

**ECONOPHYSICS,
NEW ECONOMY & COMPLEXITY
INTERNATIONAL CONFERENCE**

“ENEC - 2015”

28 – 30 May, 2015

PROGRAMME



HYPERION UNIVERSITY

and

HYPERION RESEARCH & DEVELOPMENT INSTITUTE

in partnership with

BUCHAREST-ILFOV REGIONAL DEVELOPMENT AGENCY

BUCHAREST, ROMANIA

see: www.enec.ro

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CONFERENCE CHAIRMAN:

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PROGRAMME SECTIONS OF THE CONFERENCE:

FIRST SECTION – ECONOPHYSICS

SECOND SECTION – NEW ECONOMY

THIRD SECTION – COMPLEXITY

OUTLINE OF PROGRAMME:

THURSDAY, MAY 28

CONFERENCE HALL – 6 FLOOR – BUILDING A

10⁰⁰ – 10³⁰ OPENING SESSION

– **Opening Address**

– **Keynote Speaker Address** – *Universities – at the
Forefront of Knowledge and New Technologies*

Creation Process by **Anda Gheorghiu**

10³⁰ – 11³⁰ – ECONOPHYSICS Section – Papers Presentation

11³⁰ – 12⁰⁰ – Coffee Break

12⁰⁰ – 14³⁰ – NEW ECONOMY Section – Papers Presentation

14³⁰ – 15³⁰ – Scientific Lunch

15³⁰ - 18³⁰ – NEW ECONOMY Section – continued

18³⁰ - 19⁰⁰ – Discussions

FRIDAY, MAY 29

CONFERENCE HALL – 6 FLOOR – BUILDING A

9⁰⁰ – 11⁰⁰ – COMPLEXITY SECTION – Papers Presentation

11⁰⁰ – 11³⁰ – Coffee Break

11³⁰ – 14³⁰ – NEW ECONOMY Section – Papers Presentation

14³⁰ – 15³⁰ – Scientific Lunch

15³⁰ – 18³⁰ – NEW ECONOMY Section – continued

18³⁰ – 19⁰⁰ – Discussions

SATURDAY, MAY 30

**10⁰⁰ – SHORT SCIENTIFIC TRAVEL – organized by Anda
Gheorghiu**

SCIENTIFIC PROGRAMME:

THURSDAY, 28 MAY

CONFERENCE HALL – 6 FLOOR – BUILDING A

10³⁰ – 11³⁰ – ECONOPHYSICS Section¹

Chairmen: Matti Estola
Anca Gheorghiu

28C – E1 – *Measuring Economic Laws of Production*

Matti Estola

University of Eastern Finland, matti.estola@uef.fi

28C – E2 – *Econobotics – A New Framework for the
Enterprises Development*

Ioana Armaş

Hyperion University of Bucharest, ioanaarm@yahoo.com

28C – E3 – *Continuation of Comparative Analysis in
Electromagnetic Field Exact Study*

Irina Dmitrieva

Odessa National Academy of Telecommunications, irina.dm@mail.ru

¹ The Lecture Number Stands for:

- 30 – date (30 May)
- C – Conference Hall
- E – Conference Section (Econophysics)
- 1 ... n – number of the paper

28C – E4 – *Categorical Riemann Hypothesis Approach
Relations with Economic and Financial
Complex Systems*

Alain Le Mehaute, Philippe Riot, Dmitrii Tayurskii

French National Network on Complex Systems, France,
alm@materialsdesign.com

28C – E5 – *The Chaotic Public Debt Growth Model: Greece*

Vesna Jablanovic

University of Belgrade, Faculty of Agriculture
vesnajab@ptt.rs

11³⁰ – 12⁰⁰ – **Coffee Break**

11³⁰ – 14⁰⁰ – **NEW ECONOMY Section**

**Chairmen: Wioletta Wereda
Anda Gheorghiu**

28C – NE1 – *Barriers to innovation in healthcare*

Joanna A. Jończyk

Bialystok University of Technology, j.jonczyk@pb.edu.pl

28C – NE2 – *A Quarter of a Century of Post-Communism in
Romania – an Interdisciplinary Perspective*

Anda Gheorghiu

Hyperion University of Bucharest, anda.gheorghiu@gmail.com

28C – NE3 – *Impact of the Socio-Economic Situation in Poland
on Higher Education System*

