



**RODNEY JOHN ALLAM (UNITED KINGDOM)**

**The Global Energy Prize International Award Committee Chairman. The 2012 Global Energy Prize laureate. Partner of 8 Rivers Capital, LLC. Member of the Intergovernmental Panel on Climate Change (IPCC), awarded with the Nobel Peace Prize in 2007.**

A lead author of the IPCC (Intergovernmental Panel for Climate Change) special report on carbon dioxide storage and capture awarded with the Nobel Peace Prize in 2007. Member of the Most Excellent Order of the British Empire (MBE) and renowned chemical engineer who is credited with inventions related to power generation. Awarded with the Global Energy Prize for the development of new processes and equipment for production of gases and cryogenic liquids, as well as for the development and implementation of technology for production of electricity in power systems. Inventor of the Allam power cycle, which is a process for converting fossil fuels into mechanical power while capturing the generated carbon dioxide and water. Thus, this technology allows generating low-cost power from carbon-based fuels without producing air emissions. Additional advantage - production of electricity at the same low cost as other modern gas-fired turbines – about 6 cents per kilowatt-hour. The first 50-megawatt Allam Cycle plant fueled by natural gas is being built now in Texas. The first major plant is planned to be launched up in 2020.



**ADNAN AMIN (UAE)**

**Member of the Global Energy Prize International Award Committee, Director General of the International Renewable Energy Agency (IRENA).**

Adnan Amin has 25 years of experience and recognized achievements in the world scene, primarily in the field of sustainable development, international energy, environmental policy, and an impressive record of accomplishments in the development and management of international organizations. Under his leadership IRENA became the global authority on renewable energy, replenished with new members (currently there are 152 of them with 28 states in accession). Adnan Amin particularly emphasizes the importance of IRENA's close work with the Russian government to stimulate the growth of the role of

renewable energy in Russia. Our country has joined the agency in 2015. Previously, the expert served as the Head of the United Nations System Chief Executives Board for Coordination (CEB) Secretariat. Major initiatives to counteract climate change and the financial crisis were proposed precisely during his time in this position. Adnan Amin was also the Director of the New York Office of the United Nations Environment Program (UNEP) and the Executive Director of the Secretariat of the Secretary-General's High-Level Panel on UN System-wide Coherence.

Mr. Amin is a development economist specializing in sustainable development. He holds a degree of Master of Philosophy in Development Studies from University of Sussex.



### **SERGEY ALEKSEENKO (RUSSIA)**

**The 2018 Global Energy Prize laureate, Head of heat and mass transfer's laboratory of Institute of Thermophysics of the RAS Siberian Branch.**

Sergey Alekseenko is an expert in thermophysics, energy and energy saving. The main areas of research of the scientist include the development of thermophysical foundations of the modern power and energy saving equipment creation.

From an applied point of view, his basic scientific efforts are focused on the problems related to the development of ecologically safe thermal power plants (modeling of combustion of gas, coal and liquid fuel), new types of burners, methods for thermal processing of solid domestic waste to generate thermal energy, as well as modeling of natural gas liquefaction processes, development of thermal and hydraulic safety standards

for nuclear power plants, etc.

In 1979, he defended his thesis “Experimental research of two-dimensional wave flow of liquid films” for the scientific degree of candidate of physical and mathematical sciences. From 1997 to 2017, he was a Director at Institute of Thermophysics, since autumn of 2017 he is a Head of division in the Institute, he is also a Chairman of the Joint scientific council on power, mechanical engineering, mechanics and management processes of the RAS Siberian branch, Head of heat and mass transfer's laboratory of Institute of Thermophysics of the RAS Siberian Branch.

Since 2016, he is a full member of the Russian Academy of Sciences.

Sergey Alekseenko is the initiator of the wide application of petrothermal energy (Earth's internal heat) as one of the most recent global energy trends.

In 2012, the scientist received the Award of the Government of the Russian Federation for the research work “Vortex technologies in power engineering”. In 2018, he was awarded the honorary title “Honored Scientist of the Novosibirsk Region”. The Metropolitan Macarius' Prize winner in the nomination ‘Scientific Research in the field of Rational Environmental Management, Ecology and Environmental Protection’ (2018).

