

## CURRICULUM VITAE of Diderik Batens

### Personalia

Full name: Diderik Sebastian Maria Batens

Born: Berlin, 15 November 1944

Nationality: Belgian

University address: Centre for Logic and Philosophy of Science, Ghent University, Blandijnberg 2, 9000 Ghent, Belgium.

From 2000 on associated to the planetoide 10327 Batens

On 4 September 2024 during WCP7 in the henceforth Holy city of Oaxaca (Mexico) created a member of the Logicians Liberation League with the title *Gladiator of Ghent* e-mail: Diderik.Batens@UGent.be.

### Education

- Doctor in Law, Ghent University, 05.07.1968.
- MA in Philosophy (“Licentiaat in de Letteren en Wijsbegeerte, groep Wijsbegeerte”), Ghent University, 02.10.1968.
- Ph.D. in Philosophy (“Doctor in de Letteren en Wijsbegeerte, groep Wijsbegeerte”), Ghent University, 21.6.1972; title: “A contribution to the logic of induction and to the logic of explanation” (supervisor: Leo Apostel).

### Present position

Emeritus Professor Ordinarius of Ghent University, Belgium (still active for research).

### Former Positions

- aspirant NFWO (research position at the Belgian National Science Foundation) (01.11.1969–31.10.1971).
- research positions (and small teaching jobs) in Philosophy, Ghent University (01.11.1971–30.09.1981).
- part time professor at the Limburg University Center (01.10.1973–31.09.1977).
- part time professor at the Free University of Brussels (01.10.1976–31.09.1990).
- full time professor at Ghent University (01.10.81–30.09.10).
- 1996–30.09.10: “gewoon hoogleraar” (ordinarius professor) Logic and Philosophy of Science, Ghent University.
- until 30.09.10: Director of the Centre for Logic and Philosophy of Science of Ghent University.

### National and International Scientific Societies

- “membre titulaire” of the International Institute of Philosophy (“Institut International de Philosophie”).
- member of the Royal Flemish Academy of Belgium for Science and the Arts (since 2002).
- member of the Belgian National Centre for Logical Investigation (“Nationaal Centrum voor Navorsingen in de Logica/Centre National de Recherches de Logique”).
- member of the Association of Symbolic Logic.
- member of the Belgian Society for Logic and Philosophy of Science (“Belgisch Genootschap voor Logica en Wetenschapsfilosofie/Société Belge de Logique et de Philosophie des Sciences”).
- former member of the Scientific Council of the Centre Leo Apostel (CLEA).
- former member of the CLEA study group Worldviews.
- honorary member of the Belgian National Committee for Logic, History and Philosophy of Science (“Nationaal Comité voor Logica, Geschiedenis en Filosofie van de Wetenschappen/Comité National de Logique, Histoire et Philosophie des Sciences”) of the Royal Flemish Academy of Belgium for Science and the Arts and its French-speaking sister Academy.

Some personal trivia: Born 15 NOV 1944, Berlin

gender: male

children: Nicholas & Isabel; grandsons: Vincent, Jaron, Titus & Floris

home address: Ottogracht 28, 9000 Gent (0487 23 5995; also Whatsapp) email (non-academic): Diderik.Batens@gmail.com

### Editorial Boards

- currently: *Logic and Logical Philosophy*, *Logique et Analyse*, *Revue Internationale de Philosophie*, *Cahiers du Centre de Logique*, *Philosophica* (former editor in chief), *Cahiers de Logique et d'Épistémologie*.
- formerly: *Algemeen Nederlands Tijdschrift voor Wijsbegeerte*, *Wijsgerig Perspectief op Mens en Maatschappij*, *Logica Universalis*.

### Research supervision: completed theses

Several dozens of MA dissertations and the following doctoral theses (some as co-supervisor):

Jean Paul Van Bendegem, Erik Weber, Joke Meheus, Wim Christiaens, Peggy Casteleyn, Guido Vanackere, Kristof De Clercq, Dagmar Provijn, Liza Verhoeven, Lieven Haesaert, Albrecht Heffer, Hans Lycke, Peter Verdée, Christian Straßer, Frederik Van de Putte, Mathieu Beirlaen.

### Service to the department, the faculty and the university

- director of the Section of Logic and Philosophy of Science (from 1981 until the reorganization of the faculty into departments).
- director of the Centre for Logic and Philosophy of Science (since its foundation in 1994).
- member of the Research Council of Ghent University (from 2006 on)
- member of the Policy Committee of the Faculty of Arts and Philosophy of Ghent University
- member of the Research Committee of the Faculty of Arts and Philosophy of Ghent University
- head of the Department of Philosophy and Moral Science (“Vakgroep Wijsbegeerte en Moraalwetenschap”) (1995–1998).
- local coordinator of the former ERASMUS-project “European Studies in logic, History and Philosophy of Science”; this programme resulted in a cooperation between departments of the universities of Helsinki, Stockholm, Saint-Andrews, Leeds, Dublin, Aarhus, London, Louvain-la-Neuve, Konstanz, Bielefeld, Paris, Nantes, Geneva, Barcelona, Madrid, Florence, Bologna, Thessaloniki and Athens and was later transformed into a SOCRATES-programme.
- founder of the “Special Master in Logic, History and Philosophy of Science” at Ghent University (1989); responsible for the transformation of this Special Master into the English curriculum “Postgraduate Studies in Logic, History and Philosophy of Science”; main organizer of the programme since 1989.
- former secretary of the board of the Faculty of Arts and Philosophy of Ghent University (1983–1985).
- former secretary of the board of examiners of the Department of Philosophy and Moral Science (several terms).
- former coordinator of the Computer Centre of the Faculty of Arts and Philosophy.
- former member of the Computer Committee of Ghent University for the Faculty of Arts and Philosophy.
- member and former member of numerous Faculty Committees (Research Committees, Financial Committees, Promotion Committees, . . .)
- member of the Committee for Scientific Integrity (CWI) of Ghent University (2010–2015)

### Professional service

- former president and former vice-president of the “Belgian National Centre for Logical Investigation” (“Nationaal Centrum voor Navorsingen in de Logica/Centre National de Recherches de Logique”).

- former co-assessor of the board of the International Institute of Philosophy (“Institut International de Philosophie”).
- former member of the “Scientific Committee: Philosophy” of the Flemish Fund for Scientific Research.
- former member of the “Scientific Committee: Philosophy” of the “Fonds National de la Recherche Scientifique”.
- president of the “Joint International Commission” of the “International Union of History and Philosophy of Science” (1985–1986).
- representative for Belgium for the Division of Logic, Methodology, and Philosophy of Science at the general assembly in Moscow (1987) and at the general assembly in Beijing (2007).
- former vice-chairman of the Belgian Society for Logic and Philosophy of Science.
- former secretary of the Belgian National Committee for Logic, History and Philosophy of Science (“Nationaal Comité voor Logica, Geschiedenis en Filosofie van de Wetenschappen/Comité National de Logique, Histoire et Philosophie des Sciences”) of the Royal Flemish Academy of Belgium for Science and the Arts and its French-speaking sister Academy.
- member of the Research Review Committee of Dutch Philosophy Departments (interviews Leiden, 5–7 November 2012).
- member of the jury of numerous PhD-theses, both in Belgium and abroad.
- member of the jury for several prizes and awards.
- was a referee for a large number of international conferences, international journals (*Studia Logica*, *Journal of Philosophical Logic*, *The Review of Symbolic Logic*, *Journal of Applied Non-Standard Logics*, *Logique et Analyse*, *Synthese*, *Notre Dame Journal of Formal Logic*, *Reports on Mathematical Logic*, *Bulletin of the Section of Logic, Mind*, *The Philosophical Quarterly*, *Theoria*, *Axioms*, ...), foreign research funds, foreign promotion committees, ...

