

RTF 3 Higher Education in Energy Transition

Prof. Horia NECULA
Vice-Rector, University Politehnica of Bucharest

Professor Necula Horia is a graduate of the Faculty of Electrical Engineering at the Polytechnic Institute of Bucharest (POLYTECHNIC University of Bucharest).

After graduation, he was admitted for doctoral studies in energy engineering, within the same institution, but also at the national Institute of applied Sciences in Lyon - France, completing his doctorate under joint supervision in 1999. In 1993 he started a teaching career in the Department of Energy production and use with the Faculty of Electrical Engineering of THE POLYTECHNIC University of Bucharest.

He completed all academic degrees, graduate assistant (1993-1996), assistant professor (1996-1999), lecturer (1999-2003), lecturer (2003-2013) and professor since 2013. In 2015, he was also certified as a leader for doctoral studies in the field of electricity.

In terms of his administrative career, he was vice-dean for educational issues at the Faculty of Electrical Engineering between 2005 and 2008, head of department / department manager between 2008-2016, was dean of the Faculty of Electrical Engineering, and is currently vice-rector of the University Politehnica of Bucharest.

He is the author and co-author of over 60 scientific articles and works and 12 specialized books, responsible for and participant in more than 25 research agreements in various fields, such as: thermal equipment and installations, energy balance / audit, energy efficiency and modelling / simulation of the operation of equipment and thermal installations.

PETRU RUȘEȚ
Managing Director, Siemens Energy

Petru Ruset has more than 30 years of experience in the main companies operating in the Romanian energy fields. He is currently Managing Director of Siemens Energy and joined Siemens in 2007 as head of the company's energy-related divisions.

Between 1989 and 2007 he worked for the electricity transmission and distribution company RENEL, Transelectrica and SMART, holding coordination and management positions.

Mr. Ruset is a doctor of electrotechnics, with the thesis "Optimization of the operating regime of medium voltage networks with neutral treated with compensating coils" (2012).

Member of important bodies in the field of energy, such as CIGRE, WEC and IEEE, Mr. Ruset started his academic involvement as a guest professor of the University Politehnica of Bucharest, Faculty of Energy, in 2015, and since 2016 he is a guest professor at UPB.

Petru Ruset graduated from the Faculty of Electrical Engineering at the Polytechnic Institute "Traian Vuia" Timisoara (1989), Management and marketing course "Carl Duisbesrg" Germany (1996-1997), Advanced Management course Felda ngen Siemens Germany (2009).

Silvia VLĂSCÉANU
HENRO, Executive Director

Silvia Vlăsceanu is a graduate of Power Engineering Faculty of Bucharest Polytechnic University and of the Faculty of Commerce from the Academy of Economic Studies. She also holds a PhD degree in the field of power engineering, conferred by the Polytechnic University of Bucharest in 2012.

The professional path includes, among others: junior engineer at a company in the energy sector, expert at Investment Directorate of Chamber of Deputies, competition inspector at the Competition Council, Parliamentary counselor at the Committee for Industries and Services of Chamber of Deputies, general director of the Federation of Associations of Energy Utility Companies - ACUE (2008 - 2021) and executive director of HENRO – Association of Electricity Producers, starting September 2021.

She continuously improved her expertise by following post-graduate professional training and by being an active participant at various conferences, workshops and seminars at national and international level.

Mrs. Vlăsceanu has been since more than 13 years a member of Advisory Board of Romanian Energy Regulatory Authority (ANRE), member of the Economic and Social Council of Romania, and she was also vice-president of Employers Confederation CONCORDIA.

In parallel, she has also teaching experience, for the last few years has taught at the Polytechnic University of Bucharest, and has also collaborated with various authorities, organizations, research institutes (ICPE, Romanian Academy, UNDP, Romanian Committee of WEC etc.) in conducting studies, assessments and reports related to energy sector and the impact concerning the economic sector.

