

Under the auspices of the Romanian Presidency and Parliament



2<sup>nd</sup> Workshop

Promoting

**CO<sub>2</sub> Capture and Storage**  
in Romania

**25 March 2010, Bucharest**  
Palace of Parliament, the "Human Rights" Hall

**"Our constant demand for energy means power plants running 24 hours a day, 7 days a week. Energy consumption is going to rise.  
CO<sub>2</sub> emissions need to come down... fast.**

**CCS alone will provide up to 20% of the reductions we need to make by 2050."**

from [www.zeroemissionsplatform.eu](http://www.zeroemissionsplatform.eu)

# Promoting CO<sub>2</sub> Capture and Storage in Romania

CO<sub>2</sub> CLUB Romania  
ZEP - Zero Emissions Platform  
CO<sub>2</sub> GeoNet  
Bellona Europe  
ISPE - Institute for Studies and Power Engineering  
GeoEcoMar

## Speakers and chair persons

Alexandru Pătruți  
Arnaud Van der Beken  
Bob Pegler  
Carmencita Constantin  
Constantin Sava  
Eric Drosin  
Gheorghe Oaie  
Ioan Dan Gheorghiu  
Isabelle Czernichowski-Lauriol  
Mircea-Ioan Cotoșman  
Paal Frisvold  
Peter Erich Arnold  
Sebastian Vlădescu  
Sergio Persoglia  
Scott Brockett  
Șerban Tudor

## CO<sub>2</sub> CLUB Romania

The Romanian "CO<sub>2</sub> Club", a professional association whose aim is to carry out specific activities for reduction of CO<sub>2</sub> emissions in atmosphere by capture and geological sequestration, was legally set up and fully registered in 2007. The founder's intention was to offer to interested organizations a platform to carry out exchange of ideas, information as well as to carry out common projects, policy proposals or government actions in this field.



To fulfill its aim the Association carries out the following activities:

- Issuing periodical publications of the newsletter type comprising specific information of technical and legal character on local situation on CO<sub>2</sub> emissions control;
- Carrying out specific studies and analyses;
- Promoting specific research projects within national and European programs;
- Exchange and dissemination of ideas, knowledge and experience in the aforementioned field by organizing conferences, workshops, seminars as well as other similar events;
- Implication in lobby activities together with Romanian civic society in front of policy makers in problems of reducing, capturing and stocking of CO<sub>2</sub> emissions;
- Collaboration and cooperation with similar national or foreign organization;
- Supporting the contacts and exchange of information among stakeholders from industry, research and education.

The Romanian CO<sub>2</sub> Club is open practically to all persons and organizations both Romanian or foreign interested in the field of CO<sub>2</sub> capture and geological storage.

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 Contact persons: Dr. Constantin Sava, President, Dr. Amuliu Proca, General Secretary

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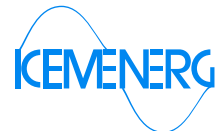
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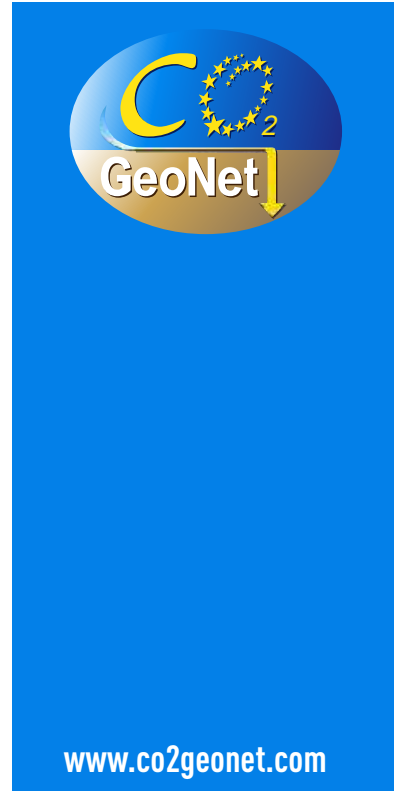
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CO<sub>2</sub>Club Members:

## CO<sub>2</sub> GeoNet

CO<sub>2</sub>GeoNet is

- The European Network of Excellence on geological storage of CO<sub>2</sub>, sponsored by the European Commission under the 6th Framework Programme, promoting research integration within the scientific community to help enable the implementation of CO<sub>2</sub> geological storage
- An integrated European scientific community comprising more than 150 established researchers and postgraduate students, durably engaged in enabling the efficient and safe geological storage of CO<sub>2</sub> as a solution for clean and climate-friendly energy production and consumption
- A partnership between 13 research institutes, spanning 7 European countries, with a high international profile and critical mass in CO<sub>2</sub> geological storage research
- The largest group of researchers in Europe working together on CO<sub>2</sub> geological storage - together, CO<sub>2</sub>GeoNet's partners have the most direct and longest research experience on geological CO<sub>2</sub> storage in the world
- Independent scientific research and expertise integrating a wide range of knowledge.



