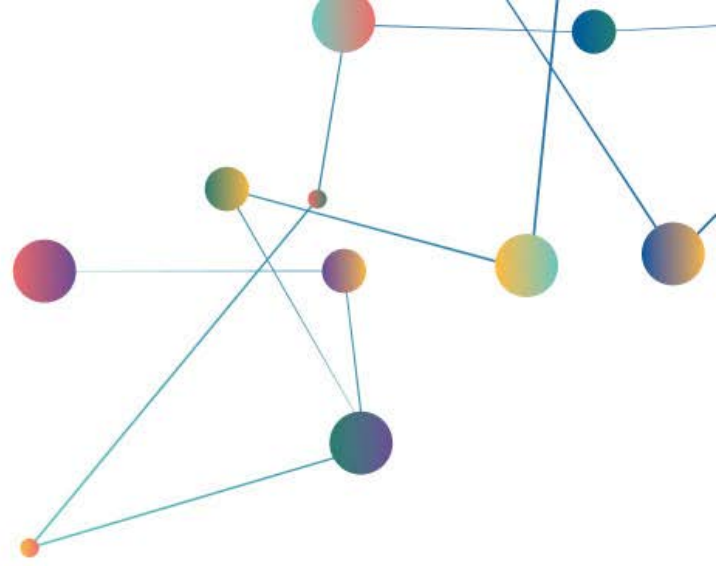


SEPTEMBER 5-6,  
2019

FUNDAÇÃO  
GETULIO VARGA

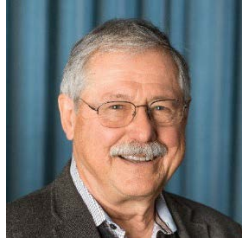
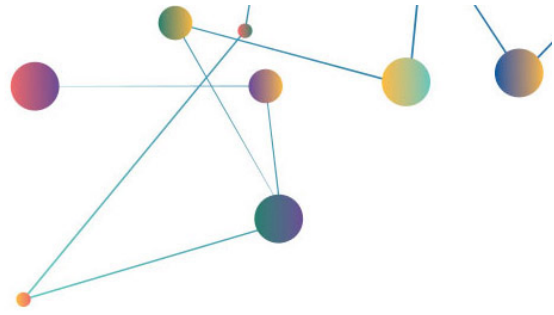
# Systems Analysis and the Americas



## Program and Agenda



# Systems Analysis and the Americas



## Welcome

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On behalf of IIASA, CAPES, the US National Academy of Sciences, the Getulio Vargas Foundation, and the conference scientific and organizing committees, it gives us great pleasure to welcome you to the 2019 Systems Analysis and the Americas Conference.

In 2018, the IIASA Council passed a resolution to co-host a series of regional conferences. This will be the first in a series of events that aims to foster increased dialogue between research and policy communities around systems approaches to resolve regional societal priorities. The focus will be on identifying the role of systems analysis in addressing regional sustainability challenges, while also providing local input into the strategic priorities of IIASA.

In the Americas, countries face regional challenges such as competition for natural resources, transboundary issues, increasing economic inequality, and the need for more effective and sustainable policies. This Americas regional conference will identify shared challenges across countries in the Americas and explore how the multilateral and regional application of systems analysis can be used to overcome them.

We are very pleased that you are able to join us for what promises to be an intellectually exciting and stimulating event and we hope you will take away tools and lessons that you will find both constructive and of value in your future endeavors.

**Albert van Jaarsveld**,  
IIASA Director  
General and CEO

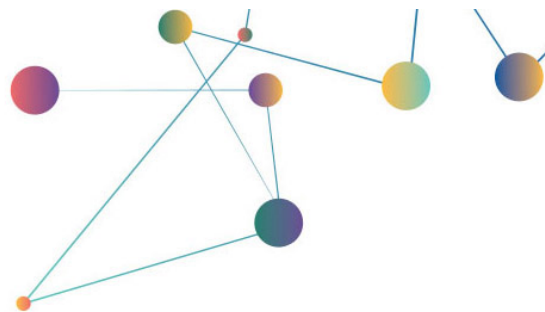
**Anderson Ribeiro Correia**, President,  
CAPES

**Michael Clegg**,  
Chair of the IIASA  
Council,  
representing the US  
National Academies  
of Sciences

**Goret Pereira Paulo**, Director of  
the Research and  
Innovation Network,  
Getulio Vargas  
Foundation (FGV)



# Systems Analysis and the Americas



**Day One**

**Thursday 5 September 2019**

**09:00 – 11:00**

## **Harnessing the Power of Systems Analysis**

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### **09:00 – Welcome and Opening Remarks**

**Anderson Ribeiro Correia**, President, The Brazilian Federal Agency for Support and Evaluation of Graduate Education (CAPES)

**Goret Pereira Paulo**, Director of the Research and Innovation Network, Getulio Vargas Foundation

**Albert van Jaarsveld**, Director General and Chief Executive Officer, IIASA

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### **09:15 – Keynote Presentation**

**Albert van Jaarsveld**, Director General and Chief Executive Officer, IIASA

#### **The Power of Systems Analysis**

How the integrated approach of systems analysis increases efficiencies and effectiveness of government policies

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### **09:45 – Keynote Presentation**

**Mauricio Antônio Lopes**, IIASA Guest Scholar and Former President, The Brazilian Agricultural Research Corporation (Embrapa)

#### **Global and regional challenges benefiting from systems analysis**

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### **10:15 – Keynote Presentation**

**Carlos Nobre**, Senior Researcher with University of São Paulo's Institute for Advanced Studies, Chair of the Brazilian Panel on Climate Change, and International Secretary of the American Geophysical Union (AGU)

#### **Challenges in the Amazon benefiting from systems analysis**

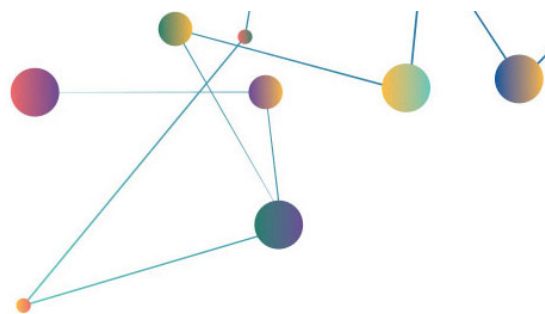
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### **10:45 – Coffee Break**

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# Systems Analysis and the Americas



**11:15 – 12:15**

## **Integrated Approaches to the Sustainable Development Goals**

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Countries that implement the Sustainable Development Goals (SDGs) in an integrated manner will benefit from synergies across the goals and minimize negative side effects from trade-offs. This session will draw on the latest research from IIASA and the Americas on smart approaches to implementing the SDGs.

