THERE IS NO CLIMATE Declaration THERE IS NO CLIMATE SERVICE SE

1961 SIGNATORIES



GLOBAL CLIMATE INTELLIGENCE GROUP

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World Climate Declaration

THERE IS NO CLIMATE EMERGENCY



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There is no climate emergency

Climate science should be less political, while climate policies should be more scientific. Scientists should openly address uncertainties and exaggerations in their predictions of global warming, while politicians should dispassionately count the real costs as well as the imagined benefits of their policy measures

Natural as well as anthropogenic factors cause warming

The geological archive reveals that Earth's climate has varied as long as the planet has existed, with natural cold and warm phases. The Little Ice Age ended as recently as 1850. Therefore, it is no surprise that we now are experiencing a period of warming.

Warming is far slower than predicted

The world has warmed significantly less than predicted by IPCC on the basis of modeled anthropogenic forcing. The gap between the real world and the modeled world tells us that we are far from understanding climate change.

Climate policy relies on inadequate models

Climate models have many shortcomings and are not remotely plausible as policy tools. They do not only exaggerate the effect of greenhouse gases, they also ignore the fact that enriching the atmosphere with CO_2 is beneficial.

CO₂ is plant food, the basis of all life on Earth

 CO_2 is not a pollutant. It is essential to all life on Earth. More CO_2 is favorable for nature, greening our planet. Additional CO_2 in the air has promoted growth in global plant biomass. It is also profitable for agriculture, increasing the yields of crops worldwide.

Global warming has not increased natural disasters

There is no statistical evidence that global warming is intensifying hurricanes, floods, droughts and suchlike natural disasters, or making them more frequent. However, there is ample evidence that CO₂-mitigation measures are as damaging as they are costly.

Climate policy must respect scientific and economic realities

There is no climate emergency. Therefore, there is no cause for panic and alarm. We strongly oppose the harmful and unrealistic net-zero CO_2 policy proposed for 2050. Go for adaptation instead of mitigation; adaptation works whatever the causes are.

OUR ADVICE TO THE WORLD LEADERS IS THAT SCIENCE SHOULD STRIVE FOR A SIGNIFICANTLY BETTER UNDERSTANDING OF THE CLIMATE SYSTEM, WHILE POLITICS SHOULD FOCUS ON MINIMIZING POTENTIAL CLIMATE DAMAGE BY PRIORITIZING ADAPTATION STRATEGIES BASED ON PROVEN AND AFFORDABLE TECHNOLOGIES.

To believe the outcome of a climate model is to believe what the model makers have put in. This is precisely the problem of today's climate discussion to which climate models are central. Climate science has degenerated into a discussion based on beliefs, not on sound self-critical science. Should not we free ourselves from the naive belief in immature climate models?



The undersigned:

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 Ingénieur Géologue, Goldminds

• Susan Crockford Zoologist and Polar Bear Expert, Former Adjunct Professor University

of Victoria

• Norman Curry Technical College, Design Engineering-Mechanical Engineering,

President of National Zephyr Research

• Charles Danten former veterinarian, scientific translator, author, and free-lance

journalist.

• John Bruce Davies BSc Pysics and Mathematics, MSc Geoscience, PhD Geophysics and

Astrophysics, awards for research on cosmology and fundamental

physics.

Ronald Davison Professional Chemical Engineer

• Dr. E. David Day BSc, PhD, Chemistry

• A.E. Dixon PhD, Emeritus Professor of Physics, University of Waterloo

• Eric Ducharme MSc, Géologie, Abitibi

Michel Dumais
 Ingénieur Civil Retraité, Université d'Ottawa

• Dr. George Duncan PhD, Retired environmental consultant from A &A Environmental

Consultants Inc.

Claude Duplessis
 BcSc, Géologie, Ingénieur Géologue, Goldminds

Craig A. Elliott
 MSc Mechanical Engineering, Design Consultant, President at CAElliott

Inc

Ashton Embry Research Geologist, Embry Holdings

• Christopher Essex Emeritus Professor of Mathematics and Emeritus Professor of Physics,

University of Western Ontario

David Fermor Anaesthesiologist, B.A., M.D., FRCPC
 Chris Fleming PhD, Senior Metallurgical Consultant

• Len Flint Ph.D, P.Eng. (Life Member). A 54 year career in oil and gas and

renewable energies. Advisor on GHG footprints for several companies

in Canada. Follower of the broad science.

André Forgues
 Meteorologist/Aerologist

Jeffrey Foss†
 Professor of Philosophy of Science, University of Victoria; Former WCD

Ambassador

Joseph Fournier
 PhD, Expert in Physical Chemistry

Anita Frayne farmer and firm adherent of science realism-based decision making.
 Paul M. Gagnon Professional Engineer

George Gale
 PhD Geology, Mineral Deposit Geoscience

• Thomas P. Gallagher Earth Scientists, life-long career in the study of paleoclimate, geology

and earth ocean systems, see https://www.youtube.com/watch?v=pj-

Iu1i317E

• J. Claude Gobeil BSc, Geology

Douglas Goodman Engineer, life of time experience in the geo-energy industry
 Kenneth B. Gregory Professional Engineer, Director Friends of Science Society

Jean-Francois Guay
 PhD in Environmental Science and Decision System, Regional Planner

and Associate Professor

• Dr. Paul Hamblin Retired Research Scientist Environment Canada, Advisor to the

Georgian Bay Association

John Hastie
 MSc Soil Physics, Reclamation and Soil Scientist

Mark T. Hohm Professional Engineer registered with the Association of Professional

Engineers and Geoscientists of Alberta (APEGA)

R.G. Holtby profesional agrologist

Patrick Hunt former member of the Royal Canadian Navy, former member of the

Legislative Assembly of Nova Scotia, retired entrepreneur in the high-

tech field (35 Years)

Rick Ironside
 Director Fortress ESG, provides specialized expertise to help clients

map out their journey to attempt to achieve the goal of net zero by

2050

Eric Jelinski
 M. Eng. P. Eng., Alumni and Contract Lecturer, University of Toronto,

Department of Chemical Engineering and Applied Chemistry, CHE568

Lecturer, Nuclear Plant Engineering

Paul A. Johnston Associate Professor, Paleontology, Paleoecology, Department of Earth

and Environmental Sciences, Mount Royal University, Calgary, Alberta

• Richard T. Jones experimental physicist, researched in the field of fission energy

• E. Craig Jowett Geologist and Environmental Researcher PhD University of Toronto

Andre Julien MSc Mechanical Engineering, Thermodynamics Expert, over 40

patents published

Klaus L.E. Kaiser Retired Research Scientist, National Water Research Institute, Author

of Numerous Press Articles

Bogdan Kasprzak Professional Geoscientist, life time experience in data modelling, data

analysing and data interpretation

Madhav Khandekar Expert Reviewer IPCC 2007 AR4 Report

David Koop
 BSc,Analytical Chemist

Kees van Kooten
 Professor of Economics and Canada Research Chair in Environmental

Studies and Climate, University of Victoria

Research Council of Canada, visiting professor at Zhejiang University

in Hangzhou, retired

• Jean Laberge Professeur Retraité de Philosophie, CEGEP du Vieux Montréal

Sherri Lange
 CEO North American Platform Against Wind Power, Great Lakes Wind

Truth

M.J. Lavigne
 MSc, Professional Geologist

Douglas Leahey
 PhD, Meteorology, past President of Friends of Science

Professor Denis Leahy
 PhD in Astrophysics, Full Professor in the Department of Physics and

Astronomy, University of Calgary

• Dr. Catherine Lebrun PhD, Management, HEC Montreal

Robert Ledoux PhD, Professeur Retraité en Géologie, Université Laval
 Dick Leppky Retired businessman and Independent Truth Seeker

Richard Lewanski
 BsC (Hons) in Geophysics from the university of Manitoba, Exploration

Geophysicist, Founder and CEO of several exploration and production

companies in the oil industry

• H. Douglas Lightfoot Research Engineer in the Chemical Industry, Co-Founder of the

Lightfoot Institute, papers on Alternative Energy and Atmospheric

CO2

Gerald Machnee
 Retired Meteorologist, Environment Canada

• Allan M.R. MacRae Retired Engineer

• Joanne Marcotte Bachelor's Degree in Computer Engineering and Author of

"Inconvenient Doubts - Climate Change Apocalypse: Really?"

Michael Martinz
 Radio Podcast Host, Climate Realist, Activist, former Industrial

Consulting Forester

• J. David Mason Applied Geologist, BASc, Applied Geology, MEng., Mining

Stuart McDonald Retired Canadian Insurance Broker

• Dwight McIntosh degree in physics and geology at the University of Alberta, lifetime of

experience in the geo-energy industry, advisor on how to cope with

financial penalties for GHG emissions

Norman Miller Former P.Eng, now Retired

Ron Mills Geologist/geochemist Emeritus NS Geological Survey

Randall S. Morley veterinary epidemiologist, retired

Dr. Thomas F. Moslow
 PhD, P. Geol., President Moslow Geoscience Consulting Ltd., Adjunct

Professor Department of Geoscience, University of Calgary

Roland Moutal Teacher Physics and Chemistry at Vancouver Community College

Prof. Frank Mucciardi retired Professor in the Department of Mining and Materials

Engineering at McGill University Montreal, research focus on energy,

heat transfer, fluid mechanics and modeling

Eiichiro Ochiai Emeritus Professor, Juniata College (USA)

Christian Olivier former Postdoc @ UC Berkeley

Robert Orr Historical Linguist
 Scott Patterson Professional Geologist

Andy Pattullo Associate Professor of Medicine at the University of Calgary

• Steven Pearce PhD, Lecturer

Prof. David A. Penny
 PhD, Former Associate Professor, Dept. of Computer Science,

University of Toronto, currently CTO at BlueCat Networks

• Gregory Phillips Retired Agrifood Industry Professional, with research background in

biology, economics and policy formulation.

Jozinus Ploeg retired Vice-President, Engineering and Technology, National Research

Council, Canada. Field of expertise: Energy transfer from atmosphere

to surface of ocean, wave mechanics

Joe Postma Research Analyst, Physics & Astronomy, University of Calgary
 Brian R. Pratt Professor of Geological Sciences, University of Saskatchewan
 Michael Priaro BSc Chem. Eng, P.Eng, Member of Association of Professional

Engineers and Geoscientists of Alberta

Gerald Ratzer Professor Emeritus, Computer Science McGill University, Montreal
 John Angus Raw aerospace engineer, specialised in aerodynamics, life time career in

the international aerospace industry

Dr. Michael Raw
 PhD in Mechanical Engineering, specialization in computer modelling

of fluid flow and heat transfer, current field of work in technology

management

Robert James Reid BSF degree, Registered Professional Forester, lifetime experience in

the forestry industry

Norman Reilly Professor Emeritus of Mathematics, Simon Fraser University, British

Columbia

Gérald Riverin
 PhD, Géologie, Géologue Retraité

John Robson Historian, Journalist, Documentary Filmmaker
 Peter Salonius Retired Research Scientist, Natural Resources
 Marcelo C. Santos Professor of Geodesy, University of New Brunswick

Paul R. Schmidt BSc, Professional Engineer Ontario, Research Scientist, Author/

Lecturer 'Review & Analysis of Climate Change', Member Friends of

Science

Ian de W. Semple Retired Exploration Geologist and Mining Investment Analyst of McGill

University

• Afshin Shahzamani Retired professional (Medical Science Liaison) pharmaceutical

industry

• Élie Shama Ingénieur Retraité en Électromécanique, Président d'Éconoden,

Montréal

Wayne Shepheard
 MSc Geology, Retired oil and gas explorer

H.F. (Gus) Shurvell
 Emeritus Professor of Chemistry, Queen's University

Brian Slack Distinguished Professor Emeritus, Concordia University Montreal,

Department of Geography, Planning and Environment

Aize Smit MSc Climatology on Global Warming, retired high school science and

A.P. environmental science teacher

Nigel Southway
 Business and Manufacturing Engineering Consultant, Educator, and

Author

Rodolfo (Rudy) Spatzner graduated from Environmental/Civil Engineering Technology, Humber

College, Ontario, lifetime experience in wireless networks across

North America

• Robert Sproule PhD, Professor of Economics, Bishop's University, Quebec, Canada

Michelle Stirling
 Writer/Researcher with focus on 'consensus' social proofs, Top 10%

downloaded author on SSRN, Communications Manager, Friends of

Science Society

Mary Taitt
 PhD Zoology, MSc Ecology, retired

• Mario Thomas B.Sc., Ph.D. Chemistry, CEO and Chairman of Precision Biomonitoring

Inc.