[www.co2geonet.com](http://www.co2geonet.com)

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Contact person: Mr. Sergio Persoglia

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CO<sub>2</sub>GeoNet Members:

## ZEP

The European Technology Platform for Zero Emission Fossil Fuel Power Plants (ZEP) is a unique coalition of stakeholders united in their support for CO<sub>2</sub> Capture and Storage (CCS) as a key technology for combating climate change.

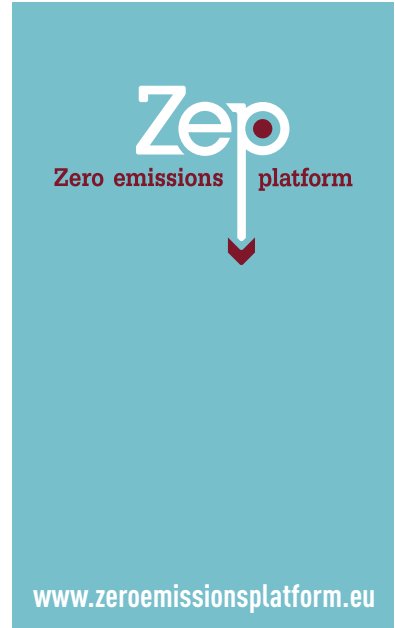
The companies, scientists, academics and environmental NGOs that together make up ZEP have three main goals:

- Enable CCS as a key technology for combating climate change.
- Make CCS commercially viable by 2020 via an EU-backed demonstration programme.
- Accelerate R&D into next-generation CCS technology and its wide deployment post-2020.

Founded in 2005, ZEP is one of 35 European Technology Platforms initiated by the European Commission to bring together a range of stakeholders to guide the development and deployment of key technologies that will result in greater competitiveness, growth and sustainability in the EU including CCS.

Over 200 people from 19 countries actively contribute to ZEP's activities in its role as:

- CCS Advisor and Facilitator - expert advice on all technical, policy, commercial and other related issues.
- CCS Technology Contributor - input on all technology issues, including recommendations for next-generation technologies, taking into account experience gained from the EU CCS Demonstration Programme.
- Respected communicator - educator and authoritative source of information, while being engaging internationally on CCS.



**BELLONA**

## THE BELLONA FOUNDATION

The Bellona Foundation is an international environmental NGO based in Norway. Founded in 1986 as a direct action protest group, Bellona has become a recognised technology and solution-oriented organization with offices in Oslo, Brussels, Washington D.C., St. Petersburg and Murmansk. Altogether, some 75 engineers, ecologists, nuclear physicists, economists, lawyers, political scientists and journalists work at Bellona. Bellona endeavours to identify and implement sustainable solutions to the world's most pressing environmental problems. These include the fight against global climate change, the environmental impact of the oil and gas industry in Europe and Russia and the cleanup after the legacy of the Cold War in Russia.

Global warming is probably the greatest challenge of our time, and reduction of greenhouse gas emissions is of highest priority for Bellona. This is reflected in the thematic areas on which we are concentrating our focus:

- Energy efficiency
- Renewable energy
- CO<sub>2</sub> capture and storage
- Reduction of emissions in the transport sector
- Elimination of toxic waste
- Environmentally correct waste treatment
- Nuclear challenges in Russia
- Sustainable fisheries
- Preventing petroleum activities in the High North.

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# Institute for Studies and Power Engineering



ISPE delivers integrated technical, financial and commercial solutions for Energy (Power and Heat Generation, Transmission and Distribution, including Renewable Energy Sources), Environment, Infrastructure and Other industrial fields. We offer consultancy and engineering services to public and private clients, in Romania and abroad.

At institutional level we offer support for the development of national strategies on energy and climate change issues. We underline our expertise in accessing financing funds and implementing national operational and R&D programs.

ISPE, as national energy project developer leader, is answering to key concerns (security of energy supply, energy efficiency and environmental impact, economic and social benefits) towards a sustainable energy future in Romania.

ISPE provides environmental consulting & engineering services, delivering innovative and clean solutions for business and government clients, in order to manage their environmental and related risks.

Our offices, located in Bucharest and Timișoara, develop services focused on clients needs, in compliance with all EU regulations in force:

- Policy Studies
- Climate Change
- Air Quality
- Site Investigation and Remediation
- Remediation and construction management
- Water Quality
- Integrated waste management
- Health & Safety Services
- Risk management
- Economic Services

The company is certified by TÜV SÜD for the application of the integrated management system QEHS according to ISO 9001, ISO 14001 and OHSAS 18001.

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Contact person: Mrs. Carmencita Constantin, Energy & Environment Division Director

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## GeoEcoMar

The National Institute of Marine Geology and Geo-ecology - GeoEcoMar of Romania, is a research-development institute established in 1993, under the co-ordination of the Romanian Ministry of Education, Research, Youth and Sport. The main activities of GeoEcoMar relate to marine, deltaic and fluvial environmental and geo-ecological studies regarding the ecosystems of the River Danube - Danube Delta - coastal Black Sea geosystem; the environmental impact of anthropogenic structures (civil and hydrotechnical works) that are located along the Danube course and in the Danube Delta; geological-geophysical-geoecological survey of the Black Sea as well as of other marine areas; study of natural hazards in Black Sea environment (submarine landslides, tsunami, major storms, etc). Scientific domains: geology (sedimentology, mineralogy, macro- and micro paleontology),

geophysics (single and multibeam bathymetry, seismo-acoustics, marine gravimetry and magnetometry, electrometry), geochemistry and biology (phytoplankton, zooplankton, zoobenthos), hydrology.

