



INTERDISCIPLINARY CENTRE  
FOR ARISTOTLE STUDIES A.U.TH.



INTERNATIONAL CONGRESS

**ARISTOTLE AND CONTEMPORARY PHYSICS.**

**CELEBRATING THE 60th ANNIVERSARY OF CERN**

CO-ORGANIZERS:

CERN & INTERDISCIPLINARY CENTRE FOR ARISTOTLE STUDIES, A.U.TH.

October 30-31, 2014

ARISTOTLE UNIVERSITY OF THESSALONIKI

Research Dissemination Center, Room 1  
September 3<sup>rd</sup> Street – University Campus

THESSALONIKI-GREECE

**PROGRAMME**

**Thursday October 30, 2014**

**17:00-17:30 Subscriptions**

**17:30 20:15 Opening Session**

**Co-chairs: Demetra Sfondoni-Mentzou**, *President of the “Interdisciplinary Centre for Aristotle Studies”, A.U.TH.* & **Emmanuel Tsesmelis**, Deputy Head of International Relations, CERN.

**17:30-18:00 Welcome Remarks**

**18:00-18:15 Demetra Sfondoni-Mentzou**  
*Prolegomen: Aristotle and Contemporary Physics.*

**18:15-19:00 Emmanuel Tsesmelis**  
*Senior Physicist, CERN & Visiting Professor, Oxford University.*  
CERN and 60 Years of Discovery Science.  
*From the Ancient Philosophers to the Higgs Particle.*

**19:00-19:15 Discussion**

**19:15-20:00 Panos Ligomenides**  
*Distinguished Professor Emeritus at the University of Maryland & Member of the Academy of Athens.*  
*Aristotle’s Idea of “Potentiality” and the Necessity of the “Contingent” in Nature and in Human Society.*

**20:00-20:15 Discussion**

**20:15 Reception**

## Friday October 31, 2014

**09:30-10:00 Subscriptions**

**10:00-13:15 Morning Session**

**Chair: Spyridon Pavlides**, Professor of Geology, A.U.TH.

**10:00-10:15 Sergio Bertolucci**

Physicist, Director of Research and Scientific Computing, CERN  
(Connection via Skype)

**10:15-11:00 Ignatios Antoniadis**

*Physicist, Albert Einstein Institute, University of Bern, & École Polytechnique, Paris.*  
The Physics of Microcosm and the Universe.

**11:00-11:15 Discussion**

**11:15-12:00 Víctor Gómez Pin**

*Professor of Philosophy, Universidad Autónoma de Barcelona.*  
A further Review on the Implications of Quantum Postulates for Aristotelian Natural Philosophy.

**12:00-12:15 Discussion**

**12:15-13:00 Ioannis Antoniou**

*Professor of Mathematics, A.U.TH.*  
From Interdependence to Meaning and Knowledge. Following the Steps of Aristotle.

**13:00-13:15 Discussion**

**17:00-20:00 Afternoon Session**

**Chair: Zacharias Scouras**, Professor of Biology, A.U.TH.

**17:00-17:45 Lambros Couloubaritsis**

*Member of the Royal Academy of Belgium & Professor Emeritus of Philosophy, Université Libre de Bruxelles, ULB.*  
Can Aristotle's Physics be Interpreted in the Context of the Contemporary Approach of Complexity?

**17:45-18:00 Discussion**

**18:00-18:45 John Seiradakis**

*Professor of Astrophysics, A.U.TH.*  
Aristotle and Contemporary Cosmology.

**18:45-19:00 Συζήτηση**

**19:00-19:45 Demetra Sfendoni-Mentzou**

*Professor Emerita of Philosophy of Science, A.U.TH.*  
Aristotle's "Prime Matter" and Contemporary Physics.

**19:45-20:00 Discussion**

**20:00 Reception**