Graydon Tranquilla BScEE, Electrical Power, Senior Electrical Engineer (retired), now an

energy advisory consultant

• V Ismet Ugursal Professor of Mechanical Engineering, Dalhousie University

Marc Vallée PhD, Geophysicien

Petr Vaníček
 Dr. Sc, Professor Emeritus of Geodesy, University of New Brunswick

• Duncan Veasey psychiatrist with a particular interest in mass hysteria,

authoritarianism and social compliance

• Prof. Dr. Ir. Frank C.J.M. van Veggel Full Professor at the University of Victoria, M.Eng and PhD in Chemical

Technology, University of Twente, The Netherlands, Since 2015 Fellow

of the Royal Society of Canada

• Jean-Joel Vonarburg PhD, Professeur Ingénieur, Université du Québec à Chicoutimi

Dr. Ronald Voss
 PhD Chemistry, lifetime career in the environment department of a

research consortium

Robert Wager
 BSc and MSc, Microbiological Sciences and Immunology, Biochemistry

and Molecular Biology, Retired

• Dr. Helen Warn PhD in Fluid Dynamics from McGill University

• Dr. Thorpe W. Watson material science, lifetime career in the mining industry with focus on

intellectual property protection

• Larry Weiers energy engineer, retired, author of "Sustainability of the Modern

Human Economy"

William van Wijngaarden
 Professor of Physics, York University

Kenneth W. Wilson Professional Engineer (retired)
 Daryl Youck MSc, PEng, Oil Sands Pioneer

• AL ZEEPER Physicist, Mathematically discovered the Unification of Gravity with

Electricity and Magnetism



4 SIGNATORIES FROM CHILE

1 WCD Ambassador

Douglas Pollock
 Civil Industrial Engineer, University of Chile

3 Signatories

• Juan Luis Edwards Velasco Civil engineer in hydraulics, Universidad Católica de Chile, Master in

hydraulic engineering, Universidad de Santander, Spain

Rafael Muñoz Canessa
 Part time Academic University of Talca, Economics and strategic

management



4 SIGNATORIES FROM CHINA

4 Signatories

• Dr. Robert Hanson PhD, BA (Hons), MA, LL.M, PGCE, CPE, Barrister

Guang Bao Liu
 BSc and MSc in Atmospheric Physics, Author of "The Principle of

Periodic Changes in Earth's Climate"

China continued

 Wyss Yim 	Retired Professor, Dpt of Earth Scie	ences, University of Hong Kong,

Dept Chairman Climate Change Science Implementation Team
UNESCO year for Planet Earth, Expert Reviewer IPCC AR2

NG Young
 Principal Geoscientist, Danxiashan Global Geopark of China



2 SIGNATORIES FROM COLOMBIA

2 Signatories

William Antonio Lozano Rivas
 full Professor of Water Management, Water Engineering, Climate and

Meteorology, Simulation and Modeling; Piloto de Colombia University

Felipe Villegas
 MSc Civil engineer. MBA, Consultant for Energy, Policy and Regulation



1 SIGNATORY FROM COSTA RICA

1 Signatory

Eugenio G. Araya
 Theoretical Physicist, Researcher, former scientist at University of

Costa Rica



2 SIGNATORIES FROM CROATIA

1 WCD Ambassador

Dušan Bižić
 MSc, Meteorologist, Head of Radar Centre of the Croation

Meteorological and Hydrological Service

1 Signatory

• Zorislav Gerber MSc, Head of Hail Prevention Support Department, Croatian

Meteorological and Hydrological Service



1 SIGNATORY FROM CYPRUS

1 Signatory

Darko Krstic editor of https://philosophyofgoodnews.com/



16 SIGNATORIES FROM CZECH REPUBLIC

15 Signatories

Ladislav Bocak
 PhD, Professor of Entomology, Czech Advanced Technology and

Research Institute

Pavel Dudr
 Ing, Independent publicist and climatologist / Pravy prostor, EP

Shark/

Marek Eiderna Agricultural Engineer and graduated in General Biology

• Tomas Furst PhD, teacher of mathematics at Palacky University in Olomouc and a

proponent of correct, i.e. Bayesian inference

Vaclav Hubiner Retired Ambassador, Anthropologist, Climate Policy Commentator for

www.forum24.cz

Pavel Kalenda
 PhD, CSc., Coal Expert

• Václav Klaus Former President of the Czech Republic, Professor of Economics,

Founder of the Václav Klaus Institute

Peter Kopa Lawyer, Writer, Publisher, Founder of thinktanklatam.org

Tomáš Kvítek
 Professor, Faculty of Agriculture and Technology, Department of

Applied Ecology, University of South Bohemia in Ceské Budejovice

Lubos Motl
 PhD, former Harvard faculty, high energy theoretical physicist, co-

author of the 2009 NIPCC report

• Václav Procházka participates in paleoclimatic research of sediments in central Europe

and in the exogenous model of global tectonics showing that the Earth

crust cannot be ignored in climatic models.

Dr. Milan Salek
 PhD, Freelance Meteorologist and Consultant

• Ivan Spicka Professor of Internal Medicine at Charles University with speciality in

Hemato-Oncology, Prague

Dalibor Štys professor of Applied physics, Faculty of Fisheries and Protection of

Waters, University of South Bohemia in ?eské Bud?jovice

Czech Republic continued

Gary M. Vasey
 PhD, Geology, Managing Partner and Analyst in Commodity

Technology Advisory llc

Ing. Miroslav Žáček
 PhD., aplied geochemistry, been working on the climate for more than

10 years as a geochemist



15 SIGNATORIES FROM DENMARK

1 WCD Ambassador

• Jens Morten Hansen PhD, Geology, Professor at Copenhagen University, Former Director

General for the Danish National Research Agency and National

Research Councils

14 Signatories

Bjarne Andresen Professor of Physics, Niels Bohr Institute, University of Copenhagen

Claus Beyer Geologist, gen.manager for CB-Magneto, possessing palaeomagnetic

laboratory

• Steffen Frederiksen MSc Economics, Climate Economics, Cost benefit analysis of CO2

Dr. Hans Götzsche
 Emeritus Associate Professor, Linguistics and Philosophy of Science,
 President Nordic Associaton of Linguists (NAL), Director, Center for

Linguistics, Aalborg University

• Frank Hansen Emeritus Professor, Department of Mathematics, University of

Copenhagen

Niels Harrit PhD, Emeritus Associate Professor of Chemistry, Dept. Chemistry,

University of Copenhagen

Sören Kjärsgaard Professional Chemical Engineer

• Johannes Krüger Emeritus Professor, Dr. Scient, Department of Geosciences and Natural

Resource Management, University of Copenhagen

Knud Larsen PhD, Natural Sciences

Peter Locht Senior Lecturer, Business Academy Aarhus (statistics)

Peter Kjær Poulsen
 Metering Engineer

• Steen Rasmussen Bsc in Electrical Engineering from Denmark Technical University,

lifetime career at IBM Denmark Aps

• Niels Schrøder Geophysist/Geologist, Associate Professor Institute of Nature and

Environment, Roskilde University

Pavel Svennerberg Master of engineering, Technology of oil and gas processing



1 SIGNATORY FROM ECUADOR

1 Signatory

• Fernando Villon MSc, Industrial Engineer, Lifetime Experience in the Geo-Energy

Industry



1 SIGNATORY FROM ESTONIA

1 Signatory

• Andres Saukas Diploma Electrical Engineer, Estonian Society of Moritz Hermann

Jacobi



7 SIGNATORIES FROM FINLAND

7 Signatories

Merit Enckell
 PhD, MSc, former KTH, Royal Institute of Technology, freelance

researcher, specialist in Structural Health Monitoring, sustainable

development

Christer Kald
 Engineer with academic studies in Physics, Chemistry and

Mathematics

• Simo Mykkanen Ba Econ, small business owner, retired

• Ari Okkonen MSc EE, Finland, Climate data analysis enthusiast

• Dr. Antero Ollila Emeritus Adj. Ass. Professor Aalto University, expert in atmospheric

modeling

• Simo Ruoho

President Ilmastofoorumi ry Finland, Signature of association https://

ilmastofoorumi.fi including its scientists and professional members

• Boris Winterhalter



113 SIGNATORIES FROM FRANCE

1 WCD Ambassador

Benoît Rittaud Assistant professor of Mathematics at University of Paris-Nord,
 President of the French Association des climato-réalistes

112 Signatories

• Jean-Charles Abbé Former Research Director at CNRS, Labs Director (Strasbourg, Nantes)

in Radiochemistry, Expert at NATO and IAEA

Pascal Acot
 Centre National de la Recherche Scientific, Paris

Bertrand Alliot Environmentalist

Yacine Amara
 PhD of Applied Physics, Professor of Electrical Engineering

Frédéric Antoine graduated from Sciences Politiques in France
 Charles Aubourg Full Professor at the University of Pau, Geophysicist

Hervé Azoulay
 Engineer (CNAM), Specialist of Networks and Systemics, CEO and

President of several Associations

Guy Barbey
 Alumnus of Harvard Business School, Retired Investment Banker,

Founder and President of 'Climate et Vérité'

• Jean-Pierre Bardinet Ingénieur ENSEM, Publicist on Climate Issues

• Yorik Baunay Geographer (Master 2) specialized in the natural risk and crisis

management, CEO of Ubyrisk Consultants (firm specialized on natural

hazard mitigation)

Bernard Beauzamy University Professor (Ret.), Chairman and CEO, Société de Calcul

Mathématique SA (Paris)

Serge Bellotto PhD, Geology

Guy Bensimon Retired Associate Professor of Economics at Institute of Political

Studies of Grenoble (SciencesPo Grenoble)

• Jean-Claude Bernier Emeritus Professor (University of Strasbourg), Former Director of the

Institute of Chemistry of the CNRS

Pierre Beslu
 Former Researcher and Head of Department in the French Nuclear

Energy Commission (CEA)

Michel Bouillet PhD, Human Geography, Emeritus Professor, Former Associate

Researcher at the MMSH (Aix-en-Provence)

Christian Buson
 PhD, Agronomy, Director of Research in a Company (impact studies in

Environmental Issues, Sewage Treatment)

• Jean-Louis Butré Head of Laboratory at Grenoble Nuclear Research Center, President

of the Fédération Environnement Durable and the European Platform

Against Windfarms

Emmanuel Camhi Msc in Physics, life time experience in Complex Systems Modeling and

Data Analysis in the Aerospace industry

Bernard Capai Retired Chemistry Engineer, Specialist of Industrial Processes avoiding

the use of Carcinogenic Solvents $\,$

• John Carr PhD in Physics, Directeur de Recherche CNRS (retired), Particle

Physics and Astroparticle Physics

Patrick de Casanove
 Doctor of Medicine, Chairman of the Cercle Frédéric Bastiat

Philippe Catier Medical Doctor

Vincent Chaplot PhD Soil Science, Senior Research Scientist
 Bruno Chaumontet Engineer ENSEA, specialized in Feedback Systems

• Pascal Chondroyannis Forest Engineer, Retired Director of the National Alpine Botanical

Conservatory (2008-2013)

• Jean Michel Colin PhD, Retired Chemist Engineer, Expert for the French Academic

Evaluation Agency (AERES)

Philippe Colomban
 CNRS Research Emeritus Professor, Former Head of Laboratory at

Université Piere-et-Marie Curie, Expert in Hydrogen-based Energy

Storage

• Jacques Colombani Former Research Director ORSTOM-IRD, numerous Studies in

Hydrology and Climatology and Specialist in Fluid Mechanics, Member

of the Board of ORSTOM for twenty years

Christian Coppe
 PhD, Organic & Analytical Chemistry

France continued

Philippe Costa	Energy Engineer at ENSEM Nancy, specialist in Industrial Process and Energy Saving
• Vincent Courtillot	Geophysicist, Member of the French Academy of Sciences, Former Director of the Institute de Physique du Globe de Paris
Pierre Darriulat	Professor of Physics, Member of the French Academy of Sciences
• Jean Davy	Engineer (ENSAM), Digital Modeling Software Developer
Dr. Stephen John Dearden	Retired Research Chemist, lifetime R&D experience in the general chemical, pharmaceutical and photographic industries
Pierre Delarboulas	CEO of a Robotics Company, Former R&D Director at Partnering Robotics, Silver Medal at the 2016 Lépine contest of the Ministry of Foreign Affairs and International Development
Jean-Pierre Desmoulins	Retired Professor of Thermal and Energy Engineering at the "Institut Universitaire de Technologie, Université-Grenobles-Alpes"
Gérard Douhet	PhD, Nuclear Physics, Retired Engineer at CERN, Technical Manager on Digital Transmission and Video Encoding
Hubert Dulieu	Emeritus Professor Applied Ecology, Formerly Senior Researcher in the CNRS, President of the National Scientific Research Committee, Vegetal Biology Section (XXVII)
• Dr. Denis Dupuy	Urologist, climate realist
Bruno Durieux	Economist, Former Minister of Health and of Foreign Trade, Ancient Administrator of the French National Institute of Statistics and Economic Studies (INSEE)
• Ralph Ellis	Bsc in Aviation, ATPL
Max Falque	International Consultant in Environmental Policy
Serge Ferry	PhD, Retired Teacher-Researcher (MCF), University of Lyon
 Patrick Fischer 	Associate Professor in Applied Mathematics, University of Bordeaux
Michel Frenkiel	Engineer (Arts et Métiers), Former Researcher with NCAR at Boulder
Francis le Gaillard	PhD, Natural Sciences and Pharmaceutical Sciences, Emeritus Professor of Biochemistry at the Faculty of Pharmaceutical Sciences of Toulouse
 François Gauchenot 	Governance Specialist, Founder of Saint George Institute
• Denis Geraads	PhD, Emeritus Directeur de Recherches, CNRS, Paris. Paleontologist and paleoecologist, specialized in Miocene to Pleistocene mammals.
Jean Gergelé	Engineer Graduate from the Ecole Centrale de Lyon, R&D Director, Freelance Consultant, mainly in the Li-ion battery development
Christian Gérondeau	Former Advisor of several French Prime Ministers, Formerly responsible for the Road Traffic Safety Policy for France and the European Union
• Francois Gervais	Emeritus Professor of Physics and Material Sciences, University of Tours
 Philippe Giraudin 	Ecole Polytechnique Paris, Geographic Sciences
Bernard Grandchamp	Agronomic Engineer and Environment & Plant Defense Expert, Managing Director of Famoux Chateaux Viticoles in Bordeaux
Gilles Granereau	Former Meteorologist, currently Project Manager Environment and Tourism, Worked on Coastal Risks, Marine Erosion, Sand Dune Fixation, Hydraulics, Forest Management, Botany
 Maximilian Hasler 	Associate Professor in Mathematics, University of French West Indies
Charles Hazan	Retired Chemist (ENSCP) and Chemical Engineer (UMIST) Former Technical Director Nosolor
 Manfred Horst 	MD, PhD, MBA, lifetime career in healthcare and pharmaceuticals
• Ed Hoskins	MSc, Founder of Applied Research of Cambridge
Julien Iapichella	PhD in Chemistry
Yvon Jarny	Emeritus Professor in Thermal and Energy Sciences, Nantes University
Claude Jobin	Retired A&M Engineer specialized in Microwave Communication
Alan Kennedy	Emeritus Professor of Psychology, University of Dundee, Fellow of Royal Society of Edinburgh
Vladimir Klein	lifetime career in renewable energy projects, patent holder in aerobic composting of organic waste
Alexandre Krivitzky	Psychoanalyst, Member of the International Psychoanalytical Association
Roger Lainé	Retired Geological Engineer

