Germany.

2005

Congress *Diamond 2005 – 16th European Conference on Diamond, Diamond-like Materials, Carbon Nanotubes, and Nitrides*,
“DNA attachment to nanocrystalline CVD diamond for biosensor development”,
S. Wenmackers*, P. Christiaens, V. Vermeeren, L. Michiels, M. vandeVen, M. Ameloot, M. Daenen, M. Nesládek, K. Haenen, P. Wagner,
September 11 – 16, 2005, Centre de Congrès Pierre Baudis, Toulouse, France.

Symposium *I3S 2005 – 3rd International Symposium on Sensor Science*,
“Tethering of DNA to nanocrystalline diamond films for biosensor applications”,
S. Wenmackers*, P. Christiaens, M. Daenen, K. Haenen, M. Nesládek, M. vandeVen, V. Vermeeren, L. Michiels, M. Ameloot, P. Wagner,

July 18 – 21, 2005, Forschungszentrum Jülich, Jülich, Germany.

2004

Congress *FGM2004* – Multifunctional and functionally graded materials 2004, “Surface sensitive techniques for the study of DNA immobilized on CVD diamond”, S. Wenmackers*, P. Christiaens, W. Deferme, K. Haenen, M. Nesládek, P. Wagner, L. Michiels, M. vandeVen, V. Vermeeren, M. Ameloot, J. Wouters, Z. Mekhalif, July 12 – 14, 2004, Leuven, Belgium.

Congress *Biosensors 2008* – 8th World Congress on Biosensors, “Head-on immobilization of DNA fragments on synthetic CVD-diamond layers”, S. Wenmackers, P. Christiaens, W. Deferme, K. Haenen, M. Nesládek, P. Wagner*, V. Vermeeren, L. Michiels, M. vandeVen, M. Ameloot, J. Wouters, L. Naelaerts, Z. Mekhalif, May 24-26, 2004, Granada, Spain.

2003

BioMed lunch seminar, “CVD diamond as a platform for DNA”, S. Wenmackers*, K. Haenen, M. Nesládek, P. Wagner, L. Michiels, M. vandeVen, M. Ameloot, C. Pirlot, Z. Mekhalif, December 22, 2003, Limburgs Universitair Centrum, Diepenbeek, Belgium.

Symposium *Sensing Physiology*, “Biosensors based on CVD diamond”, S. Wenmackers*, K. Haenen, M. Nesládek, P. Wagner, L. Michiels, M. vandeVen, M. Ameloot, C. Pirlot, Z. Mekhalif, December 5, 2003, Limburgs Universitair Centrum, Diepenbeek, Belgium.

Young Speakers Award

Congress *DIAMOND 2003* – 14th European Conference on Diamond, Diamond-like Materials, Carbon Nanotubes, and Nitrides, “Surface patterning and immobilization of DNA on CVD diamond”, S. Wenmackers*, K. Haenen, L. Michiels, M. Nesládek, M. vandeVen, M. Ameloot, P. Wagner, September 7 – 12, 2003, Salzburg Convention Centre, Salzburg, Austria.

Congress *International Scientific Meeting* – Belgian Physical Society, “CVD diamond as a platform for DNA immobilization”, S. Wenmackers*, K. Haenen, M. Nesládek, P. Wagner, L. Michiels, M. vandeVen, M. Ameloot, May 27 – 28, 2003, Universiteit Gent, Ghent, Belgium.

Congress *SBDD VIII* – Surface and Bulk Defects in CVD Diamond Films VIII, “Covalent immobilization of DNA on CVD diamond”, S. Wenmackers*, K. Haenen, M. Nesládek, P. Wagner, L. Michiels, M. vandeVen, M. Ameloot, February 26 – 28, 2003, Limburgs Universitair Centrum, Diepenbeek, Belgium.

2012

Intuitions, Experiments and Philosophy – 3rd Workshop on Experimental Philosophy,
K. Krzyżanowska, S. Wenmackers, I. Douven,
“What inferential conditionals can reveal about epistemic modals. An experimental
study of evidentiality”,
September 8–9, 2012, University of Nottingham, Nottingham, UK.

