



Pan-Eurasian Experiment

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**Sofia Earth Forum- 1<sup>st</sup> Symposium on Grand Challenges, Solutions and Legitimacy**  
**Culture Centre Sofia, Helsinki, FINLAND**  
**20-22 June 2016**

### Speakers

#### **Metropolitan Ambrosius, Diocese of Helsinki, Orthodox Church of Finland**



Ambrosius is the current Metropolitan of Helsinki. He matriculated from the Joensuu Lyceum in 1964. He completed the degree of Master of Theology at Helsinki University in 1968. He also completed the degree of Master of Political Science in 1972.

#### **Prof. Andrey Belotserkovsky, Rector, Tver State University, Russia**



Andrey Belotserkovsky is a professor, Doctor of Physical and mathematical sciences and the Rector of Tver State University, one of the leading classic universities in Russia. He is the President of the regional council of Rectors, member of the Council of the Russian Rector's Union, the President of Tver regional office of the Russian Geographical Society, the member of the Academic council of the Russian Geographical Society, member of the Coordinating Council on the field of education "Mathematical and Natural Sciences" of the Russian Federation, member of the Public Chamber of the Tver region. He is an European Higher education reform expert (HERE). His research interests are in the areas of: Remote sensing of the Ocean and Atmosphere, Nowcasting,

Mesoscale modeling, Satellite and Radar imagery analysis. Educational research areas are the following: competency-based education, qualification frameworks, quality assurance, CAL, new educational technologies.

#### **Prof. Jaana Bäck, University of Helsinki, Finland**



Prof. Jaana Bäck is currently working at the Department of Forest Sciences, University of Helsinki, and previously she has worked in the University of Eastern Finland and University of Oulu, as well as in Lawrence Livermore National Laboratory, University of California in Berkeley and Cornell University Boyce Thompson Institute, USA. She is an expert in forest ecology and ecophysiology, especially in the ecosystem-climate interactions. She has contributed to the development of conceptual understanding on how biosphere processes influence the atmospheric composition and processes and simultaneously slow down the climate change especially in Boreal and Arctic regions. Prof. Bäck is leading the '*Ecosystem processes*'-research group, and in charge of the ecosystem research at the SMEAR measurement network. Prof. Bäck is author of >100 papers in peer-review journals and books. She has participated in three Finnish Centers of Excellence (2002-ongoing until



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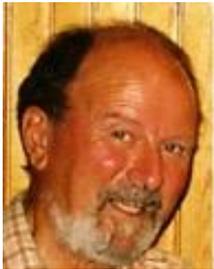
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2019), two Nordic CoEs (2003-2016) and the Pan-Eurasian Experiment (PEEX). Currently she is leading the EASAC assessment on 'Sustainability of European forests', and participating in the ESFRI AnaEE as a WP leader, SC member and Finnish Focal point.

**Prof. David G. Gee, Professor Em, Department of Earth Sciences, Uppsala University, Sweden**



Prof. David G. Gee is working with research projects concerning mountain building processes in northwestern Eurasia, particularly Scandinavia, and the high

Arctic. He has been the Vice-President (science program) of the 33rd International Geological Congress (Oslo, 2008) and previously President of the European Union of Geosciences. He has been instrumental in promoting the integration of European geoscience, especially with the merging of geology and geophysics into today's European Geosciences Union. During the 1990's, he was the leader of ESF's pan-European EUROPROBE program, involving over thirty countries, with integrated geological-geophysical investigations, ranging from the Urals to the Iberian Peninsula and the Barents Shelf to the Mediterranean. At present, in close collaboration with Chinese and Indian colleagues on investigations of the Himalaya-Tibet Orogen. He has had many publications, several PhD students and a few prizes. He is a member of Academia Europaea, the Royal Swedish Academy of Sciences, the Royal Physiographic Society in

Lund and several geological societies. He is dedicated to keeping science clean!

**Prof. Sergey S. Horuzhy, Institute of Philosophy RAS, Russia**



Theologian, philosopher, mathematician, theoretical physicist.