Sylwia Saczyńska-Sokół

Bialystok University of Technology, Faculty of Management,
s.saczynska@pb.edu.pl

28C – NE4 – *Transitions in Polish Higher Education System
in an European Context*

Sylwia Saczyńska-Sokół

Bialystok University of Technology, Faculty of Management,

s.saczynska@pb.edu.pl

28C – NE5 – *New challenges for SME's from Bucharest Ilfov
region*

Ana Cristina Adumitroaei, Claudia Ionescu

Bucharest Ilfov RDA, anacristina.adumitroaei@adrbi.ro

28C – NE6 – *Bucharest-Ilfov REGIO Network communication
for smart investments*

Simona Curpan, Claudia Ionescu

Bucharest Ilfov RDA, adrbinvest@yahoo.com

28C – NE7 – *Polish Pension System as a Response to the
Problems of an Aging Society*

Katarzyna Peter-Bombik, Agnieszka Szczudlińska-Kanoś

Jagiellonian University in Krakow, Poland,

k.peter-bombik@uj.edu.pl

28C – NE8 – *“Young family” as the subject of Polish social
policy. Fiction or real support?*

Katarzyna Peter-Bombik, Agnieszka Szczudlińska-Kanoś

Jagiellonian University in Krakow, Poland,

k.peter-bombik@uj.edu.pl

14³⁰ – 15³⁰ - Scientific Lunch

15³⁰ – 18³⁰ – NEW ECONOMY Section continued

28C – NE9 – *Post-Crisis Economic Model: Return to Keynesianism?*

Cătălin Emilian Huidumac, Alexandru Catalin Popa

The Bucharest University of Economic Studies, catalinhuidumac@yahoo.com

28C – NE10 – *Romania's Path to the Euro Area – the Importance of Real Convergence*

Elena Raluca Moisescu-Duican

The Bucharest University of Economic Studies, raluca.duican@yahoo.com

28C – NE11 – *Metropolitan Identity in the Strategic Management of Cities Development in Poland*

Martyna Basaj, Bartosz Kożuch

Jagiellonian University in Krakow

28C – NE12 – *Participation in the process of primary schools financial planning - an attempt to conceptualise and operationalise the problem*

Artur J. Kożuch, Żukowski Jan,

Martyna Basaj, Bartosz Kożuch

University of Agriculture in Krakow, Aleksandras Stulginskis University in Kaunas, Jagiellonian University in Krakow, a.j.kozuch@ur.krakow.pl

28C – NE13 – *The Implications of Indebtedness for Financial Stability*

Catalin Emilian Huidumac, Alina Pop

The Bucharest University of Economic Studies, catalinhuidumac@yahoo.com

28C – NE14 – *The Role of Central Banks in Crisis
Prevention and Treatment*

Catalin Emilian Huidumac, Alina Pop

The Bucharest University of Economic Studies, catalinhuidumac@yahoo.com

FRIDAY, 29 MAY

CONFERENCE HALL – 6 FLOOR – BUILDING A

9⁰⁰ – 11⁰⁰ – COMPLEXITY SECTION

**Chairmen: Feodor Kusmartsev
Ioana Armaş**

*29C – C1 – A Comparison Study between the Correlation
Coefficients of Pearson, Spearman and Kendall*

Nicolae Popoviciu

Hyperion University of Bucharest, nicolae.popoviciu@yahoo.com

*29C – C2 – Non-Parametric Stochastic Simulations to
Capture the Uncertainty in the Production of
Manufactured Goods for Romania*

Dospinescu Andrei Silviu, Nicoleta Hornianschi

Hyperion University, Center for Industrial Economics and Services, Romania,
andredospinescu@yahoo.com

29C – C3 – Social Energy

Feodor Kusmartsev

Loughborough University, U.K., f.kusmartsev@lboro.ac.uk

*29C – C4 – Neurofeedback in Behavioral Modeling
(presentation)*

Rodica Munteanu-Os

Hyperion University, U.N. expert, os.rodica@yahoo.com

11⁰⁰ – 11³⁰ – Coffee Break

11³⁰ – 14³⁰ – NEW ECONOMY SECTION – continued

**Chairmen: Joanna A. Jończyk
Anda Gheorghiu**

29C – NE15 – *Mystery Client Method and Customer Service
in the Public Organization?*

Wioletta Wereda

Siedlce University of Natural Sciences and Humanities, Poland,
weredawioletta@tlen.pl