Sergey Alekseenko is an author of more than 300 scientific papers, including 6 monographs and 130 papers published in peer-reviewed scientific journals. He holds 33 patents. His Hirsch index (h-index) is equal to 17, citations - 1268.



**RAE KWON CHUNG (SOUTH KOREA)**

**The Global Energy Prize International Award Committee member, UN Secretary-General's High-level Expert and Leaders Panel (HELP) on water and disasters, Adviser to the Chair. Member of the Intergovernmental Panel on Climate Change (IPCC), awarded with the Nobel Peace Prize in 2007.**

Professor Emeritus at Institute of Convergence Science and Technology of Incheon National University, Korea.

Mr. Chung advocated Low Carbon Green Growth as a new paradigm to sustain economic growth and job creation while coping with the risk of climate change since 2005. He promoted the idea of transferring publicly-owned technologies in Agenda 21 and proposed the idea of unilateral CDM to enable developing countries to initiate green-house gas mitigation projects on their own initiative. For his contribution to the report of IPCC on technology transfer as lead author, he received a personal copy of Nobel Peace Prize awarded to IPCC in 2007. He holds the position of Advisor to the Chair of High-Level Expert and Leaders Panel (HELP) on Water and Disasters under the UN Secretary-General. Previously he served as Climate Change Ambassador, Principal Advisor on Climate Change to the Secretary-General of the UN and as Director for Environment and Development of the UN ESCAP (Economic and Social Commission for Asia and the Pacific).

## **SUN XIANSHENG (CHINA)**



**The Global Energy Prize International Award Committee member. Secretary General of the International Energy Forum (IEF).**

Dr. Sun Xiansheng took up post as IEF Secretary General on August 1, 2016.

Prior to his election Dr. Sun was the President of China National Petroleum Corporation's (CNPC) Economics and Technology Research Institute (ETRI) where he led a team of over 370 staff members.

Reporting to the Chinese leadership on energy policy decision making, including energy security strategies, "3E" (Energy, Environment, Economy) program development, low-carbon energy mix optimization, "three steps" of Chinese gas pricing reforms, and international energy cooperation. Dr. Sun was deeply involved in the Chinese energy five-year planning process and many other major policies. He also served as Chief Editor of ETRI's "Oil and Gas Industry Development Report" and the first "China Energy Data and Statistics" reports.

Dr. Sun has more than 30 years of experience in the oil and gas industry. In previous roles he has served as Director of the Legal and Contract Department of CNPC International Cooperation Bureau, Vice President of CNODC (China National Exploration and Development Company), Chairman of JOC and President of Greater Nile Petroleum Operating Company CNPC and also President of PetroDar company. As Chairman of Saining Corporation CNPC, Dr. Sun was in charge of CNPC petroleum trading in London. He also served as Chairman of the CNPC subsidiary companies in Azerbaijan and Uzbekistan, and as Chairman and Chief Negotiator of China Kazakhstan Oil Pipeline Co.

Moreover, as a representative of the Chinese government, Dr. Sun participated in the dialogue with OPEC and worked as chief coordinator in setting and revising production sharing contracts both for crude oil and unconventional gas for CNPC, and participated in three bidding rounds for CNPC onshore blocks.

Dr. Sun holds an LLM and Ph.D from the Centre for Energy, Petroleum and Mineral Law and Policy (CEPMLP), University of Dundee, UK.

**TOM BLEES (USA)**



**The Global Energy Prize International Award Committee member. President of the Science Council for Global Initiatives (SCGI).**

Tom Blees is an advanced energy systems consultant currently residing in Florida, USA. He is the author of *Prescription for the Planet - The Painless Remedy for Our Energy & Environmental Crises*. Mr. Blees is the president of the Science Council for Global Initiatives (SCGI), an international NGO that includes climatologists, scientists, and engineers involved in cutting-edge energy systems and climate research.