### **Service to the community**

- occasional lectures on philosophy in (non-university) schools of higher education
- popularizing lectures on logic, philosophy of science, epistemology, humanism, ... for non-academic audiences (Humanistisch Verbond, School voor Comparatieve Filosofie Antwerpen, Elckerik, ...).
- interviews (for radio, news magazines, ...) on the same topics.
- ...

### **Awards**

- CRB-Fellow of the Belgian-American Educational Foundation (1972)
- Belgian Francqui Chair (2003-2004); see <http://logica.ugent.be/dirk/francqui.html> for an overview of the lectures.

### **Organization of Scientific Meetings**

#### **Member of the organizing committee**

- “Communicatie tussen wetenschapssystemen”, Brussels, 01.03.1978–03.03.1978 (sole organizer).
- “Conference on Philosophical Logic”, Ghent, 10.10.1985–12.10.1985 (sole organizer).
- “6th Joint International Conference on the History and Philosophy of Science” of the “International Union of History and Philosophy of Science”, Ghent/Brussels, 25.08.1986–30.08.1986 (with Jean Paul Van Bendegem).
- Symposium “Cognition and Methodology of Science” at CC20, Ghent, December 1987 (sole organizer).
- “Problèmes Moraux: Vie Privée, Vie Publique—Private and Public Morality”, Entretiens de l’Institut International de Philosophie (International Institute of Philosophy), Ghent/Brussels/Liège, 01.09.1992–05.09.1992 (with Paul Gochet and Jean Ladrière).
- “Conference on Philosophical Logic—Including a Workshop on Inconsistent Structures”, Ghent, 15.12.1994–16.12.1994 (sole organizer).
- Workshop “Wetenschappelijke Ontdekking”, Ghent, 16.05.1995–17.05.1995 (sole organizer).

- “First World Congress on Paraconsistency”, Ghent, 30.07.1997–02.08.1997 (Congress Chair and main organizer; other members of the organizing committee: Chris Mortensen, Graham Priest, Jean Paul Van Bendegem).
- “Second Flemish-Polish Workshop on the Ontological Foundations of Paraconsistency”, Ghent, 27.05.2000–29.05.2000 (main organizer).
- “Fourth Flemish-Polish Workshop on the Ontological Foundations of Paraconsistency”, Ghent, 9.04.2001–11.04.2001 (main organizer).
- “Workshop on Paraconsistent Logic”, as part of the 14th European Summer School in Logic, Language and Information, Trento, Italy, 05.08.2002–09.08.2002 (with João Marcos and Walter Carnielli).
- Workshop “Data, Logic and Inconsistency 2011 – DALI 2011”, 31 August 2011, at “22nd International Conference on Database and Expert Systems Applications – DEXA ’11” (August 29 – September 2, 2011), IRIT, Université Paul Sabatier, Toulouse, France.
- “Workshop on Inconsistency and Scientific Pluralism”, Ghent, 8 November 2017.

**Member of the Program Committee, Congress Committee, etc. (from 1995 on)**

- International Congress “Einstein meets Magritte: An Interdisciplinary Reflection on Science, Nature, Human Action and Society”, 29.05.1995–03.06.1995.
- “The First International Conference Smirnov Readings”, Moscow, Institute of Philosophy of the Russian Academy of Sciences, 18.03.1997–21.03.1997.
- “XXth International Congress of History of Science”, International Union of History and Philosophy of Science, Liège, 20.07.1997–26.07.1997.
- “International Congress on Discovery and Creativity”, Ghent, 14.05.1998–16.05.1998.
- “Stanisław Jaśkowski Memorial Symposium”, Torun, Poland, 15.07.1998–18.07.1998.
- “The Second International Conference Smirnov Readings”, Moscow, Institute of Philosophy of the Russian Academy of Sciences, 18.05.1999–20.05.1999.
- “Second World Congress on Paraconsistency”, Juquehy, Brazil, 08.05.2000–12.05.2000.
- “Third Flemish-Polish Workshop on the Ontological Foundations of Paraconsistency”, Brussels, 12.10.2000–14.10.2000.
- “The Third International Conference Smirnov Readings”, Moscow, Institute of Philosophy of the Russian Academy of Sciences, 24.05.2001–27.05.2001.
- IJCAI-01 Workshop on “Inconsistency In Data And Knowledge”, held at the International Joint Conference on Artificial Intelligence (IJCAI-2001), Seattle, 06.08.2001.
- International Congress “Causation and Explanation in Natural and Social Sciences”, Ghent, 15.05.2002–18.05.2002.
- “Second International Workshop Computational Models of Scientific Reasoning and Application” (CMSRA II), Monte Carlo Resort, Las Vegas, Nevada, USA, 24.06.2002–27.06.2002.
- International workshop “The Dynamics of Reasoning in the Sciences: Adaptive and Interrogative Perspectives”, Ghent, 17.10.2002–19.10.2002.
- ‘International Workshop “Problem Solving in the Sciences: Adaptive and Interrogative Perspectives”, Brussels, 08.05.2003–10.05.2003.
- “The Fourth International Conference Smirnov Readings”, Moscow, Institute of Philosophy of the Russian Academy of Sciences, 28.05.2003–30.05.2003.
- “Third World Congress on Paraconsistency”, Toulouse, 28.07.2003–31.07.2003.
- International Workshop “Computational Models of Scientific Reasoning and Applications” (CMSRA III), Buenos Aires, Argentina, 14.09.2003–15.09.2003.
- 15th Belgian-Dutch Conference on Artificial Intelligence (BNAIC’03), Nijmegen, The Netherlands, 23.10.2003–24.10.2003.
- International Conference “Philosophical Logic meets Mathematical Logic: from Classical to Quantum”, Brussels, 05.02.2004–07.02.2004.
- International workshop “Patterns of Scientific Reasoning: Adaptive and Interrogative Perspectives”, Ghent, 06.05.2004–08.05.2004.
- “European Computing and Philosophy Conference” (ECAP), Pavia, Italy, 03.06.2004–05.06.2004.

- International Congress “Thought Experiments Rethought”, Ghent, 24.09.2004–25.09.2004.
- International Congress “Model-Based Reasoning in Science and Engineering: Abduction, Visualization and Simulation”, Pavia, Italy, 16.12.2004–18.12.2004.
- “International Conference on Service Assurance with Partial and Intermittent Resources” (SAPIR 2005), Lisbon, Portugal, 21.07.2005-23.07.2005.
- “Model-Based Reasoning in Science and Medicine” (MBR’06), Guangzhou (Canton), P. R. China, 3–5 July 2006.
- “Induction: Historical and Contemporary Approaches. 5th Ghentian Conference in the Philosophy of Science”, Ghent, 8–10 July 2008.
- “DALI 2011” at DEXA 2011, Toulouse, 29.08.2011–02.09.11.
- “Logic and Cognition”, Poznan, 17–19 May 2012.
- “Language and metalanguage, logic and meta-logic. Revisiting Tarski’s hierarchy”, Louvain-la-Neuve, 19-20 May 2016.

## Stays abroad

### Long Stays

- 01.09.1972–30.06.1973: Postdoctoral Fellow at the Department of Philosophy of the University of Pittsburgh, Pa., USA, (CRB Fellowship of the Belgian American Educational Foundation).
- 01.02.1987–15.04.1987: visiting fellow at the Center for Philosophy of Science of the University of Pittsburgh.
- 01.02.2000–31.03.2000: sabbatical leave at the Philosophy Department of The University of Queensland, Brisbane, Australia.