Researches conducted by GeoEcoMar include: Environmental and geo-ecological studies; Studies on Land-Sea and River-Sea interactions and coastal processes (hydrodynamics of the water and sediments, geological structure, sedimentary processes, new mineral resources); Scientific support and technical assistance for littoral and offshore marine engineering; Paleo-ecological and paleo-environmental studies; Studies on geological capture and storage of CO<sub>2</sub>; Environmental and geological impacts of the global and sea level changes in the past and in the present.

In recent years the Institute has started studies and analysis connected with the greenhouse emissions in Romania as well as the possibility of geological storage of CO<sub>2</sub>. GeoEcoMar became a member of EneRG (European Network for Research in Geo-Energy) in 2002 and adhered to CO<sub>2</sub>Net in 2006. Scientists from GeoEcoMar were and are actively participating in FP-6 projects: CASTOR, as subcontractors, EU Geocapacity and CO<sub>2</sub> Net East as well as in FENCO-ERA project: Impact of communication. To boost the activity in this field in 2007 a CO<sub>2</sub> Club was established. Scientists from GeoEcoMar have a large experience in disseminating CCS knowledge in Romania, are involved in preparing a local CCS demonstration project by assessing potential storage sites and provide the geological expertise for the implementation of EU Directive on CO<sub>2</sub> geological storage in Romania.

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Contact person: Dr. Gheorghe Oaie, Scientific Director

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# Alexandru Pătruți

Secretary of State and President of the National Agency for Mineral Resources

Dr. Alexandru Pătruți graduated for his MSc. at the Bucharest University, Faculty of Geology and Geography, specializing in geological and geophysical engineering and has with more than 25 years of experience in geology since. He has been a Doctor in Geology since 1999. His career includes various professional and managerial positions in the research field, industry and public administration.

1984 - 1997, He started as a field geophysicist with the Romanian prospecting and exploration company Prospecțiuni S.A., where he gradually held the positions of Field Team Leader, Head of the Magnetic, Radiometric and Geothermic Prospecting Section and Deputy Chief of the Prospecting Section. between 1984 and 1997.

1997 - 2000, Other assignments included various positions in the State Ownership Fund (1997 - 2000), including that of Head of the Mining and Geology Unit within the Directorate for Privatization and Restructuring of the Metallurgic Industry and Geology, as well as an Expert in the Directorate for the Relations with the International Financial Bodies and Investment Banks where he gained valuable experience in the market economy policies.

During 1995 - 1999, he acted as Associate Lecturer at the Department of Geophysics within the University of Bucharest.

During 2000 - 2009, he took various managerial positions in the private industry sector:

Vice-President, S.C. Mega Company SRL (2000 - 2001)

Director, Directorate for Environment and Mineral Resources, SC Romaqua Group (2001 - 2009)

During In 2009 he joined the Ministry of Economy as Secretary of State where he was responsible for the policies in the mineral resources sector, and .

He has been appointed as Secretary of State and President of the National Agency for Mineral Resources (NAMR) - in October 2009. The National Agency for Mineral Resources (NAMR) is a specialized body of the central public administration under the subordination of the Government of Romania, functioning as a licensing and regulatory Competent Authority under the Petroleum and Mining Laws.

Professional Memberships: include the Association of Romanian Hydrogeologists, the International Association of Hydrogeologists,. He was also a member of the Technical and Legal Group of the European Federation of Bottled Waters (EFBW) during 2005 and 2009.

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## Arnaud Van der Beken

Operations Manager Europe and Africa - Schlumberger Carbon Services



Arnaud Van der Beken is a generalist of the O&G industry. He Graduated from the Ecole Polytechnique in Paris and also owns a Master in Petroleum engineering.

He has been with Schlumberger for 15 years, in charge of Field, Business development and Technical management responsibilities.

He joined the Schlumberger Carbon Services organization 4 years ago and is now Director of CO<sub>2</sub> storage Operations for Europe and Africa.

He and his team are currently involved in several site selection and site characterization projects. They are also involved in the preparation of several of the EU CCS demonstration projects aiming to be ready by 2016.

Key positions:

- 2006-2010: Director of Operations, Europe & Africa Schlumberger Carbon Services, Paris
- 2002-2005: Global Account Manager Schlumberger Information Solutions, Paris
- 1999-2002: Services Manager Schlumberger Test & Transactions, Paris & Brussels
- 1998: Technical Manager Schlumberger Anadrill, Stavanger
- 1994-1997: Field Engineer & Directional Driller Schlumberger Anadrill, Aberdeen, Houston, Maracaibo, Bogota

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## Bob Pegler \*

Senior Vice President - Europe - Global Carbon Capture and Storage (CCS) Institute

Bob is currently the Senior Vice President - Europe of the Global Carbon Capture and Storage (CCS) Institute. Bob's focus is the development of optimal conditions to drive CCS development, working closely with governments, industry and other institutions to break down barriers to commercial-scale project deployment. The formulation of vital collaborative partnerships with other major players (such as the International Energy Agency) is a key element in effectively marshalling resources to realise CCS as a major contribution to abating CO2 emissions and addressing climate change.