France continued

FI	ance continueu	
•	Philippe de Larminat	Professor at École Centrale de Nantes, specialist of Business Process Modeling
•	Jacques Laurentie	Aeronautical Engineer, and CEO of a software publishing company
•	René Laversanne	Researcher at the CNRS, 16 patents
•	Christian Liegeois	PhD Physics, patent holder in photonics
•	Jean-Marie Longin	Engineer (Saint-Cyr), Chief of the Pole Operations of Security Inventory Management
•	Guy Lucazeau	Emeritus Professor (Institut Polytechnique de Grenobel) in Material Sciences and Spectroscopy
•	Philippe Malburet	Emeritus Associated Professor of Mathematics, Founder of the Planetarium of Aix-en-Provence, Member of the Academy of Aix-en-
		Provence
•	Christian Marchal	Astronomer and Mathematician, Former Research Director at the French National Office for Aerospace Studies and Research
•	Dr. Yves G. Maria-Sube	PhD in Geosciences Montpellier University, lifetime career in the geoenergy industry
•	Paolo Martinengo	Applied Physicist, Senior Staff Member in the Experimental Physics Department, Detector Technologies Group, CERN
•	Patrick Mellett	Architect and CEO
•	Marc le Menn	PhD, Head of Metrology-Chemistry Oceanography Lab, Brest
•	Henri Mertz	Ingénieur Civil de l'école de la Métallurgie et des Mines de Nancy, Chef d'Entreprises
•	Serge Monier	former manager of various multinational companies, at present Co- founder and Treasurer of 'Climat et Vérité'
•	Jean-Laurent Monnier	Emeritus Research Director, CNRS-Université de Rennes, Research Worker at the CNRS from 1973 to 2013, speciality in Pleistocene Geology in Western Europe
•	Jacques-Marie Moranne	Retired Engineer (Ecole Centrale de Lille), Specialist in Air and Water Purification, Chemical and Nuclear Engineering
•	Serge Morin	Emeritus Professor Geography at Université Michel de Montaigne, Bordeaux, Honorary Mayer of Branne
•	Cédric Moro	Geographer on Natural Hazards Management, Co-Founder of Visov, a NGO in Civil Defense
•	Philippe Morvan	Engineer ENSTA and Génie Maritime, specialist in Software Development
•	Dr. Arnaud Muller-Feuga	former researcher in biological oceanography, agronomy engineer, founder of Microphyt SA. Now retired.
•	Charles Naville	R&D Exploration Geophysicist, IFP Energies Nouvelles
•	Massimo Nespolo	PhD, Distinguished Professor of Mineralogy and Crystallography, Université de Lorraine, France
•	Michel le Normand	Emeritus Professor of Botany and Plant Pathology and Chairman of Plant Production Department, National Superior School of Agronomy, Rennes
•	Ludovic Penin	former Senior Executive, Chief Information Officer, former Entrepreneur/Investor, Co-founder and Vice-president of 'Climat et Vérité', member of "Association des Climato-réalistes'
•	Dr. Patrice Poyet	Graduated at Ecole des Mines de Paris as a geochemist and defended a D.Sc. (1986) at Nice University / INRIA, author of 'The Rational Climate e-Book'
•	Rémy Prud'homme	Emeritus Professor in Economics at University of Paris-Est, Former Deputy-Director, Environment Directorate, OECD
•	Jean Marie Ravier	Engineer of ECOLE CENTRALE DE PARIS, and diplomed SCIENCES POLITIQUES PARIS, recently retired MD of small industrial company
•	Pierre Richard	Engineer ESPCI Paris, Former Research Geochemist at Institut de Physique du Globe de Paris (IPGP)
•	Pierre Ripoche	Engineer INSA in Chemistry, Retired Project Manager in R&D, Expert in High Temperature Plasma for Optical Fiber Process
•	Isabell Rivals	Associate Professor in Statistics at ESPCI Paris
•	Betrand Rouffiange	Doctor of Medicine, specialized in Radiology
	Jean Rouquerol	Emeritus Research Director at CNRS Marseille, Expert in Gas
	,	Adsorption and Calorimetry

France continued

in charge of Operating Systems and Networks at IUT Paris

• Jorge Julian Sanchez Martinez PhD in Physics, Msc in Solid State Physics MsC in Maths

François Simonet
 PhD, Biology, Former Director for Planning and Forsight in a State

Agency for Water and Aquatic Ecosystems Management

Zakaria Tarif
 Scientific engineer specialized in electrical energy and

telecommunications

• Luc C. Tartar Mathematician, corresponding member of Académie des Sciences

in Paris, University Professor of Mathematics emeritus at Carnegie

Mellon University, Pittsburgh, PA

Marcel Terrier
 Ex Engineers in Industry, Former Teacher at the Douai School of Mines

Michel Thizon Chemical engineer, ACR (Association des Climato-Réalistes, France)

member, former researcher at the Ecole Polytechnique, consultant,

retired

David Uzal
 PhD philosophy of technics and PhD of practical philosophy

 Etienne Vernaz
 Former Director of Research of CEA (Commissariat à l'Énergie Atomique) in France, Professor at INSTN (Institut National des

Sciences et Techniques Nucléaires)

Camille Veyres Retired Engineer at École des Mines, specialist in Telecommunications

and Broadband Networks

Werner de Ville Vreden writer ("Afrika"), developper and author

• Brigitte van Vliet-Lanoë Geoscientist, Emeritus Research Director (CNRS, Université de

Bretagne Occidentale), Stratigraphy and Paleoenvironments,

Quaternary and Holocene

Théa Vogt Retired CNRS Searcher, Géomorphology, Quaternary

Palaeoenvironments, Soil and Desertification Remote Sensing

Henry Voron Retired Civil Chief Engineer, specialized in Water Management

120 SIGNATORIES FROM GERMANY

1 WCD Ambassador

• Fritz Vahrenholt Professor (i.R.) am Institut für Technische und Makromolekulare

Chemie der Universität Hamburg

119 Signatories

• Detlef Ahlborn PhD, Expert on German Energy Transition (Energiewende)

• Prof. Dr. Peter Altmiks Professor of Economics, FOM Hochschule für Oekonomie und

Management Hannover

Patrick A. Baeuerle Serial entrepreneur, co-founder of eight biopharmaceutical companies,

cancer drug developer, inventor, molecular biologist, and a member of $% \left(1\right) =\left(1\right) \left(1$

the CO2 Coalition

Hans-Jürgen Bandelt Emeritus Professor of Mathematics, University of Hamburg

Dietrich Bannert Professor Honoris Causa, University of Marburg

Graham George Baumber former agronomist & irrigation crop specialist, business man &

nvestor

• Dr. Lars Birlenbach Dr. in Chemistry, University of Siegen

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2 Signatories

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• Dr. József Majer Senior Professor of Ecology and Environment Protection at University

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1 SIGNATORY FROM ICELAND

1 Signatory

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5 Signatories

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• Vijay Jayaraj Research Associate at CO2 Coalition, Contributor to Cornwall Alliance

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2 Signatories

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7 Signatories

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 Professor of Seismology, University of Trieste, Beno Gutenberg medal

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 Ernesto Pedrocchi Professore Emerito di Energetica, Politecnico di Milano

• Davide Peluzzi Ambasciatore del Parco Nazionale del Gran Sasso e dei Monti della

Laga nel Mondo nel 2017

Enzo Pennetta Professore di Scienze Naturali e Divulgatore Scientifico

• Gianni Pettinari Impiegato Amministrativo, Fondatore del gruppo Facebook: "Falsi

allarmismi sul riscaldamento globale"

Alessandro Pezzoli
 Ricercatore universitario e Professore aggregato in Weather Risk

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Pescara

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• Paolo M.J. Pilli Pensionato

Massimo Pilolli
 PhD Physics, Physicist, Meteorologist, Teacher

• Stefano Piotto PhD in Chemistry, Associate professor in Chemistry at the University

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Mirco Poletto Geologo libero professionista, registered at 'Ordine dei geologi del

Veneto'

Andrea Pomozzi
 Presidente Associazione Piceno Tecnologie

Guido Possa
 Ingegnere nucleare, già Viceministro del Ministero dell'Istruzione,

Università e Ricerca con delega alla ricerca

Alfonso Pozio
 PhD, Senior Researcher, ENEA CR Casaccia, Rome

• Giorgio Prinzi Ingegnere, Direttore responsabile della Rivista "21mo Secolo Scienza e

tecnologia"

• Franco Prodi Professore di Fisica dell'Atmosfera, Università di Ferrara

Franco Puglia Ingegnere, Presidente CCC, Milano
 Francesca Quercia Geologo, Dirigente di Ricerca, Ispra

Nunzia Radatti Chimico, Sogin

Arnaldo Radovix
 Geologo, Risk Manager in Derivati Finanziari

Epidemiology

Mario Luigi Rainone
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 Mario Rampichini
 Chimico, Dirigente Industriale in pensione, Consulente

Arturo Raspini Geologo, Ricercatore, Istituto di Geoscienze e Georisorse (IGG),

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Enzo Reali
 MSc, Agricultural and Rural Development Expert

• Marco Ricci Fisico, Primo Ricercatore, Istituto Nazionale di Fisica Nucleare

• Renato Angelo Ricci Professore Emerito di Fisica, Università di Padova, già Presidente della

Società Italiana di Fisica e della Società Europea di Fisica, Movimento

Galileo 2001

Renzo Riva
 Comitato Italiano Rilancio Nucleare (C.I.R.N.), Buja

PierMarco Romagnoli
 Ingegnere, Milano

• Vincenzo Romanello Ingegnere nucleare, Ricercatore presso il Centro di Ricerca Nucleare di

Rez, Repubblica Ceca

Stefano Rosso
 Insegnante di Geografia, Storia e Italiano, Scuola Secondaria, Modena

• Alberto Rota Ingegnere, Ricercatore presso CISE ed ENEL, Esperto di Energie

Rinnovabili

• Ettore Ruberti Ricercatore ENEA, Docente di Biologia Generale e Molecolare

Giancarlo Ruocco Professore di Struttura della Materia, Università di Roma La Sapienza

Sergio Rusi
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• Massimo Salleolini Professore di Idrogeologia Applicata e Idrogeologia Ambientale,

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• Nicola Scafetta Professore di Fisica dell'Atmosfera e Oceanografia, Università di Napoli

Emanuele Scalcione Responsabile Servizio Agrometeorologico Regionale ALSIA, Basilicata

Nicola Sciarra
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Francesco Sensi Generale di Divisione Aerea (R)
 Massimo Sepielli Direttore di Ricerca, ENEA, Roma

Leonello Serva
 Geologo, Accademia Europa delle Scienze e delle Arti, Classe V, Scienze

Tecnologiche e Ambientali, già Direttore Servizio Geologico d'Italia

• Roberto Simonetti Geologo, R&D c/o Azienda S.I.I.

• Elio Sindoni Professore Emerito dell'Università di Milano Bicocca

• Enzo Siviero Professore di Ponti, Università di Venezia, Rettore dell'Università

e-Campus

Rinaldo Sorgenti
 Deputy Chairman of ASSOCARBONI

Ugo Spezia Ingegnere, Responsabile Sicurezza Industriale, Sogin, Movimento

Galileo 2001

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Flavio Tabanelli FisicoMaria Grazia Tenti Geologo

• Umberto Tirelli Visiting Senior Scientist, Istituto Tumori d'Aviano, Movimento Galileo

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Francesco Torre
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• Giorgio Trenta Fisico e Medico, Presidente Emerito dell'Associazione Italiana di

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 Roberto Vacca Ingegnere e Scrittore Scientifico

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• Prof. Paolo Sebastiano Valvo PhD - Associate Professor of Solid and Structural Mechanics,

University of Pisa

Corrado Venturini Professore di Geologia Strutturale, Università di Bologna

Flavio Vetrano Honorary Professor of General Physics, DiSPeA, University Carlo Bo ,

Urbino

Mario Visaggio founder of the scientific Facebook page of Klima and science (Klima e

scienza)

• Benedetto de Vivo Professore di Geochimica in Pensione dall'Università di Napoli; ora

Professore Straordinario presso Università Telematica Pegaso, Napoli

Mario Voltaggio
 MSc in Geology, former first researcher CNR IGAG, retired
 Andrea Zaccone
 Geologo, Dirigente Protezione Civile Regione Lombardia

• Franco Zavatti Ricercatore di Astronomia, Università di Bologna

Antonino Zichichi
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Presidente del Centro di Cultura Scientifica Ettore Majorana di Erice



7 SIGNATORIES FROM JAPAN

6 Signatories

• Takahiko Ban Ph. D. Chemical Engineering, Associate Professor at Osaka University

Masayuki Hyodo
 Professor of Earth Science, Kobe University, Japan

Kanzan Inoue
 MS & PhD in Physics, President & Physicist of Exponential Future LLC

Yoshihiro Muronaka Professional Engineer, studied Chemical Engineering, has been

working in the areas of Environment, Energy, CVD and EHS
 Mototaka Nakamura Atmospheric and Oceanic Scientist (ScD in Meteorology, MIT)

Dr. Hiroshi L. Tanaka Professor in Atmospheric Science, Centre for Computational Sciences,

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• Junji Yamamoto PhD, Professor of Earth and Planetary Sciences, Kyushu University



1 SIGNATORY FROM KENYA

1 Signatory

Reginald Oduor
 Associate Professor of Philosophy, University of Nairobi, Kenya



1 SIGNATORY FROM KUWAIT

1 Signatory

Mohammad A. AlKhamis
 DVM, MPVM, PhD, Assistant Professor of Epidemiology, Department
 DVM, MPVM, PhD, Assistant Professor of Epidemiology, Department

of Epidemiology and Biostatistics, Faculty of Public Health, Health

Sciences Center, Kuwait University



1 SIGNATORY FROM MALAYSIA

1 Signatory



1 SIGNATORY FROM MALTA

1 Signatory

• Joseph Attard Retired Scientist, PhD chemical engineering MSc Electronics

Communication



5 SIGNATORIES FROM MEXICO

5 Signatories

Rubén Coronal Méndez
 Master degree in Applied Economics, Industrial Engineer

Luis Frausto Chemical Engineer

• Armando Páez PhD, Urbanism, Expert in Sustainability and Energy Transitions

• prof. dr. Rumen Tsonchev PhD in Physics, Professor at Faculty of Physics, University of Zacatecas

• Victor Manuel Velasco Herrera PhD, Space Engineer



1 SIGNATORY FROM NAMIBIA

1 Signatory

• Dr. Simon Idris Beshir Cardiologist, currently involved in Green Project in Kalahari Desert



159 SIGNATORIES FROM NETHERLANDS

2 WCD Ambassadors

Prof.Dr.Ir. Guus Berkhout
 Emeritus Professor of Geophysics, Delft University of Technology,

Member of the Royal Netherlands Academy of Arts and Sciences

Dr. Kees Lepair
 Physicist, Former CEO Physics & Technology Research Organisations

157 Signatories

• Drs. Jan H. Akkerman MSc, Structural Geology, worked 19 years with Billiton in Mining and

Geology and the last 20 years with DGA van Akkerman Exploration BV

Maarten van Andel
 Author of the 'Groene Illusie'