Sergey Horuzhy is a Professor of physics at Institute of Philosophy of Russian Academy of Sciences. He is the director of Institute of synergic anthropology. He has also worked as a Professor of Mathematical Physics at Steklov Mathematical Institute of the Russian Academy of Sciences and as a Professor of philosophy at Institute of Philosophy of the Russian Academy of Sciences. Horyzhy is an Honorary Professor of UNESCO, the Chair of Comparative Studies of Religious Traditions. He has published 14 books and more than 300 articles in areas of philosophy and theology and 2 books and about 70 articles in areas of physics and mathematics. Many of his philosophical and physico-mathematical works are translated into English and other languages, including Serbian, Hungarian, Chinese and Korean and others.



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### **Mr. Aleksi Härkönen, Finland Arctic Ambassador, Finland**



Aleksis Härkönen is the Ambassador of Arctic Affairs of Finland since 2014. Previously he worked as Ambassador in the Finnish Embassy in Tallinn 2010-2014. He

has also worked as Adviser and Member of the Cabinet of the President of the Republic of Finland 2009 – 2010, Head of the Finnish OSCE Chairmanship Task Force 2007-2009, Finland's Permanent Representative to the OSCE in Vienna 2002-2007, Deputy Director General of the Security Policy and Arms Control Division, Political Department at the Ministry for Foreign Affairs 2000-2002, Director of the Unit for Security Policy, Political Department at the Ministry for Foreign Affairs 1998-2000, Special Assistant to the Minister for Foreign Affairs 1995-1997. He got the degree of Master of Social Sciences from University of Helsinki in 1977.

### **Archbishop Jakov of Narjan-Mar and Mezen, Russia**



Archbishop Jakov has served as bishop in Narjan-Mar orthodox diocese since 2012. He has studied in Lomonosov University of Moscow, Faculty of English Philology. He attended

1985-1988 Seminar Moskva and 1988-1992 Academia Moskva.

### **Mr. Jouni Keronen, Director, Climate Leadership Council, Finland**



Jouni Keronen is the Executive Director of the Climate Leadership Council. He has previously worked for the Fortum Corporation as the Vice President of Innovation and

development (2010-2014) as well as Business Process Development (2008-2010). Keronen is a Doctor of Technology in electric engineering, graduated in 1991 from Tampere University of Technology. He also holds euroMBA degree from Helsinki University of Technology. Keronen is the founder and former CEO of Here-to-There Consulting Oy. In 2014 he served as the Senior Adviser for both The Finnish Innovation Fund Sitra and RAMSE Management Consulting. He has received several acknowledgements such as the Finnish Influencer of the year in the energy sector (2011) and CIO of the year (2008). In 2012 he received the title of Knight of the Order of the Lion of Finland. He has been a member of the National Information Society Council of Finland for four years and member of the National Information Security Council in Finland for six years. From 2000-2002 he was a member of the board of ZAO Leivo, a Finnish-Russian telecom company.



### **Prof. Markku Kivinen, Director, Aleksanteri Institute, Finland**



Markku Kivinen is a professor of sociology and the director of the Aleksanteri Institute of the University of Helsinki, Finland, since 1996. Kivinen's academic expertise is social theory, Russian domestic and foreign policy, transition studies in comparative perspective, social inequality, power and democracy, cultural structures and macro processes. He has more than 300 publications on key sociological topics. He is director of the Finnish Graduate School for Russian and East European Studies, as well as many research projects funded by the Academy of Finland, EU and NordForsk. Since 2012 Kivinen is leading one of the Academy of Finland's Centres of Excellence (CoE) in Research, "Choices of Russian Modernisation". [4] Kivinen has also published a novel *Betonijumalia* in Finnish and it is translated into German (*Betongötter*). Markku Kivinen was awarded the City of Helsinki Research Prize in 2014.

