

# The Sixth World Congress of Paraconsistency

## The Second Stanisław Jaśkowski Memorial Symposium

5–8 September 2022; Toruń, Poland

Nicolaus Copernicus University, Collegium Minus, “Harmonijka”, 1a Fosa Staromiejska street

### Monday, 5 September 2022

8:15 Registration, Collegium Minus, “Harmonijka”, room I, ground floor

Room I, ground floor

9:15 Opening Conference

– Włodzimierz Jaskólski, Vice-Rector for Cooperation with Social and Business Environment, Nicolaus Copernicus University

– Radosław Sojak, Dean of the Faculty of Philosophy and Social Sciences, Nicolaus Copernicus University

– Zbigniew Nerczuk, Director of Institute of Philosophy, Nicolaus Copernicus University

– Jean-Yves Beziau: *Greetings from Newton da Costa*

Room I

*Chairman:* Daniele Mundici

10:00 **Invited lecture.** Diderik Batens: *On non-dialetheic paraconsistency*

11:00–11:30 *Coffee break*

Room I

*Chairman:* Jacek Malinowski

11:30 **Invited lecture.** Tomasz Jarmużek (joint work with Krystyna Mruczek-Nasieniewska and Ricardo Arturo Nicolás-Francisco): *Torunian school of paraconsistent logic: past, present and future*

12:30 **Invited lecture.** Zach Weber: *True, untrue, valid, invalid, provable, unprovable*

13:30–15:00 *Break for Lunch*

Room I

*Chair:* Evandro Luis Gomes

15:00 **Tutorial.** Andrzej Indrzejczak: *On Jaśkowski heritage. Part I*

15:55–16:00 *Break*

Room I

*Chair:* Evandro Luis Gomes

16:00 Nils Kurbis and Yaroslav Petrukhin: *Normalisation for the logic of paradox and some its extensions*

16:30 Michał Walicki: *Structure of paradox in logic of sentential operators*

Room 305 the second floor

*Chairman:* Andrzej Indrzejczak

16:00 Jonas R. Becker Arenhart: *Does paraconsistency require a philosophical interpretation?*

16:30 Alessandro Giordani and Matteo Pascucci: *A logic of topic inconsistency*

17:00–17:30 *Coffee break*

Room I

*Chairman:* Zach Weber

17:30 **Invited lecture.** Jacek Malinowski: *Connexive logics via relating semantics*

18:25–18:30 *Break*

Room I

*Chairman:* Zach Weber

18:30 Santiago Jockwich Martinez: *Maximizing interpretations of set theory* [online]

19:00 Hrafn Oddsson: *Paraconsistent and paracomplete Zermelo-Fraenkel set theory*

19:30 *End of the sessions*

Room 305

*Chairman:* Jean-Yves Beziau

18:30 Tomasz Jarmużek: *From tableaux to paraconsistent tableaux*

19:00 **Tutorial.** Marek Nasieniewski: *On Jaśkowski heritage. Part II*

## Tuesday, 6 September 2022

### *A session devoted to Stanisław Jaśkowski*

#### Room I

*Chairman:* Tomasz Jarmużek

8:30 **Invited lecture.** Graham Priest: *Jaśkowski and the Jains*

9:30–9:35 *Break*

9:35 **Invited lecture.** Anna Dziembowska and Kazimierz Jaśkowski: *How a landowner became a mathematician: Stanisław Jaśkowski's daughter and son recollect*

10:00 **Invited lecture.** Max Urchs: *Logic in Toruń. The becoming of a school of discussive logic*

11:00–11:25 *Coffee break*

11:25 **Invited lecture.** Hitoshi Omori: *Three questions on Jaśkowski's discussive logic*

12:25 Fabio De Martin Polo: *Remarks on Jaśkowski's discussive logic: Origins, development and a little proof theory* [online]

12:55–13:00 *Break*

#### Room I

*Chairman:* Jean-Yves Beziau

13:00 Juliana Bueno-Soler: *Paraconsistent multimodalities*

#### Room 305

*Chairman:* Max Urchs

13:00 Joanna Golińska-Pilarek, Nicole Meisner and Patryk Szlufik: *On some non-Fregean paraconsistent logics*

13:30–15:00 *Break for lunch*

#### Room I

*Chairman:* Walter Carnielli

15:00 **Invited lecture.** Daniele Mundici: *Probabilistic/logical inconsistency, and de Finetti*

16:00 **Tutorial.** Itala Maria Loffredo D'Ottaviano: *A history of paraconsistency and paraconsistent logic in the western thought: From Heraclitus of Ephesus to Stanisław Jaśkowski and Newton da Costa. Part I*

17:00–17:30 *Coffee break*

#### Room I

*Chairman:* Max Urchs

17:30 **Invited lecture.** Heinrich Wansing: *Beyond paraconsistency: A plea for a radical breach with the Aristotelean orthodoxy in logic*

18:25–18:30 *Break*

#### Room I

*Chairman:* Max Urchs

18:30 Sérgio Marcelino and Carlos Caleiro: *PNmatrices for paraconsistent and other non-classical logics* [online]

