

World Climate Declaration

# THERE IS NO CLIMATE EMERGENCY

**1919 SIGNATORIES**



GLOBAL CLIMATE INTELLIGENCE GROUP

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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<sub>2</sub> is beneficial.

## **CO<sub>2</sub> is plant food, the basis of all life on Earth**

CO<sub>2</sub> is not a pollutant. It is essential to all life on Earth. More CO<sub>2</sub> is favorable for nature, greening our planet. Additional CO<sub>2</sub> 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 CO<sub>2</sub>-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<sub>2</sub> 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:

## WCD AMBASSADORS

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# TOTAL SIGNATORIES 1919



## 5 SIGNATORIES FROM ARGENTINA

### 5 Signatories

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- Rosa Compagnucci

Research professor at national universities and educational institutes  
Environmental Consultant & Auditor

Coastal Specialist and Environmental Scientist

PhD in Meteorological Sciences, Climate Researcher, Full-time  
Professor at the University of Buenos Aires and Principal Researcher  
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- Sergio Heguilén

MSc, Director of Ecoativo Environmental Consulting, specialized in  
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## 177 SIGNATORIES FROM AUSTRALIA

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- Ian Plimer

Professor Earth Sciences, The University of Melbourne

### 175 Signatories

- D.Weston Allen

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Author of a number of Climate-related papers

- Don Andersen
- David Archibald
- Rick Armstrong
- Michael Astén

Retired Teacher, Programmer

Research Scientist

retired metallurgist and strategic planner

Retired Professor in Geophysics and Continuing Senior Research  
Fellow at the Monash University, Melbourne

retired teacher and manager of a small business

- József Balla
- Stuart Ballantyne
- Dr. Priyanka Bandara

PhD, Senior Ship Designer, Sea Transport Corp.

PhD, former academic medical researcher operating as a freelance  
researcher in environmental health since 2012.

- Jim Bannister

industry researcher for many years but recently a high school  
educator.

- Jeremy Barlow
- Dr. Colin M. Barton

Energy and Mining professional, Director and CEO

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Research and Professional Training, Honorary Fellow RMIT University,  
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- Gordon Batt
- Maxwell Charles S. Beck

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lifetime of international experience in law, retired Magistrate and  
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- Robert M. Bell
- Karen Benn

Retired Geologist, Victoria

PhD, Biologist and Environmental Scientist, Educator and University  
Lecturer in Sciences, Biology, Environmental Sciences, Water Quality  
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- Richard Blayden
- Colin Boyce

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Engineer, Member of Parliament, Queensland State Parliament,  
Engineer, Farmer and Entrepreneur

- Howard Thomas Brady

Member Explorers Club of New York, Member of the Australian  
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- Geoff Brown
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Organizer of a Critical Climate Group

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Retired Environmental Consultant
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Medical Practitioner
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Organic Chemist, Honorary Fellow University of Queensland
- Dr. Larry Cashion  
PhD in Psychology, Consultant Psychologist, Special interest in cognition and language of climate science
- Peter Champness  
Radiologist
- Andrew E. Chapman  
Expert on Rainfall and Flood Events
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- Martin Clark  
Expert in Building Design, Planning and Landscaping, Townsville NQ
- Richard Corbett  
Member Royal Australian Chemical Institute, Member of The Clean Air Society of Australia and New Zealand
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lifetime active as Geologist; Dr. Creech informs the public by giving presentations on Climate Change
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- Arthur Day  
Earth Scientist, Specialist in Geochemical Modelling of Volcanic Processes
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- David H. Denham  
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- Andrew Gillies  
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- John Happs  
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- John Leisten  
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- Tim Riley  
Mining Geologist
- John Cameron Robertson  
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- Judy Ryan  
Editor Principia Scientific Institution Australia
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- Pasquale Seizis  
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- Jim Simpson  
Retired from Managing Positions in different International Telecommunications Firms, nowadays Convenor of "The Climate Realists of Five Dock", Sydney Australia."

