

INTERNATIONAL CONFERENCE

**FORMAL METHODS AND  
SCIENCE IN PHILOSOPHY**

Conference Programme

Inter-University Centre, Dubrovnik, Croatia  
March 26–28, 2015

*Organizing Committee:*

Gianfranco Basti, Pontifical Lateran University, Vatican City  
Grzegorz Bugajak, Cardinal Stefan Wyszyński University, Warsaw  
Johannes Czermak, University of Salzburg  
Filip Grgić, Institute of Philosophy, Zagreb  
Srećko Kovač, Institute of Philosophy, Zagreb  
Edward Nieznański, Łazarski University, Warsaw  
Kordula Świątorzecka, Cardinal Stefan Wyszyński University, Warsaw  
Berislav Žarnić, University of Split

*Co-organizing institutions:*

Cardinal Stefan Wyszyński University, Warsaw  
Institute of Philosophy, Zagreb  
Inter-University Centre, Dubrovnik

*Publisher:*

Institute of Philosophy, Zagreb

*Edited by*

Srećko Kovač, Kordula Świątorzecka

*Conference venue:*

Inter-University Centre, Ul. don Frana Bulića 4, Dubrovnik, Croatia

Keynote lectures and the talks on Gödel's ontology and Gödel's ontological argument are supported by the research project *Gödel's ontological argument: history, modifications, extensions, and controversies* (DEC-2013/08/M/HS1/00439, National Science Centre, Poland).

Three talks of Friday Section B are supported in part by the Croatian Science Foundation under the project 5343.

# PROGRAMME

---

---

## THURSDAY (26.03.2015) I (Large Hall)

---

---

- 9:00-9:10      Opening
- 
- 9:10-10:10    *Key-note lecture:*  
Paul WEINGARTNER, The Problem of the Definition  
or Description of God in Gödel's and Other Ontological Proofs
- 
- 10:15 -10:45   Gianfranco BASTI, A Formalization of Aquinas Theory of  
Creation as Participation of Being (40)

Chair: S. Kovač

- 
- 10:45-11:15    Coffee break
- 
- 11:15-12:05   Robert PIŁAT, Human Rationality in Light of Decision Theory (40)
- 12:10-13:00   Ivica MARTINOVIĆ, The Concept of the *Infiniti mysteria* in  
Bošković's Geometrical Investigations (40)

Chair: K. Świętorzecka

---

---

## THURSDAY (26.03.2015) II

---

---

- 15-15:50      Andrzej PIETRUSZCZAK, Tomasz JARMUŻEK, A Formalization  
of Anselmian Ontological Argument (40, Large Hall)

Chair: M. Tkaczyk

---

---

### Section (Room A)

---

---

- 16:00-16:50   Kordula ŚWIĘTORZECKA, Non-Fregean Framework for the  
'Slingshot' Effect in Gödelian Ontology (40)
- 16:55-17:25   Mieczysław OMYŁA, Possible Worlds in non-Fregean  
Theories (20)

Chair: J. Czermak

- 
- 17:25-17:45    Coffee break
- 
- 17:45-18:15   Edward NIEZNAŃSKI, Gödel's *summum bonum*  
vs. Leibniz's *ratio sufficiens* (20)
- 18:20-18:50   Srećko KOVAČ, Causal Interpretation of Gödel's Ontotheology (20)
- 18:55-19:25   Piotr ORZESZEK, Logical Structure of Leibnizian  
and Bolzano's Argument for the Existence of God (20)

Chair: T. Jarmużek

---

---

---



---

*Section (Room B)*


---

- 16:00-16:30 Anna LEMANŃSKA, Philosophy of Nature and Its Method (20)  
 16:35-17:05 Zvonimir ČULJAK, Reliability and Meta-Reliability in the Structure of Epistemic Justification (20)  
 17:10-17:40 Anna BROŹEK, Alicja CHYBIŃSKA, Analysis of the Concept of Chance. On the Margin of Kotarbińska's Article (20)

Chair: F. Grgić

17:40-18:00 Coffee break

- 18:00-18:30 Samuel FLETCHER, Counterfactuals within Scientific Theories (40)  
 18:35-19:05 Kristina ŠEKREST, Complexity Theory, Machine Learning and Philosophy of Mind: Preliminary Reports (20)  
 19:10-19:40 Christian FELDBACHER, Definitionicism (20)