**Keynote speaker:**

**Nebojsa Nakicenovic**, Former Deputy Director General and Chief Executive Officer, IIASA

**Keynote speaker:**

**Bernardo Strassburg**, Executive Director, International Institute for Sustainability (IIS) and Assistant Professor, Department of Geography and the Environment, Pontifical Catholic University of Rio de Janeiro (PUC-Rio)

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**12:15 – Lunch**

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**13:30 – 15:00**

## **Panel Discussion: Regional Impacts of Systems Analysis**

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Panel members will briefly present major international challenges in the Americas that would benefit from systems analysis followed by a panel discussion on future research directions for systems analysis in the region. Topics may include areas such as risk and resilience to economic, ecological, and social systems arising from global change; novel system-analytical approaches, methods, and tools; changing composition of population; ecological and evolutionary dynamics; air quality management and greenhouse gas mitigation; and much more.

**Moderator: Goret Pereira Paulo**, Director of the Research and Innovation Network, Getulio Vargas Foundation

**Panelists:**

**Jose Eduardo Boffino de Almeida Monteiro**, General Coordinator of ZARC, Brazilian Agricultural Research Corporation (Embrapa)

**Michael Clegg**, Professor Emeritus School of Biological Sciences, Ecology & Evolutionary Biology, University of California, Irvine (UCI) and Chair of IIASA Governing Council

**Eduardo Fracassi**, Leader - Climate Change Awareness Initiative, Instituto Tecnológico de Buenos Aires (ITBA) Business School

**Alberto Palombo**, Secretary, Inter-American Water Resources Network (IWRN)

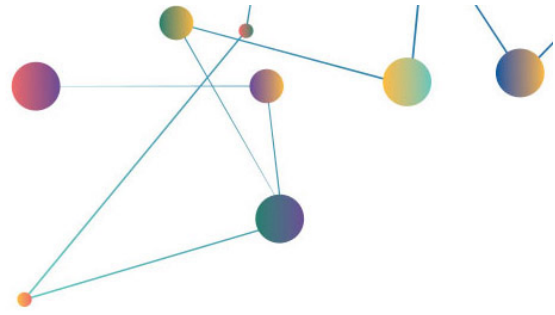
**Eduardo de Rezende Francisco**, Coordinator of Geographical Intelligence for Decision Support, Getulio Vargas Foundation (FGV)

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**15:00 – Coffee Break**

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# Systems Analysis and the Americas



**15:30 – 16:15**

## **Panel and Audience Discussion: Future Strategy Planning: IIASA Strategy 2021-2030**

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Building on the previous panel discussion, this session aims to link the regional challenges for systems analysis with the development of a new strategy for the international research institute, IIASA. It will gather inputs from the panel and the audience on how the IIASA future strategy can focus its research on major societal issues, identify science-based policy solutions, respond to the interest of the broader membership, and compete and collaborate with research organizations studying global problems.

**Moderator:**

**Mauricio Antônio Lopes**, IIASA Guest Scholar and Former President, The Brazilian Agricultural Research Corporation (Embrapa)

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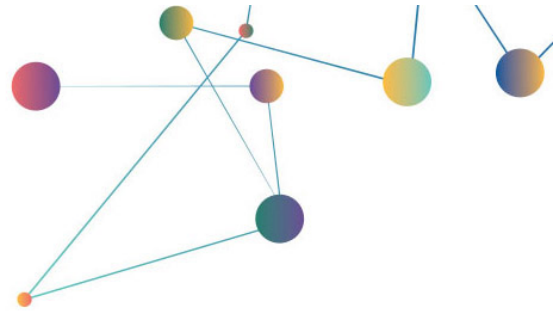
**16:30 – Conclusion of day one**

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# Systems Analysis and the Americas



**Day Two**  
**Friday 6 September 2019**

**09:00 – 09:15**  
**Summary of Previous Day**

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**09:00 – Summary of Previous Day**

**Iain Stewart**, Head, IIASA External Relations, Communications and Library (ERCL) Department

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**09:15 – 10:45**  
**Systems Analysis to Handle Volatility, Uncertainty, Complexity  
and Ambiguity (VUCA) to Aid Policy Making**

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Innovations in new quantitative and qualitative methods from areas including mathematics, statistics, operations research, and management science for addressing problems arising in the policy analysis of complex socio-environmental systems.

**Keynote speaker:**

**Elena Rovenskaya**, Acting IIASA Deputy Director General and CEO and Program Director, IIASA Advanced Systems Analysis (ASA) Program

**Keynote speaker:**

**Edmundo Molina Perez**, Associate Research Professor, The School of Government and Public Transformation of Tec of Monterrey

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**10:45 – Coffee Break**

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**11:15 – 12:45**  
**Energy and New Technologies**

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Future energy transitions, their implications for human well-being and the environment as well as the patterns, drivers, constraints and impacts of technological change, particularly in the areas that are key for framing global sustainability conditions.

