Academicians Directory

INTERNATIONAL EURASIAN ACADEMY OF SCIENCES (IEAS)
European Center
The European Center of International Eurasian Academy of Sciences (IEAS) and its Headquarters (HQ) was established at Masaryk University, Czech Republic and lead by Professor Milan Konecny. Starting from October 2012 the IEAS European Center is located in Finland - at the former Faculty of Atmospheric Research, now the Institute for Atmospheric and Earth System Research (INAR), University of Helsinki. The Center is lead by Academician, Professor Markku Kulmala. IEAS-Europe represents an interdisciplinary research platform involving leading scholars from European countries. Current activities of IEAS-Europe focus on facilitating the dialogue between different disciplines to find solutions on Grand Challenges with emphases on the climate change and global pollution in Eurasian region by organizing the Sofia Earth Forum(s) and other events bridging exact science, humanities practical applications and decision making.
First group of newly elected IEAS members belonging to the new European Center in Helsinki: Prof. Markku Kulmala, Prof. Alexander Baklanov, Prof. Yrjö Viisanen, Dr. Igor Esau and Prof. Tuukka Petäjä. October 2012, Photo by H.K. Lappalainen
I. Foreword

Earth’s system is facing several interlinked environmental challenges on a global scale, called “Grand Challenges”. The growing population needs more fresh water, food and energy. These increasing needs have already led us to face climate change, declining air quality, acidification, loss of biodiversity and shortages of fresh water and food supplies. The Grand Challenges are the main factors controlling human well-being and the security and stability of future societies, and they cannot be solved separately. We need a common framework, in which scientists are be able to deliver a science-based message being legitimated to fast-track policy making.

International Eurasian Academy (IEAS) European Center is network of Academicians aiming to go over different boundaries and to find join understanding and practical solutions on Grand Challenges. The IEAS – European Center is especially interested in Eurasian environments, including boreal and arctic environments and their large-scale feedbacks and interactions. Our mission is to foster joint efforts towards sustainable development of societies and towards multi- and cross-disciplinary education.

We also address the crucial role of science diplomacy for making impact in different policy making forums. Thus, the IEAS-Europe will act as an interdisciplinary dialog platform involving leading scholars from European countries. IEAS-Europe Academicians are mostly representing atmospheric and environmental sciences with an increasing number of academicians coming from socio-economics and the humanities.

Academician, Professor Markku Kulmala
President of the International Eurasian Academy of Sciences (IEAS) European Center
2. Introduction

IEAS is a public organisation bringing together scientists, scholars and prominent actors in culture, art and social live. It involves over 500 members from 87 countries whose professional interests focus on or relate to modern challenges faced by the humankind in social development, global economy and environment protection. Functioning of IEAS is guided by principles of independence, equal rights, self-governing and legitimacy. Its priorities are: leading research and development focusing on specific problems faced by Eurasian countries.

IEAS initiates and promotes efforts towards solution of vital problems faced by Eurasian countries in the areas of environmental protection, global energy, quality of environment, and social development; promotes initiatives, institutions and groups in solving global problems posed by uncontrolled technological developments; searches for constructive ways towards transition to sustainable development in social, economic and ethical spheres unifying creative potential of science, culture and arts. The core of IEAS’ activities comprises international basic-science and applied studies, advancing the content and methodology of supervision, and implementation of new results in practice.

Specific mission of the Europe-Center of IEAS specific mission is to build a bridge between national science programs and international science communities towards coordination of research, development and education in a way beneficial for Northern Eurasia. The Center has become an important instrument for coordination and collaboration, particularly, via research-development-education program Pan-Eurasian Experiment (PEEX) launched in 2013 and involving European countries, Russia, China and Japan.

Major activities

- Continuous comprehensive observations, theory and modelling of air, water and soil pollution and their impact on human health and quality of life
- Methodology and technology of remote sensing environmental observations
- Theory, modelling and forecasting of natural and anthropogenic processes forming the humankind’s environment
- Geo-informatics inspired by the environmental Grand Challenges, new knowledge of Earth systems and recent technological developments
- Power-saving and science-intensive technologies
Milestones

1. 1994, Minsk, Belorussia: International Eurasian Academy of Sciences (IEAS) is founded as a bottom-up initiative of scientists from several European and Asian countries.

2. 1996, Moscow, Russia: the IEAS General Assembly identifies its mission, main goals and priorities.

3. 1997, Beijing, China: IEAS General Assembly announces the IEAS particularly goals:
   - Facilitating application of energy-efficient and science-driven technologies
   - Designing / implementing new methods and systems for environmental observations
   - Forecasting and preventing dangerous natural and manmade disasters
   - Assessing environmental and human-health risks and damages caused by manmade impacts

4. Since then, IEAS comprises its infrastructure:
   - the IEAS Headquarters (HQ) is based at the location of the IEAS President;
   - Three IEAS Centers, built on the territorial principle: Euro-Asian Center in Moscow (Russia);
     Asia-Pacific Center in Beijing (China);
     European Center in Helsinki.

5. 2012, resolution about European Center in Helsinki, hosted by INAR, University of Helsinki, Finland, and chaired by Vice President of IEAS Academician Markku Kulmala.
Alexander H. Alexandrov
Academician of the Bulgarian Academy of Sciences; Academy Professor, Dr., D.Sc
BULGARIA

Date of election: 18 May 1996

Scientific Field
Forestry, Ecology, Forest Genetics, Phytogeography

No. of articles........491
Total citations.........1,200

Major 5 Publications

Meinrat O. Andreae  
Prof. Dr. h.c.  
GERMANY

Date of election: 30 June 2015

Scientific Field  
Biogeochemistry and Atmospheric Research

Researcher ID: B-1068-2008  
ORCID ID: 0000-0003-1968-7925

ISI Web of Science 2 June 2020  
No. of articles........ 556  
H index................. 110  
Total citations........ 50,454  
No. of Nature and Science papers........ 33