### **Prof. Atte Korhola, University of Helsinki, Finland**



Atte Korhola is Professor in Environmental Change and Leader of Environmental Change Research Unit (ECRU, <http://www.helsinki.fi/bioscience/ecru/>) at the Department of Environmental Sciences, University of Helsinki. He is also Vice-Dean of Societal Interaction of the Faculty of Biological and Environmental Sciences. He is expert in climate change impacts, aquatic

ecosystems, peatland dynamics, carbon cycling, and long-term climate & ecosystem change, and he has more than 100 publications in international peer-reviewed journals on these topics. Professor Korhola is President of the Paleoclimate Commission (PALCOM) of the International Union for Quaternary Research (INQUA), Member of the Environment Panel of the European Academies Science Advisory Council (EASAC), Member of the Board of the Nordic Committee on Bioethics (NcBio), NordForsk, former Member of the Research Council for Biosciences and Environment of the Academy of Finland and Coordinator of international IGBP PAGES Arctic2k Programme. Korhola is Fellow of the Finnish Business and Policy Forum (EVA) and has acted as Consultant and Adviser for several companies/enterprises in climate matters.

### **Prof. Salomon Kroonenberg, Delft Univ. of Technology, The Netherlands**



Salomon Kroonenberg is Professor of Geology, Delft University of Technology, the Netherlands (1996-emeritus since 2009), Honorary Professor Moscow State University (2008-present) and Chairman of the Scientific Advisory Committee of the ITN Horizon2020 programme Drivers of Pontocaspian Biodiversity Rise and Demise (2015-present). Earlier in his career he was Professor of Geology at Wageningen University, the Netherlands (1982-1996), Chairman Earth and Climate Council (RAK) of the Royal Netherlands Academy of Arts and Sciences KNAW (2000-2005) and



Chairman of the Royal Netherlands Geological and Mining Society (KNGMG, 1991-1997). He obtained his PhD from the University of Amsterdam on the geological evolution of the Precambrian Guiana Shield, South America, and worked ten years as a geologist in Suriname, Swaziland and Colombia. Since 1991 he cooperates with Moscow State University to study mechanisms and consequences of rapid sea-level change in the Caspian Sea, with research grants from NWO (Dutch Science Foundation), INTAS, RFFI, EU, UNESCO-IGCP and industry. He has published over 140 scientific papers and 6 books, including *Why hell stinks of sulfur*, on mythology and geology of the underground. He received the Van Waterschoot van der Gracht Medal of KNGMG in 2011 for outstanding achievements in earth science, and the Eureka Award for his book *De menselijke maat, de aarde over tienduizend jaar (The human Scale, the Earth ten thousand years from now)*.

**Prof. Markku Kulmala, University of Helsinki, Finland**



Academy  
Prof.  
Markku

Kulmala directs the Division of Atmospheric Sciences at the Department of Physics, and has served as a professor at the University of Helsinki since 1996. According to the ISI Web of Knowledge, M. Kulmala is in the first place in the Citation Rankings in Geosciences (since 1.5.2011). His H-factor is 89. Prof. Kulmala has received several international awards such as the

Smoluchovski Award (1997), the International Aerosol Fellow Award (2004), the Wilhelm Bjerkenes medals (2007), Fuchs Memorial Award (2010) and Litke Medal (2015). In 2015 he was acknowledged by a membership of the CASAD, Chinese Academy of Sciences, (CAS). Kulmala together with the Prof. Sergej Zilitinkevich is the initiator of the large scale multi - disciplinary Pan-Eurasian Experiment (PEEX) Program (<https://www.atm.helsinki.fi/peex/>). Prof. Kulmala together with Prof. Pertti Hari is the primary inventor of the SMEAR (Stations Measuring Ecosystem Atmospheric Relations) concept.

**Prof. Jorma Kuparinen, University of Helsinki, Finland**



Jorma Kuparinen is Professor of Marine Biology at University of Helsinki since 2001 and Head of the Department of Environmental Sciences

since 2010. Prof. Kuparinen has experience in marine microbial ecology over the past 20 years. The main interest has been on the ecology of marine (Baltic Sea, Southern Ocean) and freshwater plankton, autotrophic and heterotrophic microorganisms. Studies have been focused on the carbon cycle in the pelagic food web, production and utilization of carbon by autotrophic and heterotrophic microorganisms. Field studies have been supplemented with experimental studies in microcosm. Rate measurements, based on isotope incorporation techniques ( $^3\text{H}$ ,  $^{14}\text{C}$ ,  $^{32}\text{P}$  and  $^{15}\text{N}$ ) as well as biomass estimates by various microscopic techniques have been



utilized and developed for various environments in the studies.