Professor habilitated PhD. Eng. Radu-Dumitru PENTIUC
University Stefan cel Mare Suceava, Professor

Born 27.10.1957, Mitocu Dragomirnei, Suceava County, married, wife Elena Marcela primary care physician, a child Codruța Paula married CIOPONEA, BFT specialist, two grandchildren Vlăduț and Mihnea CIOPONEA. 1972-1976; "Ștefan cel Mare" High School, Suceava; 1977-1982, Technical University „Gh. Asachi” Iași, Faculty of Electrical Engineering, specialization in General Electrical Engineering; 30.05.1987 - 28.02.1993 Suceava Machine Tool Enterprise - IMUS, Chief Energy Officer and Head of PRAM Energy Workshop. Since 1988 first associate professor and then since 1993, through competition, head of works at the University "Ștefan cel Mare" Suceava-USV, Faculty of Electrical Engineering and Computer Science -FIESC, Department of Electrical Engineering-DETH.

Since 04.2005 and currently Director of the Electrical Department, elected unanimously in all terms; since 2011 coordinator of the USV Student Commission and member of the Central Scholarship Commission. Elected member of the Academic Council of FIESC from USV, 2000-2024. Distinction "Professor BOLOGNA" 2018 May 19.

Teaching skills: Fundamental energy and energy conversion; Use of electricity; Electric traction; Electricity supply to industrial consumers; 7 books published in CNCSIS recognized publishing houses, 2 electronic format course support, 5 laboratory and design guidance 3 in the publishing house, 2 local; 1 TEMPUS scholarship 10.1994-06.1995, Instituto Superior de Engenharia do Porto, Portugal, English, 40 pages, July 1995.

Published over 200 articles: 50 papers listed WOS / ISI, 6 in journals and 44 in Proceedings listed WOS / ISI; participant in 135 international and national conferences; 14 patents of invention, to 6 by author, 1 European patent Nr. EP 3 536 880 B1 / 2020; 4 patent applications under evaluation at OSIM, 1 innovation.

Awards obtained: 90 international and national awards: 2 awards Romanian Academy of Technical Sciences in Romania-ASTR, ASAS, AOSR, branch academies and CNCSIS; 63 international awards, diplomas of excellence, gold, platinum, silver and bronze medals, as well as the grand prize at international invention fairs.

The title of honorary member of the Romanian National Committee of the World Energy Council, to the following personalities with important contributions to the affirmation of the Romanian energy. CNR-CME General Assembly 15.01 2015.

Research contracts 56 won through competitions, director at 6 international, 24 national. Member of the Scientific Committee of the journals: The Scientific Bulletin of Electrical Engineering Faculty. Valahia University Târgoviște classified B + CNCSIS; AGIR Bulletin: Journal of Energy Environment Efficiency Resources Globalization -EMERG New Series ISSN 2457-5011. www.cnr-cme.ro, editorial board and referent International Conference, "Professor Dorin PAVEL, Founder of Romanian Hydropower" Publication volumes, AGIR Publishing House, ISBN 973-8130-82-4, ISBN 978-973-720-246- 8. <http://stiintasiinginerie.ro/>.

Doctoral Commissions 45, Technical University of Moldova - 2; University of Perugia - 1; Technical University „Gh. Asachi” Iași - 18; Bucharest Polytechnic - 7; Cluj Napoca Technical University - 14; Technical University of Constructions Bucharest 1; „Ștefan cel Mare” University of Suceava - 2.

Professional organizations

President of the Suceava County Branch of the General Association of Romanian Engineers (AGIR), elected in the General Assembly of the Suceava Branch on July 14, 1997. ID 56 513 from 1997.

- Member of the AGIR Board of Directors elected at the 25th Congress of AGIR from 7 - 8. 11.1997.

- Member of the Romanian Inventors Society. ID no. 17 of 1998.

- Member of the Romanian Society for Energy Efficiency. - SOCER, since 1999.

- Member of the Romanian Association of Installation Engineers - AIIR 2011

- Member of the National Council of Lighting, CNRI since 1 12.2003

- Member of the Cultural Association "Stephen the Great".

National evaluator expert at The Romanian Agency for Quality Assurance in Higher Education - ARACIS since 2011. National Register of Evaluators ARACIS. C11. Engineering Sciences II. (245). Electrical engineering (37). http://pfe.aracis.ro/inscriere/registru/lista_c_d/13/51/

Expert Evaluator National Council for Scientific Research in Higher Education - CNCSIS Certificate no. 1360 of 14.10.2003. <http://www.cncsis.ro/>

The portal of cdi experts from Romania www.experti-cdi.ro

Authorized for the preparation of energy audits <http://www.anre.ro/documente.php?id=896>

Certificate. Methodologies and tools for financing projects through scholarship mechanisms. PosDru 86/1.2/S/62885/ 2011.