**Keynote speaker:**

**Roberto Schaeffer**, Professor of Energy Economics, Federal University of Rio de Janeiro

**Keynote speaker:**

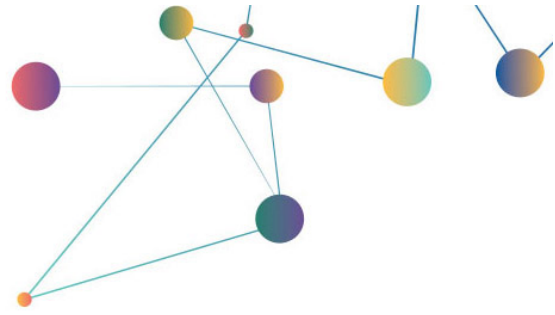
**Eduardo Fracassi**, Leader – Climate Change Awareness Initiative, ITBA Business School

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**12:45 – Lunch**

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# Systems Analysis and the Americas



**14:00 – 15:30**

## **Achieving Sustainable Land Use: Food, Agriculture, Biodiversity, Land, and Energy**

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How can the Americas and its countries identify robust and comprehensive long-term pathways towards sustainable land-use that address the five dimensions of food production, greenhouse gas emissions, biodiversity and forest conservation, freshwater availability, and air and water pollution?

**Keynote speaker:**

**Michael Obersteiner**, Program Director, IIASA Ecosystems Services and Management (ESM) Program

**Keynote speaker:**

**Aline Soterroni**, IIASA Guest Research Scholar and Research Collaborator, Earth System Science Center, Brazilian National Institute for Space Research (INPE)

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**15:30 – Coffee Break**

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**16:00 – 16:30**

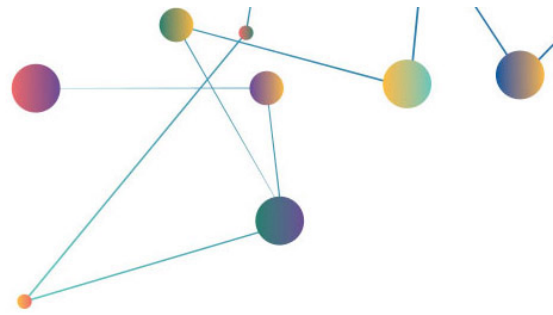
## **Closing Session**

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**Mauro Luiz Rabelo**, Director of International Affairs, The Brazilian Federal Agency for Support and Evaluation of Graduate Education (CAPES) and IIASA Council Member for Brazil

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# Systems Analysis and the Americas



## Conference Partners

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IIASA would like to thank its conference partners and members of its conference committees for their contributions and support in the organization of this conference.



**CAPES**, the Brazilian Federal Agency for Support and Evaluation of Graduate Education, is a Brazilian federal government agency that was created under the Ministry of Education, responsible for quality assurance in undergraduate and postgraduate institutions in Brazil, additionally, CAPES is the National Member Organization representing Brazil on the IIASA Governing Council.

<http://www.capes.gov.br>



**The Getúlio Vargas Foundation (Fundação Getúlio Vargas (FGV))**, was founded in 1944 and is a world-renowned center for quality education dedicated to promoting Brazil's economic and social development. With eight schools, two research institutes, technical assistance projects and a publishing unit, FGV is ranked one of the top think tanks and top higher education institutions in the world.

<https://portal.fgv.br/en>

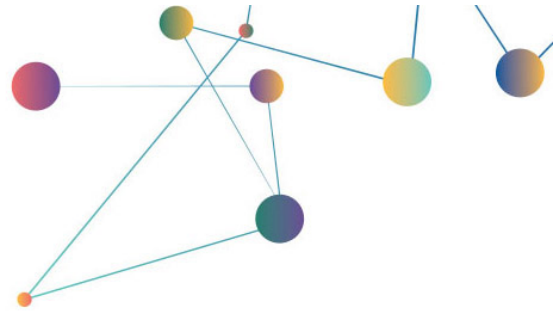


**The National Academy of Sciences (NAS)**, is a private, non-profit society of distinguished scholars. Established by an Act of Congress, signed by President Abraham Lincoln in 1863, the NAS is charged with providing independent, objective advice to the nation on matters related to science and technology. Scientists are elected by their peers to membership in the NAS for outstanding contributions to research.

<http://www.nasonline.org/>



# Systems Analysis and the Americas



## Social Media

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We encourage the use of social media during the event

#IIASAAmericas19

#SystemsAnalysis

Please also remember to tag the conference partners!

@IIASAVienna

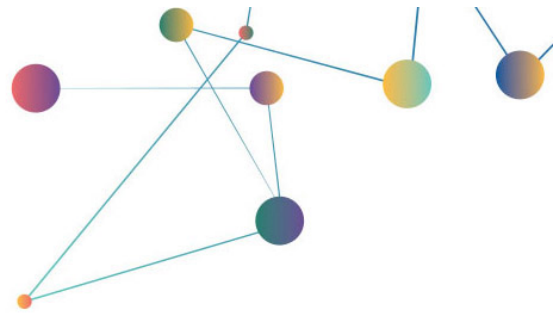
@CAPES\_Oficial

@theNASciences

@FGV



# Systems Analysis and the Americas



## Speaker Biographies – Opening Session

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**Anderson Ribeiro Correia, President, CAPES**

Professor Anderson Ribeiro Correia is the President of CAPES, federal agency of the Ministry of Education in Brazil, responsible for support and evaluation of Brazilian postgraduate education. Professor Anderson holds a PhD in Transportation Engineering from the University of Calgary in Canada. He has been a professor of logistics and air transportation at the Aeronautics Institute of Technology, in Brazil, since 2004, occupying the position of dean from 2016 to 2018. He has supervised more than 40 master and doctoral students, having published about 50 papers in scientific journals. Professional experience also includes consulting and research services for airport and engineering companies.



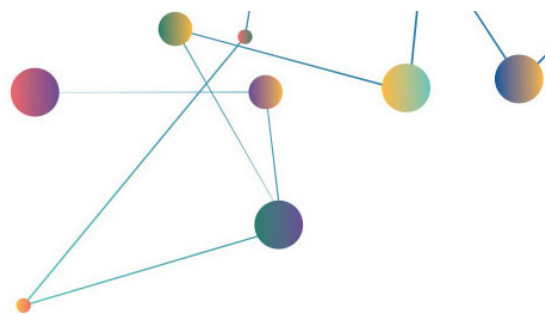
**Albert van Jaarsveld, Director General and Chief Executive Officer, International Institute for Applied Systems Analysis (IIASA)**

Obtained his PhD in Zoology from the University of Pretoria, pursued postdoctoral studies and research in conservation biology and global security in Australia and the UK respectively, and completed executive management training at Harvard University.