### **Dr. Hanna Lappalainen, University of Helsinki, Finland**



Hanna K. Lappalainen, PhD, Pan-Eurasian Experiment (PEEX) Secretary General, works currently at

PEEX Headquarters, at the University of Helsinki (Division of Atmospheric Sciences, Department of Physical Sciences). She has a long-term experience of coordinating large-scale research projects and funding applications and has been working as a science coordinator in large scale projects like EU-FP7-EUCAARI (15 MEuro, 2007-2011) and Finnish Center of Excellence of Atmospheric Sciences. Lappalainen has received NASA Goddar Team Award EOS-AURA satellite OMI-Team in 2005 and an International Eurasian Academy Of Sciences (IEAS) Silver medal in 2015. Since 2014 Lappalainen has been a representative of Finland in the Sustainable Arctic Observing Network (SAON) Data working group and a Future Earth - iLEAPS Steering Group Member. Her scientific background is on biogenic volatile organic compounds and phenological modelling.

### **Mr. Paavo Lipponen, former Prime Minister of Finland, Finland**



Paavo Lipponen is a Finnish politician and former reporter. He was Prime Minister of Finland from 1995 to 2003, and Chairman of the Social Democratic Party of Finland from 1993 to 2005. He also served as Speaker of the Parliament of Finland from 2003–2007 and was his party's nominee in 2012. From 1967-1979 he worked as the Research and international affairs secretary and chief of planning at the party's office and from 1989-1991 he was the Head of the Finnish Institute of International Affairs. He was a Member of the Parliament of Finland from 1983 to 1987 and also from 1991 until he retired in 2007. Lipponen has received honorary doctorates from Dartmouth College (1997), Finlandia University (2000), Tampere University of Technology (2002), Åbo Akademi University (2002) and University of Helsinki (2011). In 2005 he received the Theodor-Aue-Prize.

### **Bishop Tapio Luoma, Finland**



Dr. Tapio Luoma is Bishop of the Diocese of Espoo in the Evangelical Lutheran Church of Finland and has been a Research Fellow in the Project for Theology and Science in the Faculty of Theology of the University of Helsinki. He has written articles and given lectures on the relationship between theology and natural sciences. His book *Incarnation and Physics* was published by Oxford University Press in 2002.



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## Prof. Wolfgang Lutz, IIASA, Austria



Wolfgang Lutz is Founding Director of the Wittgenstein Centre for Demography and Global Human Capital,

a collaboration between International Institute for Applied Systems Analysis (IIASA), the Austrian Academy of Sciences, and the WU-Vienna University of Economics and Business. He is also Program Director of the World Population Program at IIASA, Director of the Vienna Institute of Demography (VID) of the Austrian Academy of Sciences, Professor of Applied Statistics at the WU, Professorial Research Fellow at the Oxford Martin School for 21st Century Studies, and Principal Investigator of the Asian MetaCentre for Population and Sustainable Development Analysis. He has worked on family demography, fertility analysis, population projection, and the interaction between population and environment. He has been conducting a series of in-depth studies on population-development-environment interactions in Mexico, several African countries, and Asia. He is the author of the series of world population projections produced at IIASA and has developed approaches for projecting education and human capital. Lutz is author and editor of 34 books and more than 200 refereed articles, including 8 in Science and Nature.

## Prof. Vladimir Melnikov, Academician, Chairman of Tyumen Scientific Centre, Russia



Prof. Melnikov is the Chairman of Tyumen Scientific Center of SB RAS; Research supervisor of Academic department of

kryosofia of Tyumen State University; Chairman of Scientific Counsel on Earth Cryology of RAS; Head of the Earth Cryology Unit of Tyumen Oil & Gas University; and Member of the Commission for intellectual potential of nation of Public Chamber of Russia Federation. Prof. Melnikov is author and co-author of 160 scientific papers, including 11 monographs and 17 author's certificates and patents. His area of research includes natural and natural-anthropogenic systems, cryogenic conditions, processes and formations, ecology of the Northern regions.

Since 1996 he has worked as an initiator and organizer of annual international conferences on problems of Earth's cryology.