As Deputy CEO throughout 2009, Bob played a pivotal role in establishing the Global CCS Institute as an independent company. He was instrumental in shaping its initial work program, including a comprehensive analysis of the global status of CCS and how impediments influence project decisions.

Bob's work at the Global CCS Institute follows an illustrious career in the Australian Public Service spanning more than 30 years, and including work in resources and energy, industry, finance and environment. He has represented Australia in a wide range of fora, including leading delegations and heading up formal negotiation teams at both national and international levels.

For the past 15 years, Bob has worked on issues as diverse as competitiveness, globalisation and market access, resource development, energy markets, and drivers of industry growth. He has considerable experience across policy issues and their integration with the overall economic framework.

At both bilateral and multilateral international levels, Bob has facilitated international trade, industry and energy/resources policy and science and technology collaboration. His international experience has covered the OECD, the International Energy Agency, the WTO/TBT Committee, a wide array of environment forums, including United Nations agencies.



From 2002-06, Bob was Minister-Counsellor in the Australian Permanent Delegation to the OECD and represented Australia's energy and industry policy views at the International Energy Agency and the various industry-related committees of the OECD.

More recently, Bob was responsible for policy formulation and regulation surrounding Australia's mineral resources as Head of Resources Division and as General Manager, Offshore Resources Branch within the Department of Resources, Energy and Tourism. His role encompassed petroleum exploration policy, market access and development of petroleum resources including LNG, policy and the administration / regulation of permits / licences / leases, and the promotion of exploration acreage.

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*\*) The presentation will be held by Stacey Matthews Krsteski on behalf of Mr. Bob Pegler*

## Carmencita Constantin

Director of the Energy & Environment Division - Institute for Institute for Studies and Power Engineering

Mrs. Carmencita Constantin graduated "Politehnica" University in Bucharest Energetic Faculty and presently is finalizing Ph.D. studies within "Politehnica" University in Timisoara with the topic "Contributions to the DHS optimization strategy development in Romania". She is continuously working with ISPE from the University graduation till present, bringing her personal contribution to the company development.

As director of the Energy & Environment Division, she has as main targets:

- to keep ISPE leadership in consulting and engineering services in the energy & environmental national strategies, energy efficiency and heat & power generation projects development, based on fossil fuels and renewable energies;
- to develop ISPE involvement in environmental projects (water, air, soil, wastes and wastes to energy) for energy and other industrial sectors, as well as for local authorities;
- to develop ISPE contribution in structuring energy and environmental projects for accessing EU structural funds.

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She is a member of several professional bodies:

- AC ZEP - Advisory Council of Zero Emission Platform for Zero Emission Fossil Fuel Power Plants
- EPE - European Parliament for Enterprises
- WEC - World Energy Council, the Romanian National Committee
- EIONET - European Environment Information and Observation Network
- SIER - Romanian Society of Thermo-energetic Engineers
- EUROHEAT & POWER

Mrs. Carmencita Constantin is author or co-author of several scientific papers on energy and environmental issues.

She is always looking for a professional reconsideration of the energy sector contribution toward a long term sustainable development of Romania.

## Constantin Stefan Sava

President of the Romanian "CO<sub>2</sub> Club" Association

Dr. Constantin Stefan SAVA, Senior Scientist, Head of Department in the frame of the National Institute for Marine Geology and Geoecology GeoEcoMar ([www.geoecomar.ro](http://www.geoecomar.ro)), has over 35 years of experience in Geological Surveys, with sound experience in design/research activities and supervision and management of specific activities for studies on the Romanian territory as well as the Danube, Danube Delta and the Black Sea Geosystem. As Project Engineer and Project Manager, he was involved in complex prospecting works developed on different geological zones of Romania, within the frame of National and International Projects. Working as a Design Engineer and then as a Senior Research for numerous geophysical prospecting works, Dr. Constantin Stefan Sava gained sound experience in geophysical surveys, developing supervision and management skills. He was awarded with the prize "Gheorghe Murgoci" of the Romanian Academy.

Dr. Constantin Stefan SAVA is ENeRG (European Network for Research in Geo-Energy) National Representative since 2002 ([www.energnet.eu](http://www.energnet.eu)), CO<sub>2</sub>NET Representative for Romania since 2006 ([www.co2net.eu](http://www.co2net.eu)) and ZEP (Zero emissions platform) Government Group Member since 2007 ([www.zeroemissionsplatform.eu](http://www.zeroemissionsplatform.eu)).

Dr. Constantin Stefan SAVA is representing National Institute of Marine Geology and Geoecology - GeoEcoMar as partner in "EU GeoCapacity" ([nts1.cgu.cz/geocapacity](http://nts1.cgu.cz/geocapacity)) and "CO<sub>2</sub>Net East" ([co2neteast.energnet.com](http://co2neteast.energnet.com)) projects, financed by FP 6, as well as in "Impact of communication" project, financed by the Romanian National Center for Programs Management, in the frame of the FENCO-ERA ([www.lignite.gr/CCS](http://www.lignite.gr/CCS)).