### Short Stays

- 01.06.1977–13.06.1977: Departments of Philosophy of the University of Jeruzalem, the University of Beer-sheva and the University of Tel-Aviv).
- 07.11.1982–11.11.1982: Department of Philosophy of the University of Pittsburgh.
- 17.10.1984–27.10.1984: Department of Logic of the Jagiellonian University, Krakow, Poland.
- 17.10.1988–24.10.1988: Technical University Budapest, Hungary.
- 17.05.1990–22.05.1990: Department of Philosophy, University of Florence, Italy.
- 04.05.1993–10.05.1993: Department of History and Philosophy of Science, Aristoteles University, Thessaloniki, Greece.
- 17.10.1994–24.10.1994: Department of Logic of the Jagiellonian University, Krakow, Poland.
- 25.10.1994–26.10.1994: Institute for Logic, University of Warschau, Poland.
- 17.03.1997–23.03.1997: Logic Group, Russian Academy for the Sciences, Moscow, Russia.
- 31.01.1999–06.02.1999: Department of Logic and Metaphysics, University of Saint-Andrews.
- 03.03.1999–07.03.1999: Division of History and Philosophy of Science, University of Leeds, UK.
- 10.04.1999–17.04.1999: Department of Philosophy, University of Bologna, Italy.
- 17.05.1999–23.05.1999: Logic Group, Russian Academy for the Sciences, Moscow, Russia.
- 14.06.2000–19.06.1999: Logic Group, Russian Academy for the Sciences, Moscow, Russia.
- 06.03.2001–13.03.2001: Department of Logic, N. Copernicus University, Torun, Poland.
- 11.04.2002–21.04.2002: Department of Philosophy, University of Bologna, Italy.
- 27.05.2002–02.06.2002: Institute for Philosophy, Kotarbinski University, Zielona Gora, Poland.
- 02.09.2004–06.09.2004: Institute for Philosophy, Kotarbinski University, Zielona Gora, Poland.
- 07.09.2004–08.09.2004: Department of Logic, University of Łódź, Poland.
- 15.03.2008–22.03.2008: Department of Philosophy, University of Bologna, Italy.
- 08.08.2009–22.08.2009: Department of Philosophy, Universidad Nacional Autónoma de México.
- 26.10.2018–14.11.2018: University of Kyoto, Japan Advanced Institute of Science and Technology (JAIST), Keio University (Tokyo) and Tokyo Institute of Technology sponsored by JAIST.
- 30.05.2019–05.06.2019: Department of Philosophy, Universidad Nacional Autónoma de México.

## Lectures (from 1977 on)

### Invited lectures for research groups and scientific societies (in English)

- “Static and dynamic dialectical logics”, Center for History and Philosophy of Science, Pittsburgh, 09.11.1982.
- “Two semantically motivated enrichments of relevant logics”, Department of History and Philosophy of Science, Krakow, 23.10.1984.
- “Incommensurability is not a treat to the rationality of science”, Department of History and Philosophy of Science, Krakow, 23.10.1984.
- “Dynamic dialectical logics”, Department of Logic, Krakow, 24.10.1984.
- “Dynamic paraconsistent logics”, Center for History and Philosophy of Science, Pittsburgh, 25.02.1987.
- “Do we need a hierarchical model of science?”, 27th Annual Lecture Series of the Center for Philosophy of Science, Pittsburgh, 29.02.1987.
- five lectures at the Technical University of Budapest on rationality, contextuality, theory ladenness and paraconsistent logic, 17.10.1988–24.10.1988.
- two seminars on relevant logics and paraconsistent logics, Department of Philosophy, University of Florence, 17.05.1990–22.05.1990.
- “What a wonderful world—if logical and epistemological absolutism is given up”, Department of History and Philosophy of Science, Aristoteles University, Thessaloniki, 05.05.1993.
- two seminars on paraconsistent logics and the handling of inconsistencies, Department of Philosophy, University of Bologna, 10.04.1999–17.04.1999.
- “The Theory of the Process of Explanation Generalized to Include the Inconsistent Case”, School of Philosophy, University of Queensland, Brisbane, Australia, 25.02.2000.
- “Extending the Realm of Logic”, Philosophy Department, University of Adelaide, Australia, 10.03.2000.
- “Tableau Methods for Inconsistency-Adaptive Logics”, Automated Reasoning Group, Research School Of Information Sciences And Engineering, Australian National University, Canberra, Australia, 13.03.2000.
- “Adaptive logics and their use for understanding actual reasoning (On logics you always wanted, but did not dare to hope for)”, Department of Philosophy, Tilburg University, 22.02.2001.
- “Dynamic proofs”, Department of Philosophy, University of Bologna, 18.04.2002.
- “Who Said There is no Logic of Induction?”, Department of Philosophy, University of Bologna, 20.04.2002.
- “Problem solving and Adaptive Logics. A logico-philosophical Study: The problem, the claim, and the plan”, inaugural address for the Franqui Chair, Brussels, 19.02.2003.
- “The Use of Adaptive Logics for Explicating Scientific Problem Solving”, Department of Philosophy, University of Rotterdam, 24.10.2003.
- “Adaptive Logics – Basic and Recent Results”, Logic Group, University of Łodz, 08.11.2004.
- “The Plot behind Adaptive Logics and its Relations to the Research at the Ghent Centre”, Logic & Philosophy of Science in Belgium, Leuven, 20–21.05.2005, Belgian Society for Logic and Philosophy of Science.
- “Science and contextual knowledge”, Colloquium on Nuclear waste management and the social scope of its decision-making, Ghent, 16.09.2005, Ghent University and the Belgian Nuclear Research Centre.
- “Adaptive Logics”, Zlot Filozoficzny (Philosopher’s Rally), 19–21 May 2006, Opole University, Opole (Poland)
- “Adaptive Logics. The Logics You Always Wanted (But Thought Impossible)”, Philosopher’s Rally, 26–27 April 2007, Rijksuniversiteit Groningen, Groningen.
- “Adaptive Logics. Handling the Bulk of Human Reasoning”, 15.03.2008, Department of Philosophy, University of Bologna.
- “A formal Approach to Methodology, Illustrated by adaptive logics of abduction and of inductive generalization” (together with Joke Meheus), 17 August 2009, Programa en Ciencia e Ingeniería de la Computación, Universidad Nacional Autónoma de México.
- “Adaptive Logics: Origin, Aims and Basics. Part I”, 30 October 2018, Kyoto University, Japan.

- “Adaptive Logics: Origin, Aims and Basics. Part II”, 31 October 2018, Kyoto University, Japan.
- “Neutralizing a theory without affecting the rest of our knowledge”, 2 November 2018, Kyoto University, Japan.
- “Two Adaptive Mathematical Theories: Comments on their Mathematical Interest”, 5 November 2018, Japan Advanced Institute of Science and Technology (JAIST), Japan.
- “On the Ontological Interest of Adaptive Mathematical Theories”, 19 December 2018, OLOFOS, “Formal methods towards scientific ontology”, Université Catholique de Louvain, Louvain-la-Neuve.
- *Curso corto* “An introduction to adaptive logics”, 30–31 May 2019, Postgrado en Filosofía de la Ciencia, Instituto de Investigaciones Filosóficas, Universidad Nacional Autónoma de México.
- e-lecture “A logic’s proper semantics”, 6 December 2021, Logic and Metaphysics workshop of City University of New York.
- “Sense and Use of Non-Dialetheic Paraconsistency. With an example that has applications” (lectures by Peter Verdée (UCLouvain), Andrew Tedder (RUB Bochum), Pierre Saint-Germier (UCLouvain), Pilar Terres (UCLouvain), Joke Meheus (UGent) Pawel Pawlowski (UGent), and Diderik Batens (UGent)), 25 May 2022, *Logic Day 2022* of the Centre for logic and Philosophy of science of Ghent University, Ghent, Belgium.
- “The dynamic proofs of defeasible logics”, 12 September 2022, Warszawa, Poland.
- “A Unifying Program for Defeasible Reasoning Forms: Adaptive Logics”, 15 September 2022, Uniwersytet Warmińsko-Mazurski w Olsztynie, Olsztyn, Poland.
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#### Invited lectures at international conferences