Netherlands continued

MSc in Physics, PhD in Signal Processing, former Associate Professor · Tjeerd Andringa of Sensory Cognition, Epistemologist Mechanical Engineer who started his career with IHC. Since 1990 he is · Jan Asselbergs active in revitalizing medium sized companies · Dries Ausems MSc, Earth Sciences, Lifetime Experience as Geologist in the Geo-**Energy Industry** · René Bakers Former Lawyer and Attorney Liability and Insurance · Dr. Thomas W. Bakker Lifetime Experience in the Geo-energy Industry, Founder and former (or retired) CEO of Well Engineering Partners BV • Nanda Josina Sofia Bakker -Ait Arrami MSc. MBA Robert Becht Lifetime R&D Experience in Water Management with emphasis on water management in East Africa · Frans van den Beemt Nuclear Physicist, Former Program Director Technology Foundation Geologist dredging- and offshore industry and Royal Netherlands Navy · Jan Bernard Reserve (hydrography) · Drs. A (Toine) J. A. Beukering Bgen (b.d.), Member of the Provincial Council of Zuid Holland, Member of the Senate (Eerste Kamer) of the Dutch Parliament (the States Retired Captain B747-400 with KLM, 35 years observational · Jim van Beusekom knowledge of the Earth's atmosphere Maarten Biesheuvel MSc and PhD Chemical Technology, University of Twente, Senior Scientist Chemical Engineering and Water Technology, Wetsus • André Bijkerk Retired Officer Royal Dutch Air Force, now Climate Researcher · Dr. Frans Bijlaard Professor-Emeritus steel constructions, TU Delft • Dr. Ruud Binnekamp Msc Integral Design and Management, teacher and researcher in design and decision systems at TU Delft · Harold J. Blaauw PhD in Physics, Secretary of the former Netherlands Energy Research Council, independent consultant (retired) · Peter Bloemers Emeritus Professor of Biochemistry, Radbout University, Nijmegen Founder Speakers Academy Int. BV, Founder and CEO World of • Albert F.T. de Booij† Consciousness.com, Co-Founder with Pim Fortuyn of the political party LPF. • Hans Bouman MSc, Chemistry, Professional in Production Technology and Asset Management • Dr. Ir. Arnold Bovy retired, former Director Energy Transmission Company **MEGALIMBURG** · Ben Braam Msc in Physics, lifetime career in space instrumentation Paul M.C. Braat Emeritus Professor of Pulmonary Physics, University of Amsterdam Emeritus Professor of Product-driven Process Technology, University Solke Bruin of Eindhoven and Former Member Management Committee Unilever Research, Vlaardingen · Dr. T.H.L. Claassen Aquatic Ecologist · Prof.Dr. Paul Cliteur Professor of Legal Sciences, Member of the Senate of The Netherlands • Albert J.H.G. Cloosterman Retired Chemical Engineer, Publicist on Climate and Cosmological Matters · Charles Coleman former executive Olivetti Group International Marcel Crok Climate Researcher and Science Journalist · Gerhard Diephuis MSc, Geosciences, specialized in Geophysics, Lifetime Experience in the Geo-Energy Industry, Guest Lecturer TU Delft · Henck van Dijck Sculptor, designer and innovator · Hessel van Dijk Organic Chemist · David E. Dirkse Former Computer Engineer and Teacher Mathematics • Dr. Tjibbe Dokter MBA, Expert in Scenario Analysis and Risk Assessment, retired from AkzoNobel · Marco Draaisma ICT Process Coördinator MSc Mechenical Engineering TU Delft, Design and Construction of gas · Vincent van Driel / oil processsing plants, Retired Emeritus Professor Industrial Design Delft University of Technology, · Dr. Jan W. Drukker† University of Twente and (Visiting Professor) Tsinghua University Beijing,

Netherlands continued

Process Technologist at Tata Steel, specialist on Thermodynamics and · Arjan Duiker Fluid Mechanics · Louw Feenstra Emeritus Professor Erasmus University and Philosopher, Rotterdam · Arnold Fellendans Physics at TU Delft, 40 years at Unilever (retired), www.omdeaarde.nl · Frans Galjee Mechanical Engineer, Retired Researcher at ECN · Harold van Garderen PhD in complexity science/chemistry (TU Eindhoven) and social complexity/narrative scientist (self-employed) · Jan van Gils Teacher in Physics • Ir. Henk Goemans MSc, Geosciences, specialized in Reservoir Engineering Former Vice President Unilever Global R&D · Frans H Gortemaker • Drs. W.J. Evert van de Graaff Consulting Geologist, 50+ years Global Experience • Ton J.T. Grimberg Oil & Gas Professional, Finance Adviser · Katharina Grimm Msc Agroecology and Sustainable Food Systems, Project Leader energy transition at the municipality of Epe • Ir. Kees de Groot Former Director Upstream Research Lab. Shell · Paul de Groot PhD, Geoscience, Manager dGB Earth Sciences · Lex A. van Gunsteren Marine propulsion expert, former director of Corporate Planning and R&D of the Royal Boskalis Westminster Group, former professor of Technology at TU Delft and Erasmus University · Leo Halvers Former Director Billiton Research Arnhem and Former Director **Technology Foundation STW** · Hans Hamaker University Degree in Phonetic Sciences, expert in biomechanics of speech, supporter of plasma cosmology, former wireless communication officer · Maarten Hardon BSc, Civil Engineering, Lifetime Experience in Offshore Industry, Director Venty BV • Eduard Harinck Former Logistics Expert, Nedlloyd Group/KPMG Consulting MSc, Geoscoiences, specialized in Geology, past Technical Director of · Drs. Godard Hazeu the Dutch State Oil and Gas Company EBN · Edward Heerema Msc in Civil Engineering TU Delft, President of Allseas, worldwide active in offshore pipelaying and platform lifting • I.R. Hetzler† Retired WUR Engineer Forestry Economics • Dr. Tom van der Hoeven **Energy Transport Modeling Expert** · Jan Holtrop† Emeritus Professor of Petroleum Engineering, Delft University of Technology • J.A.R. Hombroek MSc, Geoscience, Lifetime Experience in the International Geo-Energy Industry · Tom Hoornstra Air-Conditioning Engineer · Jan Horstink Earth Scientist, Exploration Projects Oil & Gas ME & FE A. Huijser Physicist and Former CTO Royal Philips Electronics emeritus professor Geology (VU University Amsterdam, University of · Jan de Jager Utrecht) former director Sampo Industrial Insurance NV. Benelux and · Jan de Jong Electrorisk Verzekeringsmaatschappij N.V. · Jan J.C. de Jong Msc Process Engineering TU Delft, expert in energy-and thermal process engineering, lifetime career in the oil and gas industry · Wouter J. Keller Emeritus Professor of Statistical Methods, Former Member Board of Directors, Central Bureau of Statistics (CBS) · Jacques van Kerchove Economist and Marketeer, Former CFO Rabobank, now Climate and **Environment Researcher** · Henri G. Kerkdijk-Otten Msc History, University of Nijmegen, Founder and Chairman of Restoring Africa's Wildlife Foundation, Founder and former chairman of True Nature Foundation · Rob de Kok Principal Geophysicist, researching Influence of CO2 on Atmospheric Temperatures · Hans Kolmschate Chemical Engineer, University of Twente · Henk de Koning MSc, former Principal Management Consultant Atos Consulting with specialisation Logistics, IT and Information Security · Rob Kouffeld† Emeritus Professor of Energy Conversion, Delft University of Technology

Former Expert Reviewer IPCC

· Hans H.J. Labohm

Netherlands continued

Emeritus Professor of Atmospheric Chemistry and Physics, and • Prof. dr. Cornelis A. de Lange Complex Modelling, Former Senator in the Dutch Senate · Arjan Lenoir **MSc Industrial Sciences** • Dr. ir. B.G. Linsen Former Director Unilever Research Vlaardingen • Jaap M. van Luijk Msc. Petroleum Engineering, lifetime experience in the international geo-energy industry · PROF. DR. Pieter Lukkes† Emeritus Professor of Economic and Human Geography, University of Groningen · Ronald Luttikhuizen Studied Physical Geography, retired economist and statistician Hugo Matthijssen Former Teacher Meteorology, now Publicist on Climate Matters · Leo D. Minnigh retired scientist in structural geology, lecturer/speaker for nonprofessionals • Dr. Rob Mooij PhD in Nuclear Physics at University of Utrecht, MS Computer Science at Drexel University, Philadelphia, Retired as Medical Physicist from University of Pennsylvania · Ir. J.M. Mulderink Former General Director Akzo-Nobel • Rob Nijssen Radar Engineer and Publicist on Climate Matters · Rutger van den Noort PhD, advisor in Innovation Processes, CEO Newcalf · Dr. Chris Oldenhof PhD in Photochemistry, Retired from the Dutch chemical company DSM • Ir. Peter Oosterling Former Scientist E & P Shell, now active as Climate Researcher · Daan Osinga Geologist · Kees Pieters Mathematician, Former Operational Research and ICT manager at Shell · Robert J. van der Plas MSc Applied Physics, MSc Development Studies, Sustainable Energy Management and Development Specialist · Reynier Pronk Former IT Manager, Accredited Project Management Consultant and Trainer Msc Geophysics TU Delft, Geophysical Consultant, climate realist · Paul Ras • Ir. B. Peter Rauwerda Msc in nuclear engineering, TU Delft · Louis M.P.T. van den Reek PharmD, Member of 'De Groene Rekenkamer' · Jan C. Reinoud retired CEO Dutch chain of Supermarkets · A.G. Reitsma MSc in Social technology, planned change (University of Groningen 1978) Social Technician · Kees Remi Electrical Engineer, lifetime experience in Energy Distribution and **Industrial Automation** · Joseph Reynen Finite Element Modeling Expert, Retired from EU Joint Research Centre in Ispra, Emeritus Associate professor TU Delft • George T. Robillard Emeritus Professor of Biochemistry and Biophysics Jaap Romijn Msc in Civil Engineering TU Delft, lifetime experience in water management projects Kees Roos Emeritus Professor of Optimization Technology, Delft University of Technology · Albertus F. Rooze MSc in Chemistry, mathematics and natural sciences, retired Robert Sambell PhD, Physics, Professional Geophysicist • Rutger van Santen Emeritus Professor of Anorganic Chemistry and Catalysis, Former Rector Magnificus, Eindhoven University · Don Schäfer Former Director Shell Exploration & Production and New Business, Shell · Juleon Schins PhD in Molecular Physics, specialist in near infrared spectroscopy Dr. Rob Schoevaart Biocatalist, Co-founder and Managing Director of ChiralVision, being specialised in making chemical processes greener Frans Schrijver Strategy Consultant and Climate Publicist · Jan Jacob Siepman van den Berg retired teacher in physics, mathematics, astronomy and phenomenology · Bert Sigmond Geologist, Founder of EuGeNe Company in Geothermal Energy · Hendrick Smit Chemical Engineer, specialised in Environmental Instrumentation • Prof.Dr.Ir. Jos de Smit Emeritus Professor of Stochastic Operations Research and Former Rector Magnificus of the University of Twente Geologist, Former Director of Wintershall Nederland, BASF Group · Barend-Jan Smits

Netherlands continued

Jack van Soest	BSc, Geography teacher (retired)
Dr. Engel van Spronsen	PhD in Physics, Lifetime career in Shell as researcher, reservoir engineer, and technical manager. After Shell he also worked for Maersk Oil, IMPaC Engineering, and Eneco
Chris Stenger	PhD in inorganic chemistry and materials engineering. Lifetime research and development career in Billiton and Shell
Albert Stienstra†	Emeritus Professor of Computer Simulation and Micro-Electronics, Delft University of Technology.
P.J. Strijkert	Former Member Board of Directors of DSM, Delft
Dr Hans van Suijdam	Former Executive Vice President Research and Development DSM
• Dr. Harrie C. M. de Swart	Emeritus Professor of Logic and Language Analysis, University of Tilburg, Author of the book 'Philosophical and Mathematical Logic'
Dick Swart	MSC, worldwide drilling expert, lifetime of experience in the geoenergy industry
Peter van Toorn	Former Research Geophysicist Shell
Fred Udo	Emeritus Professor of Nuclear Physics, Vrije Universiteit Brussels
Ir. Arnold Uijlenhoet	retired Electrical Engineer, TU Delft, Postgraduate at University of Pittsburgh, Lifetime international experience in power generation, transmission, and distribution
• prof. dr. ir. Jan Dirk van Elsas	PhD, Em. Prof .Microbial Ecology, RUG
Maarten Vasbinder	MD, specialized in prion theories and practice
• J.F. van de Vate	Former Director ECN, Petten, The Netherlands. Former UN Delegate IPCC
• prof. dr. ir. Jan Verheij	Retired Scientist Applied Physics at TNO Delft, Emeritus Professor of Noise Control Engineering at Eindhoven University of Technology
Hans Verschuur	MSc, Geosciences, specialized in Mining
Henk Verveer	Msc Civil Engineering TU Delft, lifetime experience in maritime infrastructure and building services
• Jannes. J. Verwer	Former Director ECN and Former Chairman Supervisory Board State Owned Radio Active Waste Storage Facilities
Koen Vogel	Geologist and Geostatistician, lifetime experience in numerical modelling, proficient in evaluating and developing global energy projects
 Henk van der Vorst 	Emeritus Professor of Numerical Mathematics, University of Utrecht
Bart Vos	Msc Petroleum Engineering, Lifetime of Experience in the Geo-energy Industry
• Rob de Vos	Geographer and Editor of "Klimaatgek"
Henk de Vries	lifetime experience in organised crime, expert in digital forensics
Jaap van der Vuurst de Vries	Emeritus Professor of Petroleum Engineering, Former Dean Faculty of Applied Earth Sciences, Delft University of Technology
• Dr. Jules de Waart	PhD Physical Geography, Exploration Geologist in Africa, Past member of the Dutch Parliament, author of the book on Climate Change and Energy Transition "Don't believe everything"
Karel Wakker	Emeritus Professor of Astrodynamics & Geodynamics, Delft University of Technology
Dr. André Wakker	energy expert, lifetime experience in nuclear energy, speaker and writer on energy transition
Robert N. Walter	MSc E.E., member Advisory Board 'De Groene Rekenkamer'
Cyril Wentzel	Multi-Physics Engineer and Chairman of Environmental Think Tank 'Groene Rekenkamer'
Frans A. van der Werf	Master of Law, Owner of an International Business for Management, Consultancy and Finance
Bert Weteringe	Author, independent research journalist on energy transition and wind energy.
Dolf van Wijk	Formerly AkzoNobel Environmental Research Laboratory and Former Executive Director Cefic-Euro Chlor, Brussels
• Jaap Wijsman	Mechanical Engineer, active in the offshore industry
Theo te Winkel	Geo Scientist and International Health Care Specialist
• Jan Winkel	MSc, Chemical Engineering, specialization in Natural Gas Projects, Lifetime Experience in the Geo-Energy Industry
Wim Witteman	Professor of Applied Physics and CO2 lasers, University of Twente

Netherlands continued

Dr. Hans Wolkers
 PhD in Animal Physiology and Environment, Over 20 years of

research experience, incl. Arctic ecotoxicology, Science journalist and

university lecturer in 'Writing about Science'

• Theo Wolters Chairman Environment, Science & Policy Foundation, Co-founder

'Groene Rekenkamer' and 'Climategate.nl'

Govert Zijderveld MSc Mining Engineering, Consultant for all Drilling, Mining and Naval

Engineering activities

Dr. E.J. (Ed) Zuiderwijk
 Retired Astrophysicist and Data Manager

Diederik Zwager
 MSc Petroleum Engineering, CEO Air Drilling Associates



27 SIGNATORIES FROM NEW ZEALAND

1 WCD Ambassador

Barry Edward Brill
 OBE, Previously Minister of Science and Techology

26 Signatories

Deborah Alexander
 Agricultural Scientist

Jock Allison
 Retired Agricultural Scientist, Ministry of Agriculture

Mario Barbafiera MSc Palaeoclimatology, Teacher

Paul A. Catchpole
 Qualified Land Surveyor & Fellow of New Zealand Institute of

Surveyors, Retired Ex Commissioner of the New Zealand Environment

Court

Roger High Dewhurst
 Retired, Geologist/Hydrogeologist

Geoffrey. G. Duffy
 Professor Emeritus, University of Auckland

Terry Dunleavy†
 MBE, Co-Founder (2006) and Honorary Secretary New Zealand

Climate Science Coalition; Former WCD Ambassador

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• Joe Fone CAD Engineer, Enatel Ltd.