2011

BPS 2011 – Annual general scientific meeting of the Belgian Physical Society,
S. Wenmackers, D.E.P. Vanpoucke, I. Douven,
“Sociophysics: Probability of Inconsistency in Opinion Dynamics”,
May 25, 2011, FUNDP, Namur, Belgium.

2010

DGL 2010 – 4th Workshop on Decisions, Games & Logic,
S. Wenmackers,
“Probability and epistemology of denumerable lotteries”,
June 9 – 11, 2010, Paris, France.

2009

MRS Fall meeting 2009 – Symposium SS ‘Biosurfaces and Biointerfaces’,
N. Smisdom, I. Smets, O.A. Williams, M. Daenen, S. Wenmackers, K. Haenen, M.
Nesládek, J. D’Haen, P. Wagner, J.M. Rigo, M. Ameloot, M. vandeVen,
“Chinese hamster ovary cells grow unimpeded on bare hydrogen and oxygen
terminated diamond surfaces”,
November 30 – December 4, 2009, Boston, US.

Light at the forefront of physics – Colloquium of the national committee of pure and
applied physics of the Royal Academy of Arts and Sciences,
S. Wenmackers, V. Vermeeren, S.D. Pop, C. Werner, C. Cobet, K. Haenen, N. Esser,
L. Michiels, P. Wagner,
“Probing the orientation of DNA on diamond with vacuum UV ellipsometry at
BESSY II”,
September 19, 2009, Palais des Académies, Brussels, Belgium.

Nanowall Liège,
S. Wenmackers, V. Vermeeren, S.D. Pop, C. Werner, C. Cobet, K. Haenen, N. Esser,
L. Michiels, P. Wagner,
“DNA brushes grafted on diamond”,
May 8, 2009, Liège, Belgium.

SyNeW-2009 – Synchrotron and Neutron Workshop,
S. Wenmackers, V. Vermeeren, S.D. Pop, C. Werner, C. Cobet, K. Haenen, N. Esser,
L. Michiels, P. Wagner,
“Probing the orientation of DNA on diamond with vacuum UV ellipsometry at
BESSY II”,
April 23, 2009, Palais des Académies, Brussels, Belgium.

International Scientific Meeting – Belgian Physical Society,
S. Wenmackers, V. Vermeeren, S.D. Pop, C. Werner, C. Cobet, K. Haenen, N. Esser,
L. Michiels, P. Wagner,
“DNA brushes grafted on diamond”,
and
N. Smisdom, I. Smets, O.A. Williams, M. Daenen, S. Wenmackers, K. Haenen, J.
D’Haen, P. Wagner, J.M. Rigo, M. Ameloot, M. vandeVen,
“Biological behavior of Chinese hamster ovary cells growing on functionalized
diamond surfaces”,
April 1, 2009, UHasselt, Diepenbeek, Belgium.

2008

Diamond 2008 – 19th European Conference on Diamond, Diamond-Like Materials,
Carbon Nanotubes, and Nitrides,
Z. Remes, A. Kromka, H. Kozak, M. Vanecek, K. Haenen, S. Wenmackers,
“IR absorption spectra of functionalized nanocrystalline diamond surface”,
September 7 – 11, 2008, Sitges, Spain.

EnFi08 – Workshop on Engineering of Functional Interfaces 2008,
V. Vermeeren, N. Bijmens, S. Wenmackers, M. vandeVen, M. Ameloot, K. Haenen, P.
Wagner, L. Michiels,
“Towards label-free diamond-based biosensors”,
and
N. Bijmens, V. Vermeeren, S. Wenmackers, M. Daenen, O.A. Williams, K. Haenen, L.
Michiels, P. Wagner,
“A label-free diamond CRP-immunosensor”,
June 12 – 13, 2008, Jülich, Germany.

International Scientific Meeting – Belgian Physical Society,
R. Vansweevelt, A. Malesevic, M.P. Chowdhury, A. Volodin, A. Vanhulsel, S.
Wenmackers, V. Vermeeren, C. Van Haesendonck, P. Wagner,
“Bioactivation of graphene-like nanostructures, synthesized by MPE-CVD, with ss-
DNA”,
May 21, 2008, Université Libre de Bruxelles, Brussels, Belgium.