29C – NE16 – *Business Process Modeling as a Tool to
Improve Public Services*

Janusz Sasak, Wioletta Wereda

Jagiellonian University, Siedlce University of Natural Sciences and
Humanities, Poland, janusz.sasak@uj.edu.pl

29C – NE17 – *Relationship Management in Public-Private
Partnership*

Zbysław Dobrowolski

Jagiellonian University,

29C – NE18 – *Managerial Preferences Between Accrual-Based
Versus Real Earnings Management*

Alina Beatrice Vladu

Babes-Bolyai University, beatrice.vladu@econ.ubbcluj.ro

29C – NE19 – *Shadow Banking System. Entities, Risk and
Regulatory Problems*

Beata Domańska-Szaruga

Siedlce University of Natural Sciences and Humanities, Poland,
szarugab@uph.edu.pl

29C – NE20 – *New Economic Thinking*

Carmen Pasca, Magda Albulescu

SNSPA, Bucharest, Romania, carmen.mariana.pasca@gmail.com

29C – NE21 – *Considerations Regarding the Impact of Globalization upon Transport Networks*

Ovidiu Antoniu Balint

Hyperion University of Bucharest, balint_antoniu_ovidiu@yahoo.com

14³⁰ – 15³⁰ – Scientific Lunch

15³⁰ – 18³⁰ – NEW ECONOMY SECTION – continued

29C – NE22 – *Sustainable Development, a Solution to the Ecological Crisis*

Ramona Maria Chivu

Romanian Academy, Bucharest, Romania, chivumariaramona@yahoo.com

29C – NE23 – *New Challenges, New Opportunities for the Regions and Cities. The Case of Bucharest-Ilfov Region*

Liviu Ștefan Râncioagă

Bucharest

Ilfov RDA, liviu.rancioaga@adrbi.ro

29C – NE24 – *Communication Strategy REGIO 2014-2020 for Bucharest-Ilfov Region a tool for regional development*

Claudia Ionescu

Bucharest Ilfov RDA, adrbinvest@yahoo.com

29C – NE25 – *Romanian Youth Emigration: Socio-Economic and Demographic Implications*

Mariana Bălan

Institute for Economic Forecasting-NIER, Romanian Academy,
dr.mariana.balan@gmail.com

29C – NE26 – *Realities and perspectives regarding the flow of Romanian tourists at national level*

Cristina Burghilea

Hyperion University of Bucharest, crystachy@yahoo.com

29C – NE27 – *Analysis on Impact of Foreign Direct Investment on the Economic Growth of Romania during 1997-2014*

Marinela Geamănu

Spiru Haret University, Romania, geamanu_marinela@yahoo.com.au

18³⁰ – 19⁰⁰ – Discussions and Closing Speech

SATURDAY, MAY 30

10⁰⁰ – SHORT SCIENTIFIC TRAVEL

One day scientific trip to Prahova County, by bus. We will visit Museum "Urlăteanu Manor" in Urlați, Prahova County. Situated on the top of a hill and surrounded by beautiful countryside, Urlăteanu Manor and its wine cellar were built in 1922 and restored by Halewood Company in 1999. We will visit the underground cellar where the red wines are aged, and also learn about oak barrels are used to mature the wine. It is very nice to breathe in the smell of the cellar and aroma of the wine, to hear the gentle sound of bottles being carefully moved and the echo of voices.

Also we will discover the steps to wine tasting and try a selection of great range of wines. For those people who would like to take at home something from Romania, it is possible to buy souvenirs for the loved ones, or wines at special prices. We have chosen to visit this specific cellar, because here is the one place in the world where we can find the brand of wine called...Hyperion!

Then we will enjoy a traditional meal in the restored dining room.

The excursion continues to the Paltinu Dam, situated in the on the Doftana Valley. The area provides many facilities for leisure activities. The dam was completed in 1971; it is 108 m tall and 465 m long. The accumulation lake is 3 km long and surrounded by beautiful landscapes. We stop for a beer and to admire the landscape.