## Australia continued

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Former Head of the Australian Treasury and Executive Director of both the IMF and the World Bank
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Electrical Aerospace and Astrophysics Engineer, Computer Modelling Researcher
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- Chris Warren  
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Retired Environmental Scientist with specialization in Aquatic Chemistry and Environmental Consequences of Renewable Energy
- Alan C. Watts  
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retired electrical engineer with thirty years experience in the Australian mining and mineral processing industry
- Michael Wilson  
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- Lawrence A. Wilson  
Professional Chemical Engineer, Melbourne
- P.C. Wilson  
Former Journalist with the A.B.C. Queensland
- Philip Wood  
Qualified Lawyer in four Jurisdictions (Australia, New York, UK and Hong Kong), CEO of two ASX-listed Companies operating in the Mining and Minerals Processing Fields
- Michael Wort  
BSc Geology, MSc Mineral Process Design, PhD Mineral Technology, Geologist interested in impact of high levels of atmospheric CO2 as trigger for formation of limestone deposits



## 9 SIGNATORIES FROM AUSTRIA

### 9 Signatories

- Dr. Wolf Bertling PD in Medicine, and pharmacist and entrepreneur
- Dr. Gerhard Kirchner Berg Ingenieur, Climate Realist
- Dipl Ing, Dr rer techn Heribert Martinides European Space Agency, retired
- Rudolf Posch PhD, Retired Software Engineer of a Technical Multinational, Expert in Nonlinearities and Feedbacks
- Dr. Eike Roth PhD in Physics, Lifetime career in Nuclear Energy
- Helmut M. Sauseng MSc Physical Chemistry, entrepreneur, activist in civil society
- Hans Dirk Struve Dipl. Ing., Mechanical Engineer with large experience in business
- Dr. Joseph Laszlo Szekeres MD, PhD, Associate Professor at Medical University of Vienna, President of Vienna Medical Association
- Konrad Falko Wutscher Doctor of Engineering Sciences, specialist in treatment of water and wastewater



## 1 SIGNATORY FROM BANGLADESH

### 1 Signatory

- Prof. Dr. Aftab Alam Khan PhD, Active Professor Geological Oceanography, BSMR Maritime University, Retired Professor of Geology and Geophysics of Dhaka University



## 1 SIGNATORY FROM BARBADOS

### 1 Signatory

- Fred Corbin Director of CSW Engineering 2000, Co-founder of The FREEWINDS organization



## 36 SIGNATORIES FROM BELGIUM

### 2 WCD Ambassadors

- Henri A. Masson Professor Emeritus Dynamic System Analysis and Data Mining, University of Antwerp, French speaking Belgium
- Ferdinand Meeus Retired Dr. Sc (Chemistry, Photophysics, Photochemistry), IPCC expert Reviewer AR6

### 34 Signatories

- Rudy Berkvens Information Security and Quality Management Auditor in ICT and Aviation, Commercial Pilot, Flight Instructor
- Eric Blondeel Retired Civil Engineer
- Emiel van Broekhoven† Emeritus Professor of Economics, University of Antwerp
- Christophe de Brouwer MD, Honorary Professor of Environmental and Industrial Toxicology, Former President of the School of Public Health at the Université Libre de Bruxelles
- Jan-Paul Buijs Biologist, Computer scientist, experienced business consultant and change manager, director of two NGOs around awareness for, and protection and restauration of fragile ecosystems
- Alexandre G. Clauwaert Brussels Polytechnic, Civil Engineer
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- Ernest Mund  
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- Luc Opdecamp  
“The agronomist-philosopher” (independent researcher), Agronomist (Soil science)
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- Jean van Vliet  
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- Dr. Marc Wathélet  
PhD in Molecular Biology, Free University of Brussels
- Appo van der Wiel  
Senior Development Engineer



## 1 SIGNATORY FROM BOLIVIA

### 1 Signatory

- Ambassador Jos   Brechner  
retired Congressman and Ambassador for the Bolivian Government, Chair of the Foreign Affairs Committee, currently Syndicated Columnist and Senior Political Analyst