Major 5 Publications

Almut Arneth  
Prof. Dr.  
GERMANY

Date of election: 23 June 2015

Scientific Field  
Land-Atmosphere Interactions

Researcher ID: B-2702-2013  
ORCID ID: 0000-0001-6616-0822

ISI Web of Science 27 April 2020  
No. of articles........ 206  
H index..................... 62  
Total citations........ 14,979

No. of Nature and Science papers........ 4

Major 5 Publications
3. Arneth A, et al. (2017) Historical carbon dioxide emissions caused by land-use changes are possibly larger than assumed. Nature Geoscience 10: 79+. DOI: 10.1038/ngeo2882
Steven Arnold
Assoc. Prof. Dr.
UNITED KINGDOM

Date of election: 8 November 2017

Scientific Field
Atmospheric Chemistry; Air Quality; Atmospheric Chemistry - Earth System Interactions; Arctic Air Pollution

Researcher ID: B-2702-2013
ORCID ID:
ISI Web of Science 19 June 2020
No. of articles.........  79
H index................... 30
Total citations........ 2,622
No. of Nature and Science papers........  4

Major 5 Publications


Irina M. Artemieva
Prof. Dr.
DENMARK

Date of election: 14 September 2017

Scientific Field
Solid Earth Geophysics and Geodynamics

Researcher ID: C-2106-2015
ORCID ID:
ISI Web of Science 27 April 2020
No. of articles....... 69
H index.................. 23
Total citations........ 2,351
No. of Nature and Science papers..........

Major 5 Publications

3. Thybo H, Youssof M, Artemieva IM: Southern Africa crustal anisotropy reveals coupled crust-mantle evolution for over 2 billion years, NATURE COMMUNICATIONS, 10, 5445, DOI: 10.1038/s41467-019-13267-2, 2019
5. Artemieva IM, Shulgin A: Making and altering the crust: A global perspective on crustal structure and evolution, EARTH AND PLANETARY SCIENCE LETTERS, 512, 8-16, DOI: 10.1016/j.epsl.2019.01.033, 2019

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www.https://ign.ku.dk/
irina@ign.ku.dk
Tel: +45 3532 2473

University of Copenhagen, Department of Geosciences and Natural Resources Management (IGN)
Jaana Bäck
Prof. Dr.
FINLAND

Date of election: 11 April 2019

Scientific Field
Ecosystem Atmosphere Interactions

Researcher ID: A-7405-2010
ORCID ID: 0000-0002-6107-667X
ISI Web of Science 15 May 2020
No. of articles........ 108
H index................ 27
Total citations........ 2,991
No. of Nature and Science papers........ 1

Major 5 Publications

Contact:
PO Box 27
(Latokartanonkaari 7)
FI-00014 Helsinki, FI
www.helsinki.fi/en/inar
jaana.back@helsinki.fi
Tel: +358 50 415 5297
Alexander Baklanov
Professor, Dr. Sci., PhD
SWITZERLAND/DENMARK/RUSSIA

Date of election: 15 November 2017

Scientific Field
Environmental Science, Meteorology, Atmospheric Physics, Urban Geosciences, Climate Change, Risk Assessment, Mathematical Modelling, Sustainable Development

Researcher ID: ORCID ID: 0000-0002-5396-8440
GoogleScholar / ResearchGate (20 May 2020)
No. of articles........ 147
H index................ 45
Total citations........ 8,407
i10-index............. 135
No. of Nature and Science papers........

Major 5 Publications

Scientific Officer of Science and Innovation Department, World Meteorological Organization (WMO)
Affiliated Professor, Niels Bohr Institute of the University of Copenhagen
Editor-in-chief of Urban Climate journal

Contact:
7 bis, Avenue de la Paix, BP2300, 1211 Geneva 2
https://public.wmo.int/en
abaklanov@wmo.int
Tel: +41 227 308 095

IEAS
EUROPEAN CENTRE
Jerzy Bartminski  
Professor  
POLAND

Date of election: 1994

Scientific Field  
Slavic Ethnolinguistics

Researcher ID:  
ORCID ID:  
ISI Web of Science  3 June 2020  
No. of articles........ 520  
H index..................34  
Total citations........ 4612  
No. of Nature and Science papers........ 12

Major 5 Publications
2. Stereotypy mieszkają w języku. Studia etnolingwistyczne 2007; Językowe podstawy obrazu świata" 2006;  
4. Tekstologia 2009 (wspólnie z Stanisławą Niebrzegowską-Bartmińską];  

Contact:  
erzy.bartminski@poczta.umcs.lublin.pl  
Tel: +48 81 7402214
Ekaterina Batchvarova
Prof. Dr. Corresponding member of Bulgarian Academy of Sciences

Date of election: 15 November 2017

Scientific Field
Atmospheric research

Researcher ID: L-4304-2016
ORCID ID:
ISI Web of Science 9 June 2020
No. of articles........ 82
H index.................. 21
Total citations........ 1162
No. of Nature and
Science papers........

Major 5 Publications

Robert Bornstein
Prof. Dr.
USA

Date of election: 2014

Scientific Field
Urban Climate and Air Quality

Researcher ID:
ORCID ID: 0000-0002-6989-7528
ISI Web of Science 27 April 2020
No. of articles...........
H index.................. 28
Total citations......... 4235
No. of Nature and Science papers...........

Major 5 Publications

5. Bornstein R: The two-dimensional URBMET urban boundary layer model, Journal of Applied Meteorology 14 (8), 1459-1477, 1975
François Bouillé
Prof. Dr.
FRANCE

Date of election:

Scientific Field

Researcher ID: ORCID ID: 8 June 2020
ISI Web of Science No. of articles........
H index................
Total citations........
No. of Nature and Science papers........

Major 5 Publications

Contact:
86 rue de la république, 95160 MONTMORENCY
http://www.sorbonne-universite.fr/
Francois.Bouille@upmc.fr
Tel: +33 1 39 64 00 97
Ilia Dimitrov Christov  
Academician of New York Academy of Sciences  
BULGARIA

Date of election: 18 May 1996

Scientific Field  
Agroecology, Ecology, Plant Biophysics, Soil Physics, Nuclear Methods in Soil Science

Researcher ID:
ORCID ID:
ISI Web of Science  
No. of articles......... 223  
H index....................  
Total citations........... 378  
No. of Nature and Science papers.........