2007

MRS Fall Meeting 2007,
S. Wenmackers, S.D. Silaghi, V. Vermeeren, M. vandeVen, M. Ameloot, L. Michiels,
N. Esser, K. Haenen, P. Wagner,
“DNA layers on nano- and ultra-nanocrystalline diamond characterized by optical
techniques”,
November, 2007, Boston, US.

Diamond 2007 – 18th European Conference on Diamond, Diamond-Like Materials,
Carbon Nanotubes, and Nitrides,
S. Wenmackers, M. Daenen, O.A. Williams, K. Haenen, O. Douhéret, J. D’Haen, P.
Wagner, V. Vermeeren, M. vandeVen, M. Ameloot, L. Michiels, S.D. Silaghi, K.
Roodenko, C. Cobet, K. Hinrichs, N. Esser,
“Vacuum ultraviolet ellipsometry of DNA layers on ultra-nanocrystalline diamond”,
September 9 – 12, 2007, Berlin, Germany.

Biomedica 2007,

S. Wenmackers, M. Daenen, O.A. Williams, K. Haenen, P. Wagner, V. Vermeeren, L. Michiels, S.D. Silaghi, K. Roodenko, K. Hinrichs, N. Esser,
“Synthetic diamond as a biomaterial: UV and IR Ellipsometry of DNA-layers”,
March 21 – 22, 2007, Aachen, Germany.

SBDD XII – 12th Workshop on Surface and bulk defects in CVD diamond films,
S. Wenmackers, M. Daenen, O.A. Williams, K. Haenen, J. D’Haen, P. Wagner, V.
Vermeeren, L. Michiels, S. Silaghi, K. Roodenko, K. Hinrichs, N. Esser,
“UV and IR Ellipsometry of DNA-layers on Diamond Films”,
and

N. Bijmens, V. Vermeeren, P. Christiaens, M. Daenen, K. Haenen, O.A. Williams, M.
vandeVen, M. Ameloot, S. Wenmackers, L. Michiels, P. Wagner,
“Towards a label-free, diamond-based DNA sensor”
February 28 – March 2, 2007, UHasselt, Diepenbeek, Belgium.

2006

Bioliège – 10th Bioforum,

S. Wenmackers, P. Christiaens, P. Wagner, M. Daenen, K. Haenen, V. Vermeeren, L.
Michiels, M. Ameloot, M. vandeVen,
“Synthetic diamond as a biosensor platform: study of covalent DNA attachment”,
May 17, 2006, ULg, Liège, Belgium.

9th World Congress on Biosensors,

P. Christiaens, V. Vermeeren, S. Wenmackers, M. Daenen, M. vandeVen, P. Wagner,
“DNA attachment to nanocrystalline diamond films by EDC crosslinking”,
May 10-12, 2006, Toronto, Canada.

International Scientific Meeting – Dutch-Belgian Physical Society,

S. Wenmackers, P. Christiaens, P. Wagner, M. Daenen, K. Haenen, V. Vermeeren, L.
Michiels, M. Ameloot, M. vandeVen,
“Synthetic diamond as a biosensor platform: study of covalent DNA attachment”,
April 28, 2006, Leiden, The Netherlands.

Symposium on DNA Nanoelectronics,

S. Wenmackers, P. Christiaens, P. Wagner, M. Daenen, K. Haenen, V. Vermeeren, L.
Michiels, M. Ameloot, M. vandeVen,
“Synthetic diamond as a biosensor platform: study of covalent DNA attachment”,
April 7-8, 2006, Regensburg, Germany.

2005

European Molecular Meeting,

V. Vermeeren, P. Christiaens, S. Wenmackers, M. vandeVen, M. Ameloot, P. Wagner,
L. Michiels,
“EDC-mediated DNA attachment to nanocrystalline diamond”,
October 14, 2005, Scheveningen, The Netherlands.