## 22 SIGNATORIES FROM BRAZIL

### 1 WCD Ambassador

- Dr. Thiago Maia  
Nuclear Physicist, PhD in Astrophysics

### 21 Signatories

- Jorge Luis Balino  
PhD in Nuclear Engineering, Career in R&D and Education in topics related to Nuclear and Petroleum Engineering
- Dr. Peter Brian Bayley  
PhD, lifetime experience in Aquatic Ecology and Fisheries, retired from Dep. Fisheries & Wildlife, Oregon State University
- Jose Nestor Cardoso  
Professor on first oceanography course in Latin America, Pioneer on Brazilian expedition to Antarctic, First scientific diver for Brazil from CMAS
- Mario de Carvalho Fontes Neto  
Agronomist, Editor of ‘The Great Global Warming Swindle’
- Jos   Bueno Conti  
Geographer and Professor of Climatology, Full Professor of the Geography Department at the University of Sao Paulo (USP)
- Dr. Johnson Delibero Angelo  
Master and Ph.D. in Material Science, Industrial Chemist, Emeritus Collaborating Professor of Postgraduate Studies in Mechanical Engineering at UFABC
- Prof. Dr. Ricardo Augusto Felicio  
BSc Meteorology - USP, MSc Antarctic Meteorology and Satellites - INPE, PhD in Climatology - Physical Geography - USP
- Richard Jakubazsko  
Executive Editor of Agro DBO Magazine and Co-Author of the Book ‘CO2, Warming and Climate Change: Are you kidding us?’
- Dr. George Lentz Cesar Fruehauf  
BSc. Doctor of Sciences – USP, MSc. Meteorology – SJSU, expert in environmental engineering



## Brazil continued

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- Luiz Carlos Badicero Molion
- Prof. Marcos José de Oliveira
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professor and researcher at the Department of Oceanography and Ecology at the Federal University of Espírito Santo

Emeritus Professor of the Federal University of Alagoas (UFAL), Formerly of the National Institute of Space research (INPE)

Environmental Engineer, Master in Climatology, Author of research articles about climate cycles and natural causes of climate change

PhD Animal Science, Full professor at the Federal University of Mato Grosso do Sul

Physicist, Professor at the Federal Institute of Education, Science and Technology of Ceará (IFCE), Retired Associate Professor of the Federal University of Ceará (UFC)

PhD in Aerospace Engineering, Professor for Solid and Structural Mechanics, University of São Paulo

Geographer, Master in Climatology, Environmental Consultant

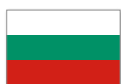
BSc Biology and Ecology, MSc Applied Ecology, Biologist, works with environmental education, licensing, restoration, sustainability management and staff supervision

Geologist, Author of 'How a Natural Phenomenon Was Converted into a False Global Emergency'

Graduated in Veterinary Medicine and Computer Sciences

Professor of the Geography Department of the State University of Santa Catarina (UDESC)

Biologist, Specialist in Environmental Management



## 2 SIGNATORIES FROM BULGARIA

### 2 Signatories

- Ivan Daraktchiev
- Fabrice Toussaint

MSc of Applied Science (Electronics engineering, Chemistry, Physics), Independent Researcher

lifetime of experience in the geo-energy industry, expert in complex numerical modelling



## 146 SIGNATORIES FROM CANADA

### 2 WCD Ambassadors

- Reynald du Berger
- Patrick Moore

Retired Professor of Geophysics, Université du Québec à Chicoutimi, French Canada

Ecologist, Chair CO2 Coalition, Co-Founder Green Peace

### 144 Signatories

- Steven Ambler
- John Andersen
- Peter Andreadis
- Dr. Grant Armstrong
- Russ Babcock
- Tim Ball†
- Ron Barmby
- Timothy J. Barrett
- Robert Douglas Bebb
- Callum Beck
- Rick Beingessner
- Jean du Berger
- Mario Blais
- Alain Bonnier
- Andrew Bonvicini

PhD, Full Professor University of Quebec, Dept. of Economics

BSc, Honours, University of Alberta

Satellite Systems Engineer

Leadership development and coaching

retired biochemist, lifetime experience in the mining and smelting industry with emphasis on pollution abatement

Emeritus Professor Geography, University of Winnipeg and Advisor of the International Science Coalition

M.Eng in Engineering with major in Geoscience, Author of 'Sunlight in Climate Change: A Heretic's Guide to Global Climate Hysteria'

PhD, Geochemical Researcher, Ore Systems Consulting

Professional Engineer (Mechanical), MBA

PhD in Religious Studies, Sessional Professor in Religious and University Studies

BSc, BA and LLB University of Alberta, lifetime experience in the Geo-Energy Industry, recently involved in researching Climate Change Matters