Major 5 Publications

2. Christov ID: Influence of Water and Nutritional Status of Soil on Quantity and Quality of Crop Production, JOURNAL OF THE BULGARIAN ACADEMY OF SCIENCES, 6, 51-56, Sofia, 2019

Contact: 
http://soil-poushkarov.org/en
ichristow@gmail.com
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Prof. George Djolov has been internationally recognized scholar with major contributions to the theory, observations and modelling of planetary boundary layers, air pollution and climate change. During his career, he strongly contributed to establishing and leading new scientific and educational institutions, units or programs. He has founded and acted as first director of the Institute of Ecology at the Bulgarian Academy of Sciences; has established the Bachelor of Technology Program in Applied Physics at the University of Zimbabwe; has been Dean of the School of Mathematics and Natural Sciences, Professor and Director of the Faculty of Physical and Mineral Sciences at the North-West University in South Africa. Thanks to his broad knowledge in science and his management skills, he has served for 2 years as CEO of the National Community Water and Sanitation Training Institute in South Africa. He has been elected and during 5 years functioned as President of the World Committee on Engineering and Environment of the World Federation of Engineering Organizations (WFEO).

His world-class knowledge in atmospheric and environmental sciences was highly appreciated. So, he was member of Editorial Boards of such journals as “Climate Change” and, for 25 years, “Boundary Layer Meteorology”.

Professor Djolov has published 5 books and over hundred papers in international and national scientific journals, and has made numerous presentations at international conferences.

The list of his postgraduate students, including many persons from South Africa, was so large that he did not remember some of them. The evidence of his successful leading of scientific and educational projects is total sum of his grants exceeding 20 million rand. Besides, he has led social projects important for developing education and improving living standards of underprivileged people.
Konstantinos Eleftheriadis
Dr.
GREECE

Date of election: 28 June 2015

Scientific Field
Atmospheric Research

Researcher ID: G-2814-2011
ORCID ID: 0000-0003-2265-4905
ISI Web of Science 04 May 2020
No. of articles........... 136
H index.................... 33
Total citations.......... 3,107
No. of Nature and Science papers...........

Major 5 Publications


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NCSR Demokritos
15310 Ag. Paraskevi, Attiki
ipta.demokritos.gr
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Tel: +30 2106503008
Tov Elperin†
Prof. Dr.
ISRAEL
†Deceased

Date of election: 7 May 2015

Professor Tov Elperin (1949-2018) was born in Minsk (Soviet Union, now Belarus); graduated from Department of Physics, Minsk University, and got PhD at the Department of Physics of the Ben-Gurion University of the Negev in Israel. At the beginning of his research career, he has been working at Cornell University, USA, with Professor S.B. Pope, famous for his research in turbulence. Since 1984 he was the faculty member at the Ben-Gurion University of the Negev and, in recent decades, the head of Laboratory of Turbulent Multiscale Flows at the Department of Mechanical Engineering. He has been an internationally recognized expert in physics of turbulence, turbulent diffusion, boundary layers, aerosols, aerosol-cloud interaction, shock waves and high-speed penetration dynamics. He has published 4 books and over 300 peer-reviewed papers in international scientific journals, and presented his results at numerous international conferences. In collaboration with Professors Nathan Kleeorin and Igor Rogachevskii, he has discovered the following new physical phenomena: turbulent thermal diffusion of particles; small-scale clustering of particles in both non-stratified and stratified turbulence – phenomenon playing key role in turbulent transport, transformations of atmospheric aerosols and water droplets and, thus, in precipitation; the effect of chemical reactions on turbulent transport of particles and gases, particularly in the atmosphere where reactions could reduce turbulent diffusion of aerosol particles.

Professor Elperin was one of the key participants of cooperative work on the energetics and closure theory of stably-stratified turbulence initiated by Professor Sergej Zilitinkevich and involved Finnish Meteorological Institute, University of Helsinki (Finland), Ben Gurion University of the Negev (Israel) and Nansen Environmental and Remote Sensing Centre (Norway). This work, continued for the last two decades, has yielded principal revision of the very concept and theory of the stably-stratified high-Reynolds-number turbulence inherent in atmospheric, hydrospheric and astrophysical fluid flows.

Thanks to his outstanding management skills and deep knowledge of turbulence, Professor Elperin has played the key role in foundation of the Laboratory of Turbulent Multiscale Flows at the Ben-Gurion University of the Negev, and over the last decades have been leading comprehensive experimental investigations of turbulence at the Laboratory.

He has established several interdisciplinary bachelor and masters programs together with Engineering and Physics Departments of the Ben Gurion University. Thanks to his broad knowledge in both science and culture, he was an outstanding lecturer and highly appreciated supervisor of numerous Master and PhD programs.
Igor Esau
Prof. Dr.
NORWAY

Date of election: 25 June 2012

Scientific Field
Atmospheric Sciences, Climatology, Turbulence Modelling, Computational Fluid Dynamics, Urban Sciences, Air Quality, Socio-Environmental Interactions

Researcher ID: C-6298-2008
ORCID ID: 0000-0003-4122-6340
ISI Web of Science 25 May 2020
No. of articles .......... 65
H index ................... 21
Total citations .......... 1,776
No. of Nature and Science papers .......... 1

Major 5 Publications

1. Davy, R., Esau, I., 2016: Differences in the efficacy of climate forcings explained by variations in atmospheric boundary layer depth, NATURE COMMUNICATIONS, 7, 11690, doi:10.1038/ncomms11690
2. Wolf T, Pettersson L, Esau I: A very high-resolution assessment and modelling of urban air quality, ATMOSPHERIC CHEMISTRY AND PHYSICS, 20, 2, 625-647, DOI:10.5194/acp-20-625-2020, 2020
Harindra Joseph S. Fernando
Prof. Dr.
USA