PhD symposium on Applied Biological Sciences,

V. Vermeeren, P. Christiaens, S. Wenmackers, M. vandeVen, M. Ameloot, P. Wagner,
L. Michiels,

“EDC-mediated DNA attachment to nanocrystalline diamond”,
October 6, 2005, Leuven, Belgium.

Congrès général de la SFP et de la BPS,

S. Wenmackers, P. Christiaens, M. Daenen, K. Haenen, P. Wagner, V. Vermeeren, L. Michiels, M. vandeVen, M. Ameloot,

“Tethering of DNA to nanocrystalline diamond films for biosensor applications”,
and

P. Christiaens, S. Wenmackers, W. Deferme, M. Daenen, O.A. Williams, K. Haenen, V. Vermeeren, L. Michiels, M. vandeVen, P. Wagner,

“pH-dependent surface conductivity of synthetic diamond films”

August 29 – September 2, 2005, Lille, France.

I3S 2005 – 3rd International Symposium on Sensor Science,

P. Christiaens, S. Wenmackers, W. Deferme, M. Daenen, O.A. Williams, K. Haenen, V. Vermeeren, L. Michiels, M. vandeVen, P. Wagner,

“pH-sensitive polycrystalline diamond (PCD) films”,

July 18-21, 2005, Forschungszentrum Jülich, Jülich, Germany.

Deutsches Biosensor Symposium 2005,

P. Christiaens, S. Wenmackers, V. Vermeeren, L. Michiels, M. vandeVen, M. Ameloot, M. Daenen, K. Haenen, P. Wagner,

“Kovalente DNA-Bindung auf synthetischen Diamantfilmen”,

March 13-16, 2005, Universität Regensburg, Regensburg, Germany.

SBDD X – 10th Workshop on Surface and bulk defects in CVD diamond films,

S. Wenmackers, P. Christiaens, M. Daenen, K. Haenen, M. Nesládek, M. VandeVen, V. Vermeeren, L. Michiels, M. Ameloot, P. Wagner,

“DNA attachment to NCD films for future biosensing applications”,

February 23-25, 2005, Diepenbeek, Belgium.

2004

Bioliège - Bioforum 2004,

P. Christiaens, V. Vermeeren, S. Wenmackers, M. Daenen, K. Haenen, M. Ameloot, M. vandeVen, L. Michiels, P. Wagner,

“DNA attachment to diamond films for biosensor construction”,

and

V. Vermeeren, L. Michiels, S. Wenmackers, P. Christiaens, P. Wagner, M. Ameloot, M. vandeVen,

“Covalent immobilization of DNA and antibodies on CVD nanocrystalline diamond”,

December 7, 2004, ULg, Liège, Belgium.

International Scientific Meeting – Belgian Physical Society,

“Surface sensitive techniques for the study of biologically activated CVD diamond”,

S. Wenmackers, P. Christiaens, W. Deferme, G. Vanhoyland, K. Haenen, M.

Nesládek, P. Wagner, V. Vermeeren, L. Michiels, M. vandeVen, M. Ameloot, J.

Wouters, Z. Mekhalif,

and

P. Christiaens, S. Wenmackers, P. Cooreman, R. Thoelen, P. Wagner, W. Deferme, G. Vanhoyland, B. Ruttens, K. Haenen, M. Nesládek, M. vandeVen, M. Ameloot, V. Vermeeren, L. Michiels,
“Active molecules for biosensors on diamond”,
May 25–26, 2004, Mons, Belgium.

Cells at Work II – Life Sciences Limburg,
S. Wenmackers, P. Christiaens, W. Deferme, G. Vanhoyland, K. Haenen, M. Nesládek, P. Wagner, V. Vermeeren, L. Michiels, M. vandeVen, M. Ameloot, J. Wouters, Z. Makhalf,
“Surface sensitive techniques for the study of biologically activated CVD diamond”
May 12–13, 2004, Maastricht, The Netherlands.

48th Annual Meeting of the American Biophysical Society,
M. vandeVen, S. Wenmackers, K. Haenen, M. Nesládek, P. Wagner, L. Michiels, M. Ameloot,
“Spectral confocal imaging and patterning effects of surface modified polycrystalline diamond films”,
February 14–18, 2004, Baltimore, US.