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Since 2007 Dr. Constantin Stefan SAVA is President of the Romanian "CO<sub>2</sub> Club" Association ([www.co2club.ro](http://www.co2club.ro)).

Dr. Constantin Stefan SAVA holds a Degree in Geophysical Prospecting, Institute of Petroleum, Gases and Geology, Bucharest and a PhD Engineer Degree in Geology - Geophysical Branch, University of Bucharest.

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## Eric Drosin

Director of Communications - European Technology Platform for Zero Emission Fossil Fuel Power Plants



Director of Communications for the European Technology Platform for Zero Emission Fossil Fuel Power Plants (ZEP), otherwise known as the Zero Emissions Platform.

Mr. Drosin oversees the communications strategy, activities and media relations for ZEP, a unique coalition of stakeholders (companies, scientists, academics and environmental NGOs) united in their support for CO<sub>2</sub> Capture and Storage (CCS) as a key technology for combating climate change.

He has accumulated extensive experience in the field of environmental and corporate communications, having developed Toyota Motor Europe's award-winning "Aim: Zero Emissions" communications strategy which supported the company's activities to become the automotive leader in environmental technologies.

Prior to his work for Levi Strauss Europe and Toyota Motor Europe, Mr. Drosin worked as a journalist for Dow Jones Newswires and as an editor and front page columnist for The Wall Street Journal Europe.

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## Oaie Gheorghe

Senior scientist - general director of the National Institute of Marine Geology and Geoecology

Gheorghe Oaie, PhD of the Bucharest University, Faculty of Geology and Geophysics, is senior scientist and, starting with the fall of 2008, general director of the National Institute of Marine Geology and Geoecology - GEOECOMAR.

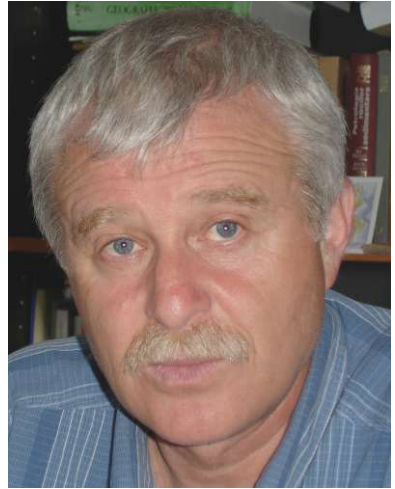
He is former head of Marine Geology and Sedimentology Laboratory (1994 - 2000) and scientific director (2000 - 2008) in GEOECOMAR.

His scientific activity is focused on sedimentology, starting with Precambrian Cambrian and Paleozoic geological formations and ending with the study of the recent marine and fluvial sedimentary processes.

Dr. Gh. Oaie coordinated, or participated in many national and international projects (VI and VII Framework Programmes of European Commission, bilateral cooperation, IAEA projects) and marine scientific cruises in the Black Sea and the Atlantic Ocean.

He was the recipient of a fellowship at the United States Geological Survey (Woods Hole, Massachusetts) and other special postgraduate courses in Romania.

Dr. Gh. Oaie published more than 60 scientific papers, tens of abstracts, 4 geological field trip guides, as main author or co-author, 2 special volumes about natural hazards as scientific coordinator, chapters in scientific books, geological maps and atlases.



He was associate professor of Ovidius University in Constanta, and today he is director in the scientific board of the International Society of Micropaleontology, Meiobenthology and Microbiology (ISMMM), member of Geological Society of Romania, International Association of Sedimentologists, International Association of the River Danube, member of the Executive Committee of the Bucharest Geological Forum (BGF) and member in the Scientific Committee of the Danube Delta Biosphere Reserve.

Oaie Gheorghe, PhD,  
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## Ioan Dan Gheorghiu

Chairman of the Supervisory Board and Chief Executive Officer of the Institute for Studies and Power Engineering



Mr. Ioan Dan Gheorghiu was appointed Chairman of the Supervisory Board and Chief Executive Officer of the Institute for Studies and Power Engineering (ISPE) in 1992, after 6 years of coordinating the engineering activity as Technical Director. He joined ISPE immediately after graduating from Polytechnic Institute of Bucharest - Energetic Faculty - Power Section (1969). Academic distinguishes and activities: "Magna cum laudae" Ph. D. (Eng) with the topic "Management and financial engineering in the energy field"

Associated professor at Oradea Polytechnic University - Energetic Faculty.

Mr. Ioan Dan Gheorghiu has as main professional concern to consolidate ISPE leading position in the field of consulting and engineering services, defining it as the unique energy project developer at national level.

He is constantly involved in global energy issues, such as:

- Developing a sustainable energy future for Romania, through the entire consulting and engineering activity of ISPE
- Developing, as team leader, the national strategy in the field of power and heat generation, transmission and distribution
- Promoting the security of energy supply, rational primary resources use and energy efficiency in Romania and at regional level
- Management of all retrofitting and up-grading programs in the field of power and heat generation, transmission and distribution
- Development and promotion of environmental friendly energy projects
- Promoting the use of RES in Romania and RES technologies development

Mr. Ioan Dan Gheorghiu is a leadership voice in the Romanian energy development strategies and has assumed opinions regarding all issues in the fields of power, oil and gas.