Date of election: 14 September 2017

Scientific Field
Environmental and Geophysical Fluid Dynamic

Researcher ID: N-5339-2014
ORCID ID: 0000-0002-9638-0698
ISI Web of Science 17 June 2020
No. of articles......... 315
H index.................... 40
Total citations.......... 6,011
No. of Nature and Science papers......... 1

Major 5 Publications

Manfred M. Fischer
Fellow of the Regional Science Association International, Royal Netherlands Academy of Arts and Sciences, Austrian Academy of Sciences
AUSTRIA

Date of election: 27 May 1995

Scientific Field
Regional Science, Spatial Economics, Urban and Regional Economics, Economic Geography, Spatial Econometrics, Spatial Data Analysis

Researcher ID: G-5960-2017
ORCID ID: 0000-0002-0033-2510

GoogleScholar 2 June 2020
No. of articles........... 51
H index......................... 11,176
Total citations........... 139
i10-index.................... 27 May 1995

Major 5 Publications

Emeritus Professor in Economic Geography, Vienna University of Economics and Business

Contact:
Welthandelsplatz 1, A-1020 Vienna
www.wu.ac.at/
manfred.fischer@wu.ac.at
Tel: +43 67682134836
David G. Gee
Prof. Dr.
SWEDEN

Date of election: 21 November 2017

Scientific Field
Orogen dynamics

Researcher ID:
ORCID ID:
ISI Web of Science 07 May 2020
No. of articles..........
H index..................
Total citations......... 5,486
No. of Nature and Science papers..........

Major 5 Publications

Contact:
Villavägen 16, S-752 36
Uppsala
https://www.geo.uu.se/
david.gee@geo.uu.se
Tel: +46 18 471 2380
Petar Getsov
Corr. member of Bulgarian Academy of Sciences, Academician of Russian Academy for Cosmonautics, Member of New York Academy of Sciences, Chairman of Bulgarian Astronautical Federation, Academy Professor
BULGARIA

Date of election: 17 May 2013

Scientific Field
Aerospace Control Systems, Avionics, Research & Development, Project management

Researcher ID:
ORCID ID:

ISI Web of Science 3 June 2020
No. of articles......... 290
H index................... 32
Total citations........... 260
No. of Nature and Science papers......... 15

Major 5 Publications

1. Getsov P, Yanev R, Bo W: Hybrid Propulsion Of Multi-Copter Type Uavs, Feasibility And Current State Of The Art, AEROSPACE RESEARCH IN BULGARIA, 30, 123-133, DOI: 10.3897/arb.v30.e10, 2018
2. Getsov P, Jordanov D, Bo W: Modeling of the catastrophic version of a transport airplane, AEROSPACE RESEARCH IN BULGARIA, 30, 155-162, DOI: 10.3897/arb.v30.e13, 2018

Contact:
Acad. Georgy Bonchev str., BAS campus, block 1, 1113 Sofia
http://space.bas.bg/en/structure/sc.html
getsovp@space.bas.bg
Tel: +359 888418160
Michael Ghil
Prof. Dr.
FRANCE

Date of election: 21 September 2017

Scientific Field
Climate Sciences

Researcher ID: O-1433-2019
ORCID ID: 0000-0001-5177-7133
ISI Web of Science 8 May 2020
No. of articles........ 298
H index................ 59
Total citations........ 14,843
No. of Nature and Science papers........ 5

Major 5 Publications

Contact:
Geosciences Dept.
Ecole Normale Supérieure, 75231 Paris Cedex 05
https://dept.atmos.ucla.edu/tcd/people/michael-ghil
Hans-Christen Hansson
Prof. Dr.
SWEDEN

Date of election: 4 December 2017

Scientific Field
Atmospheric Science

Researcher ID:
ORCID ID:
ISI Web of Science 8 May 2020
No. of articles.......... 175
H index.................. 49
Total citations........ 9,127
No. of Nature and Science papers....... 5

Major 5 Publications


5. Dall’Osto M, Beddows DCS, Asmi A, et al: Novel insights on new particle formation derived from a pan-european observing system, SCIENTIFIC REPORTS, 8, 1482, DOI: 10.1038/s41598-017-17343-9, 2018
Martin Heimann  
Prof. Dr.  
GERMANY

Date of election: 8 July 2015

Scientific Field
Biogeochemistry, global carbon cycle, atmospheric greenhouse gases, carbon cycle - climate interactions, Arctic biogeochemistry

Researcher ID:  H-7807-2016  
ORCID ID:  0000-0001-6296-5113

ISI Web of Science  11 May 2020
No. of articles .......... 269
H index .................. 77
Total citations .......... 21,570
No. of Nature and Science papers .......... 20

Major 5 Publications


Albert A. M. Holtslag
Fellow American Meteorological Society
NETHERLANDS

Date of election: 18 May 2015

Scientific Field
Meteorology and Climate Studies, Boundary Layer Meteorology, Land-Atmosphere Interactions, Urban Meteorology, Wind Energy

Researcher ID: B-7842-2010
ORCID ID: 0000-0003-0995-2481
ISI Web of Science/GoogleScholar 4 June 2020
No. of articles......................... 169
H index................................. 50 / 65
Total citations.......................... 10,241 / 21,235
i10-index............................... 174

No. of Nature and Science papers.........................

Major 5 Publications

Contact:
PO Box 47, 6700 AA Wageningen
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Bert.Holtslag@wur.nl
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Frank Hoffmann
Chairman KDT “Automation Cartographic Processes” (GDR), Member of National Committee “Geography&Cartography” (GDR), Corresponding Member of ICA “Automation in Cartography” (GDR), Expert at BOWGIS “Education Center East-West” Dresden (BRD), External Expert at EU Commission CT-EX2002B050267-103 (EC)

Date of election: 18 May 1996

Scientific Field
Topographic & Thematic & Planning Cartography, Cadastre, Surveying & Mapping, Topography, Photogrammetry, Cartomatics, Geomatics, Enviro & GeoInformation Sciences

Researcher ID: n/a
ORCID ID: n/a
No. of articles........ 171
No. of RDT papers.... 42

As Examples: Supervising and managing R&D Projects at TU Dresden in cooperation with VVB “Erdöl/Erdgas” Gommern, FLS “Territorialplanning” Berlin, TREUHAND (RealEstate) Berlin, MKD (MilCartoService) Halle, MTD (MilTopoService) Prenzlau, CVUT

Major 5 Publications

Juha A. Janhunen
Prof. Dr.
FINLAND

Date of election: 28 September 2017

Scientific Field
Ethnohistory and Comparative Linguistics, Human and Social Sciences

Researcher ID: J-5405-2017
ORCID ID: 0000-0003-1242-8808
ISI Web of Science 11 May 2020
No. of articles......... 21
H index.................... 4
Total citations........ 51
No. of Nature and Science papers........