Chair: R. Piłat

---



---



---



---

*FRIDAY (27.03.2015) I (Large Hall)*


---

- 9:00-10:00 *Key-note lecture:*  
 André FUHRMANN, Gödel's Ontological Argument in the Public Eye
- 10.05-10:55 Audre Jean BROKES, A Frege-Geach Style Problem for Knowledge Closure Schemas (40)

Chair: G. Basti

10:55-11:25 Coffee break

- 11.25-12:15 Johannes CZERMAK, Some Extensions and Certain Interpretation of Gödel's Theological System (40)  
 12.20 -12:50 Flavia MARCACCI, Modal Relationship between History and of Epistemology about Science for a Historical Ontology of Science (20)

Chair: Z. Čuljak

---



---

---



---

*FRIDAY (27.03.2015) II*

---



---

14:30-15:20 Marcin TKACZYK, Many Valued Logics and Future Contingents (40, Large Hall)

Chair: A. Lemańska

---



---

*Section (Room A)*

---

15:35-16:25 Berislav ŽARNIĆ, Gabriela BAŠIĆ, Social Dynamics of Common Knowledge (40)

16:30-17:00 Marian TURZAŃSKI, Arrow's Impossibility Theorem. Political Philosophy, Aristotelian Logic and Nowadays Mathematics (20)

Chair: A. J. Brokes

---

17:00-17:30 Coffee Break

---

17:30-18:00 Albert J.J. ANGLBERGER, The Open Reading of Permission and its Logic(s) (20)

18:05-18:35 Bartłomiej SKOWRON, Defense of the Theory of Ideas (20)

18:40-19:10 Ivan RESTOVIĆ, Brouwer's Logic (20)

Chair: M. Nasieniewski

---



---

*Section (Room B)*

---

15:35-16:05 Grzegorz BUGAJAK, The 'Substrative' Concept of Matter (20)

16:10-16:40 Filip GRGIĆ, Aristotle and the Principle of Alternate Possibilities (20)

16:45-17:15 Tonči KOKIĆ, Challenges of the Philosophical and Scientific Explanations of the Origin of First Life (20)

Chair: C. Feldbacher

---

17:15-17:35 Coffee break

---

17:35-18:05 Janina BUCZKOWSKA, Normativity of Meaning in Natural Language and Languages of Scientific Theories. Logical and Epistemological Relationships Between Meaning and Usage (20)

18:10-18:40 Boris KOŽNJAK, Should Scientific Realists Rely on Technological Success? (20)

18:45-19:15 Anna KOCSIS, Mechanistic and Computational Explanations in Neuroscience (20)

Chair: G. Bugajak

---



---

---



---

SATURDAY (28.03.2015) I (Large Hall)

---



---

- 9:00-9:50      Dragan POLJAK, Mirko JAKIĆ, On the Character and Use of Physical Models (40)
- 9:55-10:45    Stamatios GEROGIORGAKIS, Revisionist Demarcationism and Formal Criteria for Genuine Explanations (40)

Chair: B. Žarnić

---



---

10:45-11:15    Coffee break

---



---

*Section (Room A)*

---



---

- 11:15-12:05    Andrzej PIETRUSZCZAK, Marek NASIENIEWSKI, A Modal Logic Over Jaśkowski's Discussive Logic  $D_2$  (40)
- 12:10-12:40    Laurenz HUDETZ, Spacetime Points as Classes of Mereotopologically Structured Basic Entities (20)
- 12:45-13:15    Marek PORWOLIK, Laurent Larouche's and Eugeniusz Żabski's Axiomatic Definitions of Genidentity (20)

Chair: M. Omyła

---



---

*Section (Room B)*

---



---

- 11:15-11:45    Tomasz JARMUŻEK, Metatheory of Tableau Systems (20)
- 11:50-12:20    Janusz WESSERLING, Three-Valued Logic of Beliefs Based on Kleene's and Bochvar's Ideas (20)
- 12:25-13:15    Vladimir LOBOVIKOV, Discrete Mathematical Representations of the Heresies of Pelagius and Leo Tolstoy, and of their Interrelations with St. Augustine's Doctrine of Grace and Free Choice (40)

Chair: S. Gerogiorgakis

---



---

Closing session (Large Hall)

---



---

- 13:20 -13:40    Franjo SOKOLIĆ, Basic Concepts in Physics (20)
- 13:40-14:10    General discussion and closing

Chair: D. Poljak

---



---