International activity of V.P. Melnikov has led to the following international projects: Norwegian scientific foundation, project "Oil pollutions of soil in permafrost"; Circumpolar Arctic Vegetation Map (CAVM); Arctic coastal dynamics (ACD); Circumpolar Active Layer Monitoring (CALM); Thermal State of Permafrost (TSP); Global Terrestrial Network for Permafrost (GTN-P); Pan-Eurasian Experiment (PEEX): Snow – Water – Ice – Permafrost – Atmosphere Project (SWIPA-project); Global Cryosphere Watch (GCW-initiative)



### **Prof. Nikolay S. Muskhelishvili, University of Humanities, Moscow, Russia**



Nikolay S. Muskhelishvili is a Professor at Russian State Humanitarian University, Center for Religious Studies. His main research interests are in particular psychology of religion, cognitive psychology, religious experience, models in religion and practice of prayer among other things. He is also a member of IAPR (International Association for the Psychology of Religion) and Psychological Society.

Muskhelishvili graduated from Tbilisi State University with a degree in biophysics in 1967 and continued later on his doctoral studies in the Psychological Institute of the Russian Academy of Education in Moscow. From 2007 Muskhelishvili has been Professor Emeritus of the UNESCO Chair in Comparative Studies of Spiritual Traditions at St.Petersburg branch of the Institute of Cultural Studies of Russian Academy of Sciences. In addition he has been Professor of the Center for Study of Religion at Russian State Humanitarian University from 2013. In 2006-2013 he worked as the rector of the NOU VPO Institute of Philosophy, Theology and History of St. Thomas. He has also participated in various conference organizing committees for events such as Interuniversity scientific conference "Problems of historical and theoretical religion", international conferences "Christian asceticism and mysticism: the western and eastern traditions in comparative perspective" and "Russia and

Poland: Empires memory / memory Empire" as well as Holy Trinity annual international academic reading.

### **Prof. Arto Mustajoki, University of Helsinki, Finland**



Arto Mustajoki is a Professor of Russian who is also active in university administration and research policy. Besides scientific works, he writes textbooks, dictionaries, scripts for TV programmes, books for the general public and blogs. He likes to give presentations in front of various audiences on Russian language and mentality and debate on scientific indicators, the societal impact of research and research ethics. Mustajoki thinks that the most serious problem in the world is that people do not understand each other. <http://375humanistia.helsinki.fi/en/humanists/arto-mustajoki>

### **Bishop Kari Mäkinen, the Archbishop of Finland, Finland**



Dr. Kari Mäkinen is the Archbishop of the Evangelical Lutheran Church of Finland. On 11 March 2010 he was elected the 14th Archbishop of Turku and Finland, and he was installed on 6 June 2010. Previously Mäkinen served as vicar of Ulvila and since 2006 as Bishop of Turku. His doctoral dissertation on theology was accepted by University of Helsinki in 1989.



**Ms. Suvielise Nurmi, University of Helsinki, Finland**



Suvielise Nurmi is a researcher in environmental ethics and PhD cand. at the University of Helsinki.

She has published especially about environmental philosophy, ethics and human agency, but also about environmental and moral education. While working formerly as university lecturer in social and theological ethics, she was actively involved in initiating multidisciplinary environmental education at the University of Helsinki. Her permanent position as a lecturer is currently in Lutheran organisation PTK that supports Church life nationally and offers training for the employees.

**Prof. Tuukka Petäjä, University of Helsinki, Finland**



Tuukka Petäjä is Professor in aerosol physics at the University of Helsinki, Department of Physics, since 2013. He is Head of Aerosol laboratory, 2013-; Head of Värriö sub-arctic research station and SMEAR I-II stations, 2013-; Pan Eurasian Experiment science director 2014-. He worked as Post-doctoral researcher at National Center for Atmospheric Research (NCAR) 2007-2008. He has been awarded as Thompson Reuters Highly Cited Scientist, 2014-15; Academician, International Academy of Eurasian Studies, 2014; Science and Technology in Society Future Leader, New York Academy of Sciences, 2015; Väisälä award, for innovations in aerosol science and technology, 2013. He is PI for

Biogenic Aerosols – Effects on Clouds and Climate (BAECC) for US Department of Energy. Currently he has 223 peer reviewed journal articles out of which 7 in Science, 4 in Nature and 1 in Physical Review Letters, 1 in Nature Protocols, 2 in Nature Geosci.; Full publication list available in <http://www.researcherid.com/rid/A-8009-2008>; Total citations: 6930, h-index: 45 (ISI Web of Knowledge, 14.12.2015); ISI ranking in Geosciences: 128. His research topics include: Mass spectrometry and measurement techniques for aerosols and trace gases; Comprehensive long-term observations and field campaigns; Aerosol-cloud-climate-biosphere interactions.