- Coordinator of 3 international conferences; Scientific Committee 18 conferences; Moderator of 20 sections of international conferences

Aurelia PĂTRAȘCU

PETROLEUM-GAS UNIVERSITY OF PLOIEȘTI, Professor, President of the Senate

President of the Senate from the Petroleum-Gas University of Ploiești: 2021- present

Dean of the Economic Sciences Faculty: 2016- 2020

Department Manager: 2013- 2016, member of the Economic Sciences Faculty Council and of the Petroleum-Gas University of Ploiești Senate

She has graduated the Faculty of Mechanical and Electrical Engineering from the Petroleum –Gas University of Ploiești. She has received her PhD in in the Economic Informatics domain from Academy of Economic Studies, Bucharest in 2011.

She teaches and coordinates the following disciplines: Introduction to Computer Science, Database Management Systems, Databases, Web Technologies.

Member of the following associations: AFER; AGER

Interest Fields: document management systems, database management systems, web programming and decision support systems.

She is author and co-author of 6 books and 50 articles in the interest fields that have been presented before.

Cătălina NEDELCU

MBA Energy FABIZ, Lecturer

EDUCATION

PhD in Economics, specialization in Management, The Bucharest University of Economic Studies (2015); Master in Economics, specialization in Business Administration, The Bucharest University of Economic Studies (2012); Bachelor in Economics, The Faculty of Management, The Bucharest University of Economic Studies (2010).

RESEARCH AREAS

Intellectual Capital, Knowledge Management, Investments, Corporate Governance, Energy Market.

PUBLICATIONS

1 book chapter, 7 articles published in international databases journals and 8 scientific papers in conference proceedings indexed in Web of Knowledge.

CAREER DEVELOPMENT

Portfolio Analyst at SIF Oltenia (since 2017); Head of Cabinet Secretary of State within the Romanian Ministry of Energy (2016-2017); Vice-president of the National Investments Plan Commission within the Romanian Ministry of Energy (2016-2017); Member of Hidroelectrica's IPO Commission (2016-2017); Board Member at Hidroserv SA (2016); Coordinator of The French Summer School at the Faculty of Business Administration; Certificate of Corporate Governance, London Stock Exchange Group (2016).

Virgil ION
National Qualifications Authority – ANC, Head of Department

- Qualifications Expert and Head of Department at the National Qualifications Authority from Romania (NQA).
- National Expert for ESCO MSWG (European Skills, Competencies, Qualifications and Occupations - Member States Working Group)

Thaddeus ANIM-SOMUAH
WEC, FEL 100
Croda Corporation, Engineering Manager Projects

Employment History

Engineering Manager Projects, April 2019 – Present, Croda

- Created Western Europe Strategy (€300million turnover)
- Led the development of roadmap to reduce global operations emissions by 50%
- Led the implementation of Internal Carbon Pricing
- Led Process Engineering for design phase of 50million€ carbon neutral factory
- Developed and Assessed Energy Transition Technologies & Business Cases
- Led Digital Manufacturing Roadmap and Global Entrepreneurial Cell

Future Energy Leader, May 2021 – Present, World Energy Council

- World Energy Week Live 2021 Speaker, Host and Session co-organizer
- World Energy Trilemma Index 2021 co-author
- Visionarios, World Energy Outlook co-author
- World Energy Issues Monitor Speaker
- World Energy Congress 2022 co-organizer.

Operations & Engineering Lead, September 2012 – March 2019, Croda

- Croda 2020 EMEA Leadership Team
- Process Engineering for Project to reduce 25% of Croda Netherlands Emissions
- Leading Energy Audit of production units
- Led Behavioral Safety & Culture program for 350 Staff
- Managed performance of 12 production units
- Managed multidisciplinary Project Portfolio

Process Engineer (Working Student), June 2009 – August 2012, Procter & Gamble

- Optimization of production processes (€800k/year)

Positions of Responsibility

- Coach, Genoa Entrepreneurship (Georgetown University & Genoa University), 2022
- Industrial Advisory Board Member, University of Southampton 2021-Present
- External Advisory Board Member, Brunel University, 2021-Present
- Advisory Board Member, Global Engineering Futures, 2020-Present
- Executive Board Member, European Federation of Chemical Engineers, 2020-21
- Executive Board Member, European Young Engineers, 2020-21
- Board Member, AFBE UK 2020-Present
- Startup Business Coach, Forward Incubator 2020-2022
- Startup Hub Advisor, World Startup Co 2019-2021
- Board Member, Nederlandse Procestechnologen 2018-Present