Professor Michael J Kelly
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Gary Kerkin
 Retired Chemical Engineer, Upper Hutt. Executive Member New

Zealand Climate Science Coalition

Roman Leslie
 Research specialist in geochemistry of arc-magmatism, magma-

wallrock interactions, mineralogy, melt inclusions, SW Pacific tectonics

and geodynamics.

Brian Leyland Power Systems Engineer and Experienced Renewable Energy

Specialist

Gerrit J. van der Lingen
 Geologist and Paleoclimatologist, New Zealand, Author of the Book

The Fable of Stable Climate

Nima Maleki
 MD specialist in family health, Bachelor in science

Dr. John Maunder
 Climate Scientist, President of the WMO Commission for Climatology

1989-1996

• Dr Richard Reaney Climate Researcher, Post Graduate Qualification in Antarctic Studies,

University of Canterbury New Zealand

Darag S. Rennie
 MBChB, Lifetime explorer of truth

John Scarry
 ME (Civil), Structural Engineer, Member of the New Zealand Climate

Science Coalition

• John Sexton Member of the New Zealand Climate Coalition

David Shelley Emeritus Associate Professor Geology and latterly Dean of

Postgraduate Studies, University of Canterbury, Christchurch

David Steward Electronic Engineer, Supporter of truth seeking in climate change
 Philip Strong Science Research Leader & Member of the New Zealand Climate

Coalition

• Hugh Thorpe PhD, Retired Civil Engineer-Scientist.

Richard Treadgold
 Executive Member NZ Climate Scienc Coalition, Convenor Climate

Conversation Group

• Ian Wright Professional Geologist

32 SIGNATORIES FROM NORWAY 2 WCD Ambassadors · Ivar Giaever Nobel Laureate Professor, Nobel Prize Winner in Physics, Emeritus Professor of the Rensselaer Polytechnic Institute, Chief Technology Officer of Applied Biophysics Inc., Fellow of the American Physical Society · Jan-Erik Solheim Professor Emeritus Astrophysics, University of Tromsø - The Arctic University of Norway 30 Signatories • Gunnar Abrahamsen Professor Emeritus Soil Science, University of Life Sciences Knut Åm Retired Geoscientist, adjunct Professor of Geophysics at the University of Bergen, Norway, Honorary member of The Norwegian Academy of Technological Sciences · Egil Bergsager MSc of UCLA and University of Oslo, Petroleum Geologist, Direc-tor Norwegian Petroleum Directorate, President Rogaland Science Park. Board member of advanced technology companies • Stein Sorlie Bergsmark Phycisist, Former Head of Renewable Energy Studies Program-mes, University of Agder • Einar R. Bordewich multidiscipline Engineering • Dr. Hans Borge Associate Professor in Mathematics, University of Stavanger · Reidar Borgstrøm Professor Emeritus in Fishbiology and Nature Conservation, University of Life Sciences • Dr. Erik Bye Retired Senior Scientist in Physical Chemistry, Crystallography, Chemometrics and Occupational Hygiene • Ole Henrik Ellestad Physical Chemist. Former Research Director and Professor in Petrochemistry at the Centre for Industrial Research and University of · Jon Gulbrandsen PhD, Biologist, Associate Professor NOFIMA and NOAA (USA) • Arve Gleissner Gustavsen Msc in Cybernetics, Lifelong Experience in Design and Engineering · Rögnvaldur Hannesson Professor Emeritus, Norwegian School of Economics · Geir Hasnes Adjunct Associate Professor, Department of Engineering Cyber-netics, Norwegian University of Science and Technology • Martin Torvald Hovland Geophysical and Geological Advisor, Former Lecturer at University of Tromsø Ole Humlum Professor Emeritus in Physical Geography, University of Oslo · Morten Jødal† Biologist, Former Employee of the Norwegian Research Council and the Centre for the Development and Environment at the University of Oslo. Passed away · Dr. Ing. Hans Konrad Johnsen • Olav Martin Kvalheim Emeritus Professor, Chemistry, Bergen University · Arnfinn Langeland Professor Emeritus Biology, Norwegian University of Science and Technology · Mikael Lindgren MS Applied Phyics and electronics, PhD Chemical Physics, Prof Applied Physics (Optics) and Biophysics (spectroscopy) · Willy Nerdal Professor of Chemistry, University of Bergen · Johannes Oraug Landscape Architect, Researcher for 11 years at the Norwegian Institute for Urban and Regional Research

• Egil Pedersen Dr. Eng. and Professor of Technology at UiT The Arctic University of

Norway

· Elen Roaldset Emertitus Professor in Geology, University of Oslo, Former Direc-tor

of Natural History Museum Oslo, Professor at Norwegian University of

Science and Technology

• Ulf Torgny Rock Master of Chemical Engineering, Norsk Hydro

· Gjertrud Røyland Meteorologist with experience in operational forcasting (1997-2007)

from the Norwegian Meteorological Institute.

· Håkon Gunnar Rueslåtten Geological Researcher, Trondhheim

· Tom V. Segalstad Associate Professor Emeritus of Geochemistry, University of Oslo • Einar Sletten PhD, Professor in the Dept of Chemistry, University of Bergen

· Jørgen Stenersen

Professor Emeritus Eco-Toxicology, University of Oslo



1 SIGNATORY FROM PARAGUAY

1 Signatory

Albrecht Glatzle Retired Director Research of INTTAS (Iniciativa para la Inverstigación
y Transferencia de Tecnología Agraria Sostenible)



2 SIGNATORIES FROM PHILIPPINES

2 Signatories

Melanchthon Bernil Professional Chemical Engineer

Herman Bognot MA in Philosophy, Assistant Professor, Department of European

Languages, University of the Philippines Diliman



5 SIGNATORIES FROM POLAND

5 Signatories

• Marek Boinski Chairman of the National Section of Energy Workers' Union NSZZ

 Zbigniew Gidzinski Advisor to the Chairman of the Silesian Region of the Solidarity Union for climate policy, former Secretary of the National Energy Security

Team of the Chancellery of the President

Jaroslaw Grzesik
 Chairman of the National Secretariat of Mine and Energy Workers'

Union NSZZ

Dominik Kolorz
 Chairman of the Slasko-Dabrowski Region of NSZZ

Karol Pietrak
 Assistant Professor at Warsaw University of Technology, PhD in Power

Engineering



11 SIGNATORIES FROM PORTUGAL

1 WCD Ambassador

• Dr. Peter Stallinga Professor Associado com Agregação, Universidade do Algarve,

Portugal, Faculty of Sciences and Technology, Department of

Electronic Engineering and Informatics

10 Signatories

Demétrio Carlos Alves
 Chemical Engineer, specialized in Processes and Systems,

Postgraduate in Legal Issues of Urban Planning, University of Lisbon

José Araújo Environmental Engineer, Airline Pilot.

Rui Cruz
 Pharmaceutical Development Scientist, PhD In Chemical and

Biological Engineering (Material Science Focus for Solar Energy

Applications)

Pieter IJzerman entrepreneur in modern energy solutions and electric mobility

Prof. Dr. Igor Khmelinskii
 Aggregate Professor of Physical Chemistry, University of Algarve,

discoverer of long-range energy transfer in biological systems

• Joao Manuel Silva Martins retired agrarian researcher

Pamela Matlack-Klein
 Member of Portuguese Sea Level Project, USA

• José Pinto de Sá PhD in Electrical and Computers Engineering, Professor of Power

Systems (Electrical and Computers Engineering), Instituto Superior

Técnico, Lisbon

Henrique Sousa
 Retired electrical engineer and teacher, wind energy expert and

energy consultant

João José Rodrigues Tilly
 Mechanical Engineer and Maths teacher



8 SIGNATORIES FROM RUSSIA

8 Signatories

Habibullo Abdussamatov
 Head of the Space Research Sector of the Sun, Pulkova Observatory

RAS and Head of the Lunar Observatory Project on Monitoring of the

Climate

• Prof. Vladimir N. Bashkin Professor in Biogeochemistry, Principal Researcher of the Institute

of Physicochemical and Biological problems of Soil Science of RAS,

Moscow

Russia continued

Pavel Bizyukov
 PhD in Metallurgical Engineering, faculty member at Moscow State

Institute of Steel and Alloys

Gleb I. Evgenev
 Professor of Environment, Moscow State Technical University (MADI)

Vladimir G. Kossobokov
 Eugene Nagibin
 Chief Scientist, Professor Expert, Russian Academy of Sciences
 MA in Economics, CIR, Territorial Development and Management

Consultant

Henni Ouerdane PhD in Physics, Associate Professor with extensive experience in the

physics of energy conversion and the related technologies

• Dr. Michael Petelin Professor of the University of Nizhny Novgorod, head researcher of the

Institute of Applied Physics, Nizhny Novgorod



1 SIGNATORY FROM SAUDI ARABIA

1 Signatory

Christopher M. Fellows
 Phd, physical chemist



1 SIGNATORY FROM SERBIA

1 Signatory

• Ivan Stefanovic Curator of collection, Faculty of Mining and Geology, University of

Belgrade



2 SIGNATORIES FROM SINGAPORE

2 Signatories

Andrew Frazer offshore drilling, earth sciences and renewables
 Dr. Lars Schernikau Energy Economist, Entrepreneur & Author



1 SIGNATORY FROM SLOVAKIA

1 Signatory

Boris Divinsky
 MSc, freelance researcher in geography, demography, and migration

issues



4 SIGNATORIES FROM SLOVENIA

4 Signatories

missinterpretations of scientific discoveries

Tadej Ian
 MA, owner of a green-roof business, political publicist/columnist, and

expert in international relations

• Ján Lakota MD, PhD molecular biology

Rafael Mihalič
 Professor of Electrical Engineering, University of Ljubljana



13 SIGNATORIES FROM SOUTH AFRICA

13 Signatories

• Dr. Henrique J.S. de Barros Pinheiro Geologist, Invited Associate Professor, Universidade Fernando Pessoa,

Porto, Portugal

• Rosemary Falcon Emeritus Professor Clean Coal Technology Research Group at the

University of Witwatersrand, Director Fossil Fuel Foundation

• Dennis Shaun Garisch BSc (Civil) Eng, Professional Engineer registered with Engineering

Council of South Africa (ECSA), over 30 years of practice, inclusive of

many storm water management designs

• Dr. Hans Hofmann-Reinecke nuclear physicist, author of several books "Grün und Dumm", articles

an videos on global warming and alternative energies for the general

public

Consultant, leading expert in energy and electricity

Kelvin Kemm
 PhD, Nuclear Physicist, CEO Nuclear Africa, Pretoria

South Africa continued

• Dr. John Ledger Visiting Associate Professor at the University of the Witwatersrand,

Energy and Environmental Consultant, Consulting Editor, Freelance

Writer, Editor and Lecturer

Prof. Richard Meissner
 Associate Professor, Department of Political Sciences, University of

South Africa

Don Mingay
 Retired Professor of Nuclear Physics

Professor Martin R. Sharpe
 PhD from University of Exeter, retired Geologist, Geochemist, Analyst

and Field Mapper at University of Pretoria, Founder of geological

consulting and exploration companies

Grant Son PhD in Natural Science
 Jacques Theron Retired Veterinarian

Geert F de Vries
 Retired physicist / nuclear engineer



2 SIGNATORIES FROM SOUTH KOREA

1 WCD Ambassador

Dr. Seok Soon Park
 Professor of Environmental Science and Engineering, Ewha Womans

University, Seoul, Founder of the Climate Truth Forum

1 Signatory

Zonghie Han
 economist at Daegu University



22 SIGNATORIES FROM SPAIN

1 WCD Ambassador

Blanca Parga Landa PhD, Modelling Expert, specialist in Environmental Law

21 Signatories

Bernardo Armero Engineer and Project Leader within Clean Aviation

Raquel Barquero PhD, lifetime career as nuclear engineer and medical physicist in

Valladolid University Clinical Hospital

• Dr. Saúl Blanco Associate Professor of Ecology at the University of León

• Ferran Brunet Professor on the European Economy, Unniversitat Autònoma de

Barcelona

Antonio de la Hoz BSc in in Business and International Economics, activist and expert in

economics and political implications of causes and consequences of

climate change

Aitor Ercilla climate historian and computer scientist. Researches the importance

of climate change in social processes

• Maria Teresa Estevan Bolea Engineering award 2019 Royal Spanish Academy of Engineering,

World Award 2018 In Engineering WFEO, National Prize in Industrial

Engineering 2019

• José-Ramón Ferrandis Analyst, Writer, Communicator

• Juan Miguel Gómez Menor Robles PhD in Biology (Botany), High School Head of Department.