**Dr. Panu Pihkala, Lutheran pastor, Finland**



Dr. Theol. Panu Pihkala is a Finnish researcher of environmental studies. He has specialized in Christian environmentalism and ecumenics, but his research is related to many environmental disciplines. He currently works as a postdoctoral researcher in a project funded by Academy of Finland. His latest research interests include psychological and spiritual dimensions of climate change, recognition theories, and the history of ecumenical ecotheology.

Pihkala wrote his dissertation on Joseph Sittler and Ecumenical Ecotheology in the University of Helsinki with Prof. Risto Saarinen as the main adviser. Besides research and teaching at the University, he works as a writer and trainer in Christian environmental work. Pihkala is an ordained pastor in the Lutheran Church of Finland



and has published several books on the practical dimensions of ecotheology. He is the chairperson of the NGO A Rocha Finland.

**Prof. Kari Raivio, Chancellor emeritus, University of Helsinki, Finland**



Prof. Kari Raivio has been active internationally as President of European Association of Perinatal Medicine and European Society for Pediatric Research.

He has extensive experience in medical publication, as European Chief Editor of Pediatric Research, Editor-in-Chief of the major Finnish medical journal Duodecim, and a member of the Editorial Board of several international journals.

Prof. Raivio was the rector of the University of Helsinki 1996-2003 and the chancellor of the University of Helsinki 2003-2008. He is also Past President of the Finnish Academy of Sciences and Letters and the Delegation of Finnish Academies. He was a member of International Council for Science's (ICSU) Committee for Scientific Planning and Review 2005-08 and its Chair as Vice President for 2009-2011.

Chancellor Raivio's experience in university affairs has been exploited in an advisory role by the governments of Sweden and Singapore, and the universities of Tokyo and Lund. He was Chair of the Board of Directors of the League of European Research Universities (LERU) in 2005-08.

Prof. Raivio has over 250 publications in peer-reviewed journals dealing with basic research on purine metabolism, oxidants and antioxidants, clinical research in

pediatrics and neonatology, and topics related to higher education

**Meteorologist Laura Riuttanen, University of Helsinki, Finland**



Laura Riuttanen is a meteorologist and climate change researcher at the University of Helsinki. She teaches climatology and works currently as a coordinator of a national climate change education project. She is also finalizing her PhD about climate effects of air pollutants. As a position of trust, she has served as a member of the board of the environmental questions of the Evangelical Lutheran Church of Finland since 2011.

**Mr. Ilkka Sipiläinen, rev., Deputy Director, Evangelical Lutheran Church, Finland**



Rev. Ilkka Sipiläinen is an expert on sustainable development and society, as well as

the deputy director of the unit Worship and Society in the National office of the Church Council, Evangelical Lutheran Church of Finland.

For his pioneering work on improving the environmental work of the Evangelical Lutheran Church of Finland, he was selected as The Priest of the Year in 2011. Ilkka Sipiläinen has also worked as a member of the World Council of Churches (WCC) working group on Climate Change since 2009, and was one of the members of the



delegation of Finland at the Paris UN climate conference COP21. Rev. Sipiläinen is a member of the National Committee for Sustainable Development appointed by the government.

**Dr. Olga Solomina, Director, Institute of Geography, RAS, Russia**



Dr. Olga N. Solomina is the Director of the Institute of Geography, Russian Academy of Sciences, and the Corresponding Member of the Russian

Academy of Sciences. She is an expert in paleoclimatology and glaciology, and has studied glacier fluctuations and paleoclimate in Caucasus, the Alps, Pamir-Alay, Kamchatka, Tien Shan, Altay, Polar Urals, in the Andes, in Sakhalin, in the Arctic and in Antarctica. She is a lead author of 4<sup>th</sup> and 5<sup>th</sup> assessment of Intergovernmental Panel of Climatic Changes (Chapters "Paleoclimate" and "Cryosphere"). She has also served as a vice-chair of the International Geosphere-Biosphere Program (IGBP) and was a member of PAGES Steering Committee. Prof. Solomina is an author of two books and more than 150 scientific papers, including those published in *Nature Geoscience*, *Nature Climate Change*, *Quaternary Science Reviews*, *Global and Planetary Change*, *Climate Dynamics* etc.