- “In defence of Carnap’s program in inductive Logic”, Société Suisse de Logique et de Philosophie des Sciences, Brigue, 7.10.1978.
- “Progress, rationality and the philosophy of science”, *International Colloquium: Dialektik des Fortschritts*, Brussels, 17.01.1980.
- “Meaning, acceptance, and dialectics”, *Fourth Joint International Conference on the History and Philosophy of Science*, Blacksburg, USA, 02.11.1982.
- “Dynamic dialectical logics as a tool to deal with and partly eliminate unexpected inconsistencies”, *Colloquium on the Logic of Discovery and the Logic of Discourse*, Ghent, 15.12.1982.
- “Some remarks on the structural similarity between music and logic”, *Colloquium: Reason, Music and Emotion*, Ghent, 13.12.1982.
- “Dynamic dialectical logics”, *5th Joint International Conference on the History and Philosophy of Science*, Veszprém, 16.08.1984.
- “Inconsistency adaptive logics—or, how a computer can handle inconsistent data”, *Logic Colloquium*, University of San José, 20.03.1987.
- “Against Global Paraconsistency”, *International Conference: Dialectic and Inconsistency in Knowledge Acquisition*, Budapest, 15.05.1989–17.05.1989.
- “Realism, contextual problem-solving, and adaptive logics”, *Rationality and Realism—McMullin Workshop*, Leuven, 11.3.95.
- “Paraconsistent logics”, *British Society for the Philosophy of Science Conference*, Leeds, 02.09.1995.
- “Comment on John Cooper: ‘The Animal(s) within Us: Plato and the Stoics’”, *Inaugural Meeting of the Athens-Pittsburgh Symposium in the History and Philosophy of Science and Technology*, Delphi, Greece, 28.05.1996.
- “On the Epistemological Justification of Tolerance and Pluralism”, *La Philosophie et la Tolérance*, Rabat, Marocco, 10.10.1996.
- “A dynamic semantics for inconsistency-adaptive logics”, *First Smirnov Readings*, Moscow, Russian Academy for the Sciences, 19.03.1997.
- “A survey of adaptive logics”, *First World Congress on Paraconsistency*, Ghent, 01.08.1997.
- “In defense of the rationality of creativity”, *International Congress on Discovery and Creativity*, Ghent, 14.05.1998.
- “Towards the Unification of Inconsistency Handling Mechanisms”, *Stanisław Jaskowski Memorial Symposium: Parainconsistent Logic, Logical Philosophy, Mathematics & Informatics*, Torun,

15.08.1998.

- “Alternative Logics for Methodology and epistemology”, *Alternative Logics: do sciences need them?*, organized by the ‘Académie Internationale de Philosophie des Sciences’, Salzburg, 12.05.1999.
- “Zero Logic adding up to Classical Logic”, *Second Smirnov Readings*, Moscow, 19.05.1999.
- “On the Remarkable Correspondence between Paraconsistent Logics, Modal Logics, and Ambiguity Logics”, *Second World Congress on Paraconsistency*, Juquehy, Brazil, 8.05.2000.
- “Dynamic Proof Theories (the Adaptive Logics Programme)”, *4th Quadrennial International Fellows Conference*, Bariloche, Argentina, 20.06.2000.
- “Aspects of the Dynamics of Discussions and Logics Handling Them”, *The Third Smirnov Readings*, Moscow, 26.05.2001.
- “Dynamic goal-directed proofs as criteria for final derivability in adaptive logics”, *Le concept de preuve et les développements contemporains de la logique*, Lille, France, 24.05.2002.
- “On a partial decision method for dynamic proofs”, *Workshop: Paraconsistent Computational Logic*, Copenhagen, Denmark, 27.07.2002.
- “A Paraconsistent Proof Procedure Based on Classical Logic”, *Third World Congress on Paraconsistency*, Toulouse, 28.07.2003.
- “Part of Vienna Circle Programme Revised: A Formal Philosophy of Science”, *5th Quadrennial International Fellows Conference*, Rytró, Poland, 27.05.2004.
- “A diagrammatic proof search procedure as part of a formal approach to problem solving”, International Congress “Model-Based Reasoning in Science And Engineering: Abduction, Visualization, And Simulation”, Pavia, Italy, 18.12.2004.
- Tutorial on “Adaptive Logics” (with Joke Meheus), *1st School on Universal Logic*, Montreux, Switzerland, March 26–30 2005.
- “The Standard Format for Adaptive Logics as a Step towards Universal Logic”, *1st World Congress on Universal Logic*, Montreux, Switzerland, 31 March – 3 April 2005.
- “Adaptive Logics: Broadening the Domain of Logic”, International Congress “Model-Based Reasoning in Science and Medicine” (MBR’06), Guangzhou (Canton), P. R. China, 3–5 July 2006.
- “Standard of deduction *vs.* useful instruments. A moderate empirical approach”, International Conference *Logique et Réalité*, Namur–Louvain-la-Neuve (Belgium), 7–8 November 2007.
- “Adaptive  $C_n$ -Logics”, *CLE 30/ XV EBL / XIV SLALM*, Paraty, Brazil, 11-17 May 2008.
- “Logics for Qualitative Inductive Generalization. Dedicated to Newton da Costa’s 80th Anniversary”, International Event *Science, Truth, and Consistency* organized by Centro de Lógica, Epistemologia e História da Ciência and by the Académie Internationale de Philosophie des Sciences, Campinas (Brazil), 23–28 August 2009.
- “Adaptive Logic as a Necessary Tool for Relative Rationality” (22.09.10), International Conference *Logic, Reasoning and Rationality*, 20–22 September 2010, organized by the Centre for Logic and Philosophy of Science of Ghent University.
- “Adaptive Logics: the Standard Format and the Defeasible Handling of Inconsistency” (04.07.11), Logico-Philosophical Conference  $\exists$ N $\forall$  ET NOMIN $\forall$ , Gdańsk University, Poland, 2–8 July 2011.
- “A Pedagogically Useful Relevant Implication and Some General Lessons” (27 September 2012), Toruń, Poland, September 27–29, 2012.
- “Spoiled for Choice?” (1 November 2012), Logic: Between Semantics and Proof Theory. A Workshop in Honor of Prof. Arnon Avron’s 60th Birthday, Tel-Aviv, Israel, 1–2 November 2012.
- “On Combining Defeasible Methods in Applications” (16 September 2012), Congress on Logic and Philosophy of Science (CLPS13), Ghent, Belgium, 16–18 September 2013.
- “Some adaptive contributions to Logics of Formal Inconsistency” (17 Februari 2014), 5th World Congress on Paraconsistency, Kolkata, India, 13–17 February, 2014.
- “Tutorial on Inconsistency-Adaptive Logics” (16 Februari 2014), 5th World Congress on Paraconsistency, Kolkata, India, 13–17 February, 2014.
- “Paraconsistent Logic and Reasoning” (round table with Walter Carnielli, Can Başkent, Jean-Yves Béziau, and Zach Weber), 5th World Congress on Paraconsistency, Kolkata, India, 13–17 February, 2014.
- “Transitory and Permanent Applications of Paraconsistency” (keynote 11 June 2014), Paraconsistent Reasoning in Science and Mathematics, Munich Center for Mathematical Philosophy, LMU,