Antonio J. Huertas Engineer with 35 years experience in Energy Politics and Operation,

and Environmental Care

• Isabel López García PhD on Chemical Engineering, Assistant Professor of Physical

Chemistry and applied Thermodynamics, University of Córdoba

Alexander Keith Martin
 PhD Geology and Geophysics, Consultant geologist

• Jose Manuel Miranda Lopez PhD, Professor at the University Santiago de Compostela , Department

of Analytical Chemistry, Nutrition and Bromatology

• Antonio Jesús Muñoz Cobo PhD in Environmental Sciences from the University of Jaén, member

of the research group Environmental Technologies of the Dept of

Chemical, Environmental and Materials Engineering

• Luis Pomar Emeritus Professor of the University of the Balearic Islands,

Sedimentologist specialized in the study of Carbonate Rocks which the

Impact of CO2 and Paleoclimate

Alejandro Rodríguez-Gómez
 Associate Professor, Universitat Politècnica de Catalunya, Barcelona,

Spain

• Manuel Jesús Romero Rincón PhD Civil Engineering, Professor at Miguel Hernández University of

Elche, Spain CEO at ETRES Consultores

Spain continued

• Manuel M. Sánchez del Pino PhD, Department of Biochemistry and Molecular Biology, University of

Valencia

Javier del Valle Melendo Doctor in Climatology, Professor a Centro Universitario de la Defensa

Javier Vinós
 PhD, Scientist and independent climate researcher

Wynn Williamson co-founder and managing partner of real estate developer BWRE



48 SIGNATORIES FROM SWEDEN

1 WCD Ambassador

Ingemar Nordin Emeritus Professor Philosophy of Science, Linköping University

47 Signatories

Michael Andersson
 Bsc in biology, medical doctor, retired Chief Medical Officer at a

battalion of the Swedish Airforce

Leif Åsbrink
 PhD, Technology at KTH in Molecular Physics, Stockholm

Sture Åström
 MSc, Technology, Professional in Climate Issues, Secretary of the

Swedish Network Klimatsans

• Erik Axelkrans MSc in physics and physical oceanography, University of Gothenburg

Rolf Bergman
 Emeritus Professor of Physical Chemistry, Uppsala University

• Dr. Lars Bern Member of The Royal Swedish Academy of Sciences, Retired CEO in

Incentive AB

Joakim Blomqvist
 Sr. Design Manager for design and energy solutions within a larger

construction company

Magnus Cederlöf Software Specialist, Stockholm

Tore Dalväg
 Msc, Physics, Research Engineer in Hydrodynamics and

Thermodynamics, Senior Advisor in Environmental Standards, Author

of 'CO2 a source of life or a threat'

Hans Eklund PhD, Technology, Acting Professor at the Department of Laser-and

Electro-optics, Chalmers University of Technology, Gothenburg

Per-Olof Eriksson Physicist, Former CEO of Sandvik Group
 Dr. Anders Flodin PhD, Mechanical Engineering, NC, USA

• Mats Freding MSc Mechatronics Test team leader, environmental and software test.

David D. Gee Professor Emeritus Orogen Dynamics, Uppsala University
 Anders Grufman MSE, MA, Economics, Industrial and Environmental Economics

• Jan Hagberg PhD, Statistics, Stockholm

Björn Hammarskjöld MD, PhD in Biochemistry, Assistant Professor in Pediatrics

Lars Hässler
 PhD, Rock and Soil Mechanics, Bsc Chemistry and Biology, Msc Civil

Engineering

• Eilif Hensvold PhD, Mathematics, Associate Professor of Mathematics (Retired),

Simulation of Large-scale Industrial Systems, Uppsala University,

Luleå Technical University

Gunnar Holmgren PhD, Space Physics, Retired Head of Dept. of Engineering Sciences,

Uppsala University

Mats Janson
 MSc, Electrical Engineering, KTH Royal Institute of Technology,

Stockholm

Hans Jelbring Climate Researcher

Göran Johansson specialist in Energy Systems

Claes Johnson
 Emeritus Professor of Mathematics at Royal Institute of Technology,

Stockholm

Gunnar Juliusson Professor of Hematology, Lund University, Senior Consultant, Skåne,

University Hospital, Lund

Johnny Kronvall Mah
 Emeritus Professor in Building Physics, Malmö University and Lund

University

Lars E. Linder
 Associate Professor of Medicine, Gothenburg

• Jan Lindström Senior Medical Physicist, PhD, Former Head of Department of Medical

Physics Karolinska, Worked and published in Environmental Science

(Harwell UK). Long climate interest.

Rune Lundgren
 MSc, Helsinki University of Technology, Energy System Expert

• Toomas Mathiesen MD, Retired

Sweden continued

• Johan Montelius Associate Professor of Computer Science at the Royal Institute of

Technology, Stockholm

Jacob Nordangård PhD, Technology and Social Change at the University of Linköping,

Researcher on Climate Change History

Gabriel Oxenstierna
 PhD, retired, currently author for Klimatupplysningen.se
 Gösta Pettersson
 Emeritus Professor in Biochemistry, University of Lund

Marian Radetzki Emeritus Professor of Economics, Luleå University of Technology

Mats Rosengren Mathematics, Space Flight Trajectory Specialist

Torsten Sandström Professor Emeritus, Department of Law, University of Lund
 Rabbe Sjöberg PhD, Geology, Member of Paleogeophysics & Geodynamics Institute

Peter Stilbs
 Emeritus Professor of Physical Chemistry, Royal Institute of

Technology (KTH), Stockholm

Prof. Jan-Olov Strömberg
 Emeritus Professor of Mathematics at Royal Institute of Technology,

Stockholm

• Lars H. Thylen Professor Emeritus in Photonics, Dept. of Theoretical Chemistry and

Biology, Royal Institute of Technology, Stockholm, specializing in Low

Power Nanophotonics Technology

Tege Tornvall
 Member of Klimatrealisterna and of its election committee, active in

network Klimatsans

Gösta Walin
 Proffessor Emeritus in Oceanography at Univerity of Gothenburg

Elsa Widding Consultant, Author on Climate Change, Stockholm

Lech Wosinski Researcher Emeritus, Associate Professor, Royal Institute of

Technology, Stockholm

Orjan Wrange PhD, Emeritus Professor in molecular Genetics Karolinska Institutet,

Stockholm, Sweden



23 SIGNATORIES FROM SWITZERLAND

23 Signatories

Dr. Denis Bednyagin researcher specialised in integrated (Energy-Economy-Environment)

assessment modelling

Thomas Binder Cardiologist and Internist

Majed Chergui Emeritus Professor of Chemistry and Physics

Helmut Elben PhD in Physics, working as Strategy, Technology and IT Consultant
 Dr. Michael Esfeld full professor of philosophy of science, University of Lausanne

Ferruccio Ferroni Dipl.Ing. ETH, Energy Consultant

René Funk
 Software Engineer, specialized in Analysing Satellite, Sea and Land

Temperature

• Werner Furrer MSc, Mathematics and Physics, President of the Climate Realistic

Group in Switzerland

Christian Jacot Pharmacist

• Fabrizio Jauch PhD Earth Sciences, Expert for the Swiss Accreditation Service for

geotechnical laboratory analysis

Markus D. Knecht chemist, 15 years reserach on climate change

• Dr. Johannis Nöggerath 40 years experience in Nuclear Power Engineering, Passionate

a mateur researcher in realistic climate science for more than $10\ \mbox{years}$

Joseph Ongena
 Member of the Permanent Monitoring Panel for World Energy, World

Federation of Scientists, Geneva

Dr. Jean-Claude Pont
 Dr. Math., Emeritus Professor of The History of Philosophy of Sciences,

University of Genève

• Dr. Franz-Karl Reinhart Emeritus Professor of Physics, Lausanne

Claude Roessiger Entrepreneur and Author of several Books on Organizational

 $\label{thm:constraint} \mbox{Management and Public Policy, Organiser and Chairman of the} \\$

Portsmouth Conference 2018 on Climate Policies

Beat Dominic Roth
 Owner Filmcompany

• Heinz Schmid Dipl. Ing. Agr ETH, more than 10 years involement in climate science

and climate communication

Dr. Ralf Lorenz Schmitt
 PhD in Chemistry, Product Manager

Thomas Stadler
 MSc in Physics, ETH Zürich, Geophysics, Specialty in Geothermics

• Ivan Surace PhD in Geology, Geol Surace I.R.

Switzerland continued

Prof. Dr. Eric P. Verrecchia
 Professor at the University of Lausanne, Chair of Biogeochemistry at

the Institute of Earth Surface Dynamics, expert in terrestrial carbon

cycle of the tropical and temperate zones

Dr. Eric Vieira (retired), Ph.D (organic chemistry), 27 years at Roche Pharmaceuticals

(Principal Scientist)



3 SIGNATORIES FROM TURKEY

3 Signatories

Prof. Kerem Cankocak
 Professor in Particle Physics at Istanbul Technical University, author of

more than 200 books in different scientific areas

Ufuk Coscun columnist at Milat Newspaper

• Andrew Cullen Ph.D Geography



2 SIGNATORIES FROM UKRAINE

2 Signatories

Vsevolod Lozitsky
 DrSci, Astronomical Observatory of Taras Shevchenko National

University of Kyiv, expert in solar physics, solar activity and magnetic

field, and solar-terrestrial connections

National Academy of Science of Ukraine, research interests include

solar physics



165 SIGNATORIES FROM UNITED KINGDOM

1 WCD Ambassador

• Christopher The Viscount Monckton of Brenchley

Peer of the Realm and Author of several reviewed papers on Climate

164 Signatories

Tom Agbabi PhD, Professional engineer in the energy industry

Colin Andress
 BSc Physics, MSc Astrophysics, MA (Oxon) Classics & Philosophy,

Barrister, Fellow of the Royal Astronomical Society

Neils C. Arveschoug Geophysicist, Private start-up Oil E&P Company

Nigel Banks
 PhD Geology, Petroleum Geologist

Andrew P. Barker Biological Chemist

John Anthony Barney
 Retired Scientist and Technologist

Nik Bartley
 Mechanical Engineer

Nigel Beckwith professional graduate Podiatrist, Post Grad. in Sports Science, Post

Grad. in Science Education

• Alan Richard Belk retired Mechanical Engineer with a 40+ year international career in

energy, industrial gas and chemical industries

Simon Bevan
 BSc Oceanography and Geology, WMO Qualified Meteorological

Forecaster

Roshan Bhunnoo Mathematics and Statistics, former Climate Data Analyst at the

Meteorological Office

• Paul Binns Former Research Geoscientist and Climate Researcher

David Blake
 BSc Applied Chemistry, Chair of East College Group & CME Futures

Trader

• David Bodecott Geologist/Geophysicist, Fellow of the Geological Society of London

Dr. Richard Booth retired Special Merit mathematician in the UK Civil Service

• D.Q. Bowen Emeritus Professor of Earth and Ocean Sciences, Fellow International

Union for Quaternary Research, Cardiff University

Dr Phillip A. W. Bratby
 Physicist, Member of the Institute of Nuclear Engineers, retired energy

consultant

Michael Brown
 Paul Burgess
 Expert in Large Scale Thermal Fluid Dynamic Models
 BSc, MSc, C. Eng (retired) Hydro Climate Specialist

Derrick Byford
 BSc (Hons) holder of 10 patents, previously Deputy Director Research

& Statistics Inner London Education Authority

Gerry Byron
 BSc in Physics, MBA which included modules on statistical anylysis

United Kingdom continued

Solicitor, co founder and fund raiser for wave energy research project · Peter Cale as Director of Staithe Energy Products (1988 1995) BSc Hons. Physics and Geology, Lifetime Physics teacher and amateur · George Carey Brian R. Catt Electrical Engineer, Retired, publishing papers on Energy and Climate Change · Richard Ceen BSc Physical Oceanography with Physics, entrepreneur / engineer in Marine LNG Safety and Weather forecast dependent Optimising Voyage Control Systems • Arthur Champion retired European Environmental Coordinator and CofE Diocesan Environmental Adviser · John Church Earth Science Professional, Retired from Energy Sector David Coe MA(Oxon) in Physics, lifetime working on gaseous absorption spectroscopy, Lead author of "The Impact of CO2, H2O and Other Greenhouse Gases on Equilibrium Earth Temperatures" • Professor John C.W. Cope Professor of Geology, National Museum Wales, Cardiff • Dr. Douglas Cormack BSc in Chemistry, Maths, Physics and Microbiologyy, PhD in Physical Chemistry, Chief at Scientific Civil Service, Founder of the website "The campaign against belief consensus" · Richard Courtney Retired Material Scientist, Expert Peer Reviewer of the IPCC · Chas Cowie GDE Mining Engineering, Wits University, Retired IT Professional worked primarily in Mining and Logistics Industries · Dr. David Critchley Senior Clinical Pharmacologist, mathematical modelling of complex systems • Michael Cross Chemical Engineer • Peter Cunningham Expert in Mathematical Modelling of Complex Physical Phenoma • Dr Philip George Davies Principal Lecturer in the Department of Computing and Informatics at **Bournemouth University** · Robert Davies BSc Airline pilot · Isabel Davies Geophysicist and Entrepreneur · Jeremy Dawson retired Chartered Engineer with a career in the oil and gas industries · Dr. Keith P. Dawson Environmental and Agricultural Researcher · John Dewey Emeritus Professor of Geology at the University College Oxford, Distinguished Emeritus Professor University of California, · Howard Dewhirst FGS, Geologist, Initiator Open Letter to the Geological Society of London · James Dillon BSc Physics, DPhil Nuclear Physics, Former research physicist · Gregor Dixon FGS, Geologist, Former Member Geological Society of London · Peter Dorey BSc Physics, Senior Project Manager, (and unpaid educator & Climate Scientist) • Timothy (Tim) C. Duckworth Retired Mechanical Engineer in the Oil & Gas industry, Senior Auditor in Management/Facility/HSE · Dr. Michael Earle international earth scientist, energy professional, author Retired Senior Lecturer in Biochemistry University of Liverpool, · Dr. John S. Easterby Research area: Protein chemistry, Enzymology, Metabolic Modelling Roderick Paul Eaton MBA FIET MCMI, Retired Consultant Energy Industry Analyst/ Management Consultant · Debra Eddy Entrepreneur and Guest Lecturer in Business Management · Dr. Andrew Edmonds data scientist with a strong background in AI, past CTO of a publicly traded US tech company, currently CEO of a private US company, ThinkBase LLC · Peter Etherington-Smith Geologist/Oceanographer, Coral Reef Researcher, MSc Petroleum Engineering (Imperial), life-time international experience in developing countries, retired from BG MSc, DIC, Dip. Met, AusIMM, IOM3, SME, Ch.Eng., President Tianshan · Kevin Foo Jade (UK) Ltd · Ashley Francis BSc, FRAS, Geophysicist with expertise in forward and inverse modelling, stochastic modelling and resolution/scale change impacts · Sean Galbally Project Manager Water and Wastewater Systems Kalghatgi Gauram PhD Aeronautical Engineering, Consultant Professor, 50 Years' experience in R&D in combustion, fuels and energy