Education

University of Manchester (Manchester, England), September 2008 – July 2012 MEng (Hons) Chemical Engineering (Business Management); *Grade: First Class With Semester Abroad at McGill University* (Montreal, Canada)

Awards & Achievements

- 30 Under 30 for Manufacturing & Industry, Forbes Europe, 2020
- Climate Ambassador, GYCN (World Bank Group), 2021
- Solidaritat Sustainability Scholarship, One Young World, 2021
- Young EM Professional of the Year, AFBE UK, 2021
- Climate Pact Ambassador, EU Commission, 2020
- Responsible Care Prize (for Sustainability), VNCI (Dutch Chemical Association), 2017
- Chartered Engineer Member, IChemE 2016
- Member, Mensa 2013
- Top 100 Graduates , Future Leaders Magazine, 2012
- Perry's Book Prize for Academic Excellence, BP, 2009
- Proctor & Gamble University Scholarship 2008

Speaking Engagements and Publications

- Energy Voices Future Thought Leaders Columnist at Illuminem
- Engineering Magazine Editor at NPT Procestechologie
- Monthly Host/Moderator of Startup Tuesday at World Startup 2019-2021
- Regular Host/Moderator of Lectures at Nederlandse Procestechnologen 2018-Present
- Speaker/Moderator of EU Climate Pact webinars and events, 2020-Present
- Speaker on Engineering our Energy Future for NPS17 2022
- Speaker on Energy Trilemma for AFBE Real Projects 2022
- Speaker on Chemistry in the Energy Transition for KNCV C2WLive 2022
- Speaker for Tomorrow's Engineers Schools COP Summit (EngineeringUK) 2022
- Speaker for Arial Foundation International UNEP Energy and Environment Summit 2021
- Speaker for World Energy Week Live 2021
- Speaker on Sustainability, Pakistan Chemical Manufacturing Association 2021
- Speaker on Global Perspectives on Sustainability, EFCE ECF 2021
- Speaker on Engineering for Energy Transition, Global Engineering Futures 2021
- Speaker on Innovation for Green Energy Agenda, IRENA Innovation Week, 2021

Sebastian ENACHE MONSSON, Business Development Manager

Sebastian Enache began his career in one of the first consultancy companies in renewable energy in Romania, coordinating more than 350 wind measurement campaigns all over Europe and designing more than 6000 MW of wind farms and pv plants including the largest onshore wind farm in the world, outside US, Fantanele - Cogealac 600MW wind farm currently owned by CEZ. As a certified engineer and wind expert, hi developed and coordinated one of the first private forecasting services for RES in Romania and conducted data certification campaigns for the industry, introducing on the market the latest state-of-the-art technologies such as LIDAR and SODAR.

Starting with 2010 Sebastian set-up the first private dispatch center in Romania and one of the first in Europe, that is now accommodating successfully more than 35% of Romania's RES capacity. Once MONSSON developed and the strategy of expansion became clearer, hi was promoted as Business Development Manager of the Group, handling worldwide business and services expansion for the Group companies.

In 2014, became Member of the Board of Directors in Monsson where I handled the M&A process of EMON Electric. Since 2014, I started also the first training center company for employees acting in the renewable energy sector, training center now rated in TOP 20 Training Centers certified by GWO – Global Wind Organization, with more than 3000 technicians trained per year, achieving more than 96% market share in Romania.

In 2015 RWEA – Romanian Wind Energy Association had a change of statute and after the elections, and Sebastian became Vice-President of the Association. During 2015-2016 he also served as President of the HSE workgroup of the wind industry and Vice-President of the regulatory workgroup. In 2016 Sebastian was involved as an expert in writing the Romanian Energy Strategy. Starting 2017, became member of the Advisory Board in First Airborne, an Autonomous drone system for industrial services from Israel.

Since 2017, as a result of the involvement in numerous successful RES companies, service developments and transactions, I developed sector-specific knowledge and expertise. Since he started working in Business Development, the operations presence of the Monsson grew in more than 20 countries worldwide.

In 2020, with an experience of more than 15 years in the wind industry, Sebastian was in charge of several M&A's actions for RES projects in Europe with a total value of more than 250 mil EUR for Wind Farms and PV Plants.