- München, Germany, 11–13 June 2014.
- “On Pitfalls of Defeasible Methods” (11 July 2014), Trends in Logic XIV,  $\exists$ ntia et Nomin $\forall$  Workshop, Ghent, Belgium, 8–11 July 2014.
  - “Inconsistencies in the Sciences: Some Proposals for the Reasoning Aspect”, Workshop Inconsistencies in Scientific Reasoning, Ghent, Belgium, 24 October 2014.
  - “Adaptive Fregean Set Theories. A fascinating journey” (9 September 2015)  $\exists$ ntia et Nomin $\forall$  Workshop, Krakow, Poland, 9–11 September 2015.
  - “Adaptive Mathematical Theories: Some properties and teachings”, Swamplandia 2016. Metaarithmetical results and their philosophical meaning, Ghent, 30 May–1 June 2016.
  - “Pluralism in Scientific Problem Solving. Why Inconsistency is no Big Deal” (5.09.16), Workshop: The Place of Inconsistent science in Scientific Pluralism, Universidad Nacional Autónoma de México, September 5–6, 2016.
  - “Logic and Metaphysics: An Unhappy Marriage Of A Schlemiel And A Swindler” (8.09.16), Workshop: Logical Space: Logical and Metaphysical Issues, Universidad Nacional Autónoma de México, September 8–9, 2016.
  - “The natural place of paraconsistent logics within a pluralist logical landscape” (08.11.18), Logic, Language, and Ontology: A workshop in honor of the 70th birthday of Toshiharu Waragai, Keio University, Tokyo, November 7–8, 2018.
  - “Why, not eschewing inconsistent theories, one should try to eliminate inconsistencies?” (03.06.19), Understanding Defectiveness in the Sciences, Universidad Nacional Autónoma de México, June 3–4, 2019.
  - “LP and (material) Dialetheism, a bewildering love story” (25.11.19), Workshop: The Logic of Paradox, after 40 years, Ruhr-Universität Bochum, 25–27 November, 2019.
  - “Creativity in logic as content-guided” (12.12.19, keynote), Creativity 2019. First World Congress of the Brazilian Academy of Philosophy in Honor of Newton da Costa’s 90th Birthday. Rio de Janeiro, Brazil, 8-13 December 2019.
  - “A Unifying Program for Defeasible Reasoning Forms: Adaptive Logics.” (27.09.2021), *Logica 2021*, Hejnice Monastery, Hejnice (Czechia), 27.9. - 1.10. 2021
  - “Scientific problem solving: a plea for a content-guided and formal approach.” (15.11.2021), *Institut International de Philosophy: conference “Scientific knowledge”*, Kraków, Poland, 14–17.11.2021.
  - “A unified framework for handling defective knowledge.” (10.04.2022), Orthodox Academy of Krete : workshop “*Logic(s) in Defective Sciences;*”, 7th World Congress and School on Universal Logic, Platanias, Krete, Greece 1–11.04.2022.
  - “ On non-dialetheic paraconsistency”, Sixth World Congress of Paraconsistency in Toruń (WCP6) and Second Stanisław Jaśkowski Memorial Symposium, 5-8 September 2022, Torun, Poland.
  - “A Unifying Program for Defeasible Reasoning Forms: Adaptive Logics” (06-10.02.2023; five 90 minute lectures), *SPLogIC – International School of Logic - CLE*, Unicamp (Brazil), 06.02.2023 - 17.02. 2023.

#### **Lectures at international conferences with peer refereeing of the abstract**

- “An approach to verisimilitude in terms of meaning-relations”, *International Workshop on the Cognitive Viewpoint*, Ghent, 25.3.1977.
- “Relevant logics based on a simple type of semantics”, *Conference on Philosophical Logic*, Ghent, 11.10.1985.
- “Nomological Implication”, *8th International Congress of Logic, Methodology and Philosophy of Science*, Moscow, 18.8.1987.
- “The structure of our knowledge system”, *CC20*, Ghent, 8.12.87.
- “Inconsistency-adaptive logics and the foundation of non-monotonic logic”, *Conference on Philosophical Logic—Including a Workshop on Inconsistent structures*, Ghent, 15.12.1994.
- “Embedding PIL (positive logic plus excluded middle) and most sentential extensions of it in Classical Logic.”, *First World Congress on Paraconsistency*, Ghent, 31.07.1997 (with Natasha Kurtonina).
- “Linguistic and Ontological Measures for Comparing the Inconsistent Parts of Models”, *First*

- Flemish-Polish Workshop on the Ontological Foundations of Paraconsistency*, Torun, Poland, 28.10.1999.
- “Is the World Consistent?”, *First Flemish-Polish Workshop on the Ontological Foundations of Paraconsistency*, Torun, Poland, 30.10.1999.
  - “Ontological and epistemic presuppositions in handling inconsistencies. In defence of general gluts”, *Second Flemish-Polish Workshop on the Ontological Foundations of Paraconsistency*, Ghent, 29.04.2000.
  - “A tableau method for inconsistency-adaptive logics”, *Tableaux 2000*, Saint-Andrews, Scotland, 06.07.2000.
  - “A Strengthening of the Rescher-Manor Consequence Relations”, *Third Flemish-Polish Workshop on the Ontological Foundations of Paraconsistency*, Brussels, 12.10.2000.
  - “Induction in the presence of inconsistency”, *Fourth Flemish-Polish Workshop on the Ontological Foundations of Paraconsistency*, Ghent, 09.04.2001.
  - “Adaptive Logics: the Basics and a Bit More”, *Flemish-Polish Workshop on Adaptive Logics, Erotetic Logics and their Applications to the Philosophy of Science*, Zielona Gora, 15.11.2001.
  - “Generating Potential Explanations by Goal Directed Proofs”, *International Congress “Causation and Explanation in Natural and Social Sciences*, Ghent, 16.05.2002.
  - “Some computational aspects of inconsistency-adaptive logics”, *Workshop on Paraconsistent Logic*, Trento, Italy, 07.08.2002.
  - “Narrowing Down Suspicion in Inconsistent Premise Sets”, *International Workshop: The Dynamics of Reasoning in the Sciences: Adaptive and Interrogative Perspectives*, Ghent, 17.10.2002.
  - “The Basic Inductive Schema and Its Relation to Falsification, Compatibility, and Conjecture”, *International Workshop: Problem Solving in the Sciences: Adaptive and Interrogative Perspectives*, Brussels, 10.05.2003.
  - “Adaptive Logics of Non-probabilistic Induction”, *12th International Congress of Logic Methodology and Philosophy of Science*, Oviedo, Spain, 10.08.2003.
  - “A Formal Approach to Problem Solving”, Buenos Aires, International Workshop “Computational Models of Scientific Reasoning and Applications” (CMSRA III), Buenos Aires, Argentina, 14.09.2003.
  - “How Adaptive Logics Accommodate a Formal Approach to Problem Solving”, Zielona Gora, “Flemish-Polish Workshop on the Dynamics of Reasoning”, 20.11.2003.
  - “An Intuitionistic and a Relevant Goal-Directed Proof Theory: a Further Study in Proof Heuristics”, *International Workshop: Patterns of Scientific Reasoning: Adaptive and Interrogative Perspectives*, Ghent, 06.05.2004 (with Dagmar Provijn)
  - “How Procedures Lead to Logics that Cannot be Defined by Standard Means”, *International Workshop: Patterns of Scientific Reasoning: Adaptive and Interrogative Perspectives*, Ghent, 08.05.2004
  - “Formal Problem Solving Processes”, International Conference “Abduction and the Process of Scientific Discovery”, 4–6 May 2006, University of Lisbon, Lisbon (Portugal).
  - “Content-guidance in the choice of a logic” (with Peter Verdée), *Studia Logica International Conference “Towards Mathematical Philosophy” (Trends in Logic IV)*, 1–4 September 2006, Torun (Poland).
  - “Content-Guidance in Formal problem-Solving Processes” (10 August 2007), “13th International Congress of Logic, Methodology and Philosophy of Science”, 9-15 August 2007, Beijing, China, organized by the Division of Logic, Methodology and Philosophy of Science of the International Union of History and Philosophy of Science.
  - “Static versus Dynamic proofs”, *2nd World Congress on Universal Logic*, Xi’an, China, 20-22 August 2007.
  - “Counterfactual reasoning” *What if? So What? Interdisciplinary Approaches to Counterfactual Reasoning*, Rotterdam, 17–20 December 2007.
  - “Adaptive Logics for Qualitative Inductive Generalization”, *Induction: Historical and Contemporary Approaches* 5th Ghentian Conference in the Philosophy of Science, Ghent, 8–10 July 2008.
  - “New Arguments for Adaptive Logics as Unifying Frame for the Defeasible Handling of Inconsistency”, *The Fourth World Congress of Paraconsistency*, Melbourne, Australia, 13-18 July 2008.