**Prof. Tarmo Soomere, President, Estonian Academy of Sciences, Estonia**



Prof. Tarmo Soomere is a mathematician and marine scientist, and since December 2014 the President of the Estonian Academy of

Sciences. His scientific interests are mostly concentrated in wave matters, with applications in marine hazards to the coastal zone, and in preventive methods of coastal protection and coastal zone management. He received twice the national science award (2002 and 2013) and the Baltic Assembly Prize for science in 2007, was elected to the Estonian Academy of Sciences in 2007 and to Academia Europaea in 2009, was nominated as Honorary Professor of the James Cook University (Australia) in 2010, received the title of the best communicator of science and technology in Estonia in 2011 and state decoration of 3<sup>rd</sup> class White Star order in 2014. A highly unusual distinction for a scientist came from society: he was declared the Person of the Year in Estonia 2005 by daily newspaper The Postman for his contribution to the forecast of a devastating storm.

**Dr. Tanja Suni, Future Earth Finland – National Committee on Global Change Research, Finland**



Dr. Tanja Suni works as Secretary General of Future Earth Finland – National Committee on Global Change Research, as well as Executive

Director of European Alliance of national Future Earth Committees. She has a



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background in land-atmosphere interactions. She received her PhD in environmental physics at the University of Helsinki in 2004 and worked as a post-doc in the Marine and Atmospheric Research group of CSIRO in Canberra, Australia, in 2005-2007. Since 2008, she has worked in International Council for Science (ICSU) global change research programmes, headed since 2012 by the global Future Earth. In addition to ICSU, Future Earth is run by the International Social Science Council (ISSC), the Belmont forum, United Nations University (UNU), United Nations Environmental Programme (UNEP), and UNESCO. The main aim of Future Earth and the European Alliance is to advance solutions-oriented, strategic research on global change issues that is co-designed and co-produced in collaboration with researchers and relevant stakeholders throughout the lifetime of the project. This requires building lasting, trust-building, and continuous relationships and channels between scientists and stakeholders (decision-makers, planners, private sector, citizens, media, NGOs) at all levels of society. Dr. Suni has created an extensive network of scientists and stakeholders and develops best practices of stakeholder-science community interaction both nationally and internationally.

### **Prof. Sergej Zilitinkevich, Finnish Meteorological Institute, Finland**



Prof. Sergej Zilitinkevich is Research Professor at Finnish Meteorological

Institute (FMI); Research Director at Division of Atmospheric Sciences, University of Helsinki (UH); Chief scientist, University of Nizhny Novgorod (UNN), and Professor, Moscow University and Institute of Geography RAS. Currently he coordinates EU Erasmus+ educational project ECOIMPACT (UH, 2015-2018), Academy of Finland research project ABBA (FMI, 2014-2017), Russian Science Foundation Grant (UH, 2015-2017), and since 2012 he acts as chief scientist of Pan-Eurasian Experiment (PEEX). During the last decade he has coordinated the following major projects: EU Marie Curie Chair, two educational TEMPUS projects at UH, 2003-2013; EU ERC Advanced Grant at FMI, 2009-2013 and Russian Mega-grant (UNN, 2011-2015). His awards and honours include: Vilhelm Bjerknes Medal-2000 of European Geophysical Society, Alfred Wegener Medal-2015 of European Geoscience Union, He is a member of: Academia Europaea (2002), Finnish Academy of Science and Letters (2009), Societas Scientiarum Fennica (2012), Royal Meteorological Society (2004); Professor Emeritus of Uppsala University (2003), Honorary Dr. of Univ. of Pretoria (2015), University of Nizhny Novgorod (2015) and Ecological University of Odessa (2016); Honorary member of European Geoscience Union (2015)



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