Prior to joining IIASA, Van Jaarsveld was the Vice-Chancellor and Principal of the University of KwaZulu-Natal in South Africa, and President and CEO of the South African National Research Foundation (NRF). His career in research, teaching, and leadership includes academic and management positions at the Universities of Pretoria and Stellenbosch as Dean of Science, and as Adjunct Professor: Environmental Studies Program at Dartmouth College, USA.

As Director General and CEO, Van Jaarsveld is responsible for the formulation, management, and administration of all research programs and other activities at IIASA.

# Systems Analysis and the Americas



**Goret Pereira Paulo, Director of the Research and Innovation Network, Getulio Vargas Foundation (FGV)**

Holds a PhD in Public Administration from the São Paulo School of Business Administration (EAESP), a Master's in Economics from the Graduate School of Economics (EPGE) of Getulio Vargas Foundation (FGV), and a Bachelor's in Economics from the Fluminense Federal University (UFF).

She has substantial experience in the areas of gas and electricity and currently manages energy and infrastructure consultancy projects at FGV. She is the Director of the Applied Research and Knowledge Network at FGV and a National Contact Point for the European Commission, namely in the area of Science with and for Society and Inclusive, Innovative and Reflective Societies.



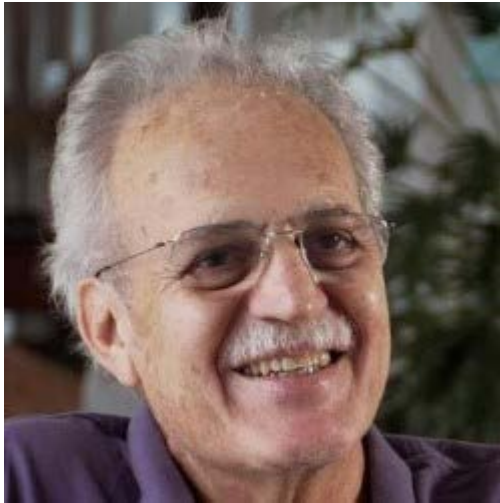
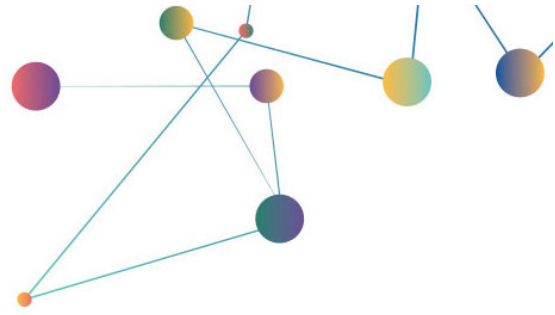
**Mauricio Antônio Lopes, IIASA Guest Scholar and Former Director of the Brazilian Agricultural Research Corporation (Embrapa)**

Joined IIASA in December 2018 as a Visiting Scholar associated with the- Ecosystems Services and Management Program (ESM) and Exploratory and Special Projects (ESP). A plant geneticist by training, he received his BSc degree in Agronomy (1983) from the Federal University of Viçosa, Brazil, MSc degree in Plant Genetics (1989), from Purdue University, USA, and PhD in Molecular Genetics (1993) from the University of Arizona, USA.

He has been a member of the scientific team of Embrapa - the Brazilian Agricultural Research Organization, since 1986. Most recently he was Executive Director of Research and Development (2011- 2012) and President of Embrapa for two successive terms, until October 2018.



# Systems Analysis and the Americas

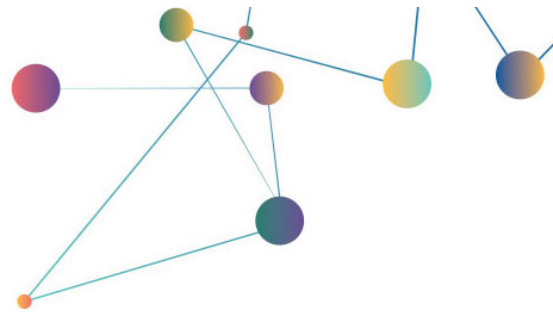


**Carlos Nobre, Senior Researcher with University of São Paulo's Institute for Advanced Studies, Chair of the Brazilian Panel on Climate Change, and International Secretary of the American Geophysical Union (AGU)**

An Earth System scientist from Brazil, he graduated in Electronics Engineering from the Aeronautics Institute of Technology (ITA), Brazil, in 1974 and obtained a PhD in Meteorology from the Massachusetts Institute of Technology (MIT), USA, in 1983. Presently, he is a Senior Researcher with University of São Paulo's Institute for Advanced Studies, chair of the Brazilian Panel on Climate Change, and International Secretary of the American Geophysical Union (AGU).

He is a former Science Director of the Research Project "National Institute of S&T for Climate Change". He is the creator of Brazil's National Center for Monitoring and Alerts of Natural Disasters and of INPE's Center for Earth System Science and was Director of INPE's Center for Weather Forecasting and Climate Studies (CPTEC). Nobre's work mostly focused on the Amazon and its impacts on the Earth system.

# Systems Analysis and the Americas



## Speaker Biographies – Integrated Approaches to the Sustainable Development Goals

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**Nebojsa Nakicenovic, Former Deputy Director General and Chief Executive Officer and Senior Guest Research Scholar, Transitions to New Technologies Program, International Institute for Applied Systems Analysis (IIASA)**

Is the former Deputy Director General/CEO of IIASA, and former tenured Professor of Energy Economics at Vienna University of Technology (TU Wien). Among other positions, Nakicenovic is the Executive Director of The World in 2050 (TWI2050) and Member Ad Hoc Informal Multi-stakeholder Technical Group of Advisors on Sustainable Development Goal 7, United Nations.