- “Negations with a Contextual Meaning” (24.10.10), Special session on *Negation* at the *World Congress and School on Universal Logic III*, Lisboa, Portugal, 18–25 October 2010.
- “The consistency of Peano arithmetic: Why bother?” (23.07.11), *14th Congress Of Logic, Methodology And Philosophy Of Science*, Nancy, France, 19–26 July 2011.
- “A General Recipe for Devising Adaptive Logics for Theoretical Abduction”, (7.05.2015), *Explanation and Abduction: Logico-Philosophical Perspectives*, Ghent, 7–8 May 2015.
- “A piece of logical handicraft illustrating a philosophical position”, (26.06.15), *5th World Congress and School on Universal Logic*, Istanbul, Turkey, 20–30 June 2015.
- “Past, present and future of inconsistent mathematics”, (28.06.15), (round table with Itala Lofredo D’Ottaviano, JC Beall and Ross Brady), Workshop on Inconsistent Mathematics at the *5th World Congress and School on Universal Logic*, Istanbul, Turkey, 20–30 June 2015.
- “An Adaptive Approach to Frege’s Set Theory” (08.08.15), *15th Congress Of Logic, Methodology And Philosophy Of Science*, Helsinki, Finland, 3–8 August 2015.
- “Role and teachings of unconscious ampliative steps. Notes on the methodology of ampliative reasoning” (19.08.17), *Ampliative Reasoning in the Sciences*, Ghent, 18–19 May 2017.
- “A case study of logical practice: local triviality” (28.09.2018), Practice-based Approaches in Science, Mathematics, and Logic. Challenges and Prospects (PASML2018), Brussels, 28–29 September 2018.
- “Handling of defectiveness in a content-guided manner” (09.08.2019), Symposium “From contradiction to defectiveness to pluralism”, *16th International Congress on Logic, Methodology and Philosophy of Science and Technology*, Prague, Czech Republic, 5–10 August 2019.
- “A Logic’s Proper Semantics.” (22.04.2022), *Logic4Peace, fundraising online Logic event for Peace*, hosted by *Universiteit van Amsterdam*, 22–23 April 2022.
- “Adaptive logics, a quick intro and survey”, Batens Symposium, 4 September 2024, at the *7th World Congress on Paraconsistency (WCP7)*, Oaxaca (Mexico), 2–6 September 2024.

#### Lectures in Dutch or French (incomplete)<sup>1</sup>

- “Atheïsme en Agnosticisme”, Studiekring Vrij Onderzoek, Brussel, 01.12.1977. (I)
- “Problemen bij de verantwoorde wijziging van ethische overtuigingen”, NFWO-contactgroep Ethische Rationaliteit, Ghent, 03.12.1977.
- “Problemen rond de inductie”, Werkgroep wetenschappen, Ghent, 23.2.1978. (I)
- “Cognitieve Rationaliteit en Ethische Rationaliteit”, NFWO-contactgroep Ethische Rationaliteit, Ghent, 03.11.1977. (I)
- “De twee niveaus van de pragmatiek”, Werkgroep pragmatiek, Ghent, 03.05.1978.
- “Is de wetenschap een irrationeel bedrijf?”, Limburgs Universitair Centrum, 07.06.1978. (I)
- “Een filosofische fundering van de vrijzinnigheid”, Willemfonds, Ghent, 20.09.1979. (I)
- “Marcuse’s positivismekritiek”, Colloquium in Memoriam Herbert Marcuse, Ghent, 23.02.1980. (I)
- “Perceptie en theoriegebondenheid in de recente methodologie”, C&C, Werkgroep Observatie, 26.03.1980.
- “De ideale muziekgeschiedschrijving” (panel), Centrum voor Muziek & BRT3, Brussels, 24.04.1980. (I)
- “Désiré Mercier—filosofie en wetenschap”, Europalia, Brussels, 09.10.1980. (I)
- “De filosofische grondslagen van de notie Vrij Onderzoek”, Studiekring VO, Brussel, 17.11.1980. (I)
- “Filosofie en Wetenschap” Permanente Vorming, VUB, Brussel, 22.04.1981. (I)
- “Logique et Contradiction; quelques développements récents”, Société Belge de Philosophie (Belgian Society for Philosophy), Brussels, 28.04.1981. (I)
- “Atheïsme en religiositeit”, Godsdienstcentrum RUG, Ghent, 19.10.1981. (I)
- “Vrijzinnigheid en dogma”, Congres van de Oudervereniging voor Moraal, Aalst, 27.02.1982. (I)
- “Recente ontwikkelingen in de wetenschapsfilosofie en hun implicaties voor de logica en de beslissingstheorie”, Centre for Empirical Epistemology, Brussels, 14.03.1984.
- “Wetenschappelijk onderzoek en vrijzinnige waarden”, Brussels, Uitstraling VUB, 24.10.1985. (I)

<sup>1</sup>Meaning of the signs: (I): invited lecture, (A): lecture at a conference with peer refereeing of the abstracts.