Major 5 Publications

2. Lappalainen HK, Kerminen VM, Petaja T, et. al: Pan-Eurasian Experiment (PEEX): towards a holistic understanding of the feedbacks and interactions in the land-atmosphere-ocean-society continuum in the northern Eurasian region, ATMOSPHERIC CHEMISTRY AND PHYSICS, 16, 22, 14421-14461, DOI: 10.5194/acp-16-14421-2016, 2016
Veli-Matti Kerminen
Prof. Dr.
FINLAND

Date of election: 28 September 2017

Scientific Field
Atmospheric Research

Researcher ID: M-9026-2014
ORCID ID: 0000-0002-0706-669X
ISI Web of Science 18 June 2020
No. of articles........ 293
H index................ 67
Total citations........ 16,739
No. of Nature and Science papers........ 7

Major 5 Publications

Markku Kivinen
Honorary Doctor in Russian Academy of Sciences, Institute of Sociology
FINLAND

Date of election: 8 May 2015

Scientific Field
Sociology, Russian studies, Social policy, International relations, Cultural studies, Energy policy

Researcher ID: H-7915-2016
ORCID ID: 

ISI Web of Science 12 May 2020
No. of articles......... 13
H index.................... 4
Total citations.......... 49
No. of Nature and Science papers.........

Major 5 Publications


Nathan Kleeorin
Prof. Dr.
ISRAEL

Date of election: 20 April 2015

Scientific Field
Atmospheric Research

Researcher ID: F-2267-2012
ORCID ID:
ISI Web of Science 12 May 2020
No. of articles........ 183
H index............... 34
Total citations........ 3,748
No. of Nature and Science papers........

Major 5 Publications

1. Rogachevskii I, Kleeorin N: Generation of a large-scale vorticity in a fast-rotating density-stratified turbulence or turbulent convection, PHYSICAL REVIEW E, 100, 6, 063101, DOI: 10.1103/PhysRevE.100.063101, 2019


4. Schober, J (Schober, J.); Brandenburg, A (Brandenburg, A.); Rogachevskii, I (Rogachevskii, I.); Kleeorin N: Energetics of turbulence generated by chiral MHD dynamos, GEOPHYSICAL AND ASTROPHYSICAL FLUID DYNAMICS, 113, 1-2, SI, 107-130, DOI: 10.1080/03091929.2018.1515313, 2019

**Milan Konecný**

Knight of Brazilian Cartography, Brazil; Dr.h.c., University of Architecture, Civil Engineering and Geodesy, Bulgaria; Honorary Professor, Siberian State Academy of Geodesy, Russia; Honorary Member of Spanish Society for Cartography, Photogrammetry and Remote Sensing, Spain; ICA Honorary Fellow, Germany; Pangea World Fellow, USA; ISDE Fellowship, Italy

**CZECH REPUBLIC**

**Date of election:** 18 May 1996

**Scientific Field**
Cartography, GIS, Spatial Data Infrastructures, Spatial Big Data, Early Warning, Disaster Risk Management and Disaster Risk Reduction, Mapping for children and seniors

**Researcher ID:** AAL-5794-2020  
**ORCID ID:**

**ISI Web of Science**  
No. of articles......... 29  
H index...................... 7  
Total citations........... 167

**No. of Nature and Science papers.........**

**Major 5 Publications**


3. Lin, Hui; Batty, Michael, ...Konecny,Milan at al.: Virtual Environments Begin to Embrace Process-based Geographic Analysis. TRANSACTIONS IN GIS, 19 4, 493-498, 2015; DOI:10.1111/tgis.12167


Salomon B. Kroonenberg  
Prof. Dr.  
NETHERLANDS, SURINAME

Date of election: 15 November 2017

Scientific Field
Sea-level Change, Quaternary Geology, Precambrian Geology

Researcher ID: ORCID ID: 0000-0001-7240-8425
ISI Web of Science 12 May 2020
No. of articles........ 63
H index....................24
Total citations.........1,551
No. of Nature and Science papers........

Major 5 Publications

Markku Kulmala
Academician of Finnish Academy of Sciences, Academician of Chinese Academy of Sciences, Academician of Russian Academy of Sciences, Academy Professor. FINLAND

Date of election: 24 June 2013

Scientific Field
Air Quality, Atmosphere, Aerosols, Trace Gases, Biosphere, Atmospheric Chemistry, Climate, Continuous Comprehensive Observations, Feedback’s and Interactions, Meteorology and Atmospheric Sciences

Researcher ID: I-7671-2016
ORCID ID: 0000-0003-3464-7825
ISI Web of Science 20 October 2020
No. of articles........ 1100
H index.....................117
Total citations........ 57,600
No. of Nature and Science papers........ 34

Major 5 Publications
Vladimir Kutcherov
Prof. Dr.
SWEDEN

Date of election: 19 September 2019

Scientific Field
High Pressure Physics, Chemistry, Geochemistry, Energy, Petroleum Science

Researcher ID: R-9275-2016
ORCID ID:
ISI Web of Science 1 June 2020
No. of articles........... 33
H index..................... 9
Total citations............ 290
No. of Nature and Science papers......... 5