He has acted as a consultant and energy systems advisor to private industry and government from the local to the international level. Blees is actively involved in encouraging and coordinating high-level international cooperation on advanced nuclear power system and fuel cycle projects with the USA, Russia, South Korea, Japan, China, the United Kingdom, South Africa, and other countries.



**MARTA SZIGETI BONIFERT (HUNGARY)**

**The Global Energy Prize International Award Committee member. Hungarian Business Leaders Forum (HBLF), Board Member, Environment and Sustainability WS Leader, Advisor to AGGROINOVA/University of Turin Scientific Committee**

Mrs. Bonifert is also member of the board of the CEE Gender Network, member of the board and the head of environmental committee of the Hungarian Business Leaders Forum (HBLF), member of the EBRD's Environmental and Social Advisory Council (ESAC), member of the global advisory board of Tokyo University.

For more than 25 years, she worked in important positions for government, multinational-businesses and international and national environment agencies. Mrs. Bonifert was the executive director of the Regional Environmental Center for Central and Eastern Europe (REC) for 14 years.

Mrs. Marta Szigeti Bonifert earned a master in business administration from the Katz Graduate School of Business at the University of Pittsburgh (USA). She also holds a degree in management from the International Management Center (Hungary) and earned a bachelor of science from the University of Kuwait (Kuwait).

**LIU HONGPENG (CHINA)**



**The Global Energy Prize expert. Director, Energy Division, United Nations Economic and Social Commission for Asia and the Pacific (ESCAP).**

Mr. Liu has been working on energy issues at ESCAP for over 10 years. He is currently leading the energy team in ESCAP to promote regional energy cooperation with focus on implementation of the Sustainable Development Goal 7 in achieving the 2030 Agenda for Sustainable Development and energy connectivity for regional economic cooperation and integration. His work ranges from conducting policy studies, organizing intergovernmental meetings and policy dialogues and providing advisory services to facilitating regional cooperation on sustainable energy development in Asia

and the Pacific.

Prior to joining ESCAP, he was an employee of the Chinese government as an energy expert. He currently promotes regional energy cooperation in the Asia-Pacific region and publishes reports on energy issues in the region.

Mr Liu has over 30 years' experience on sustainable energy. Prior to joining the United Nations, he served as government official in charge of energy policies and plans, new and renewable energy industry development, energy and water conservation, environment industry development the central government of China.



### **DAVID FAIMAN (ISRAEL)**

**The Global Energy Prize International Award Committee member, tenured professor at Ben-Gurion University**

Professor of Physics and Chairman of the Department of Solar Energy & Environmental Physics at the Blaustein Institutes.

Engaged in research in the field of applied solar energy.

Faiman's work attempts to use concentrated sunlight and a solar panel to produce more electricity than believed possible. He and his team designed a reflector that concentrates light so strongly that it can burn organic material, and then directs it at a solar panel that collects and converts it into electricity twice as efficiently as standard panels. Faiman's team feels this discovery is a way to mass-produce solar energy to be cost competitive with fossil fuels.

He is Professor of Physics and Chairman of the Department of Solar Energy & Environmental Physics at the Blaustein Institutes. He is Israel's representative to the Task 8 Photovoltaic Specialist Committee of the International Energy Agency and co-authored their book, *Energy from the Desert: Practical Proposals for Very Large Scale Photovoltaic Systems* (James & James, London, 2007).



### **NIKOLAI VOROPAI (RUSSIA)**

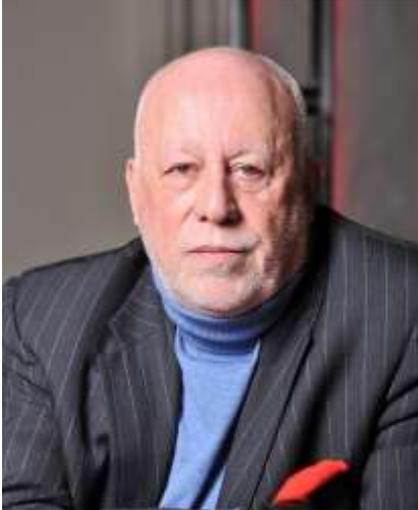
**Member of the Global Energy Prize International Award Committee. Scientific adviser of Melentiev Energy Systems Institute, Corresponding Member Of The Russian Academy Of Sciences.**

He graduated from Leningrad (St. Petersburg) Polytechnic Institute in 1966. N. Voropai received his PhD degree from Leningrad Polytechnic Institute in 1974 and the degree of Doctor of Technical Sciences from the Siberian Energy Institute in 1990. He has been with Melentiev Energy Systems Institute since 1966. He was Director of this Institute within 1997-2016. He is Professor and Head of Department at Irkutsk Technical University now.