Ingénieur Retraité, Bell

Science and Mathematics Teacher

PhD, Physique, INRS-Centre de Recherche en Énergie, Montréal

Professional Geophysicist, President of Friends of Science Society

## Canada continued

- Dr. Don Bowen  
PhD population ecology, Emeritus Research Scientist, Bedford Institute of Oceanography
- Jacques Brassard  
Minister of Recreation (1984), Minister of Environment (1994), Minister of Transport and Intergovernmental Affairs of Canada (1996), Minister of Natural Resources and House Leader
- Kevin Burke  
MSc in Marine Biology, author/co-author of 2 technical report with the Departement of Fisheries and Oceans and 2 scientific article published in the Journal of Shellfish Research
- Chris Carr  
BSc (Hons) Engineering Geology and Geotechnics, retired Geoscientist
- Michel Chapdelaine  
MSc, Géologie, Montréal
- Michel Chossudovsky  
PhD of Economics, Professor of Economics, Emeritus, University of Ottawa
- Ian Clark  
Professor of Earth and Environmental Sciences, University of Ottawa
- Henry Clark  
Thermal/Power Engineer
- Edmond (Ted) Clarke  
MSc, Engineering, Member of Friends on Science Society
- Paulo N. Correa  
Biophysicist and Oncologist, Inventor, Author of numerous books and research papers, Director of Research at Aurora Biophysics Research Institute
- Hortense Côté  
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 CA Elliott 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
- 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-lu1i317E>
- 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

## Canada continued

- Mark T. Hohm Professional Engineer registered with the Association of Professional Engineers and Geoscientists of Alberta (APEGA)
- R.G. Holtby professional 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
- Emil Koteles PhD in Solid State Physics, Max Planck Institute in Stuttgart, National 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
- Paul MacRae Independent Climate Researcher
- 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, BSc, 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

## Canada continued

- 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
- Dr. Michael Raw  
PhD in Mechanical Engineering, specialization in computer modelling of fluid flow and heat transfer; current field of work in technology management
- John Angus Raw  
aerospace engineer, specialised in aerodynamics, life time career in the international aerospace industry
- 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 Salonijs  
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 Shephard  
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



## Canada continued

- Mary Taitt
  - Mario Thomas
  - Graydon Tranquilla
  - V Ismet Ugursal
  - Marc Vallée
  - Petr Vaníček
  - Duncan Veasey
  - Prof. Dr. Ir. Frank C.J.M. van Veggel
  - Jean-Joel Vonarburg
  - Dr. Ronald Voss
  - Robert Wager
  - Dr. Helen Warn
  - Dr. Thorpe W. Watson
  - Larry Weiers
  - William van Wijngaarden
  - Kenneth W. Wilson
  - Daryl Youck
  - AL ZEEPER
- PhD Zoology, MSc Ecology, retired  
B.Sc., Ph.D. Chemistry, CEO and Chairman of Precision Biomonitoring Inc.  
BScEE, Electrical Power, Senior Electrical Engineer (retired), now an energy advisory consultant  
Professor of Mechanical Engineering, Dalhousie University  
PhD, Geophysicien  
Dr. Sc, Professor Emeritus of Geodesy, University of New Brunswick  
psychiatrist with a particular interest in mass hysteria, authoritarianism and social compliance  
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  
PhD, Professeur Ingénieur, Université du Québec à Chicoutimi  
PhD Chemistry, lifetime career in the environment department of a research consortium  
BSc and MSc, Microbiological Sciences and Immunology, Biochemistry and Molecular Biology, Retired  
PhD in Fluid Dynamics from McGill University  
material science, lifetime career in the mining industry with focus on intellectual property protection  
energy engineer, retired, author of "Sustainability of the Modern Human Economy"  
Professor of Physics, York University  
Professional Engineer (retired)  
MSc, PEng, Oil Sands Pioneer  
Physicist, Mathematically discovered the Unification of Gravity with Electricity and Magnetism



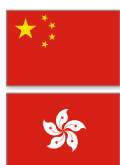
## 4 SIGNATORIES FROM CHILE

### 1 WCD Ambassador

- Douglas Pollock
- Civil Industrial Engineer, University of Chile

### 3 Signatories

- Juan Luis Edwards Velasco
  - Rafael Muñoz Canessa
  - Carlos Varea
- Civil engineer in hydraulics, Universidad Católica de Chile, Master in hydraulic engineering, Universidad de Santander, Spain  
Part time Academic University of Talca, Economics and strategic management  
Energy Engineer



## 4 SIGNATORIES FROM CHINA

### 4 Signatories

- Dr. Robert Hanson
  - Guang Bao Liu
  - Wyss Yim
  - NG Young
- PhD, BA (Hons), MA, LL.M, PGCE, CPE, Barrister  
BSc and MSc in Atmospheric Physics, Author of "The Principle of Periodic Changes in Earth's Climate"  
Retired Professor, Dpt of Earth Sciences, University of Hong Kong, Dept Chairman Climate Change Science Implementation Team  
UNESCO year for Planet Earth, Expert Reviewer IPCC AR2  
Principal Geoscientist, Danxiashan Global Geopark of China