Major 5 Publications

1. Serovaiskii A, Kutcherov V: Formation of complex hydrocarbon systems from methane at the upper mantle thermobaric conditions, SCIENTIFIC REPORTS, 10, 1, 4559, DOI: 10.1038/s41598-020-61644-5, 2020
2. Mukhina E, Kolesnikov A, Kutcherov V: The lower pT limit of deep hydrocarbon synthesis by CaCO3 aqueous reduction. SCIENTIFIC REPORTS, 7, 1, 5749, DOI: 10.1038/s41598-017-06155-6, 2017
3. Kolesnikov AY, Saul JM, Kutcherov VG: Chemistry of hydrocarbons under extreme thermobaric conditions, ChemistrySelect, 2, 4, 1336-1352, DOI: 10.1002/slct.201601123, 2017
4. Kolesnikov AY, Kutcherov VG, Goncharov AF: Methane-derived hydrocarbons produced under upper-mantle conditions, NATURE GEOSCIENCE, 2, 566 – 570, DOI: 10.1038/NGEO591, 2009

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Royal Institute of Technology (KTH), SE-100 44 Stockholm
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vladimir.kutcherov@energy.kth.se
Tel: +46 8 790 8507

KTH Royal Institute of Technology, Researcher
Ari Laaksonen
Prof. Dr.
FINLAND

Date of election: 08 July 2015

Scientific Field
Atmospheric and Climate Research

Researcher ID: B-5094-2011
ORCID ID: 0000-0002-1657-2383
ISI Web of Science 13 May 2020
No. of articles........ 254
H index.................. 63
Total citations........ 16,322
No. of Nature and Science papers........ 11

Major 5 Publications

1. Laaksonen A: A unifying model for adsorption and nucleation of vapors on solid surfaces. JOURNAL OF PHYSICAL CHEMISTRY A 119, 16, 3736-3745, DOI: 10.1021/acs.jpca.5b00325, 2015
Paolo Laj
Dr.
FRANCE

Date of election: 7 July 2015

Scientific Field
Atmospheric Research, Atmospheric Aerosol

Researcher ID: ORCID ID:
ISI Web of Science 12 May 2020
No. of articles.........133
H index..................46
Total citations........7,661
No. of Nature and Science papers........2

Major 5 Publications
5. Putaud, J.-P. et al., A European aerosol phenomenology--2: chemical characteristics of particulate matter at kerbside, urban, rural and background sites in Europe , Atmos. Environ. 2004
Hanna Lappalainen
Docent. Dr.
FINLAND

Date of election: 15 November 2016

Scientific Field
Forest Ecology

Researcher ID:
ORCID ID: 0000-0003-3221-2318
ISI Web of Science 13 May 2020
No. of articles........ 24
H index................... 11
Total citations........ 692
No. of Nature and Science papers........

Major 5 Publications

2. Lappalainen H, Kulmala M, Kujansuu J, et al: The Silk Road agenda of the Pan-Eurasian Experiment (PEEX) program, BIG EARTH DATA, 2, 1, 8–35, DOI: 10.1080/20964471.2018.1437704, 2018
Søren Ejling Larsen
Prof. Dr.
DENMARK

Date of election: 29 December 2012

Scientific Field
Wind Energy, Meteorology

Researcher ID: L-2389-2017
ORCID ID: 0000-0002-4224-7568
ISI Web of Science 15 May 2020
No. of articles.......... 110
H index.................. 22
Total citations........ 1,694
No. of Nature and Science papers........ 1

Major 5 Publications


Fedor Mesinger
Academician of Serbian Academy of Sciences and Arts, Academician of Academia Europaea
SERBIA

Date of election: 14 September 2017

Scientific Field
Numerical weather and climate modeling, in particular numerical schemes, and turbulence transports, Forecast verification

Researcher ID: L-2389-2017
ORCID ID: 
ISI Web of Science/Google Scholar 15 May 2020/5 June 2020
No. of articles......................... 35 / 87
H index........................................ 17 / 27
Total citations............................ 1,370 / 7,450
i10-index.................................

No. of Nature and
Science papers.........................

Major 5 Publications


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Kneza Mihaila 35, 11000 Belgrade
https://www.sanu.ac.rs/
fedor.mesinger@gmail.com
Tel: +381 63 166 3206
Arto Mustajoki
FINLAND

Date of election: 6 December 2016

Scientific Field
Russian language and culture, (Mis)communication

Researcher ID: AAH-1198-2019
ORCID ID: 0000-0002-6609-7090
GoogleScholar 8 July 2020
No. of articles........... 229
H index................... 22
Total citations..........2,320
i10-index............... 47
No. of Nature and Science papers...........

Major 5 Publications
5. Мустайоки, А., Сабитова, Т., Парменова Т., Бирюлин, Л. Функциональный синтаксис русского языка. Москва: Юрайт, 2019, 728 стр.
Date of election: 19 September 2019

Scientific Field
Ecological and Atmospheric Research, Air Quality, Greenhouse Gases, Trace Gases, Biogeochemical Cycles, Mathematical Modelling, Complex Systems, Forest Ecosystem Dynamics

Researcher ID: G-7549-2016
ORCID ID:
ISI Web of Science 01 June 2020
No. of articles........ 49
H index.....................16
Total citations.........758
No. of Nature and Science papers........