His research interests include: modeling of power systems, operation and dynamics performance of large power grids; emergency protection and control of power grids; reliability and security of energy systems, power industry restructuring.

N. Voropai is Corresponding Member of the Russian Academy of Sciences, IEEE Fellow, CIGRE Member, IFAC Member, Member of Electrotechnical Academy of the Russian Federation. N. Voropai is a Member of Editorial Boards of Scientific Journals: Review of Russian Academy of Sciences, Energy; Energy Policy, Russia; Electricity, Russia; Energy Problems, Azerbaijan; International Journal on Global Energy Interconnection; International Journal of Energy Optimization and Engineering. He is a Member of International Steering Committee of IEEE Power Tech Conference. He was the Chair of 2005 IEEE St. Petersburg Power Tech Conference and the Member of International Program Committees of many International Conferences. He is Advisory Board Member of Asia Pacific Energy Research Centre, Technical Committee Member of Global Energy Interconnection Development and Cooperation Organization.

He is the author of more than 600 scientific publications.



### **DOMINIQUE FACHE (FRANCE)**

**The Global Energy Prize International Award Committee member. Member of the Board of Directors of Technopark Sofia-Antipolis, Chairman of the Board of Directors of RTF, an independent director.**

Dominique Fache graduated from the Sorbonne University majoring in engineering.

1993 – 2003 Regional Director of Schlumberger Group for Russia and CIS countries (the world's largest oilfield services company). In 2003-2005, he held the position of Adviser of the Russian Technical Oil and Gas Conference and Exhibition of the Society of Petroleum Engineers.

Since 2006 - Member of the Board of Directors of the Siberian Coal Energy Company (SUEK). Chairman of the Board of Directors of the Center for New and Innovative Technologies of OJSC SUEK.

2007 - 2008 General Director for Russia and CIS, Enel. 2008 - 2013 Chairman of the Board of Directors, President of Enel Russia.

He founded the company RTF (“Russian Technological Fund”), engaged in the search for investors for technological start-ups. He is on the board of directors of KEGOC (Kazakhstan Electricity Grid Operating Company).

Founder of Club de Nice, which organizes European Energy Forum. Member of the Market Council professional community of energy companies of Russia (2008-2013). Member of the Council of Power Producers (2008 - 2013). Member of the Board of Directors of the European Business Association (2011). Chairman of the Supervisory Board of SUEK Corporate University (2006 - 2007).

Founder of a series of science and innovation events, conferences and festivals for Sophia Antipolis science park, the largest research center and workplace for companies in the field of computing, electronics, pharmacology and biotechnology.



## **LAURENCE KEMBALL-COOK (GREAT BRITAIN)**

### **Founder and CEO of Pavegen Systems**

Graduated with a degree in Industrial Design and Technology from Loughborough University.

He founded Pavegen in 2009, which produces floor covering systems that instantly convert the energy of human movement into kinetic. The innovative dalles are made of flexible waterproof material obtained from the processing of used tires, which make it strong and makes it resistant to abrasion. The dale`s body is made of special stainless steel. When pressed, the upper face bends 5 millimeters, and causes the integrated capacitance to generate electricity. Electricity can be stored in a lithium battery or sent directly to power the lighting of advertisement panel, window displays, bus stops, etc.

Laurence has established a reputation as a powerful communicator and thought-leader on both technology and entrepreneurship. He is regularly invited to give keynotes and has recently presented at CES, Vegas, the RSA, London Tech Week, GITEX and the 2018 Conservative Party Conference.