SBDD IX – 9th Workshop on Surface and bulk defects in CVD diamond films,
M. vandeVen, S. Wenmackers, B. Ruttens, K. Haenen, M. Nesládek, P. Wagner, L. Michiels, M. Ameloot,
“Photodecomposition patterning of thymidine modified polycrystalline diamond films”,
February 18 – 20, 2004, Diepenbeek, Belgium.

2003

Hairy interfaces and Stringy Molecules – International summer school and workshop,
S. Wenmackers,
“CVD diamond as a platform for DNA immobilization”,
August 13-17, 2003, University of Southern Denmark, Odense, Denmark.

Bioliège - Bioforum 2003,
S. Wenmackers, K. Haenen, M. Nesládek, P. Wagner, L. Michiels, M. vandeVen, M. Ameloot,
“CVD diamond as a platform for DNA immobilization”,
May 9, 2003, ULg, Liège, Belgium.

APPENDIX IV: TEACHING EXPERIENCE

LIST OF COURSES TAUGHT

- ◆ 2016–2017 (planned)
 - Coordinator of the course ‘Philosophy of Emergence’ (Master Phil.), with C. Maes.
 - Coordinator of the course ‘Introduction to Philosophy’ (Bachelor level Crim. Sci.).
- ◆ 2015–2016
 - Coordinator of the course ‘Philosophy of Time’ (Master Phil.), taught with P.Thyssen.
 - Coordinator of the course ‘Introduction to Philosophy’ (Bachelor level Crim. Sci.).
- ◆ 2014–2015
 - Coordinator of the course ‘Philosophy of Probability’ (Master Phil.).
 - Coordinator of the course ‘Introduction to Philosophy’ (Bachelor level Crim. Sci.).
- ◆ 2012–2013
 - Coordinator of the course ‘Philosophy of Science’ (Honours College, Bachelor level).
 - Coordinator of the course ‘Philosophy of Probability’ (Master Phil., Math., Soc. Sci.).
- ◆ 2011–2012
 - Coordinator of the course ‘Philosophy of Probability’ (Master Phil., Math., Soc. Sci.).
- ◆ 2009–2010 / 2010–2011
 - Practical assistant (AAP)
 - Laboratory sessions (Bachelor Physics, Pharmacy, Biology, and Bio-engineering).
- ◆ 2008–2009
 - Coordinator of the course ‘Radiation protection’ (Master Biomedical Sciences).
- ◆ 2002–2008
 - Teaching assistant (teaching during 50% of the time; other 50% for research)
 - Teaching included lectures, exercises, and practical laboratory sessions:
 - Various courses in Master ‘Bioelectronics and Nanotechnology’,
 - Biophysics (Bachelor Physics and Biomedical Sciences),
 - Homeostasis (Bachelor Biomedical Sciences),
 - Quantum mechanics (Bachelor Chemistry),
 - Classical mechanics (Bachelor Physics, Mathematics, Chemistry, and Biology),
 - Physical models in the medical sciences (Bachelor Medicine).

Results of student evaluations of my courses are available upon request.

DEGREES AND CERTIFICATES

- 2013 Assessment by the Language Centre of the University of Groningen, the Netherlands
 - fully equipped to teach through English.
- 2012 Academic teaching degree: Physics, at Ghent University, Belgium
 - fulfilled teaching practice at a college for Professional Bachelors (Hogeschool ‘Vesalius’, Ghent, Belgium); obtained degree with high distinction.

EDITORIAL ACTIVITIES

Guest editor: special issue of *Synthese* (2014) on “infinite regress” (with Jeanne Peijnenburg).