Nakicenovic holds bachelors and master's degrees in economics and computer science from Princeton University, New Jersey, USA and the University of Vienna, where he also completed his PhD. He also holds Honoris Causa PhD degree in engineering from the Russian Academy of Sciences.

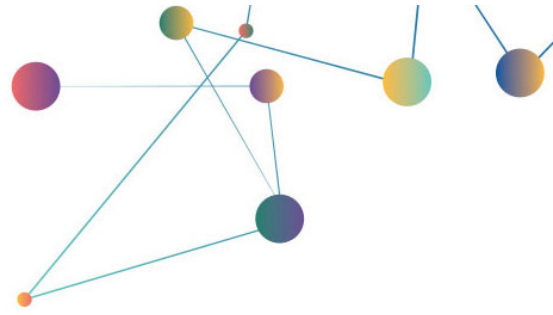


**Bernardo Strassburg, Executive Director, International Institute for Sustainability (IIS) and Assistant Professor, Department of Geography and the Environment, Pontifical Catholic University of Rio de Janeiro (PUC-Rio)**

Is founder and Executive Director of the International Institute for Sustainability (IIS) in Rio de Janeiro, coordinator of the Centre for Conservation and Sustainability Science (CSRio) and Assistant Professor at the Pontifical Catholic University of Rio de Janeiro (PUC-Rio).

Bernardo is an economist with a M.Sc. in environmental planning (focused on land-use change and ecosystem services in the Amazon), and Ph.D. in Environmental Sciences, focused on issues related to reducing emissions from deforestation and forest degradation (REDD+).

# Systems Analysis and the Americas



## Speaker Biographies – Regional Impacts of Systems Analysis

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**Eduardo Monteiro, General Coordinator of ZARC, Brazilian Agricultural Research Corporation (Embrapa)**

Is a researcher at the Agroenvironmental Modeling Laboratory at the Brazilian Agricultural Research Corporation (Embrapa) in Campinas, Brazil.

Dr. Monteiro works in research projects on crop modeling, agroclimatic risk, agricultural zoning and climate change and. Presently, he coordinates the National Network for the Agricultural Climate Risk Zoning (Zarc) used in the Ministry of Agriculture's public policy programs, Progaro and PSR.

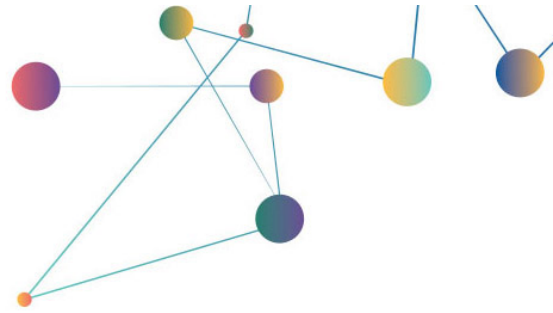


**Michael Clegg, Professor Emeritus School of Biological Sciences, Ecology & Evolutionary Biology, University of California, Irvine (UCI) and Chair of IIASA Governing Council**

Is Chair of the IIASA Governing Council and represents the US National Member Organization, the National Academy of Sciences. Clegg was the Chair of the institutional review committee, which recently conducted an independent, comprehensive evaluation of IIASA including all structures, processes, and activities. The review's findings were presented in June 2017, and the council and management are now working to take forward the key recommendations.

Clegg's scientific career has spanned over four decades: He obtained his PhD from the University of California, Davis, in 1972. Since then, he has served on the faculty of four universities, until his retirement in 2014. Most recently, he was Donald Bren Professor of Biological Sciences at the University of California, Irvine.

# Systems Analysis and the Americas



**Eduardo Fracassi, Leader – Climate Change Awareness Initiative, ITBA Business School**

He led the Kiri Team—comprising engineering students and professionals, and a lawyer—which won the 2016 Climate Colab MIT competition in the industry category. Together with Fabian Szulanski and Claudia Castro Kuriss, Eduardo has helped to improve the World Climate Simulation.

Since 2013, he has organized more than 25 World Climate Exercise and World Energy workshops in Argentina, Colombia, Brazil and Costa Rica working with the Latin American System Dynamics Society chapter and others. Eduardo has participated in several UNFCCC COPs, since 2015 and was appointed a World Climate Ambassador in February 2016 by Climate Interactive.

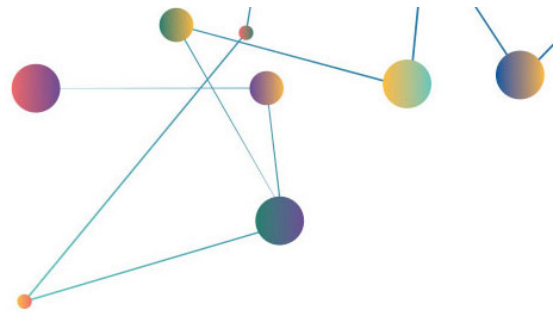


**Alberto Palombo, Secretary, Inter-American Water Resources Network (IWRN)**

Is currently the Secretary of the Inter-American Water Resources Network (IWRN) that organizes the Inter-American Dialogues on Water Management, and contributor to the World Water Forums.

Palombo is an industrial engineer by training with graduate studies in systems engineering and operations research from the University of Tennessee, Knoxville, USA. He is a Ph.D. candidate in integrated water management at the joint program of the Mexican Institute of Water Technology (IMTA) with the National Autonomous University of Mexico (UNAM). His career has focused on issues related to water management, environment and regional development.