19:00 João Marcos: *A two-dimensional perspective on paraconsistent logics* [online]

#### Room 305

*Chair:* Juliana Bueno-Soler

18:30 Philippe Gagnon: *Is there a cost for keeping logic a priori in the free logics' trade-offs?* [online]

19:00 Carlos Lobo: *From the eclipse of logical modifiers to the discovery of the noema Husserl and Twardowski on the logic of content* [online]

19:45 *End of the sessions*

### Wednesday, 7 September 2022

#### Room I

*Chairman:* Andrzej Indrzejczak

9:00 **Invited lecture.** Francesco Paoli: *Paraconsistent weak Kleene logic: a survey*

10:00 **Invited lecture.** Yaroslav Shramko: *Structural first-degree entailment, R-Mingle and the infinity of safety*

11:00–11:30 *Coffee break*

#### Room I

*Chairman:* Francesco Paoli

11:30 **Invited lecture.** Janusz Ciuciura: *Gently paraconsistent calculi*

12:30 **Tutorial.** Kherian Gracher: *What is a paraconsistent negation?*

13:30–15:00 *Break for lunch*

#### Room I

*Chairman:* Heinrich Wansing

15:00 **Tutorial.** Itala Maria Loffredo D'Ottaviano: *A history of paraconsistency and paraconsistent logic in the western thought: From Heraclitus of Ephesus to Stanisław Jaśkowski and Newton da Costa. Part 2*

15:55–16:00 *Break*

#### Room I

*Chairman:* Heinrich Wansing

16:00 Tomasz Skura: *A sequent refutation system for the basic paraconsistent modal logic KN4*

16:30 Andrzej Indrzejczak and Yaroslav Petrukhin: *Bisquent calculi for paraconsistent three-valued logics*

17:00 Luis Estrada-González: *De Morganism and other horror stories* [online]

#### Room 305

*Chairman:* Janusz Ciuciura

16:00 Adam Trybus: *Christine Ladd-Franklin and the principle of (non-)contradiction*

16:30 Evandro Luis Gomes and Itala M. Loffredo D'Ottaviano: *Baptizing paraconsistent logics: the unique touch of Miro Quesada*

17:00 Luis Felipe Bartolo Alegre: *Paraconsistency and its motivations* [online]

17:30–20:00 *Trip around Toruń*

20:00 *Conference dinner Hotel Gotyk, 20 Piekary street*

## Thursday, 8 September 2022

### Room I

*Chairman:* Mateusz Klonowski

8:30 Aimable-André Dufatanye: *The seeds of a paraconsistent thinking in the theory of intentionality* [online]

9:00 **Invited lecture.** Jean-Yves Beziau: *What is contradiction? Different ways to define contradiction*

9:55–10:00 *Break*

### Room I

*Chairman:* Kherian Gracher

10:00 Ranjith Venkatrama: *Oppositional structures in quantum mechanics* [online]

10:30 Satoru Niki and Heinrich Wansing: *On the provable contradictions of the connexive logics C and C3*

11:00–11:30 *Coffee break*

### Room I

*Chairman:* Janusz Ciuciura

11:30 Luis Estrada-González, Marek Nasieniewski and Ricardo Arturo Nicolás-Francisco: *Approaching connexivity through discussive logic*

12:00 Caroline Pires Ting and Jean-Yves Beziau: *Chinese views about non-contradiction throughout history*

### Room I

*Chairman:* Yaroslav Shramko

12:30 **Tutorial.** Itala Maria Loffredo D'Ottaviano: *A history of paraconsistency and paraconsistent logic in the western thought: From Heraclitus of Ephesus to Stanisław Jaśkowski and Newton da Costa. Part 3*

13:30–15:00 *Break for lunch*

### Room I

*Chairman:* Yaroslav Shramko

15:00 Sena Bozdog and Vit Punčochař: *Consistency-sensitive epistemic modalities in information-based semantics*

15:30 Andrew Tedder: *An algebraic view of the Mares-Goldblatt semantics*

### Room 305

*Chair:*

Caroline Pires Ting  
Sankha S. Basu and Sayantan Roy: *Generalized explosion and stratified paraconsistency*

10:30 Meha Mishra and A.V. Ravishankar: *Scientific pluralism and the criteria for weak paraconsistent logic of inconsistency tolerance* [online]

### Room 305

*Chairman:* Hitoshi Omori

11:30 Maria del Rosario Martinez-Ordaz: *What is the relation between science and paraconsistent logic* [online]

12:00 Alessio Moretti: *Tri-tetrahedron: the 4D oppositional closure polytope of paraconsistent and paracomplete 3-valued 4-opposition* [online]

### Room 305

*Chairman:* Francesco Paoli

15:00 Emil Badici *Untangling the new Zeno* [online]

15:30 Andrzej Szalas: *Paraconsistent rule-based programming in logically heterogeneous environments*

### Room I

*Chairman:* Graham Priest

16:00 **Invited lecture.** Walter Carnielli: *Reasoning with glutted and gapped probability and possibility*

17:00 **Invited lecture.** Arnon Avron: *On formal criteria for relevance* [online]

18:00 Closing of the Congress