Mr. Ioan Dan Gheorghiu is author or co-author for more than 20 volumes and over 80 scientific papers on energy issues.

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## Isabelle Czernichowski-Lauriol

Vice-Chair of the Executive Committee - CO<sub>2</sub>GeoNet

Isabelle Czernichowski-Lauriol has an engineering degree in geology (ENSG Nancy) and a PhD in geosciences. She joined BRGM, the French Geological Survey, in 1984. Since 1993, she has been managing the institute's pioneering research programme on CO<sub>2</sub> geological storage. As BRGM project leader, and member of the projects' Steering and Technical Committees, she holds a key role in many European and international projects on CO<sub>2</sub> storage.

In 2007 she was appointed Network Manager of the CO<sub>2</sub>GeoNet European Network of Excellence on the geological storage of CO<sub>2</sub> under the FP6 EC contract, after two years as deputy. Upon creation in 2008 of the legal entity CO<sub>2</sub>GeoNet Association under French law, she held the role of Chair of the Executive Committee and is currently Vice-Chair.

She is member of the Technology Task Force of the European Technology Platform on Zero Emission Fossil Fuel Power Plants (ETP-ZEP) and has been twice lead author on storage aspects. She is member of the Board and Seminar Technical Planning Team of CO<sub>2</sub>NET, the European Carbon Dioxide Knowledge Sharing Network. She is France's representative in ENeRG, the European Network for Research in Geo Energy. She also represents France on behalf of ADEME on the Executive Committee of the International Energy Agency Greenhouse Gas Programme (IEAGHG).

Besides research and management, she has experience in professional training, organization of conferences & workshops, media and communication, in the field of CO<sub>2</sub> capture and storage. She was the Chair of the European Science Foundation Research Conference on CO<sub>2</sub> storage, organised by CO<sub>2</sub>GeoNet in November 2009.

CO<sub>2</sub>GeoNet - [www.co2geonet.eu](http://www.co2geonet.eu)

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Web site: <http://www.brgm.fr/brgm/CO2-en/default.htm>



Her technical background is geochemical modeling of fluid-rock interactions, with application to CO<sub>2</sub> storage and in the petroleum, geothermal and environmental fields.

In 2007 she was awarded the Chevalier (Knight) grade of the Ordre national du Mérite, a National Order of Merit awarded by the President of the French Republic.

## Mircea Cotoșman

State Secretary in the Ministry of the Environment and Forestry



Mr. Cotoșman serves as State Secretary in the Ministry of the Environment and Forestry where he coordinates the fields of environmental and nature protection. The most important components, with significant implications to the national economy and the general population, deal with impact assessment of various activities on the environment, pollution control, measures for restraining the climate change phenomenon and adaptation to its effects, as well as waste and dangerous materials management, all these in the context of applying the principle of precaution and the fundamentals of sustainable development. A particular importance is also conferred to protected areas management and biodiversity conservation.

Mr. Cotoșman's priorities are the implementation of the measures established in the environment chapter from the Governing Program, the continuous adaptation and enforcement of legislation meant to ensure the fulfillment of the obligations assumed as an EU member state, without however overlooking the Romanian realities, and the close monitoring of the absorption of EU environmental grant funds, given their strategic role in complementing the financial resources needed for significant and vital projects.

On his personal agenda is listed the accomplishment of a strong partnership with the business community, focused on developing a better understanding and a more comprehensive adoption of ecology principles, while keeping in balance the economic competitiveness criteria. Mr. Cotoșman is especially interested in fostering a privileged collaboration with the non-governmental organizations, the professional associations as well as the educational institutions so that the processes of debate and of raising public awareness regarding environmental protection and ecology issues can proceed at full speed.

Prior to his appointment in early 2010 as State Secretary, Mr. Cotoșman was, for two years, new business and corporate development director for Proiect Arad SA where he expanded the client base and the offer of available services. In 2007 was deputy managing director of McGuireWoods Romania, a business consultancy company, contributing to the opening of the Bucharest office and the contracting of the first clients. Before that, he served for two years as Corporate Affairs Director and spokesperson of Smithfield Romania, representing the company's interests to external constituencies. His two BS degrees (in Business and in Psychology) are granted from Ferris State University (Michigan, USA) where he attended between 2000-2004. He graduated from „Alexandru Papiu Ilarian” high-school in his hometown Targu-Mures.

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## Paal Frisvold

Chairman of the Board - Bellona Europe

Since 2001, Paal Frisvold has been part of the Bellona Energy Team whose main focus is to advocate policies, technological solutions and economic incentives to reverse and stabilise climate change by reducing CO<sub>2</sub> emissions. Frisvold is currently the Chairman of the Board of Bellona Europa aisbl - the Brussels' representation office of The Bellona Foundation.