## 2 SIGNATORIES FROM COLOMBIA

### 2 Signatories

- William Antonio Lozano Rivas
  - Felipe Villegas
- full Professor of Water Management, Water Engineering, Climate and Meteorology, Simulation and Modeling; Piloto de Colombia University  
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 Croatia 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/>



## 14 SIGNATORIES FROM CZECH REPUBLIC

### 14 Signatories

- Ladislav Bocak
- Pavel Dudr
- Marek Eiderna
- Tomas Furst
- Vaclav Hubiner
- Pavel Kalenda
- Václav Klaus
- Peter Kopa
- Lubos Motl
- Dr. Milan Salek
- Ivan Spicka
- Dalibor Štys
- Gary M. Vasey
- Ing. Miroslav Žáček

PhD, Professor of Entomology, Czech Advanced Technology and Research Institute

Ing, Independent publicist and climatologist / Pravy prostor, EP Shark/

Agricultural Engineer and graduated in General Biology

PhD, teacher of mathematics at Palacky University in Olomouc and a proponent of correct, i.e. Bayesian inference

Retired Ambassador, Anthropologist, Climate Policy Commentator for [www.forum24.cz](http://www.forum24.cz)

PhD, CSc., Coal Expert

Former President of the Czech Republic, Professor of Economics, Founder of the Václav Klaus Institute

Lawyer, Writer, Publisher, Founder of [thinktanklatam.org](http://thinktanklatam.org)

PhD, former Harvard faculty, high energy theoretical physicist, co-author of the 2009 NIPCC report

PhD, Freelance Meteorologist and Consultant

Professor of Internal Medicine at Charles University with speciality in Hemato-Oncology, Prague

professor of Applied physics, Faculty of Fisheries and Protection of Waters, University of South Bohemia in České Budějovice

PhD, Geology, Managing Partner and Analyst in Commodity Technology Advisory llc

PhD., applied 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
- Claus Beyer
- Steffen Frederiksen

Professor of Physics, Niels Bohr Institute, University of Copenhagen  
Geologist, gen.manager for CB-Magneto, possessing palaeomagnetic laboratory

MSc Economics, Climate Economics, Cost benefit analysis of CO2

## Denmark continued

- Dr. Hans Götzsche
- Frank Hansen
- Niels Harrit
- Sören Kjærsgaard
- Johannes Krüger
- Knud Larsen
- Peter Loch
- Peter Kjær Poulsen
- Steen Rasmussen
- Niels Schrøder
- Pavel Svennerberg

Emeritus Associate Professor, Linguistics and Philosophy of Science, President Nordic Association of Linguists (NAL), Director, Center for Linguistics, Aalborg University

Emeritus Professor, Department of Mathematics, University of Copenhagen

PhD, Emeritus Associate Professor of Chemistry, Dept. Chemistry, University of Copenhagen

Professional Chemical Engineer

Emeritus Professor, Dr. Scient, Department of Geosciences and Natural Resource Management, University of Copenhagen

PhD, Natural Sciences

Senior Lecturer, Business Academy Aarhus (statistics)

Metering Engineer

Bsc in Electrical Engineering from Denmark Technical University, lifetime career at IBM Denmark Aps

Geophysist/Geologist, Associate Professor Institute of Nature and Environment, Roskilde University

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
- Christer Kald
- Simo Mykkanen
- Ari Okkonen
- Dr. Antero Ollila
- Simo Ruoho
- Boris Winterhalter

PhD, MSc, former KTH, Royal Institute of Technology, freelance researcher, specialist in Structural Health Monitoring, sustainable development

Engineer with academic studies in Physics, Chemistry and Mathematics

Ba Econ, small business owner, retired

MSc EE, Finland, Climate data analysis enthusiast

Emeritus Adj. Ass. Professor Aalto University, expert in atmospheric modeling

President Ilmastofoorumi ry Finland, Signature of association <https://ilmastofoorumi.fi> including its scientists and professional members

Retired Marine Geology, Geological Survey of Finland



## 110 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

### 109 Signatories

- Jean-Charles Abbé
- Pascal Acot
- Bertrand Alliot
- Yacine Amara
- Frédéric Antoine
- Charles Aubourg

Former Research Director at CNRS, Labs Director (Strasbourg, Nantes) in Radiochemistry, Expert at NATO and IAEA