- “Geschiedenis van en huidige stand van zaken in de inductieve logica”, Centre for Empirical Epistemology, Brussels, 06.03.1986.
- “Kurt Gödel en de Wetenschappelijke Zekerheid”, Ghent, Symposium: Nieuwe Visies in de Wetenschap, Alumni RUG, 19.03.88. (I)
- “Wetenschappelijke Revoluties”, Ghent, Tweede Symposium: Nieuwe Visies in de Wetenschap, Alumni RUG, 18.02.89. (I)
- “Verlichting ondanks de Verlichting”, Colloquium “De Actualiteit van de Verlichting en de Franse Revolutie”, Sectie wijsbegeerte RUG, 04.12.1989.
- “Onze huidige kijk op ontdekking en creativiteit vereist een ‘contextuele’ kennistheoretische aanpak”, *Veertiende Filosofiedag*, Leuven, 26.09.1992. (A)
- “De inconsistentie-adaptieve logica DDL. Predikatieve extensie, tableaumethode en toepassingen”, *Vijftiende Filosofiedag*, Delft, 01.10.1993. (A)
- “Poppers kijk op de ontwikkeling van de wetenschappen”, *Colloquium Karl Popper*, Ghent, 26.04.1994. (I)
- “Adaptieve logica’s: een aanzet om elkaar te begrijpen”, *Zestiende Filosofiedag*, Brussels, 15.10.1994. (A)
- “Adaptieve logica’s toegepast op ontdekkingen”, *Workshop: Wetenschappelijke Ontdekking*, Ghent, 17.05.1995.
- “Grondslagen van het vrijzinnig humanisme. Een kennistheoretisch pleidooi”, lezingenreeks “Grondslagen Vrijzinnig Humanisme”, Gent, 1996.
- “Radicaal Atheïsme”, lezingenreeks “Wat met God”, Brussel, 23.05.1997.
- “Commentaar op C. van der Weele: ‘Genetica en beleid; verwevenheid van empirie en normativiteit’”, *Logica, Kritiek en Publiek Debat*, Leusden, 17.11.1996. (I)
- “De zingevingsproblematiek”, Onderzoek naar Wereldbeelden: Nieuwe Initiatieven, Leuven, 29.11.1997. (I)
- “Adaptieve Logica’s. Een preciese benadering van vertrouwde maar door logici verwaarloosde redeneervormen”, Brussels, Royal Flemish Academy of Belgium for Science and the Arts, 15.02.2003. (I)
- “40 jaar moraalwetenschap”, (panel), Ghent, 14.11.2003. (I)
- “De zwakke poten van wiskundige kennis en de gevolgen daarvan”, in de lezingenreeks *Actuele Filosofie*, Ghent, 25.04.2009. (I)

### Participation in conferences not listed above

- *Annual Meeting of the American Philosophical Association* (Eastern Division), Boston, 27.10.1972–29.12.1972.
- *The Function of Tragedy*, Gent, 16.04.1975–18.04.1975.
- *Logique et Language*, Brussel, May 1975.
- *XXXIe Vlaams Filologencongres* (Sectie Wijsbegeerte), Brussels, 14.04.1977–16.04.1977.
- *Symposium on Theory of Knowledge and Science Policy*, Ghent, 13.12.1979–15.12.1979.
- *Twelfth International Symposium on Multiple-Valued Logic*, Paris, 25.05.1982–27.05.1982.
- *XXXth Conference on the History of Logic (dedicated to Roman Suszko)*, Krakow (Poland), 19.10.1984–21.10.1984.
- *De Actualiteit van de Verlichting en de Franse Revolutie*, Ghent, Sectie wijsbegeerte RUG, 04.12.1989–05.12.1989.
- *Geschiedenis van de Gentse Wijsbegeerte*, colloquium naar aanleiding van 100 jaar Faculteit Letteren en Wijsbegeerte aan de RUG.
- *Twaalfde Filosofiedag (Nederland-Vlaanderen)*, Ghent 29.09.1990.
- *Nieuwe richtingen in geschiedenis en filosofie van de wetenschappen: jonge onderzoekers stellen hun werk voor*, Nationaal comité voor Logica, Geschiedenis en Filosofie van de Wetenschappen, Paleis der Academiën, Brussel, 15.10.1992.
- *Symposium on Epistemic Logic*, Liège, 18.03.1993–19.03.1993.
- *Congres voor Algemene en Speciale Wetenschapsfilosofie*, Leusden, the Netherlands, 14.05.1993–16.05.1993.
- *Paul Churchland Conferentie*. Onderzoekschool Wetenschapsfilosofie, Leusden, 25.10.1993–26.10.1993.
- *Copernique en Belgique*, Studiedag van het Nationaal Comité voor Logica, Geschiedenis en

- Filosofie van de Wetenschappen, Brussels, 08.02.1994.
- *Logic and Argumentation*, Amsterdam, 15.06.1994–17.06.1994, Royal Netherlands Academy of Arts and Sciences; as reviewer (“referent”).
  - *Empiricism in the philosophy of science*, Belgisch Genootschap voor Logica en Wetenschapsfilosofie, Brussels, 10.06.1995.
  - *Logica, Kritiek en Publiek Debat*, Internationale School voor Wijsbegeerte, Leusden, 16.11.1996–17.11.1996.
  - *Colloquium: Metaphors and Analogies in the History and the Philosophy of Science*, Gent, 24.10.1997–25.10.1997.
  - *L’Éthique face à la globalisation*, New Delhi, 18.12.2000–21.12.2000.
  - *Kant heute/Kant today/Kant aujourd’hui*, Karlsruhe, 18.09.2004–23.09.2004.
  - *Structure and Identity*, organised by the Centre Leo Apostel, VUB, and the Centre for Logic and Philosophy of Science, UGent, Brussels, 7–8.12.2007.
  - *New Challenges to Philosophy of Science*, London School of Economics, London, 13–15.12.2010.
  - *New Directions in the Philosophy of Science*, Bertinoro Conference Centre (University of Bologna), October 17–20, 2012.
  - *A Workshop on FDE-based Modal Logics*, Ruhr-Universität Bochum, 28 November, 2019.
  - *5th Workshop on Connexive Logics*, Ruhr-Universität Bochum, 29 November, 2019.
  - *5th Workshop on Connexive Logics*, Ruhr-Universität Bochum, 29 November, 2019.
  - *Workshop Relevance logic today. Recent applications, technical progress, new perspectives, and alternative approaches.* (lectures by Peter Verdée (UCLouvain), Igor Sedlar (Czech Academy of Sciences), Nicholas Ferenz (Czech Academy of Sciences), Pilar Terres (UCLouvain), Andrew Tedder (RUB Bochum), and Pierre Saint-Germier (UCLouvain)), 27 May 2022, UCLouvain, Louvain-la-Neuve, Belgium.

## National and International Research Projects and Cooperation Projects

For descriptions, see: <http://logica.ugent.be/centrum/research/research.php>

- 1975–present: many times responsible (as promoter) for the projects obtained from the Flemish Fund for Scientific Research and its French-speaking counterpart for the Belgian National Centre for Logical Investigation (“Nationaal Centrum voor Navorsingen in de Logica/Centre National de Recherches de Logique”).
- 1975–present: local coordinator (first for the Limburg University Center, later for Ghent University) for the projects mentioned in the previous item.
- 1980’: twice a Research Grant of the Research Foundation – Flanders (FWO–Vlaanderen) (with W. Faché).
- 01.01.1993–31.12.1993: Research Grant of the Research Fund of Ghent University (BOF) on technology assessment of biotechnology (1 year, equivalent of 1 fulltime predoctoral researcher); copromoters: J. Swings and M. De Cleene.
- 01.01.1996–31.12.1997: Research Grant of the Research Fund of Ghent University (BOF); title: “Adaptive logics. Logical and meta-logical properties and contexts of application”; equivalent of 1 fulltime postdoctoral researcher; researchers: Natasha Kurtonina and Kristof De Clercq.
- 01.06.1996–01.06.2001: head of one of the research units of the Scientific Research Network “History of science: study of the interaction between science and culture”, Flemish Fund for Scientific Research.
- 01.06.1996 - 01.06.2006: head of one of the research units of the Scientific Research Network “Research on the construction of integrated worldviews”, Flemish Fund for Scientific Research.
- 10.01.1997–10.06.1999: coordinator of an INTAS–RFBR cooperation (contract 95-0365); title: “Paraconsistent logics and their application to philosophy, artificial intelligence and computability”; partners: (i) the Institute of Philosophy of the Russian Academy of Sciences, the Logic Centre (Moscow), (ii) the Moscow State University ‘M.V.Lomonosov’, Chair of Logic (Moscow), (iii) the Institute for Logic, Software Systems Research Group (Moscow), and (iv) the Universität Salzburg, Institut für Philosophie; Russian researchers: Alexandr Karpenko (Principal Investigator), Evgenij Sidorenko, Vladimir Vasyukov, Juri Ivlev, Vladimir Markin, Helena Smirnova,