### **SAURO PASINI (ITALY)**

**The Global Energy Prize Expert, past director of Enel Research, consultant in the field of energy and President of the International Flame Research Foundation**

Sauro Pasini spent his professional life in Enel, with different roles in Research and Engineering, always focused on development and implementation of new generation technologies. Member of VGB Technical Advisory Board and EPRI Research Advisory Committee, he has always been at the forefront of technological development in the power sector. Specialist in combustion, radiation heat transfer and mathematical modelling, he designed the conversion of Enel fossil fleet to comply with emission reduction policies. More recently, as Director of Research, he was active in the fields of zero emission power generation, renewable energies, distributed generation and energy efficiency, managing Strategic Research for all the world-wide Companies of the Group.



### **ULI LEMMER (GERMANY)**

Uli Lemmer received the Diploma degree from RWTH Aachen University in 1990 and a Ph.D. from the University of Marburg in 1995. From 1995 to 1996, he held a postdoctoral position with the University of California at Santa Barbara. He was heading the Organic Optoelectronics group at the University of Munich from 1996 to 2002. In 2002, he was appointed a full Professor and Director of the Light Technology Institute, Karlsruhe Institute of Technology (KIT). Since 2006, he is also the coordinator of the Karlsruhe School of Optics & Photonics (KSOP) and since 2013 he acts as a co-director of the Institute of Microstructure Technology at KIT. He also serves as the director of the Device Physics group in the public-private partnership institution InnovationLab in Heidelberg and he is a cofounder and mentor of several spin-off companies. His research interests are in the fields of optoelectronics, photovoltaics, energy efficient light emitting devices, energy harvesting and optical sensor systems.



### **VEIT HAGENMEYER (GERMANY)**

Professor for Energy Informatics and Director of the Institute for Automation and Applied Informatics, KIT-Department of Informatics and Mechanical Engineering at the Karlsruhe Institute of Technology (KIT).

Veit Hagenmeyer is the spokesperson of the Energy System Integration project of the Helmholtz Association, the Living Lab Energy Campus at KIT, the Topic Tools in Helmholtz Initiative Energy System 2050, the Topic Energy in Software Data Innovation Lab, the Topic Networks and System Integration in Helmholtz-Programme Storage and Crosslinked Infrastructures as well as of the Smart Energy System Simulation and Control Center in EnergyLab of the Helmholtz Association. Furthermore he is a Director of the

BMBF Kopernikus ENSURE project, a member of the advisory board of efficacy (French research organization), the personal think tank of the President of the Helmholtz Association, and of the Editorial Board of Energy Technology.

His research interests lie in Energy Informatics, Energy System Integration, and in Energy System design. Currently he and his team are engaged in the development of software-in-the-loop platforms for control center software, large-scale real-time co-simulation of energy grids, Power-Hardware-in-the-loop test fields, machine learning and big data for energy status data, advanced control and stochastic optimization of energy grids, and in cyber security for energy systems.



### **THORSTEINN INGI SIGFUSSON (ICELAND)**

#### **The 2007 Global Energy Prize laureate, Director General of the Innovation Center of Iceland**

Innovation Centre of Iceland, Director General.

The scientist is prominent for his great contribution to the use of low-temperature geothermal resources for electric power and heat generation and for his unique experiment on a “hydrogen society” in Iceland.

Thorsteinn Sigfusson has developed programs on the use of hydrogen fuel and its storage at gas stations. The world’s first hydrogen refueling station was opened in Iceland in 2003, and in 2005, the first cars running on hydrogen fuel appeared in Iceland’s market. The Government of Iceland plans to begin

using hydrogen as transport fuel within a few years. 20 years later, the Icelandic New Energy Company believes, the country will be able to use only renewable energy with hydrogen and batteries as energy carriers. Professor Sigfusson actively cooperates with Russian scientists in a number of areas. He has led a Megaproject with Tomsk Polytechnic University. The project concerns the development of fuel cells that can make electricity from hydrogen. Such high-power fuel cells may be used as power source for distribution units, as stand-by generators and may be used at CHPs.

Professor Sigfusson holds a PhD in Physics from University of Cambridge, U.K. where he was elected Research Fellow of Darwin College.