Centre National de la Recherche Scientifique, Paris

Environmentalist

PhD of Applied Physics, Professor of Electrical Engineering graduated from Sciences Politiques in France

Full Professor at the University of Pau, Geophysicist

## France continued

- 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 Pierre-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
- 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 Institut de Physique du Globe de Paris
- Pierre Darriulat  
Professor of Physics, Member of the French Academy of Sciences
- Jean Davy  
Engineer (ENSA), 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



## France continued

- 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
- 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
- François 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 Châteaux 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
- 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 Grenoble) 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 geo-energy industry

## France continued

- 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 Mayor 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
- 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 Ripoché  
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
- Bertrand Rouffiange  
Doctor of Medicine, specialized in Radiology
- Jean Rouquerol  
Emeritus Research Director at CNRS Marseille, Expert in Gas Adsorption and Calorimetry
- Georges de Sablet  
Retired Associate Professor at University of Paris Descartes, formerly in charge of Operating Systems and Networks at IUT Paris
- François Simonet  
PhD, Biology, Former Director for Planning and Foresight 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

## France continued

- Werner de Ville Vreden
- Brigitte van Vliet-Lanoë
- Théa Vogt
- Henry Voron

writer ("Afrika"), developer and author

Geoscientist, Emeritus Research Director (CNRS, Université de Bretagne Occidentale), Stratigraphy and Palaeoenvironments, Quaternary and Holocene

Retired CNRS Searcher, Géomorphology, Quaternary Palaeoenvironments, Soil and Desertification Remote Sensing

Retired Civil Chief Engineer, specialized in Water Management



## 115 SIGNATORIES FROM GERMANY

### 1 WCD Ambassador

- Fritz Vahrenholt

Professor (i.R.) am Institut für Technische und Makromolekulare Chemie der Universität Hamburg

### 114 Signatories

- Detlef Ahlborn
- Prof. Dr. Peter Altmiks
- Patrick A. Baeuerle

PhD, Expert on German Energy Transition (Energiewende)

Professor of Economics, FOM Hochschule für Oekonomie und Management Hannover

Serial entrepreneur, co-founder of eight biopharmaceutical companies, cancer drug developer, inventor, molecular biologist, and a member of the CO2 Coalition

- Hans-Jürgen Bandelt
- Dietrich Bannert
- Graham George Baumber

Emeritus Professor of Mathematics, University of Hamburg

Professor Honoris Causa, University of Marburg

former agronomist & irrigation crop specialist, business man & investor

- Dr. Lars Birlenbach
- Michael Bockisch
- Klaus-Dieter Böhme
- Thomas Brey
- Stephan Bujnoch

Dr. in Chemistry, University of Siegen

Emeritus Professor Chemistry at the Technical University of Berlin

Dipl. Physicist, professional experience in X-ray spectroscopy

PhD in Natural Sciences (Dr. rer. nat), Marine Ecological Researcher

Wirtschaftsingenieur (i.e. a combination of economics and engineering), retired manager with the automotive industry

- Eike-Mattias Bultmann
- Prof. (i.R.) Dr.rer.nat Eberhard Burkel
- Dr. Arthur Chudy
- Günter Dedié
- Prof. Dr. Hans Demanowski

Geoscientist

Prof. (i.R.) Dr.rer.nat, Physics of New Materials, University of Rostock

Agricultural Chemist, OT Warsaw

Dipl. Physiker

Engineer, Professor of Packaging Technology, BHT, Berlin, expert in Counterfeit Protection, holder of several Patents in this field

- Dr. Joachim Dengler
- Dr. Ing. Rolf Diederichs
- Prof. Dr. Klaus D. Döhler
- Wolf Doleys
- Joerg Dornemann
- Jörg Eichner
- Friedrich-Karl Ewert
- Ludwig E. Feinendegen
- Dr. Dieter Freundlieb

Physicist retired, PhD, patent holder in fingerprint analysis, work on relation between CO2 emissions and concentration

Studie Eisenhüttenkunde in Clausthal-Zellerfeld, climate realist

Professor of Pharma Sciences, University of Hannover

Retired teacher (high school, college) and writer (essay, poetry, novel)

- Gerhard Gerlich
- Axel Robert Göhring
- Dr. Klaus-Jürgen Goldmann
- Dr. Christian Habermann
- Eberhard Happe
- Hermann Harde