# Systems Analysis and the Americas



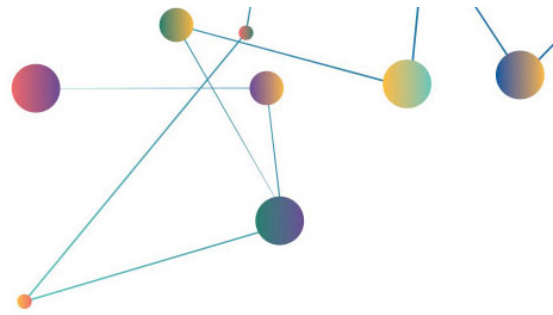
**Eduardo de Rezende Francisco, Coordinator of Geographical Intelligence for Decision Support, Getulio Vargas Foundation (FGV)**

Holds a doctorate (2010) and a master's (2006) degree in Business Administration from the Getulio Vargas Foundation - EAESP and holds a degree in Computer Science from the Institute of Mathematics and Statistics of the University of São Paulo (1999). He has been Full Professor of the Department of Computing and Quantitative Methods of FGV-EAESP since 2011, Professor of the NDE at the Information Systems Course (TECH) of ESPM (coordinator of the Digital Business Intelligence track) since 2014, Executive MBA and Masters Professional in Consumer Behavior (MPCC) of ESPM since 2015.

He teaches disciplines related to Geoinformation, Big Data, Business Analytics, Analytical Intelligence, Applied Statistics and Spatial Statistics. He has been the ESPM coordinator of the MBA in Big Data Applied to Marketing (EAD modality) since September 2016 and the ESPM's "Big Data Analytics in Decision-Making" Short Course.

**Goret Pereira Paulo** will moderate this panel session, she is also participating in the opening session of the conference and her biography is included earlier in this program.

# Systems Analysis and the Americas



## Speaker Biographies – Systems Analysis to Handle Volatility, Uncertainty, Complexity and Ambiguity (VUCA) to Aid Policy Making

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**Elena Rovenskaya, Acting Deputy Director General and Chief Executive Officer and Program Director, Advanced Systems Analysis (ASA) Program, International Institute for Applied Systems Analysis (IIASA)**

Graduated from the Faculty of Physics, Lomonosov Moscow State University, Russia in 2003. She received her PhD from the Faculty of Computational Mathematics and Cybernetics at the same institution in 2006. In 2005, Rovenskaya participated in the IIASA Young Scientists Summer Program and she has been collaborating with researchers at IIASA since 2006.

In 2014, she became the Director of the ASA Program and in 2018, she also took up the role as Evolution and Ecology (EEP) Acting Program Director. In these functions, Rovenskaya leads a team of more than 50 international interdisciplinary scientists who focus on the latest developments in applied mathematics, operations research, and statistics to provide more efficient and effective tools for addressing policy relevant problems.

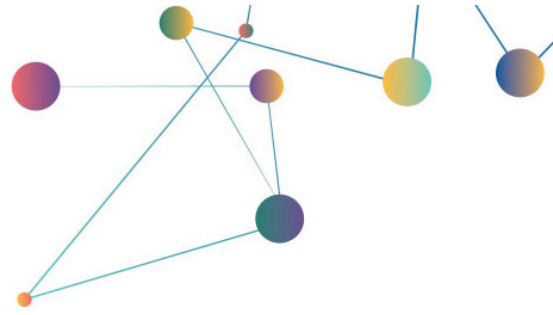


**Edmundo Molina Perez, Associate Research Professor, The School of Government and Public Transformation of Tec of Monterrey**

His work focuses on the development of new computational methods for studying socio-technological systems, and the use of Data Science methods for decision analysis under conditions of deep uncertainty. He currently leads applied research work on Mexico's water and energy sectors developing new simulation models and assisting stakeholders in decision making processes.

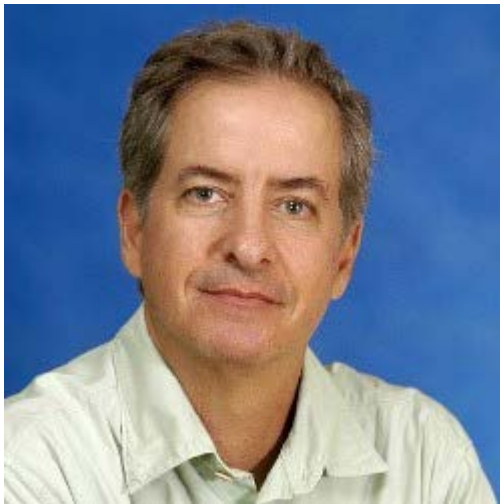
He is also project leader in two of Conacyt's Energy Knowledge Networks and lead developer of the Data Driven Decision Analysis Environment (3D-AE) and teaches courses on systems modeling, advanced simulation techniques, econometrics and microeconomics.

# Systems Analysis and the Americas



## Speaker Biographies – Energy and New Technologies

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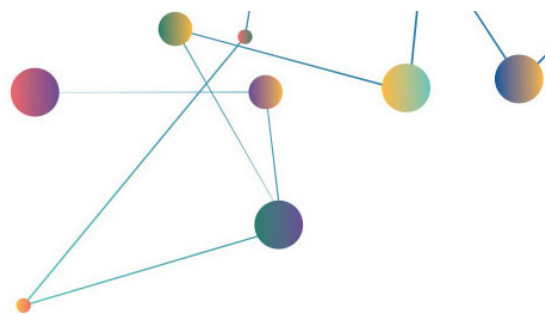
**Roberto Schaeffer, Professor of Energy Economics, Federal University of Rio de Janeiro**

Teaches and conducts research in the Energy Planning Program of the Universidade Federal do Rio de Janeiro, Brazil, where he currently holds a Full Professorship in Energy Economics. He holds a Ph.D. in Energy Management and Policy from the University of Pennsylvania (USA, 1990).

Dr. Schaeffer has already supervised more than 140 master dissertations and PhD theses, and published more than 300 scientific papers in the fields of energy and climate change, including publications in high-impact journals like *Nature*, *Nature Climate Change* and *Science*. His main area of competence is in integrated assessment of climate change and coupled energy-economy climate modelling.

**Eduardo Fracassi** will be the second speaker in this session, he is also participating in the panel session Regional Impacts of Systems Analysis and his biography is included earlier in this program.