United Kingdom continued

• Gil Gilchrist Geophysicist • Alan Gill Retired Engineer in South Wales · Peter Gill Physicist, Ex Chair Institute of Physics Energy Group, Ex London Branch Chair & Fellow of EI · Paul R. Goddard retired Professor of Radiology, University of the West of England • John D. Goss-Custard PhD Ecology, University of Aberdeen, Visiting Professor in the Department of Life and Environmental Sciences, Bournemouth University · Alastair Gray retired geologist, 50 years in oil exploration, production and asset evaluation · Delphine Gray-Fisk Former airline pilot, and parliamentary candidate for both the UK Independence Party and Brexit Party Research and Development of Flight Control Systems for Modern Civil · Mick Greenway and Military Aircraft, Retired Head of Research and Development within a Multi-Million-Dollar Company · David P. Gregg retired Unilever Research group leader and scientist, Author of studies of historical climate time series based on modern spectral analysis techniques · Brian Gregory MA. in Natural Sciences, MSc. in Business Studies, Lifetime Career in the UK Chemical Industry, currently Policy Director of the Alliance of **British Drivers** · Jimmy Haigh Independent Geological Consultant Retired Electronics Engineer, 10 years experience in the design of · Stephen Hardcastle NDIR gas detectors, for gases including CFC's CO2, CH4 and N2O · David Hardy Business Owner, Director and Experienced Chemical Engineer. 20+ years in Energy technology development including removal of pollution from conventional fossil fuel power sources Geomechanics Consultant and Researcher, previous Recipient of the · Tim Harper Royal Academy of Engineering MacRobert Award for Engineering Innovation Ken Harrison Retired Chartered Physicist · John Harrison Former Chartered Physicist and Chartered Engineer · Peter Harvey Project Manager - Renewable offshore wind industry · Raymond Hayes BA (Lond) M.Litt (Oxon) FRGS Solicitor Hong Kong and England and Wales · Alex Henney Formerly London Electricity Board, Consultant on Electricity Matters · Roger Higgs DPhil (Oxon), Independent Geological Consultant, Geoclastica Ltd. · Tatiane Melchior Stefanello Hodson Oceanographer, author, undertaking a Master's degree in International Public Policy at Queen Mary University of London · Dr. Sinclair Holland MBChB(Edin) Medical Doctor · Paul Homewood Climate & Energy Policy Analyst · Keith H. James PhD, Consultant Geologist • James Barry Jamieson Retired Aeronautical Engineer, Co-author IPCC report 1999 · Anthony Janio PhD in Physics, Independent Elected Councillor in Brighton and Hove Geologist, Director Hurricane Energy plc · David A.L. Jenkins Emeritus Professor University of Amsterdam, Director Techne · Dr. Chris Jesshope Consulting Ltd. · David Jessop C.Eng., M.I.C.E., lifetime career in the water industry • Stephen Latimer Jones BA Chemistry, IT professional · Robert Jones BSc and PhD Mining Engineering, Director at Warwick Energy Consultant in environment, environmental law and sustainability, · Zana Juppenlatz including renewable energy projects · Gavin Kenny Emeritus Professor of Anaesthesia, Intensive Care and Pain Medicine University of Glasgow · John L.D. Kerr B.A. (Hons) in Environmental Science & Technology; B.Sc. (Hons) in Chemistry, active as Environmental Consultant Experienced technically trained chenical engineer with experience Stephen King in environmental consideration of major petrochemical projects, including technical and economic aspects MSc MIET,Professional engineer working in IT, Deputy Chairman of David A. Kirkwood Reform UK Scotland

United Kingdom continued · Geoffrey W. Lane retired Marine Engineer and Technical Author · Eur.Ing Colin Leci CO2 and Environmental Specialist · Roger Longstaff Experimental Space Physicist and Company Director · Anthony Lowe BSc Hons Polymer Chemistry and Physics, Consultant Polymer Solutions · Peter Justin Lunt MSc Geology London, adjunct lecturer in geology (stratigraphy) at Universiti Teknologi Petronas and Shandong University of Science and Technology (SDUST) Qiangdao · Tom Mackay BSc, Geologist, Fellow of the Geological Society (FGS) of London · Chris MacKenzie MSc, Director and Geological & Environmental Consultant at Peak Minerals Ltd · Ian Magness Geologist turned treasurer, Since retirement actively involved in the analysis of all aspects of climate change from a sceptical viewpoint • Stephen Martin retired exploration geophysicist Geologist and Geochemist, particularly involved in studies about past • Chris Matchette-Downes climates including glaciation M.Sc. from Imperial College and an M.B.A. from Lehigh University, · William James McAuley retired Chemical Engineer with a 40+ year international career in energy, industrial gas and chemical industries • Dr. Niall McCrae PhD in Mental Health · Angela McKay retd Mechanical Engineer in Turbine Generator Industry. Retd Head of Physics St Mary's 6th Form College, Lancashire • Dr. Euan Mearns retired, freelance consultant, researcher, blogger and author · Krov Menuhin Expert on ocean life, underwater filmmaker, professional diver, pilot and writer, explored the Earth's extremities, experiencing the oceans and the atmosphere first-hand · Geoffrey Middleton Chartered Architect, Socal Science · Terence Mordaunt Accomplished businessman, Self taught climate scientist mentored by Professor David Bellamy • Dr. William Morgan Retired Clinician • Dr. Ian Mortimore BSc, Phd, MB, BS, FRCP, retired Consultant Respiratory Physician in the NHS with research affiliations to Edinburgh and Newcastle Universities · Philip Mulholland Geoscientist, Life time experience in the Geo-Energy Industry, coauthor of the DAET climate model • Stuart Munro **Exploration Geologist and Geophysicist** · Edward Nealon Geologist, Member of the Australian Institute of Mining & Metallurgy · Alex Nichols BSc Geography, MSc Environmental Assessment, 27 years in sustainability consultancy, programmes and projects Electronic Engineer, working in Computer Networking and Optical · Blair Nimmo Surface Metrology and Fibre Optics · Michael John Oates Geologist, Lifetime Experience in the Geo-Energy Industry, Fellow of the Geological Society of London · Gerard O'Donovan Entrepreneur, Business Owner, career in building international and multinational organisations · Andrew O'Rourke journalist climate change FGS, Fellow of the Geological Society of London Peter Owen • Jonathan R. Partington Emeritus Professor of Mathematics, University of Leeds · Dennis Paterson Retired Geologist · Dr. James Petch Physical Geographer, formerly Reader in Environmental Science at MMU and Head of Distributed Learning at the University of • Peter Phillips BSc Hons Mechanical Engineering, lifetime experience in the geoenergy industry · Graeme Phipps geologist and geophysicist, Jersey Channel Islands · Dr. James Pindell Geologist, specialised in plate tectonics and palaeographic evolution,

Research Scientist, Ulster University, lifetime career in microbiology,

Director of Tectonic Analysis Ltd (UK), Adjunct Professor at Rice

biochemistry and environmentalism

Clive Randle Geologist, Fellow of the Geological Society of London

University (USA)

United Kingdom continued

• Jonathan Charles Read Honours degree in Physics from the University of Durham, member of

the Institute of Physics (MInstP), Fellow of the Chartered Association

of Certified Accountants (FCCA)

• Dr. Colin Richard Reeves Emeritus Professor of Operational Research, Expert in Mathematical

Modelling

Ceri Reid PhD Electrical and Electronic Engineering, Sonar Specialist

Chris Rice BEng(Hons) Engineering & Environmental Science

Steven Andrew Richards
 MSc, Retired Chartered Engineer, Retired Lecturer from Portsmouth

University and Southampton Solent University

Michael F. Ridd
 Geologist, Fellow of the Geological Society of London

Philip Risby
 BSc Engineering, Retired environmental consultant, patent holder

Anthony Robb PhD, Retired Chemist
 Salmaan Saleem Family Medicine Doctor

• Dr. José Sánchez-Morales Doctor in Geology, analysing paleoclimate cycles and software expert

Richard Saumarez
 Biomedical Engineer from Imperial College

Charles Savage
 BA, BSc, MA (Oxon.) in Chemistry, CEO of CP Pharmaceuticals

(Retired)

Robert M. Schneider
 MSCE, retired Civil Engineer

Michael Seymour Geologist, Fellow of the Geological Society of London

Stephen Silverstein BSc Graduate of Queen Mary University, London, in chemistry with

geology

Mike Sluman Retired teacher with an honours Degree in Environmental Biology

Dr. Ian Smith
 MSc Maritime Archaeology, PhD Chemistry

Leslie Thomson Retired Vice President Operations, BP Exploration, Aberdeen
 Edwin Thwaites Retired Principal Lecturer in Organisational Analysis and Crisis

Management, University of Central Lancashire, Predton

Derek Tipp
 BSc honours degree in chemistry, former research chemist and retired

science teacher, currently councillor on New Forest District Council

David Todd
 retired Associate Member of the Institute of Bankers, Post Graduate

Certificate in Business and Management

Paolo Emilio Trevisanutto
 PhD in Physics, Senior Computational Scientist

Mark Tucker
 BSc of Science Geophysics, Serial Entrepreneur and Scientific Advisor

to APPG for Industrial Hemp

Neil Upton
 Retired GP UK

prof. Anton van der Merwe
 MD, PhD, Professor in Molecular Immunology

Matthew David Waggener
 Financial professional, strategic consultant on business investments
 Dr. Glenn K. Wakley
 Emeritus Associate Professor Biological Science, Fellow of the Royal

Society of Biology and member of The Anatomical Society

Professor David Wastell Emeritus Professor of Information Systems at the University of

Nottingham

Paul White
 B.Sc. Physics, Durham University, Retired, Former Higher Scientific

Officer Marine Climatology

Philip Linden Wilkes Life time Experience in Marine Biology

Jay Willis Marine Scientist, Associate of the OxNav Group of Oxford University.
 Matt Wood BSc in Metallurgy & Materials Science, Retired Airline Pilot, Patent

holder

Alison Wright BSc MSc. Systems Engineer, Energy Policy, Sustainable Development

policy.

Valentina Zharkova Professor of Mathematics and Astrophysics, Northumbria University,

Newcastle upon Tyne

NLP LP



444 SIGNATORIES FROM UNITED STATES OF AMERICA

2 WCD Ambassadors

• Dr. John F. Clauser Nobel Laureate Physicist

Richard Lindzen Emeritus Professor Atmospheres, Oceans and Climate, MIT, USA

442 Signatorie	s	
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• Hans-Peter Bähr

· Scott Beattie

Edward Abbott
 MD, Retired obstetrician, BSc in math and chemistry

Paul Berrick Abramson
 PhD. in Theoretical (Solid State) Physics, Juris Doctor, Registered

Professional Nuclear Engineer

• Dr. Syun-Ichi Akasofu Professor of Geophysics, Founding Director of the International Arctic

Research Center of the University of Alaska Fairbanks from 1998 until

2007

Ralph B. Alexander
 Emeritus Professor of Physics, Science Writer

Chapel Allen Geophysical Engineer with 49 years experience in earth science

Lincoln Anderson Macroeconomist and Econometric Model Development

• Michael Anderson BS Chemical Engineering, PhD Information Science, writes about

contemporary American politics, including global warming

• Michael Antonetti P.G., Professional geologist for 35+ years in Pennsylvania with Ms in

glacial geomorphology

• Anthony J. Armini Retired Founder and CEO Implant Sciences Corp.

Bob Armstrong
 MS , mathematical psychophysics

Nicholas Ashcraft
 Materials Science and Engineering, Wright State University. Lifetime

career in the oil and gas industry

• Dr. Malgorzata Askanas Senior R&D Associate at the Aurora Biophysics Research Institute

Emeritus Professor of Pharmacology, Canada and Former Dean of Basic Medical Sciences, American University of Barbados, Barbados

Jeffrey Baldwin petrophysicist and rock physicist specialist

• Lynne Balzer certification in Biology, Chemistry and Physics, founder of Faraday

Science Institute, retired high school teacher (chemistry, physics,

biology), adjunct college science professor

Donna Barr lifetime career as investigative journalist worldwide

• Dr. Bryan Barrilleaux MD, Physician of Internal Medicine

• Joe Bastardi Chief Meteorologist Weatherbell.com, Author: The Climate Chronicles:

Inconvenient Revelations you won't hear from Al Gore and others; The

Weaponization of Weather in the Phony Climate War

Captain Walter Bates
 Former pilot at United Airline

Charles G. Battig
 Climate Adviser, Heartland Institute

Eric Baum PhD in Theoretical Physics, Princeton University

Trenin Bayless
 PhD in Materials Science, Post-doctoral research in metallurgy,

Masters degree in Biomedical Engineering

Juris Doctor Degree (Law), studied history of science for 25 years and

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 James Beilman ASBOG Licensed Environmental Geologist

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 Expert on the Ethics and Economics of Climate and Energy Policy,

Founder and Spokesman of The Cornwall Alliance for the Stewardship

of Creation

• Larry Bell Endowed Professor of Space Architecture, University of Houston

• Frank X. Bellini Retired Geologist and Environmental Scientist, 45 years experience in

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 Chemical Physicist & Co-inventor of the Oxygen-iodine Chemical Laser

Haym Benaroya Distinguished Professor of Mechanical and Aerospace Engineering,

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• Dr. Shmuel Ben-Shmuel PhD in Aerospace & Mechanical Engineering, retired aerospace

engineer, worked on the Space Shuttle, doing Computational Fluid

Dynamics simulations

Dr. Peter R. Bergethon retired Professor of Biochemistry, Anatomy & Neurobiology,

Biomedical Engineering and Neurology, Boston and Tufts Universities.

Inventor of bioelectrochemical energy systems.

• Robin Bernhoft MD, FACS, FAAEM, retired liver and pancreatic surgeon, retired clinical

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Edward X. Berry
 PhD, Atmospheric Physicist, American Meteorological Society, Author,

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Ronald Berti lifetime career in the semiconductor industry

Brent J. Bielema studied Economics at Northern Illinois University, professional

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• Jared L. Black Numerical Analysis Consultant, ScD

Dr. David L. Black Clinical and Forensic Toxicologist (Microbiology, Immunology,

Pathology, Pharmacology), Vanderbilt University Nashville, adjunct of

Department of Medicine Board of Visitors

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Twenty-five Myths That Are Destroying the Environment

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 PhD, Emeritus Professor Mechanical Engineering, Texas A&M

University, Baylor University

Robert L. Bradley jr.
 CEO and Founder of the Institute for Energy Research

David Brand
 PhD Biology, Immunology and Biochemistry Scientist since the early

1990's

Donald Bretches
 PhD Physical Organic Chemistry

Dr. William Briggs
 Alumnus Cornell University, Writer and Philosopher

Daniel Brimhall
 MS Extractive Metallurgy, University of Utah, retired Vice President

Operations, American Chemet, East Helena, MT, now active as

consultant

• Clare Livingston (Bud) Bromley III

Dr. Larry Frank Brown
 PhD in Range Plant Ecology (Ecophysiology) from Colorado State

University (1974), President of L.F. Brown & Assoc. Inc.

• Joel M.G. Brown retired petroleum engineer

• James Brucher technology and business consultant for over 30-years in the

telecommunications, transportation, aerospace, software, defense,

manufacturing, and biotechnology industries.