Major 5 Publications
4. Ezhova E et al: Direct effect of aerosols on solar radiation and gross primary production in boreal and hemiboreal forests, Atmospheric Chemistry and Physics, 18, 24, 17863-17881, DOI: 10.5194/acp-18-17863-2018, 2018

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Kreutzwaldi 1, EE-51006 Tartu, Estonia
http://smear.emu.ee/
http://www.emu.ee/en/
steffen.noe@emu.ee
Tel: +372 59 192 254
Ferjan Ormeling

Date of election: 1995

Scientific Field
Cartography

ORCID ID: 0000-0003-4728-1631

Researcher ID:

Major 5 Publications

2. Van Diessen JR, Ormeling F: Comprehensive atlas of the Netherlands East Indies: Asia Maior 2003

Contact:
Oude Turfmarkt 129, 1012 GC Amsterdam
f.j.ormeling@uva.nl
Tel: + 310205252355

Researcher Explokart
Research Programme,
Allard Pierson Special
Collections, University
of Amsterdam
Tuukka Petäjä
Prof. Dr.
FINLAND

Date of election: 22 May 2013

Scientific Field
Atmospheric Research, Atmospheric Aerosol

Researcher ID: A-8009-2008
ORCID ID: 0000-0002-1881-9044
ISI Web of Science 13 May 2020
No. of articles......... 390
H index....................66
Total citations.........18,305
No. of Nature and Science papers........18

Major 5 Publications


Contact:
P.O. Box 64
(Gustaf Hällströmin katu 2) FI-00014, Helsinki, FI
www.helsinki.fi/en/inar

Tuukka.petaja@helsinki.fi
Tel: +358 50 415 5278

Professor, Institute of Atmospheric and Earth System Research (INAR) at the University of Helsinki
Igor Rogachevskii
Prof. Dr.
ISRAEL

Date of election: 22 March 2015

Scientific Field
Atmospheric Research,
Fluid Mechanics, Plasma Physics,
Geophysics, Astrophysics

Researcher ID: R-8247-2019
ORCID ID:
ISI Web of Science/GoogleScholar 12 May 2020 / 25 May 2020
No. of articles............................ 176 /
H index.................................... 33 / 40
Total citations............................ 3,550 / 5,402
i10-index..................................
No. of Nature and
Science papers...........................

Major 5 Publications
2. Elperin T, Kleeorin N, Rogachevskii I, 1998: Effect of Chemical Reactions and Phase Transitions on Turbulent Transport of Particles and Gases. PHYSICAL REVIEW LETTERS, 80, 1, 69-72, DOI: 10.1103/PhysRevLett.80.69

Contact:
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gary@bgu.ac.il
Tel: +972 54 6889058
Alexander Sadovski
Active Member of New York Academy of Sciences
University Professor
BULGARIA

Date of election: 23 September 1994

Scientific Field
Applied Mathematics and Statistics, Data Analysis, Agriculture, Soil Science, Environmental Protection, GIS, Risk Management

ORCID ID: 0000-0001-7576-4214
Web of Science/Scopus/GoogleScholar 08 June 2020
No. of articles........................................ 225
H index.................................................. - / 30 / 16
Total citations....................................... 202 / - / 949
i10-index.............................................
No. of Nature and Science papers.................. 61

Major 5 Publications
Anatoly Shvidenko
Prof. Dr.
AUSTRIA, RUSSIA

Date of election: 14 August 2015

Scientific Field
Forestry Science, Ecosystems, Climate Change

Researcher ID: I-1505-2016
ORCID ID:

ISI Web of Science 26 May 2020
No. of articles........ 80
H index.................. 32
Total citations........ 6,160
No. of Nature and Science papers........ 3

Major 5 Publications

Henrik Skov  
Prof. Dr.  
DENMARK  

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Frederiksbergvej 399,  
4000 Roskilde  
https://envs.au.dk/en/  
www.villumresearchstation.dk  
hsk@envs.au.dk  
Tel: +45 87 158 524

Date of election: 13 September 2017

Scientific Field
Arctic Atmospheric Chemistry

Researcher ID:
ORCID ID: 0000-0003-1167-8696

ISI Web of Science 11 June 2020
No. of articles........ 109
H index.................. 55
Total citations........ 3,390
No. of Nature and Science papers........ 1

Major 5 Publications

Petteri Taalas
Prof. Dr.
FINLAND/SWITZERLAND

Date of election: 24 June 2013

Scientific Field
Satellite Technology, Global Change, Climate & Atmospheric Chemistry

Highlight of memberships/honours received

- Petteri Taalas represented Finland at the Intergovernmental Panel on Climate Change (IPCC), leading the national IPCC group. He has also been a member of government panels on Arctic, space and climate matters.
- He is a member of Science and Technology Academies, an honorary Member of China Meteorological Association, a Member of Eurasian Academy and an honorary doctor of TERI University in India and University of Eastern Finland.
- He has received Commanders Cross from the president of Finland, Big German Commanders cross, Commander of Honour of Greece as well as first class military, Border Guard and Civil Protection of Finland and first class medal of Estonia on hydrometeorology.
- He was the alumni of the year of Helsinki University in 2012.

Contact:
WMO, 7bis, avenue de la Paix, Case postale 2300 CH-1211 Geneva 2, Switzerland
https://public.wmo.int/
Tel: + 41 (0) 22 730 81 11 (Switchboard)
Ilya Usoskin
Knight (1st class) of the Order of Lion of Finland
Finnish Academy of Sciences and Letters, member
Receipient Julis Bartels medal of EGU (2018)
FINLAND

Date of election: 15 November 2017

Scientific Field
Space Physics, Cosmic rays, Solar-Terrestrial relations

SCOPUS ID: 7004683817
Researcher ID: E-5089-2014
ORCID ID: 0000-0001-8227-9081
ISI Web of Science 26 May 2020
No. of articles......... 391
H index....................50
Total citations..........9,645
No. of Nature and Science papers.........3

Major 5 Publications

1. Usoskin, I.G., S. Solanki, M. Schuessler, K. Mursula, K. Alanko, A mil-
    lennium scale sunspot number reconstruction: Evidence for an unusu-
    unusually active Sun during recent decades compared to the previous
    11,000 years, Nature, 431, 1084-1087, 2004
   ospheric modulation of cosmic rays: Monthly reconstruction for 1951-
4. Usoskin, I.G., G.A. Kovaltsov, Cosmic ray induced ionization in the at-
    mosphere: Full modeling and practical applications, J. Geophys. Res.,
    111, D21206, 2006.
5. Miyake, F., I. Usoskin, S. Poluianov (eds), Extreme Solar Particle
    Storms: the hostile Sun, IOP Publ., Bristol UK, 2019, doi: 10.1088/2514-
    3433/ab404a
Bas van de Wiel
ANTONI VAN LEEUWENHOEK PROFESSOR
NETHERLANDS