# Systems Analysis and the Americas



## Speaker Biographies – Achieving Sustainable Land Use: Food, Agriculture, Biodiversity, Land, and Energy

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**Michael Obersteiner, Senior Research Scholar, IIASA Ecosystems Services and Management (ESM) Program**

Was Program Director of the Ecosystems Services and Management (ESM) Program at the International Institute for Applied Systems Analysis (IIASA) in Laxenburg, Austria until June 2019, and will assume the directorship of the Environmental Change Institute in Oxford part time as of 1 October 2019 and full time from 1 October 2020.

He joined the IIASA Forestry Program in 1993 and had led and developed the ESM Program, which is currently the largest research program at IIASA with over 100 staff, from 2011 until June 2019.

His background includes the fields of global terrestrial ecosystems and economics, having completed graduate studies both in Austria and abroad.



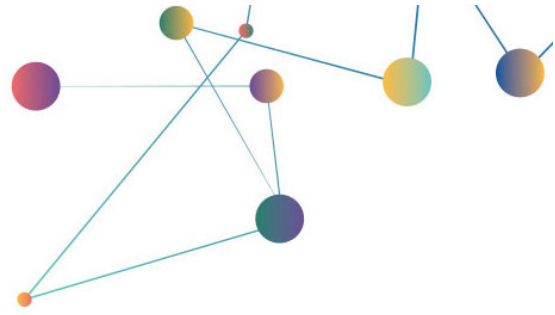
**Aline Soterroni, IIASA Guest Research Scholar and Research Colaborator at the Earth System Science Center, Brazilian National Institute for Space Research (INPE)**

Joined IIASA's Ecosystems Services and Management (ESM) Program as a guest research scholar in June 2016. Dr. Soterroni holds a master's and PhD degree in Applied Computing from the Brazilian National Institute for Space Research (INPE). Her background is in applied mathematics and computing with a special focus on optimization techniques for global optimization.

Since 2012, she has contributed to the development of the regional version of the GLOBIOM-Brazil model in the framework of the REDD-PAC project that has been jointly carried out between IIASA and INPE. to further developing of GLOBIOM-Brazil and other regional studies.



# Systems Analysis and the Americas



## Speaker Biographies – Closing Session

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**Mauro Luiz Rabelo, Director of International Affairs, The Brazilian Federal Agency for Support and Evaluation of Graduate Education (CAPES)**

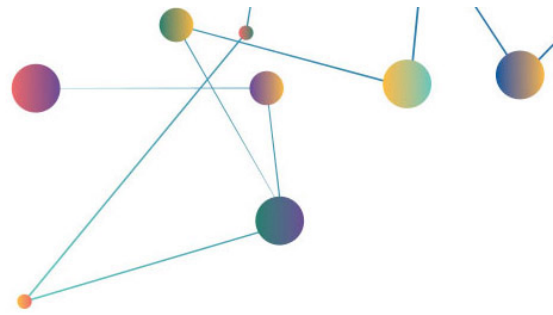
Holds a master's (1982) and PhD in mathematics (1987) from the University of Brasilia (UnB). Postdoctoral studies at Stanford University (1991-1992) and visiting professor at Yale University (1988). Professor in the Department of Mathematics at University of Brasilia (since 1985) and Director of International Affairs – Brazilian Federal Agency for Support and Evaluation of Graduate Education (CAPES) - Ministry of Education.

Secretary of Higher Education of Brazil – Ministry of Education (Jan – Apr 2019). Director for the Development of the Network of Federal Higher Education Institutions at the Secretariat of Higher Education – Ministry of Education (Nov./2016 – Dec./2018). He was awarded with the Medal of the National Order of Educational Merit, in the position of Knight in 2018.

Mauro has extensive experience in mathematics, with emphasis on differential geometry, and in the area of educational assessment, with emphasis on systems and program evaluation, item construction for large-scale assessments and skills assessment. He also acted as a reviewer and assistant coordinator in the analysis of mathematics textbooks of the National Textbook Program.



# Systems Analysis and the Americas



## Conference Scientific Committee

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**Jorge Audy, Vice President for Research, Innovation and Development, Pontifical Catholic University of Rio Grande do Sul**

Holds a degree in Information Systems at PUCRS (1983), masters in Information Systems area at UFRGS (1990), Specialization in Management of Multimedia Arts and Technologies at PUC Rio de Janeiro and IBM (1992) and PhD in Information Systems area at UFRGS (2001). Pos doctorate at TUSPARK (Tsinghua University Science Park, China) and PTA (Malaga University, Spain). Full Professor of the Polytechnic School of PUCRS (Pontifical Catholic University, Brasil). Superintendent for Innovation and Development at PUCRS. Researcher in computer science, with research areas in Software Engineering, Information Systems and Project Management.

Member of SBC - Brazilian Computer Society, SBPC - Brazilian society for the advancement of science., AIS - Association for Information Systems, PMI, IEEE and ACM.

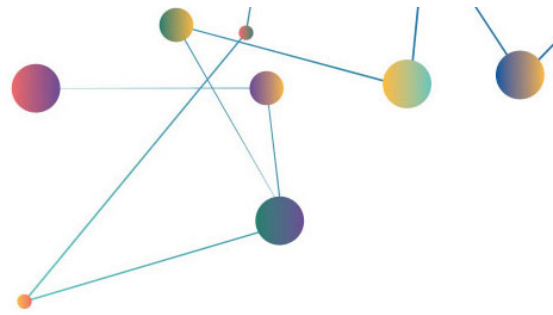


**Kathie Bailey, Director, The National Academies of Sciences, Engineering, Medicine, Board on International Scientific Organizations (BISO)**

Directs the Board on International Scientific Organizations (BISO). BISO is the primary unit within the National Academies of Sciences, Engineering, and Medicine (NASEM) that handles the U.S. membership in the International Institute for Applied Systems Analysis (IIASA), the International Science Council, and 17 ISC-affiliated international scientific organizations.

Besides providing overall leadership and direction for the unit, Ms. Bailey works directly with the U.S. Committee for IIASA, the U.S. National Committees for astronomy, math, optics, SCOSTEP, and the Pacific Science Association. She was an appointed member of the Department of State's U.S. National Commission for UNESCO, and its committee for the International Hydrological Programme and the Intergovernmental Oceanographic Commission.

