

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 BROŽEK, 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 ŽARNIČ, 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 JARMUŹEK, 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