During my career, I have acted as a referee for the following:

- *Journals in the exact sciences*
Biosensors, Diamond and Related Materials, Journal of Physical Chemistry, Physica Status Solidi, and Solid State Science and Technology.
- *Journals in philosophy*
British Journal for the Philosophy of Science, Constructivist Approaches, Erkenntnis, European Journal for Philosophy of Science, Journal of Philosophical Research, Logique et Analyse, Mind, Notre Dame Journal of Formal Logic, PHIA, Philosophical Studies, Philosophy of Science, Studia Logica, and Synthese.
- *Conferences (member of program committee)*
EPSA15 (Düsseldorf, Germany), Conceptual Spaces at Work 2016 (Södertörn University, Sweden).
- *Granting agency*
Fonds Wetenschappelijk Onderzoek (FWO – Vlaanderen).

Abbreviations:

AV: Academic Visit,	OA: Organization and Administration,
BR: Book Review,	PE: Public Event or Radio,
CL: Commentator after a Lecture	PP: Popular Publication,
MO: Member of Ph.D. Opposition,	SC: Special Course.

Ongoing

- PP Various blog posts in Dutch (since 2011) about physics, philosophy, and life as a researcher on the Eos group blog: <http://weetlogs.scilogs.be/index.php?blogId=34> (which is a selection from my personal blog <http://www.sylviawenmackers.be/blog/>).

2016 (planned)

- PP Columns “Scherp gesteld” in Dutch for a science magazine:
- “Kans op chocoladetaart”, Eos nr.1 (2016) p.51.
- Monthly column for Eos (starting April 2016).
- PE YouReCa Challenge: Science Slam.
February 17, 2016, Het Depot, Leuven, Belgium.
- PE Public lecture in series “Lessen voor de XXI eeuw” (“Lessons for the XXI century”),
“Dat kan geen toeval zijn” (“That can’t be a coincidence”),
March 21, 2016, KU Leuven, Leuven, Belgium.

2015

- PE Interview for radio/podcast on retrocausality.
December 13, 2015, AmsterdamFM, The Netherlands, program “Swammerdam”.

- PE Debate before a live audience (related to course “Redelijk eigenzinnig”), module “Duurzame wetenschap” (“Sustainable Science”), November 11, 2015, VUB, Brussels, Belgium.
- CL Comment after lecture by Paul Egré, <http://www.snd-sorbonne.fr/spip.php?article162&lang=fr> February 18, 2015, SND Sorbonne, Paris, France.
- CL Comment after lecture by Leon Horsten, May 19, 2015, Leuven-Bristol workshop, KU Leuven, Leuven, Belgium.
- PE Introduction to epistemology, Summer School on Philosophy for a general audience. “Weet de wetenschap alles?” (“Does science know everything?”), August 17, 2015, Institute of Philosophy, KU Leuven, Belgium.
- PE Interview on “Sleeping beauties in science” for Belgian radio. June 1, 2015, Radio 1, program “Nieuwe feiten”.
URL: <http://www.radio1.be/programmas/nieuwe-feiten/schone-slaapsters-de-wetenschap>
- PE Live interview (1h): introduction to coincidence and probability for Belgian radio. August 13, 2015, Radio 1, program “WeetIkVeel”.
URL: <http://www.radio1.be/programmas/11weet/jouw-toevalsverhaal-weetikveel>
- PE Debate on research ethics and scientific integrity: “De wetenschap(per) liegt niet?”, March 25, 2015, “Week van de ethiek” – campus Arenberg, Leuven.
- PE Participation FameLab 2015:
April 23, 2015, heat in Gent “Help, I see physics everywhere!” ([video](#)),
April 25–26, 2015, master class taught by Timandra Harkness,
May 12, 2015, Belgian national final in Leuven “What is the probability that you were born?” ([video](#)).
- PE PechaKucha presentation “Comprehensive drawing”, cultural event “Science & Art”, October 28, 2015, STUK Café, Leuven, Belgium.
- PP Winner of essay competition “Trick or Truth?” (June 10, 2015) of the Foundational Questions Institute (FQXi).
Title of the essay: “Children of the Cosmos”
Prize: 10 k\$.
URL: <http://fqxi.org/community/essay/winners/2015.1>
- PP Winner of essay competition “Robbert Dijkgraaf Essayprijs 2015”, “Kijkt u eens” (November 28, 2015), published in Folia (paper of Amsterdam University, [web version](#)) end het Parool (general newspaper in Amsterdam).
- PP Opinion piece in Belgian newspaper, [“Een openbare omroep kan niet zonder wetenschapsjournalisten”](#) (“A national broadcast station can’t function without science journalists”), May 19, 2015, De Standaard.