Mihaela CONSTANTINESCU
OPCOM, Head of Department - Term Transactions Department

Mihaela CONSTANTINESCU joined OPCOM's team in October 2002.

She graduated the Faculty of Power Engineering at the Polytechnics University of Bucharest, having a license in Hydropower and master in Energy Efficiency, as well as in the Complex Optimization of Hydropower and Water Management. She started her career in a prestigious design institute in energy field, ISPE and was a teacher at the Faculty of Energy - Department of Hydraulics, Hydraulic Machinery and Environmental Engineering.

In almost 20 years of activity within OPCOM, she has been involved in numerous development projects of the Romanian electricity market administrator.

Mihaela TOSU
OPCOM, Expert III, Term Transactions Department

Mrs. Mihaela TOȘU joined OPCOM in 2003 and currently is working within the Long Term Transactions Department appointed to administrate several markets for trading long term electricity contracts.

She has a wide experience and her activity involves transactions settlement on Day-Ahead Market, the administration of the trading platforms specific for the long term markets, organization of the trading sessions, specific market development processes and associated platforms and other related activities. Each of the long term markets has its own specificity such as flexibility in terms of quantity variation and price adjustment, continuous negation market, combined market of buy-sell electricity and green certificates, market for large consumers, PPA's market, and fuel processing market. These markets are opened to all business environment ensuring the necessary mechanisms for any participant.

Teodor CHIRICA
Nuclearelectrica, Chairman of the Board

Currently, Dr. Teodor Chirica is the Chairman of the Board of Nuclearelectrica since 2020. He is a nuclear engineer with a rich experience (over 50 years) in Romanian nuclear industry.

Actively involved in development of the CANDU project in Romania since early '70s, Teodor Chirica worked for ISPE, CITON and RENEL. He served in different managerial positions at Nuclearelectrica (1998-2009) which he lead as CEO between March 2005 and January 2009. Before, he was the Managing Director of AMEC Nuclear Romania (2009-2013), and after being appointed CEO of EnergoNuclear – SPV for Cernavoda Units 3&4 – in November 2013. From 2017, he was back to Nuclearelectrica, as senior adviser to the CEO. Teodor Chirica holds a PhD in nuclear science from the Politehnica University, Bucharest.

Mr. Chirica has a broad international experience, following an year spent within CANDU Owners Group (COG), Canada (1992-1993), negotiation on the international nuclear insurance market, for the first time in Romania, of the insurance policies related to Units 1 and 2 of Cernavoda NPP, negotiation of the financing for the completion of Unit 2 Cernavoda with international banks, but also with EURATOM, as well as the negotiation of the first Investor Agreement for Units 3 and 4, 2008, involving international partnerships. He also has a good knowledge of the European affairs, being in the same time a good connoisseur of the Romanian and European nuclear industries, through voluntary activity with the Romanian Atomic Forum (ROMATOM), where he is one of the founders, and in its affiliation to the European Atomic Forum (FORATOM).

Currently, he is President Emeritus of ROMATOM, FORATOM Executive Officer since 2006 and former President of FORATOM (2018-2020). Also, he is member of the Board of the Romanian National Committee of WEC since 2021.

Ștefan VORONCA
FEL Romania, Expert

Ștefan-Dominic Voronca is a researcher in France at L'Institut National des Sciences Appliquées de Strasbourg in a tri-country European Project between France, Germany and Switzerland. His field of research regards the integration of micro-scale renewable energy sources (solar and biomass) in national and international grids through model predictive controllers (MPC).

Being a cotutelle PhD between INSA Strasbourg and "Politehnica" University of Bucharest (BAC+8), in the field of experimental biomass micro-cogeneration with Stirling engines, his research interests revolve around power and thermal power autoconsumption and prosuming.

Through a Bachelors and Master's degree (BAC+5) double-diploma between Arts et Métiers ParisTech and "Politehnica" University of Bucharest, in the field of renewable energy and sustainable development he gained insight on both French and Romanian power and education systems.

Member and Project Manager in Future Energy Leaders Romania since 2021, and with a 3-year teaching experience, he is coordinating the association's education program "ENPRO", which aims of ensuring a better integration of young engineer graduates in the Romanian energy field, through modules of hands-on teaching in software currently used in the industry.