- Evgenij Voijshtillo, Aleksey Smirnov, Aleksey Novodvorski, Vladimir Popov. Outcome for the Russian participants: some 25 presentations in International Conferences and some 50 articles.
- 01.01.1997–31.12.2000: Research Programme of the Fund for Scientific Research – Flanders; title: “Application of adaptive logics in artificial intelligence and in argumentation.”; researchers: Guido Vanackere and Timothy Vermeir.
  - 01.02.1997–30.06.2000: one of the promoters of the cooperation between the Centre Leo Apostel (Free University of Brussels), the Centre for Metaphysics and Theology (University of Louvain) and the Centre for Logic and Philosophy of Science (Ghent University); funding agency: Flemish Minister for Science and Technology; title: “Integrating worldviews: research on the interdisciplinary construction of a model of reality with ethical and practical relevance”; researchers (for Ghent): Wim Christiaens and Ruth Loos.
  - 01.10.1999–30.09.2000: Sabbatical leave (“Krediet voor een wetenschappelijke opdracht”); funding agency: the Flemish Fund for Scientific Research.
  - 01.07.1999–28.02.2001: Research Grant of the Flemish Minister for Science and Education; title: “Design of electronic training programs for introductory courses in logic, with special attention for natural language”; researchers: Waltherus (Alex) Klijn and Gitte Callaert.
  - 21.12.1998–21.12.2001: coordinator of the cooperation between the Centre for Logic and Philosophy of Science of Ghent University, the Centre for Logic and Philosophy of Science of the Free University of Brussels (promoter Jean Paul Van Bendegem), and the Department of Logic of the University of Torun, Poland (promotr Jerzy Perzanowski); funding agency: The Flemish Minister for Science and Technology (BIL98/37); title: “The ontological foundations of paraconsistency in connection with scientific and every-day knowledge in general and with logic, mathematics and artificial intelligence in particular”.
  - 01.01.1998–31.12.2001: coordinator of the cooperation between all Belgian centres for logic; funding agency: Flemish Fund for Scientific Research; title: “Study of standard and non-standard formal logics in relation to their application contexts, more specifically mathematics, philosophy of science, artificial intelligence, philosophy of language and argumentation”.
  - 01.10.2002–31.03.2003: collaboration project for the Flemish Academic Centre for Science and the Art; funding agency: The Royal Flemish Academy of Belgium for Science and the Arts; title: “The logical dynamics of inquiry”; fellows: Diderik Batens and Andrzej Wisniewski (Zielona Gora).
  - 01.10.2001–30.09.2003: Research Grant of the Flemish Government, Department of Science, Innovation and Media; title: “Development of a robot-laboratory for multidisciplinary science education for secondary education”; researcher: Alex Klijn; copromoter: Freddy Mortier.
  - 01.01.2001–31.12.2004: Research Programme of the Fund for Scientific Research – Flanders; title: “Philosophical and technical foundations of the adaptive logic programme, further incorporation of logical mechanisms and further development of systems and applications”; researcher: Dagmar Provijn; copromoter: Joke Meheus.
  - 01.01.2002–31.12.2005: Ghent promoter of the cooperation between all Belgian centres for logic; funding agency: Flemish Fund for Scientific Research; title: “The relevance of non-classical logics for the philosophy of science, the philosophy of mathematics, and the philosophy of language”.
  - 01.01.2004–31.12.2005-: Research Programme of the Fund for Scientific Research – Flanders; title: “Development of concepts and the evolution of science. Symbolic algebra in the 16th and 17th century. A case study.”; researcher: Albrecht Heeffer; copromoter: Fernand Hallyn.
  - 01.01.2001–31.12.2006: ‘Research Action’ of the Research Fund of Ghent University (“Geconcentreerde Onderzoeksactie”); title: “Development of adaptive logics for the study of central topics in contemporary philosophy of science. Towards a new formal philosophy of science”; researchers: Leen De Vreese, Lieven Haesaert, Hans Lycke; copromoter: Erik Weber.
  - 01.01.2005–31.12.2008: Research Programme of the Fund for Scientific Research – Flanders; title: “A formal Approach to problem solving, and more specifically to scientific problem solving”; researcher: Peter Verdée; copromoter: Joke Meheus.
  - Member of the Steering Committee of “The Philosophy of Science in a European Perspective (PSE)”, ESF Research Networking Program, 1 May 2008–13 April 2013 (see <http://www.pse-esf.org/>).

- 01.01.2007 - 31.10.2013: ‘Research Action’ of the Research Fund of Ghent University (“Geconcentreerde Onderzoeksactie”); title: “Contextual and formal-logical approach to scientific problem solving processes”; researchers: Christian Strasser, Rafal Urbaniak, Frederik Van de Putte, Mathieu Beirlaen; copromoters: Erik Weber, Joke Meheus, Kristof De Clercq.
- 01.01.2009–31.12.2013: Research Programme of the Fund for Scientific Research – Flanders; title: “A logico-philosophical analysis of the structure and dynamics of values and norms.”; copromoter: Joke Meheus.

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## **Main Research**

Fields: logic, epistemology, philosophy of science.

Specific topics: paraconsistent logics, adaptive logics, prospective dynamic proofs (goal-directed heuristics-based proof formats), formal problem-solving, rationality and justification.

Main application domains: philosophy of science, non-standard mathematics and everyday reasoning.

## Scientific Publications of Diderik Batens

### 1 Books (as author)

- [1.1] Diderik Batens. *Studies in the Logic of Induction and in the Logic of Explanation. Containing a New Theory of Meaning Relations*, volume 161 of *Werken uitgegeven door de Faculteit van de Letteren en Wijsbegeerte, Rijksuniversiteit Gent*. De Tempel, Brugge, 1975.
- [1.2] Diderik Batens. *Logicaboek. Praktijk en theorie van het redeneren*. Garant, Antwerpen/Apeldoorn, 1992. 2: 1993; 3: 1996; 4: 1999; 5: 2002; 6: 2004; 7: 2008; 8: 2017.
- [1.3] Diderik Batens. *Menselijke kennis. Pleidooi voor een bruikbare rationaliteit*. Garant, Antwerpen/Apeldoorn, 1992. 2: 2004; 3: 2008.
- [1.4] Diderik Batens. *Ανθρώπινη Γνώση. Συνηγορία υπέρ μιας χρήσιμης ορθολογικότητας*. Crete University Press, Athens/Eracleion, 1996. 2: 2004. Vertaling van/translation of [1.3].

### 2 Books (as editor)

- [2.1] Diderik Batens, editor. *Leo Apostel. Tien filosofen getuigen*. Hadewijch, Antwerpen/Baarn, 1996.
- [2.2] Diderik Batens and Jean Paul Van Bendegem, editors. *Theory and Experiment. Recent Insights and New Perspectives on Their Relation*. Reidel, Dordrecht, 1988.
- [2.3] Diderik Batens, Chris Mortensen, Graham Priest, and Jean Paul Van Bendegem, editors. *Frontiers of Paraconsistent Logic*. Research Studies Press, Baldock, UK, 2000.

### 3 Computer Programs

- [3.1] Diderik Batens. *Logicaboek. Computerprogramma's*. Garant, Leuven/Apeldoorn, 1992. 2: 1994; 3: 1995.
- [3.2] Diderik Batens, Alex Klijn, and Giete Callaert. *Logicaprogramma*. Centrum voor Logica en Wetenschapsfilosofie, Universiteit Gent, 2001. 2: 2002.
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