10⁰⁰ – Departure from Hyperion University by minibus

EXCURSION-MAY 30, 2015
(Planned by ENEC organizing committee
and Hyperion University)

TIME	ACTIVITY
10:00	Departure from Bucharest, Hyperion University to Prahova county
11:30-15:30	Visit of Urlăţeanu Manor (wine degustation, lunch) We shall enjoy the taste and flavor of wines, the sound of glasses, traditional food, the amazing colors of roses in the garden and chirps of birds
15:30-17:00	Depart to Paltinu Dam (if weather is good)
17,00-18,30	Time to get pleasure from admiring the sunset, the lake, the dam's structural design, and the gorges nearby...who knows, maybe you will see the local "Loch Ness" monster?
18,30	Departure to Bucharest
20	Arrival ...bye,bye, dear guests, see you next year ☺

N.B. Pending on time, we may arrange other surprises for our guests. The distance between Bucharest and Urlăţi is 82 km. The distance between Urlăţi and Paltinu is 71 km.

Images from the places we will visit



INSTRUCTIONS FOR AUTHORS

Submission of papers

For ENEC International Conference, authors are encouraged to send theoretical and/or experimental contribution concerning up-to-date research, before the end of April every year.

Only original papers and invited papers in English are considered. To qualify for publication, papers must be previously reviewed by members of the Advisory Board and after presentation in the one of section of ENEC Conference. Submission of papers must be made to the Paper Submission section on the Conference Website: www.enec.ro .

Papers structure and preparation

The following structure of a paper is recommended: 1. Introduction, 2. Experimental (Theory, Modeling, ...), 3. Results, 4. Discussion, 5. Conclusions.

The first page must contain:

- Title of paper (main title underlined);
- Authors names and the institute where the work was conducted;
- Keywords, for indexing purposes;
- Abstract.

The exact address complete, with a postal code of the principal author must be given. Add e-mail if possible.

For the preparation of the Conference Proceedings, please upload the abstract and the full paper in English, in electronic format to the Conference Website: www.enec.ro

In order to publish in the Proceedings of ENEC Conference, the manuscripts should be submitted in duplicate sets of illustration (of which one is original) typewritten double-spaced on one side of the paper, with a wide margin. In case of the manuscripts in electronic form, the operating system and word processing software used to produce your document should be WORD for WINDOWS. The following rules for text processing should be used. Main text and equations: Times New Roman 11 pt, spacing: single, first line; left indent 0,5 cm, alignment: justified Footnotes, figure explanations: Times New Roman 9 pt, spacing: single, first line; left indent 0,5 cm, alignment: justified Table content: Times New Roman 9 pt, spacing: single, alignment: centre References: Times New Roman 9 pt, spacing: single, first line; left indent 0,5 cm, alignment: justified, Author's names – plain; Books titles – italic; Publication titles – plain; Tome no. – bold.

References will be consecutively numbered in the text and collected at the end of the paper in the following style for journals, proceedings, books and sites, respectively:

- [1] D. K. Faley, *A Statistical Equilibrium Theory of Markets*, J. Econ. Theory, 62, 321-345 (1994) or D. K. Faley, J. Econ. Theory, **62**, 321 (1994).
- [2] I. Dmitrieva, *Diagnolization problems in the classical Maxwell theory and their industrial applications*, Proc. of ENEC 2008 International Conference, Victor Publishing House, Bucharest, Romania, 2008, p. 11.
- [3] R. N. Mantegna & H. E. Stanley, *An Introduction to Econophysics*, Cambridge University Press, Cambridge, 2000.
- [4] I. Spânulescu and Anca Gheorghiu, *Economic Amplifier – A new Econophysics Model*, in: arXiv.org > q.fin > arXiv: 0707.3703, 25 July 2009.

For papers written by economists the following style also can be used:

- [1] Galam, S. (2002), *Minority Opinion Spreading in Random Geometry*, European Physical Journal B 25, pp. 403-406
- [2] Amisano G. and Giannini C. (1997), *Topics in Structural VAR Econometrics*, Springer Berlin

Numbers of References must be limited (up to 20 references).

Figures and tables must be introduced in the text with their legends.

The manuscripts should be as concise as possible. Original whose length exceeds 12 pages are strongly discouraged.

The manuscripts should be sent to the following address:

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HYPERION University of Bucharest 169, Calea Calarasilor, 030615, Bucharest, ROMANIA Phone: 401-323 41 67; 401-321 46 67, Fax: 401-321 62 96, and by e-mail or to: rectorat@hyperion.ro;

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HYPERION University of Bucharest 169, Calea Calarasilor, 030615, Bucharest, ROMANIA Phone: 401-323 83 09; 401-321 46 67, Fax: 401-323 83 09, and/or by e-mail to: office@hyperion.ro

ENEC 2015 INTERNATIONAL CONFERENCE IS INITIATED AND ORGANIZED BY:

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