Msc in Geology, lifetime career in the Geo-Energy Industry

Specialist in situational awareness in crises and risk management

Emeritus Professor Geology, University of Paderborn

Emeritus Professor Medicine

retired senior lecturer Griffith University, School of Humanities, Brisbane, Australia

Emeritus Professor of Mathematical Physics, TU Braunschweig

Doctor of Natural Sciences, EIKE e.V.

worldwide experienced petroleum geologist

Dr. in Economics, Investment Manager

Eisenbahningenieur

Emeritus Professor of Experimental Physics and Materials Science, Helmut Schmidt-University, Hamburg

- Prof. Dr. Bernd Hartke
- Manfred Hauptreif
- Dr. Fleck Helmut

Professor in Theoretical Chemistry, Expert Knowledge in Computer Modelling, University of Kiel

Natural Scientist

langjährige berufliche Tätigkeit als Projektkoordinator in einer Großforschungseinrichtung

## Germany continued

- Dennis J. Hendricks  
Graduated Engineer of Environmental Technologies, Technischen Hochschule Ostwestfalen-Lippe, University of Applied Sciences and Arts
- Dietmar Hildebrand  
PhD Biophysics and Nuclear Physics, patent holder in fuzzy logic based surveillance, IT expert and development manager
- Dr. Jens Hofele  
Chemist, developer of low-carbon cement compositions
- Dr. Andreas Hoppe  
Systems biologist, Institute for Bee Research
- Heinz Hug  
Chemistry, Master (Diplom Chemiker), PhD (Dr. rer. nat.), lecturer at Paul-Ehrlich-Schule (Frankfurt, Germany), Technical College affiliated to the former Hoechst AG
- Prof. Axel Janke  
PhD, professor of evolutionary genomics
- Jörg Jensen  
Dipl.-Ing. Interested and committed to environmental issues
- André Karutz  
Chemist, Dr. rer. nat. expert in environmental matters
- Professor Dr. Gerhard Kehrer  
Retired Physician, Internist and Physiologist
- Dr. Udo Kienle  
Agricultural Scientist at University of Hohenheim
- Werner Kirstein  
Emeritus Professor of Climatology, University of Leipzig
- Prof. Dr. Knut Kleesiek  
Emeritus Professor for Clinical Chemistry and Clinical Biochemistry Ruhr University Bochum
- Gunther Klessinger  
Physicist, University at Regensburg Germany and Boulder Colorado
- Dr. André Knoth  
PhD in Economics and Organizational Science
- Dr. Torsten Kreer  
PhD in physics, 20 years experience in academic research and education, condensed matter physics
- Stefan Kröpelin  
Dr. in Geosciences, Free University of Berlin and University of Cologne (Retired), specialized in Climate Change of the Sahara
- Dr. rer. nat. Gunter Kümel  
lifetime career in virus research in the natural sciences
- Max Kupillas  
Dipl.-Ing. Masch.-Bau, retired Prod.Ltr.
- Ulrich Kutschera  
Professor of Plant Physiology & Evolutionary Biology at the University of Kassel and Visiting Scientist in Stanford USA
- Jobst Landgrebe  
Scientist and Entrepreneur specialised in Artificial Intelligence and Theory of Science
- Wolfgang Laub  
Physics (J.W.Goethe University, 1977-1986), Medicine (Physiology-Biomechanics, Max-Planck Institute, 1980-1986), patent holder in different areas
- Michael Limburg  
Vice-President EIKE (Europäisches Institute für Klima und Energie)
- Dr. rer. nat. Rolf Lindner  
Chemist
- Martin Lindner  
PhD in Chemistry, Dipl. in Chemistry, President of the Bürger für Technik
- Dr. Alf Loeffler  
PhD in Theoretical Physics
- Prof. Dr. Kai van de Loo  
Dr. rer. oec. Honorarprofessor der THGA und Senior Consultant im Forschungszentrum Nachbergbau
- Dr. Stephan Lorenzen  
PhD Theoretical Biology, Bioinformatician, worked with nonlinear modelling
- Professor Dr. Knut Löschke  
studied crystallography, chemistry, physics, mathematics and computer science. Honorary professor at the University of Leipzig, dealt with the energy industry and climate change
- Horst-Joachim Lüdecke  
Professor of Operations Research (i.R.) HTW of Saarland, Saarbrücken
- Wolfgang Merbach  
Professor Dr. Agrar. Habil. at Institut für Agrar Ernährungswissenschaften
- Prof. Lothar W. Meyer  
Emeritus Professor of Material Engineering, Chemnitz University of Technology, Saxony Entrepreneur 'Nordmetall GmbH', Member of the Board of 'Vernunftkraft Niedersachsen'
- Marcus Moller  
MD, PhD, University Professor of translational Nephrology, RWTH Aachen University, Germany
- Jens Möller  
graduate economist, climate realist
- Wolfgang Monninger  
PhD, lifetime career in Petroleum Geology (Exploration, Petrophysics)
- Klaus Morawetz  
PhD Physics, Professor in Theoretical Physics, Quantum Kinetic Theory, Quantum Statistics
- Werner Mormann  
Emeritus Professor of Macromolecular Chemistry, Universität Siegen
- Dipl. Phys. Raimund Müller  
education in physics and thermodynamics, climate realist
- Holger Neulen  
retired mechanical engineer



