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 edition by Irina Bashmakova IEAS Secretary in collaboration with PEEX HQ Alla Borisova, Stephany Mazon, Hanna K. Lappalainen, October 2020
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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 joint 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 life. 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

Contact:
Hahn-Meitner-Weg 1, 55128 Mainz
www.mpic.de
m.andreae@mpic.de
Tel: +358 2 941 911
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

Contact:
Kreuzeckbahnstr. 19, 82467 Garmisch-Partenkirchen
www.imk-ifu.kit.edu
almut.arneth@kit.edu
Tel: +49 8821 188 131
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-2106-2013
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

University of Copenhagen, Department of Geosciences and Natural Resources Management (IGN)

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Tel: +45 3532 2473
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
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: 0000-0002-5396-8440
ORCID ID: 0000-0002-5396-8440
GoogleScholar / ResearchGate (20 May 2020)
No. of articles........ 147 /
H index.................. 45 / 40
Total citations........ 8,407 / 6,690
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
Prof. Emeritus,
Maria Curie Skłodowska
University (UMCS)/
Instytut Slawistyki PAN

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-Bart-
   mińską];
   kontextu kultury, Praha 2016

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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  
Date: 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........... 28
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

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pblmodel@hotmail.com  
Tel: +1 408 924 5205

Professor Emeritus of Meteorology and Climate Sciences  
San Jose State University
François Bouillé
Prof. Dr.
FRANCE

Date of election:

Scientific Field

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

Major 5 Publications

Contact:
Professor Emeritus,
Sorbonne-Université P.&
M.Curie

8 June 2020
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:
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ichristow@gmail.com
Tel: +359 888 191 483
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


Contact:
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15310 Ag. Paraskevi, Attiki
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elefther@ipta.demokritos.gr
Tel: +30 2106503008
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 Environment 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.........
H index.................... 51
Total citations......... 11,176
i10-index................ 139
No. of Nature and Science papers........

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

Major 5 Publications


Contact:
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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: 10.5897/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: 10.5897/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

Hans-Christen Hansson
Prof. Dr.
SWEDEN

Date of election: 4 December 2017

Scientific Field
Atmospheric Science

Researcher ID:
ORCID ID:
ISI Web of Science

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
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-EX2002Bo50267-103 (EC)

GERMANY

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:
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


Contact:
PO Box 42, Unioninkatu 33, 00014 Helsinki
www.helsinki.fi/en/aleksanteri-institute
markku.kivinen@helsinki.fi
Tel: +358 50 563 6309
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 Konecny
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 9 July 2020
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. TRANSAC TIONS 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

Contact:
PO Box 5028, 2600 GA Delft
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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

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Director
Institute of Atmospheric and Earth System Research (INAR) at the University of Helsinki

IEAS
EUROPEAN CENTRE
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/ngeo0591, 2009

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Tel: +46 8 790 8507
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

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PO Box 503, 00101 (Erik Palménin Aukio 1, FI-00560), Helsinki
https://en.ilmatieenlaitos.fi/
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  

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Tel: +33 6 85 62 88 74
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/GoogleScholar 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

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.
Steffen M. Noe  
Dr.rer.nat  
ESTONIA

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
Ferjan Ormeling
NETHERLANDS

Date of election: 1995

Scientific Field
Cartography

Researcher ID: ORCID ID: 0000-0003-4728-1631

Major 5 Publications
2. Van Diessen JR, Ormeling F: Comprehensive atlas of the Netherlands East Indies: Asia Maior 2003
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


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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

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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........................................... 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

Date of election: 13 September 2017

Scientific Field
Arctic Atmospheric Chemistry

Researchers 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.
Ilya Usoskin

Knight (1st class) of the Order of Lion of Finland
Finnish Academy of Sciences and Letters, member
Recipient 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

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

Major 5 Publications  


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Tel: +31 15 27 89526
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

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........ 150
H index......................59
Total citations........6,347
No. of Nature and Science papers........

Major 5 Publications


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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

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https://www.sbs.su.se/
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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., Dr.
FINLAND
†Deceased
Date of election: 24 June 2013

Sergej Zilitinkevich: international scientist, winner of many awards, and leader of numerous international research projects that produced many outstanding contributions to the physics of atmospheric turbulence and of planetary boundary layer (PBL) processes and structures. Sergej’s research was honoured with many international prizes and awards, including the Vilhelm Bjerknes (2000) and Alfred Wegener (2015) medals of the European Geophysical Union, as well as the prestigious IMO Prize (2019) for outstanding contributions to meteorology, climatology, and related fields (https://public.wmo.int/en/media/news/sergej-zilitinkevich-named-imo-prize-laureate).

For more than half a century his work was pioneering in both theoretical developments and practical applications that responded to vital needs in weather forecasting, air-quality prediction, and climate modelling. He published more than 200 papers and nine books on PBLs, air–sea interactions, environmental turbulence, the general circulations of the Earth, planetary atmospheres, climate theory, and the physical aspects of modelling water ecosystems. His first book, Dynamics of the Atmospheric Boundary Layer, published in 1970 has withstood the passage of time and contains many ideas that still remain innovative today.

Sergej was an excellent mentor and a prodigious generator of novel ideas for his students. He supervised more than 20 Ph.D. students from many countries, some of whom became his collaborators for many years and who have co-authored many of his publications.

He made many valuable contributions to the Russian-Finnish-EU collaboration in meteorology. Beginning in 2012, he was a Chief Scientist of the International Pan-Eurasian Experiment (http://www.atm.helski.fi/peex/), a scientific programme that involved research groups from Western Europe, Russia, China, and Japan, and which focused on climate change and global pollution.

Sergej Zilitinkevich will be greatly missed by his many friends and colleagues in Russia, the EU, and America. They will remember his extraordinary intellectual abilities, his dry wit, and above all his never wavering generous kindness and friendship. He is truly a generational “one of a kind.”
4. Index

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Alexander H. Alexandrov
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Robert Bornstein
François Bouillé

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D
George Djolov†

E
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Tov Elperin†
Igor Esau

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Harindra Joseph S. Fernando
Manfred M. Fischer

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Petar Getsov
Michael Ghil

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Hans-Christen Hansson
Martin Heimann
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Veli-Matti Kerminen
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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

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Ferjan Ormeling

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V
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Timo Vesala
Yrjo Viisanen

W
Desheng Dash Wu

X
Yong Xue

Y

Z
Sergej Zilitinkevich†

†Deceased
5. Contact Information

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Academician, Academy Professor Markku Kulmala
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Mrs. Alla Borisova
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