Date of election: 09 February 2018

Scientific Field
Atmospheric Research, Meteorology and Atmospheric Sciences,
Stably Stratified flows, Atmosphere-surface interactions, Environmental Fluid Mechanics, Boundary layer meteorology

SCOPUS ID: 6602612066

SCOPUS
30 May 2020
No. of articles........... 59
H index....................20
Total citations...........1,479

Major 5 Publications


Timo Vesala
Prof. Dr.
FINLAND

Date of election: 24 June 2013

Scientific Field
Biogeochemical Cycles, Meteorology & Atmospheric Science, Environmental Sciences & Ecology, Forestry

Researcher ID: C-3795-2017
ORCID ID: 0000-0002-4852-7464
ISI Web of Science 14 May 2020
No. of articles......... 327
H index....................69
Total citations.........24,827
No. of Nature and Science papers.........4

Major 5 Publications

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(Gustaf Hällströmin katu 2) FI-00014
Helsinki, FI
www.helsinki.fi/en/inar
timo.vesala@helsinki.fi
Tel: +358 9 191 50862
Yrjo Viisanen
Prof. Dr.
FINLAND

Date of election:  
24 June 2013

Scientific Field
Ecosystem Atmosphere Interactions

Researcher ID:
ORCID ID:
ISI Web of Science  
10 July 2020
No. of articles........... 130
H index.....................59
Total citations...........6,347
No. of Nature and
Science papers...........

Major 5 Publications

Desheng Dash Wu
Prof. Dr.
SWEDEN

Date of election: 19 September 2019

Scientific Field
Risk Analysis

Researcher ID: I-6230-2012
ORCID ID:
ISI Web of Science 2019
No. of articles.......... 150
H index.................. 44
Total citations......... 6648
No. of Nature and Science papers...........

Major 5 Publications

1. Wu D, Zhang B, Baron O: A Trade Credit Model with Asymmetric Competing Retailers. Accepted. Production and Operations Management, 2018
Yong Xue
Prof. Dr.; Charted Physicist
UNITED KINGDOM

Date of election: 19 September 2019

Scientific Field
Quantitative Remote Sensing (Aerosol, Energy Exchange at the boundary layer), Geocomputation, Big Earth Data

Researcher ID:
ORCID ID: 0000-0003-3091-6637
ISI Web of Science 30 May 2020
No. of articles.......... 283
H index................... 25
Total citations........ 2,442
No. of Nature and Science papers...........

Major 5 Publications


Sergej Zilitinkevich
Prof. of geophysics (USSR Academy of Sciences), Prof. of meteorology (Uppsala University, Sweden), Member of Academia Europaea, Finnish Academy of Science & Letters and Societies Scientiarum Fennica, Fellow of Royal Meteorological Society, Honorary Member of European Geoscience Union, Doctor honoris causa of universities of Pretoria, Odessa and Nizhny Novgorod

FINLAND

Date of election: 24 June 2013

Scientific Field
Meteorology, Oceanography, Physics of Turbulence

Researcher ID: L-8465-2015
ORCID ID: 0000-0002-3909-5436
SCOPUS ID:

Publications: 9 books, over 200 peer-reviewed papers and 3 literary works.
ISI Web of Science/GoogleScholar 12 June 2020
H index................................................. 31 / 45
Total citations...................................... >3100 / >7000
i10-index............................................. 107

First or single author in almost all papers making H-index

Major 5 Publications

4. Index

A
Alexander H. Alexandrov
Meinrat O. Andreae
Almut Arneth
Steven Arnold
Irina Artemieva

B
Jaana Bäck
Alexander Baklanov
Jerzy Bartminski
Ekaterina Batchvarova
Robert Bornstein
François Bouillé

C
Iliia Dimitrov Christov

D
George Djolov†

E
Konstantinos Eleftheriadis
Tov Elperin†
Igor Esau

F
Harindra Joseph S. Fernando
Manfred M. Fischer

G
David G. Gee
Petar Getsov
Michael Ghil

H
Hans-Christen Hansson
Martin Heimann
Albert A. M. Holtslag
Frank Hoffmann

I

J
Juha A. Janhunen

K
Veli-Matti Kerminen
Markku Kivinen
Nathan Kleeroin
Milan Konecny
Salomon B. Kroonenberg
Markku Kulmala
Vladimir Kutcherov

L
Ari Laaksonen
Paolo Laj
Hanna K. Lappalainen
Søren Ejling Larsen

M
Fedor Mesinger
Arto Mustajoki

N
Steffen M. Noe

O
Ferjan Ormeling

P
Tuukka Petäjä

Q

R
Igor Rogachevskii

S
Alexander Sadovski
Anatoly Shvidenko
Henrik Skov

T
Petteri Taalas

U
Ilya Usoskin

V
Bas van de Wiel
Timo Vesala
Yrjo Viisanen

W
Desheng Dash Wu

X
Yong Xue

Y

Z
Sergej Zilitinkevich

†Deceased
5. Contact Information

Director IEAS-Europe, Vice-President of IEAS, Acad. Prof. Markku Kulmala
Academician, Academy Professor Markku Kulmala
University of Helsinki, Faculty of Science
Institute for Atmospheric and Earth System Research (INAR) / Physics
P.O. Box 64
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E-mail: markku.kulmala@helsinki.fi
Tel: +358 40 5962311

Vice-Director Prof. Sergej Zilitinkevich
Prof. Sergej S. Zilitinkevich
Finnish Meteorological Institute
PO Box 503 (Erik Palmenin aukio 1), 00101 Helsinki, FINLAND
E-mail sergej.zilitinkevich@fmi.fi
Tel: +358 505 73 22 03
Fax: +358 29 539 4103

Scientific Secretariat
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University of Helsinki, Faculty of Science
Institute of Atmospheric and Earth System Research (INAR) / Physics
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E-mail: iryna.bashmakova@helsinki.fi
Mobile: +358 50 415 4728

Mrs. Alla Borisova
University of Helsinki, Faculty of Science
Institute of Atmospheric and Earth System Research (INAR) / Physics
P.O. Box 64,
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