BS Natural Sciences, scientific instruments

Gerald Brunetto
 Retired after lifetime career in engineering & building nuclear & fossil

fuel fired steam power plants

Clifford Brust Director of Engineering at Defense Engineering Corporation

• James W. Buell PhD, Aquatic Biologist, Consultant

Robert Bugiada
 Senior Process Engineer at R.C. Costello & Assoc. Inc

Frits Buningh Data Research Specialist
 Lior Burko PhD, Theoretical Physicist

• Dr. H. Sterling Burnett PhD, Applied Philosophy with a specialization in Environmental

Ethics, past Senior Fellow of the National Center for Policy Analysis,

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David Burton
 System and Computer Scientist, Expert Reviewer of AR5 and AR6,

Member of the CO2 Coalition and Creator of the SeaLevel.info website

Mark Shane Butler
 MA in mathematics, lifetime career in data science

Barry Butterfield Civil Engineer Retired

George Buzel
 BS and MS Engineering, Physics and Optics

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Ron Cakebread mechanical engineer with 35 years in the industrial automation

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Nick Capaldi
 PhD, Author Books on Logic, the Scientific Method and the Philosophy

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• John M. Cape P.E. former military officer and economics instructor at West Point,

 ${\bf Licensed\ Professional\ Engineer,\ Energy\ Consultant\ -\ Upstream\ Oil\ and}$

Gas, now writing Net Zero themed novels

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• Gordon A. Dressler MSc, 36-year professional career as a rocket and spacecraft propulsion engineer, awarded six patents in the field of rocket propulsion • Paul Driessen Senior Policy Advisor, Committee for a Constructive Tomorrow (CFACT) and Congress of Racial Equality (CORE) • John Droz jr. Physicist, Founder of AWED Alliance · Dr. William DuBroff PhD Metallurgy, Former Director of Research Inland Steel, Former Asst. Professor Clemson University · John Dueker MBA University of Houston, BSEE University of Notre Dame, 45 years of experience in environmental permit compliance · Murray Duffin BScEE, MBA, former Corporate Vice President for Total Quality and Environmental Management, Retired • John Dale Dunn MD, JD, Lecturer Carl R. Darnall Army Medical Center, Fort Hood, Texas · Jack Edwards AI research and development (Retired) MSc in Chemistry, author of Climate Change: What they Rarely Teach • Stephen Einhorn In College · Guy Ellison Second generation oil and gas explorationist • Prof. James E. Enstrom PhD, MPH, FFACE, Retired UCLA Research Professor in Epidemiology, President of the Scientific Integrity Institute, Los Angeles · Kenneth Epperson Nuclear Engineer · Richard G. Eramian BA in mathematics and physics · Willis Eschenbach Generalist and Author of many (peer-reviewed) critical Climate Articles with numerous Citations Adjunct Professor University of Pittsburg, PA, Doctor of Science · Vincent Esposito in Nuclear Engineering (Un. Fo Viginia), Retired Manager from Westinghouse Electric Company · Douglas Fairobent Retired Physicist trained in Condensed Matter Theory, PhD (Physics), University of Michigan, 1978 · Dennis Falgout BS chemistry, MSE air pollution measurement, PhD Photochemistry, Consulting environmental engineer · Peter Farrell Fellow of the US National Academy of Engineering · Ralph English Fisler professional aerospace engineer · Edward Patrick Flaherty American lawyer based in Geneva, litigating against the UN, WMO, WIPO and other IOs on behalf of staff members, whistleblowers and injured third parties · Rex Fleming Research Scientist, Author of Book on Carbon Dioxide Fallacy, Retired President Global Aerospace • Jim Folcik Geosciences Manager Extraction Oil & Gas · William Foley BS and MS in Geology, University of Kentucky, 30 plus years in the energy industry, including experience in uncertainty and probability analysis. · James Forensky B.S.E.E., M.D. Retired Engineer and Physician • John Fortier Vice President of Geology/Geophysics · Dr. Geoffrey Q. Fox Geoffrey Q. Fox, Retired Neuroscientist, PhD in Anatomy and Physiology from the University of California, Berkeley · Dr. Neil Frank Lifetime of Experience in Research and Forecasting in Tropical Meteorology, Former Director National Hurricane Center • Patrick Frank PhD, SLAC National Accelerator Laboratory, Stanford University · Gary Freeman PhD, Water Resources, President, River Research & Design, Inc • Robert S. (Steve) Friberg Trend Resources LLC, Resources Exploration Geologist with +55 years of experience in the geological sciences field · Gordon J. Fulks Astrophysicist, Board of Directors CO2 Coalition, Co-founder Global Warming Realists • S. Fuller Hunt Biology Teacher at Preparatory High School of Mathematics, Science, Technology and Careers, Calabash, North Carolina • Lynn Warren Funk accelerator physicist, climate realist · Terry Gannon Physicist, Retired Semiconductor Executive • Dr. Philip Garrou PhD Chemistry 1974 Indiama Univ. Retired Director of Technology at Dow Chemical's electronics division. Serves DARPA and the DoD as a microelectronics subject matter expert (SME) • Louis Genevie PhD, Epidemiologist, www.LitStrat.com

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Retired Geologist (MSc)

• Fred Kinsley

• Kevin Kirchman Editor of the Climate Science Journal, more than a decade in renewable energy engineering • Floyd Lee Knapp BSc Portland State University, 300 level Geography and Climatology • Stephen C. Knowles Marine Scientist and Geologist, Beacon, New York · Kenneth D. Kok retired Nuclear Engineer, ASME Fellow, Past Chair of the ASME Nuclear Engineering Division and the ASME Energy Committee · Mark Konya B.S. Ed. Mathematics, B.S. Physics, M.S. Nuclear Engineering, M.A. · Alex Kozinski Retired Judge on the US Court of Appeals · Wayne P. Kraus Member American Institute of Chemical Engineers (AIChE) · Kirk Laird retired Oceanographer and Meteorologist (US Navy), Geologist with US Bureau of Land Management · Richard Lambert Retired Program Director for the Physical Oceanography Program at NSF: Tropical Ocean/Global Atmosphere (TOGA), and World Ocean Circulation Experiment (WOCE). · Richard Lang MSc Geophysics · Prof. Donald Langmuir PhD, Emeritus Professor of Geochemistry, Depts. of Chemistry, Geochemistry, and Environmental Sciences, Colorado School of Mines. Consultant and President of Hydrochem Systems Corp · Dirk van Leenen Doctorate in Horticulture, Author of 5 books latest title: The Nonsense of Global Warming and Climate Change PhD, Retired Professor of Climatology in the Department of Geography • David R. Legates and Spatial Sciences at the University of Delaware, Cornwall Alliance for the Stewardship of Creation · Jay Lehr† PhD, Senior Policy Analyst for the International Climate Science Coalition, Former Science Director of the Heartland Institute • David P. Lentini Chemist and Patent Attorney, New Hampshire · Dr. David H. Lester PhD in Chemical Engineering, Advisor to allaboutenergy.net · James M. Leverentz Instructor UCI, Manager, California • Ulf Lindqwister PhD theoretical particle physics, Princeton University, Business executive with 30+ years of industry experience · Harry Lins PhD, U.S. Geological Survey (Retired), Past-President, Commission for Hydrology, World Meteorological Organization • Ramon Lopez PhD, Distinguished Professor of Physics, expert in space physics and space weather modeling, · Howard R. Lowe Prof. Eng., Geologist BS-Physics, PhD-Biophysics; Founder and CEO, Molecular Matters AZ · Ronald J. Lukas • Anthony Lupo PhD Atmospheric Science, Professor of Atmospheric Science, University of Missouri · Dean Lusby IT professional, business owner, Pennsylvania · James MacNeal **Specialty Gases Chemist** · Frank Madarasz Ph.D. (Ret) Condensed Matter Theoretical Physics · Michael Maguire Meteorologist/Scientist/Trader at MarketForum · Jeffrey Mahn Retired Nuclear Engineer Sandia National Laboratories (New Mexico), Member Scientists for Accurate Radiation Information (SARI), Member Nuclear Society (ANS) • Matt Malkan PhD, Distinguished Professor of Physics and Astronomy, UCLA • Michael Maller Professor Emeritus of Mathematics, Queens College, CUNY · John Maney Doctorate in Analytical Chemistry, career in environmental sampling, analysis and data quality Retired from the US Naval Research Lab and life fellow of APS and · Wally Manheimer IEEE, Author of "Mass Delusions, how they harm sustainable energy, climate policy, fusion and fusion breeding" • Prof. Paul Manner MD FRCSC, Joint Replacement/Hip and Knee Arthritis, Department of Orthopaedics and Sports Medicine, University of Washington · James A. Marsh Emeritus Professor of Immunology, Cornell University, Dept. of Microbiology and Immunology David Martinovich General Science Teacher, grades K-12, United States, China, and Belize · David Matthews BS Meteorology and Oceanography, MS PhD Atmospheric Sciences, Manager, River Systems and Meteorology Group, Bureau of Reclamation, US Department of the Interor (Retired)

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Jilong Rao	PhD in Geochemistry from Yale University A retiree in Virginia.
Michael Rath	BS in Forest Management, Michael Rath, 55 years in Forest
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• Brian D. Ray	PhD in science education from Oregon State University, Salem
Dr. George Rebane	Scientist with degrees from UCLA in Physics (BS) and Engineering (MSE and PhD), lectured at UCLA and California State University as an Adjunct Professor
• Edward A. Reid	lifetime experience in the US energy industry in technical research and development, market development, marketing and consulting
• Fred A. Reitman	professional career as a petroleum and petrochemical toxicologist.
Forrest J. Remick	Commissioner (Retired), US Nuclear Regulatory Commission
• Dr. Douglas Rigby	Ph.D. in Geomechanics, B.S. in Hydrology, expertise in modeling complex phenomena under uncertainty
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David K. Rogers	PE, CEG MS, Geological Engineering, Member of the Boards of Consultants for the Federal Energy Regulatory Commission
• Dr. Jennifer Runquist	PhD from Northwestern Unv, Evanston IL related to photosynthesis
 Marius Russo 	IT expert
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 Ralph Sacrison 	MSc, lifetime career in earth sciences and engineering
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• John Schell	BS Marine Biology, PhD Toxicology, Toxicologist who has participated in the assessment of environmental impacts of chemical releases
 Jesse Schilling 	Certified Management Accountant
 Mike Schimmelpfennig 	Degreed Mining Engineer with more than 40 years of experience
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• Roscoe M. Shaw	meteorologist and portfolio manager
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Professor Emeritus Mechanical Engineering and Computer Science, · David E. Thompson Dean Emeritus College of Engineering, University of Idaho BSME California Polytechnic, MBA University of California, lifetime · Roane Thorpe career in global energy projects • Gordon Tomb Energy and climate writer, communications consultant, primary editor of Inconvenient Facts and Senior Advisor for the CO2 Coalition · Cecil Joe Tomlinson Retired Boeing Senior Principle Engineer · Frank Trask BS Degree in Mechanical Engineering, University of Maine Lecturer in Physics, The Pennsylvania State University - York Campus • Kip Trout · Karl Michael Frederick Truitt BSEE, IEEE, US Veteran, 6 US Patents, Climate Data Researcher, Host of the The Climate Change Hoax Podcast · Richard Trzupek Chemist and Air Quality Expert · Mark Twaalfhoven **Executive CEO Technology Companies** · Mark Ulmer Esq., Mayor of Miami Shores, Florida, 1999-2001 · Jeffrey Vaughan Petroleum Geologist California · Peter Villucci MSc. Organic Chemistry, Lifetime science and communications professional • Arthur Viterito PhD, Physical Geography, Policy Adviser to the Heartland Institute • Dariusz Vogelsinger **Psychologist** • Brian Volkman PhD, Professor of Biochemistry, Medical College of Wisconsin · Whitson G. Waldo Scientist and Engineer with MS Chemical Engineering from Clemson Univ, lifetime career in the semiconductor industry, owner of 13 awarded patents · William B. Walters Guggenheim Fellow, Professor of Atmospheric, Nuclear and Environmental Chemistry, University of Maryland · James Wanliss Professor of Physics, Presbyterian College · R. Peter Weaver lifetime career in energy, energy policy and sustainable operations · Robert Webster More than 65 years of interest in Meteorology and Climatology, Author of "Looking Out the Window", an evidence based defense of CO2 charged with being a climate change force • Steven E. Weismantel Retired Engineer and Climate Researcher · Isaac William Wells Lawyer in International Law and Foreign Affaires • Dr. Steven C. Wendelken EPA, OGWDW/TSC, climate realist • Gary S. Westerman PhD, physical geography with specializations in climate science and remote sensing · Stephen H. Westing PhD, Director Medical Affairs, Regeneron Pharmaceuticals, Inc. · Jim Whiting MD from McGill U, Montreal, Fellow of the American College of Radiology · Dr. Matthew Wielicki PhD in Geochemistry from UCLA, Assistant Professor of Geological Sciences at the University of Alabama · Chuck F. Wiese Professional Meteorologist · David Williams PhD, University Distinguished Professor Emeritus, Oregon State University · Brock Williams PhD, Lifetime research scientist with subjects from molecular to population pathology with a special interest in immunopathology and atopic disease B.Sc. Physics, Post Undergrad Studies: Atmospheric Physics & · Jeff Wilmer Chemistry, Industrial Capitalist and Innovator · Steven Wilmoth Certified Petroleum Geologist · Kevin Wilson PhD in Geological Sciences, Retired, former Professor and Researcher on Plate Tectonics, Paleoclimate and Paleoceanography · Terry Winters PhD in Chemistry, Writer, Member of CO2Coalition David Wojick Cognitive Scientist • Dr. Calvin M. Wolff Adjunct Professor University of Houston at Clear Lake, Expertise in **Energy Management** · Michael Wood BSChE, MBA; former lead technical engineer in development of space station and space launch vehicles · Peter Wood PhD, President, National Association of Scholars • Gregory R. Wrightstone Expert Reviewer IPCC, Geologist, Author, Executive Director CO2

Coalition

- Walter Yarbrough
- Frank Yates Jr
- Dan Youra
- Ronald B. Zelt
- Matthew Ziska
- Hannes Zuercher
- Bob Zybach

PhD, retired from Penn State

Past President of Yates Petroleum Corporation

publisher Youra media, creator and editor of Carbon Tax News Hydrologist, retired PH-WQ., U.S. Geological Survey (retired).

PhD, Director of Environmental Health and Safety at Elevation Labs

PhD Geophysics, Independent Geophysicist

Program Manager, Oregon Websites and Watersheds Project Inc.



1 SIGNATORY FROM VIETNAM

1 Signatory

• Dr. Thi Thuy Van Dinh

PhD in Law, Master in environmental law, University of Limoges, former official of the UN Secretariat



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