By working closely with industry and government experts, Paal Frisvold and Bellona's Energy team have contributed to developing strategies for creating a profitable value chain for CO<sub>2</sub> Capture and Storage (CCS). In the endeavour to create political, commercial and public acceptance for CCS at European level, Frisvold is responsible for promoting Bellona's work to the EU institutions as well as the energy and environment policy circles in Brussels. As coordinator of Bellona's participation in European Technology Platform on Zero Emission Fossil Fuel Power Plants (ZEP), Frisvold co-chaired ZEP Working Group on Infrastructure and Environment, and is currently Co-chairing the Task force on Policy and Regulation. He is also member of the ZEP Coordination Group, responsible for the daily operations of the ZEP platform.

Prior to joining Bellona, Frisvold worked four years at the EFTA Secretariat in Brussels as head of the Secretary General's private office and Secretary to the Standing Committee of the EFTA States and the EEA Joint Committee. Prior to joining EFTA, Frisvold headed the Norwegian Shipowners' Association's EU policy unit. He has also worked four years as Director of the Business and Industry Advisory Committee to the OCED, responsible for articulating and advocating private sector views to OECD deliberations on environmental and economic policies. From 1986-88, Frisvold worked in the commercial section of the Norwegian Embassy in Beijing, China.



Frisvold frequently speaks and debates on broader EU policy issues in Brussels and in Norway.

Frisvold holds a Master degree in International Relations from Johns Hopkins University's School of Advanced International Studies (SAIS) and a Bachelor Degree in Political Science from The American University of Paris where he is currently a Member of the Board of Trustees. Frisvold is trilingual in English, French and Norwegian.

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## Peter Erich Arnold

Head of Sales and Marketing - ALSTOM Carbon Capture GmbH



Born in Frankfurt in 1950, graduated from Vienna Technical University (Austria) with the Diplom - Ingenieur degree as Chemical Engineer in 1977.

1977 - Started his career at Lurgi in Frankfurt as process engineer in the Petrochemical Department.

During the first years, he was primarily engaged in olefin plant design and start-up, which was followed by process engineering work for petroleum refining and gas processing projects.

1987 through 1992 – Project Management Consultant for olefin and polyolefin plants of Thai clients which required him to be resident in Japan and Thailand.

1992 – 2004 Director Sales and Marketing of Lurgi Oel Gas Chemie, responsible for Europe and CIS.

2005 – 2009 Director Business Development at Lummus GmbH, Wiesbaden, with responsibility for Central Europe.

2009 – today Director Sales at ALSTOM Carbon Capture GmbH, Wiesbaden.

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Mainz-Kastel (Wiesbaden), Germany

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# Vlădescu Sebastian Teodor Gheorghe

Minister of Public Finance / Romanian Government



After graduating, in 1983, from the Economical Studies Academy, Commerce Faculty, in Romania he improved his skills at Merrill Lynch USA, in the field of capital markets and investments.

Mr. Sebastian Vlădescu started his political carrier in 1997 when he became counselor of the minister of Industry and Commerce for:

- IMF and WB agreements negotiations and implementation,
- Budget planning, capital markets, small and medium enterprises

Shortly after being appointed secretary of state at the Ministry of Industry and Commerce and head of the Financial Division, having as main assignments the national budget and the public debt.

Between 2005 and 2007 he was nominated Minister of Public Finance and thus he became a member of the Romanian government.

Next two years he manages the Privatization Committee at Automobile Craiova (now Ford Romania), as president, successfully selling the state shares, 72.4% Ford Motors for 57mil EUR. In the same period he was the president of the Election Commission for the future manager of the "Property Fund" Company, which is now under Franklin Templeton Investment Management Ltd.

In December 2009 he was appointed Minister of Public Finance.

Between 2000 and 2007 he was member of several executive or supervisory boards at:

- Romanian Commercial Bank (now Erste Bank)
- EXIMBANK External Credits Guarantee Commission
- Romania Savings Bank (now CEC Bank)
- National Privatization Commission Petrom (now Petrom-OMV)
- PETROM Service
- U-Petrom, 1Mai
- National Supervisory Council, president
- Privatization Commission, president

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## Sergio Persoglia

General Secretary - CO<sub>2</sub> GeoNet Association and President 2010 - ENERG



Mr Sergio Persoglia is the Director for International Collaborations at the OGS, that he joined in 1981. Prior to this assignment, he has been head of the team for R & D in Seismics, Director of the department Geophysics of the Lithosphere and Advisor to the OGS President. Expert in seismic data collection and processing, he has been scientific and/or operative responsible for OGS of many national programs (Deep Crust in Italy and the geophysical survey in the seas around Antarctica) and European projects (among which Castor, IncaCO<sub>2</sub>, CO<sub>2</sub>GeoNet, CO<sub>2</sub>ReMoVe, Geocapacity, MovECBM, RISCS).

He acted as Network Manager and, then, as Secretary of CO<sub>2</sub>GeoNet, the European Network of Excellence on the Geological Storage of CO<sub>2</sub>. Actually, he is Secretary General of the association CO<sub>2</sub> GeoNet and President 2010 of ENERG, the European network of research institutes from 31 European countries.

Mr Sergio Persoglia holds a degree in Electronic Engineering of the University of Trieste, Italy.