- PP Short interview in Belgian newspaper regarding #girlsandtheirtoys, May 19, 2015, Het Nieuwsblad and De Standaard.
- PP Article on “Sleeping beauties in science” in Dutch for a science magazine. Eos, nr.9 (2015) pp. 102–104.
- PP Columns “Scherp gesteld” in Dutch for a science magazine:
- February 2015, “Wet van de waterkans” – On the observation that in some situations it is necessary that an improbable event will occur, Eos nr.2 (2015) p.57;
 - May 2015, “Opgebrande wetenschap” – On the effects of funding policies on science and scientists, Eos nr.5 (2015);
 - September 2015, “1,1,1,2,3,5,9,18,35,75,...” – On the importance of good science teachers in schools and stimulating own research, Eos nr.9 (2015) p.57;
 - November 2015, “Tergend traag glas” – On the question whether glass is a liquid (no, it isn’t), Eos nr.11 (2015) p.55.
- MO May 25, 2015: Ph.D. ceremony of Olivier Lemeire, supervisor A. De Block, KU Leuven.

2014

- PE Debate before a live audience on the Technological Singularity (with Philip Dutré and Peter-Paul Verbeek), April 5, 2014, “Dag van de Filosofie” (Flanders; theme humans and technology) – STUK in Leuven.
- PE Organisation of symposium (co-production NVWF and Veni) “Determinisme en indeterminisme in de fysica”, November 26, 2014, Groningen.
- PP Columns “Scherp gesteld” in Dutch for a science magazine:
- January 2014, “Kinderspel” – On the question whether children are ‘born scientists’, Eos nr.1 (2014) p.59;
 - April 2014, “Blinde vlek” – On the underrepresentation of women in the exact sciences, Eos nr.4 (2014) p.55;
 - July/August 2014, “Stralend blauwe hemel” – On Scheerer’s phenomenon, Eos nr.7–8 (2014) p.87;
 - November 2014, “Begrijpend tekenen” – On the importance of drawing in scientific thinking, Eos nr.11 (2014) p.59.
- MO August 27, 2014: Ph.D. ceremony of Pablo Acuña, supervisor D. Dieks, UUtrecht; October 8, 2014: Ph.D. ceremony of Marc Holman, supervisor D. Dieks, UUtrecht.

2013

- PE Secretary of the Dutch Society for Philosophy of Science (Nederlandse Vereniging voor WetenschapsFilosofie, NVWF), which was founded in 1977.
- OA Guest editor, special issue of *Synthese* on “infinite regress”, together with Jeanne Peijnenburg.
- PP Written response to question about trends in humanities by De Groene Amsterdammer (<http://blogs.groene.nl/geesteswetenschappers/?p=965>).

- PP Columns “Scherp gesteld” in Dutch for a science magazine:
 - March 2013, “Hoera, we hebben een probleem!”, Eos, nr. 3 (2013) p. 70;
 - June 2013, “Wetenschap maakt macht”, Eos, nr. 6 (2013) p. 56;
 - October 2013, “Is wiskunde een taal?”, Eos, nr. 9 (2013) p. 58.

2012

- PP Written popular article in Dutch about optics for a science magazine,
 July – August 2012, “Zwemmen tussen regenbogen”, Eos, nr. 7/8 (2012) p. 89.
- PE Interviews about small probabilities and unlikely events,
 June 21, 2012, ‘Hoe?Zo! Radio’ on Dutch Radio 5.
- AV Academic visit,
 Jan. 2012, Faculty of Science, Università di Pisa, Italy.

2011

- AV Academic visit,
 Oct. – Dec. 2011 (Michaelmas Term), Faculty of Philosophy, Oxford, United Kingdom.
- SC *Summer School: Women in Mathematics*,
 June 6 – 10, 2011, Lorentz Center, Leiden, The Netherlands.
- PE Interviews about PhD thesis “Philosophy of Probability”,
 May 2011, Belgian Radio 1, Dutch Radio 2, and Dutch newspaper ‘NRC Next’.
- PE Student debate, Vereniging Voor Natuurkunde: “Bestaat er een fysica buiten de fysica?”
 March 10, 2011, Ghent University: De Therminal, Ghent, Belgium.