# Systems Analysis and the Americas



**Carlos Henrique de Brito Cruz, Scientific Director, São Paulo Research Foundation (FAPESP)**

An electronics engineer and a physicist, Brito Cruz is a professor at the Gleb Wataghin Physics Institute, of the State University of Campinas (Unicamp). He was the Rector of Unicamp from 2002 to 2005.

He graduated in electronic engineering at the Aeronautics Technology Institute of (ITA in the Portuguese acronym). He took a master's degree and a doctorate at Unicamp's Gleb Wataghin Physics Institute. He has been a professor at the Unicamp's Physics Institute since 1982. Presently is a full professor at the Quantum Electronics Department.

Brito Cruz is a member of the Brazilian Academy of Sciences and a Fellow of the American Association for the Advancement of Science. He received the Ordre des Palmes Academiques de France, the Order of the Scientific Merit from the Federative Republic of Brazil and the Order of the British Empire, Honorary (OBE) in 2015.



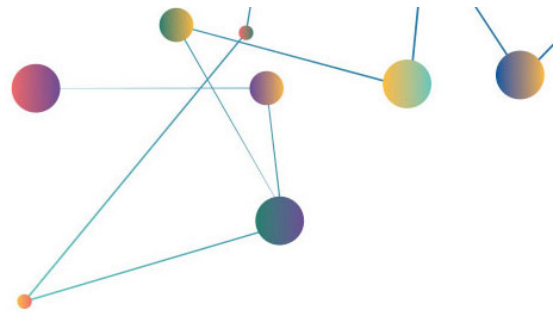
**Claudio José Struchiner, Full Professor of the School of Applied Mathematics (EMAp), Getulio Vargas Foundation (FGV), Rio de Janeiro**

Is a full professor at the School of Applied Mathematics (EMAp) at Fundação Getulio Vargas (FGV), Full Professor (retired) at Fundação Oswaldo Cruz (FIOCRUZ) and Associate Professor at the State University of Rio de Janeiro (UERJ).

He earned a Medical Doctor degree from Federal University of Rio de Janeiro (UFRJ) in 1976 and a Master's degree (1981) from the National Institute of Pure and Applied Mathematics (IMPA). He also holds a Sc.D. in Populational Dynamics of Infectious Diseases from Harvard University (1988). He is a senior researcher with the Brazilian Research Council (CNPq) and has been a visiting Professor at the University of Montreal and a Fullbright scholar at Yale University.

The scientific committee also includes, **Michael Obersteiner**, **Elena Rovenskaya** and **Roberto Schaeffer**, who are speakers at the conference and whose biographies are included earlier in this program.

# Systems Analysis and the Americas



## Conference Organizing Committee

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**Verônica Fenocchio Azzi, International Coordinator of the Office of Applied Research at Fundação Getulio Vargas (FGV)**

Is a PhD candidate at the Institute of International Relations at the Catholic University of Rio de Janeiro, Brazil (PUC-Rio). She holds an MA in International Politics and Public Policy from the University of California, San Diego (UCSD) and a BA in International Relations from PUC-Rio.

She has previously worked as a research associate at the University of California, Los Angeles (UCLA) and currently works as International Coordinator of the Office of Applied Research at Fundação Getulio Vargas (FGV).

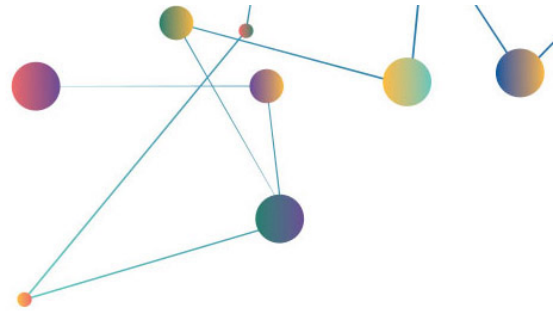


**Tom Danaher, External Relations Officer, International Institute for Applied Systems Analysis (IIASA)**

Joined IIASA in 2014, he is currently the External Relations Officer, working closely with both the Head of the External Relations, Communications and Library Department and the External Relations Manager in strengthening relationships with the IIASA member countries and their representative National Member Organizations. Previously at IIASA, he worked in various roles within the Directorate Office and is the former co-chair of the institutes Clerical, Administrative, and Professional Staff (CAPS) committee (2017-2018).

Prior to joining IIASA, Tom worked for many years organizing and coordinating large-scale conferences, events and travel for a number of corporate and public sector clients, including Johnson and Johnson, the training company LexisNexis, and for the UK Government, including the Home Office, HM Prison Service, and the Department for Education.

# Systems Analysis and the Americas



**Pablo Gabriel Ferreira, Science and Technology Analyst at the Brazilian Federal Agency for the Support and Evaluation of Graduate Education (CAPES)**

Is a Science and Technology Analyst at the Brazilian Federal Agency for Support and Evaluation of Graduate Education (CAPES).

He is substitute head for strategic partnerships with the Global North and is currently in charge of managing cooperation programs between CAPES and partner institutions in Germany and Austria. He has a master degree in International Relations from the Universidade Federal Fluminense (UFF) and in Philosophy from the Universidade Federal do Rio de Janeiro (UFRJ).



**Iain Stewart, Head, External Relations, Communications and Library (ERCL), International Institute for Applied Systems Analysis (IIASA)**

Iain Stewart joined IIASA in 2005 and is the Head of the External Relations, Communications, and Library Department. This role also sees Iain working closely with the IIASA Director General and Council to strengthen and enhance relations with the 22 countries that have IIASA membership.

He is a former journalist (UK's Sunday Times and Business 2.0 magazine) with over nineteen years' experience in communicating research to diverse audiences. Prior to IIASA, he ran the press office of the UK's Economic and Social Research Council. He has a bachelor's degree in Anthropology and Sociology and the UK's Chartered Institute of Public Relations postgraduate qualification in public relations.