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## Scott Brockett

Principal Policy Officer for CCS in the European Commission

Scott Brockett is senior policy officer for carbon capture and storage in the Low Carbon Technologies Unit of DG Climate Action in the European Commission. His main responsibilities are the implementation of the CCS Directive 2009/31/EC and the comitology process on the 'NER 300' ETS demonstration support mechanism.

His educational background is in physics and electronics and his previous jobs in the Commission included responsibility for negotiating the IPPC Directive (96/61/EC), drafting the VOC Solvents Emissions Directive (1999/13/EC) and drafting and negotiating the Water Framework Directive (2000/60/EC).



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## Tudor Șerban

Secretary of State, Ministry of Economy, Commerce and Business Environment / Romanian Government



Mr. Tudor Șerban graduated, in 1973, the Polytechnic Institute in Iasi, Electrotechnique Faculty, being specialized in energetic engineering.

Academic distinguishes and awards: in 2000 he received the highest distinction - Knight Order for extraordinary professional results in the energy field and now he is finalizing his Ph.D. degree at the "Politehnica" University in Bucharest.

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152 Victoriei Avenue, Bucharest 010096  
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www.minind.ro

Professional experience and accomplishments:

Mai 2005 - Technical Development Division Director at „Electrica” Company;

2001 - 2005 - Counsellor at „Electrica” Company

2000 - 2001 - General Director at „Electrica” Company;

1999 - 2000 - General Director at the National Power Company CONEL up-grading unit no. 3 at “Portile de Fier 1” HPP; units no.3 and 4 at Turceni TPP; unit no.2, 3 and 4 at Rovinari TPP; units no.3 and 4 Mintia Deva TPP;

1999 - 1999 - General Director at „Electrica” Company;

1996 - 1999 - General Director at IRE Constanța, Power T&D Company;

1989 - 1996 - Director for HV Operation Division at IRE Constanța, Power T&D Company, with more than 50 110 kV electrical substations commissioned in Dobrogea region;

1986 - 1989 - Head of HV Electrical Substation Department at IRE Constanța, Power T&D Company 750 kV commissioning Isaccea HV substation and Cernavodă 400 kV;

1981 - 1986 - Head of HV Electrical Substation Department at IRE Constanța, Power T&D Company commissioning 400 kV Tulcea Vest and Constanța Nord transformation substations; OHTL 750 kV Ucraina Sud - Isaccea - Varna;

1978 - 1981 - Head of 400 kV substations at IRE Constanța, Power T&D Company;

1976 - 1978 - Head of Technical Department for 400 kV substations at IRE Constanța, Power T&D Company;

1974 - 1976 - Deputy Head of Department for 110/400 kV OHTL Dobrogea - Varna at IRE Constanța, Power T&D Company.

Innovations: 1992, Constanța „Maintenance and repair of 750 kV întreruptoarelor, VVN type”

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## Respect for Environment

We enjoy nature



www.infomedi.eu

## Respect for Business

We enjoy competition



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## Infomediu Europa Magazine

### Who are we?

A team of passionate people that share the same goals and initiatives, because we don't look for how we are different but for what we have in common.

Professionals with an experience of over 5 years in the field of environmental protection when it comes to the publishing of an environmental magazine or the organizing of specialized events and original environmental campaigns.



### What do we do?

Since June 2007, we publish the monthly environmental magazine Infomediu Europa, constantly increasing the number of pages - due to the feedback coming from our readers - from 32 pages in June 2007 to 64 pages in January 2008 and to 112 pages in August 2009.

We promote opinions and points of view of authorities in the environmental field, of NGOs activating in Romania or at international level, of academic personalities and specialists in the environmental field.

We attend the most important environmental international events and bring back information on the most debated environmental topics at European and international level and on the best opportunities of investment in the field of environmental technologies.

We organize environmental conferences and campaigns with the involvement of the economic agents and of the institutions of the central and local administration and with the participation of national and international speakers.

We are the initiators of the first Romanian Environment Awards Gala that we have been organizing for three years in December. The awards gala is an occasion for us to praise the green initiatives of all the actors involved in the field.

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## Reporter Economic Magazine



Reporter Economic magazine is a credible leader on the economic publications segment in Romania, offering a series of real time useful information for all the factors involved in economic policy, investment, industry and beyond.

The energy market is now a very important subject for all the specialists in the political and economical field, precisely

because right now, the energy demand is very high and the energy consume is primordial for all activity sectors and for house hold consumers.

Given the importance of the energetic sector, Reporter Economic magazine has created a project debating the issues of this sector. The Energy - opportunities and perspectives section can be found within our publication starting with February 2010.

Within the Energy - opportunities and perspective section we offer you the opportunity to stay connected to the news and realities of the energetic sector while benefiting from the support of specialists that activate in the economic domain and in the academic, scientific and research fields.

The project dedicated to the energetic sector, Energy - opportunities and perspectives has been created by the editorial board of Reporter Economic business magazine, with the purpose of providing pertinent information and generating a relevant debate on actual and interesting subjects for the Romanian energetic sector.

Out of respect for the business field we turn our attention towards the economic agents that activate in the energetic area and we want to accomplish partnerships and collaboration with them within the energetic section of our magazine.

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