2009

- OA Member of the Department of Physics council, Hasselt University, Belgium.

2008

- PE *LOK Anesthesisten (loco-regionale kwaliteitsevaluatiegroep)*,
 Presentation “Biosensoren”,
 October 7, 2008, UHasselt, Diepenbeek, Belgium.
- PE *Science Tunnel* (multimedia science exhibit for general public),
 Design of one info-panel about DNA sensors on diamond & guiding tours,
 August 23 – October 10, 2008, Grenslandhallen, Hasselt, Belgium.
- BR Review of R. Ferraro, “Einstein’s Space-Time; An Introduction to Special and General relativity” (2nd ed.),
 2008, Physicalia, Magazine of the Belgian Physical Society.
- BR Review of R. Menzel, “Photonics. Linear and Nonlinear Interactions of Laser Light and Matter” (2nd ed.),

2008, *Physicalia*, Magazine of the Belgian Physical Society.

2007

- PE *BioMed-dag*,
Presentation: “Licht op diamant: van infrarood tot ultraviolet”,
September 20, 2007, Diepenbeek, Belgium.
- PP Written popular article in Dutch for ‘UHasselt Magazine’,
“Wat moet een fysicus met DNA? Onderzoek naar nieuwe generaties DNA-sensoren op het IMO”.
- PP Written popular article in Dutch for ‘UHasselt Magazine’,
“Een dag in de koffiekamer van ... het IMO”.

2006

- OA Member of the Faculty of Science council, Hasselt University, Belgium (2006-2009).
- PE *Dag van het onderzoek*,
Poster-presentation: “DNA op diamant: de ideale biosensor”,
November, 2006, Institute for Materials Research, UHasselt, Diepenbeek, Belgium.
- PE *IRC businessmarkt*,
Poster-presentation: “DNA op diamant”,
September 28-29, 2006, Hasselt, Belgium.
- PE *JVS – Jongeren Vereniging voor Sterrenkunde*,
Interactive presentation: “Interpretaties van de kwantummechanica”,
April 4, 2006, Belgium.

2005

- SC *3rd Advanced Practical Course on Optical Spectroscopy in Biology*,
October 10 – 14, 2005, Forschungszentrum Jülich, Jülich, Germany.
- SC *Autumn School: Molecular Biophysics*,
October 3 – 7, 2005, De Linde, Retie, Belgium.

2004

- PE *Wetenschapsfeest* with activity ‘Biomoleculen ? – Opsporing Verzocht !’,
Do-it-yourself experiments for a general audience on the principles of biosensors,
October 22 – 24, 2004, Grenslandhallen, Hasselt, Belgium.
- PE *Dag van de Technologie – Open Door Day* for a general audience with a focus on
diamond- and polymer-based biosensors,
March 14, 2004, Institute for Materials Research, LUC-Diepenbeek, Belgium.

2003

- SC *Summer School: “Hairy interfaces and Stringy Molecules”*,
August 13 – 17, 2003, University of Southern Denmark, Odense, Denmark.

- PP Written popular article in Dutch for ‘LUC-nieuws’,
“Onderzoek naar DNA op diamant in het IMO”.
- PP Interview in Belgian newspaper “Het Belang van Limburg” (p.1 and p.5),
July 28, 2003.
- PE *Dag van de Technologie* – Open Door Day for a general audience with a focus on
CVD diamond,
March 30, 2003, Institute for Materials Research, LUC-Diepenbeek, Belgium.

2001

- PP *Winner of essay competition in category “younger than 25”*; Koninklijk
Natuurkundig Genootschap (KNG) Groningen, the Netherlands:
Wenmackers, S “Einstein is dood, leve de fysica” (in Dutch), *Natuur en Techniek*
(Magazine for popular science) **7&8**, 52–53 (2001).