## Germany continued

- Prof. Dr.rer.nat Dr.med Peter Nielsen retired Biochemist and Physician from the Universital Hospital Hamburg-Eppendorf, medical faculty of the University of Hamburg
- Rainer Olzem Diplom-Geologe, Aachen
- Hans Penner PhD, Dipl.-Chem. Dr. rer. nat., Linkenheim-Hochstetten
- Dr. Dr. Wätzold Plaum Physicist and YouTuber
- Michael Principato MSc. in Electrical Engineering, specialised in control engineering and modeling
- Dieter Ramcke retired geophysicist
- Siegfried Reiprich Dipl.-Ing, Geoscientist and Oceanography
- Mathias Ricking Dr. rer.nat Geoscience, Environmental Geoscientist
- Andreas Salzman Dr. rer. nat. , Diplom Chemiker
- Prof. Dr. Dieter Schildknecht Professor of theoretical Physics, University of Bielefeld
- Dr. Hendrik Schlesing Environmental Expert and Consultant
- Dr. Martin Schmidt PhD Physics, industrial career of research, development and production of hightec products and subsequently 22 years CEO of Möller-Wedel, a German medical company
- Stefan Schmidt Scientist in the field of Energy
- Christoph Schmidt MSc Mathematics, JWG-University Frankfurt
- Hans Joerg Schmidt Chemical Engineer and Autor of certain books, explaining atmospheric energy exchange and providing arguments against global warming caused by mankind
- Dr. Jens-Christoph Schneider PhD in Isotope Chemistry, life time career in palaeoclimate and atmospheric geochemistry
- Dr. rer. nat. Michael Schnell Retired Chemist
- Prof. Dr. Dr. Karl-Heinz Schulz University Hospital Hamburg-Eppendorf, interdisciplinary research in Medicine, Psychology and exercise science (<https://www.researchgate.net/profile/Karl-Heinz-Schulz-2>)
- Dipl. Psych. Ulrike Schwan Professional psychotherapist, psychotherapist look at the IPCC organization
- W.H. Eugen Schwartz Emeritus Professor of Theoretical Chemistry, Universitaet Siegen
- Dr.-Ing. Christian Singewald Dipl.-Geologist, PhD Mining Engineering
- Attila Sonal Dipl.-Ing. der Elektrotechnik, Retired am Technischen Universität Kaiserslautern, Stadtratsmitglied Kaiserslautern, Preisträger Ansaldo Ricerche Price
- Dr. Fritz Sontheimer Retired Physicist, PhD in Condensed Matter Physics
- Dr. Gerhard Stehlik PhD Natural Science Physico-Chemiste
- Dr. Wolfgang Strehlau Phys. Chemist, Technology Fellow in Johnson Matthey Plc, UK
- Lothar Strenge strategy and concept developer; full time writing on a large SF project
- Manuel Tacanho founder and president of the Afrindependent Institute
- Matthias Thiermann Parliamentary adviser in the Bavarian Parliament
- Dr. Holger Thuss President EIKE Institute
- Dr. Martin Treiber PhD in Physics, Professorship of Econometrics and Statistics
- Jost Trier PhD, Retired Experimental Physicist at the Federal Institute in Braunschweig, Dept. of Atomic Physics
- Ralf D. Tscheuschner PhD in Physics
- Dr. Stefan Uhlig Geologist
- Helmut Waniczek Dr. Dipl. Ing., Scientist, working 40 years in chemical industry
- Ulrich O. Weber Exploration Geophysicist with lifetime interest in Paleoclimate
- Silvio Weeren Diplom in Physics, former IBM environmental affairs Germany, former chairs of EMI3 and ECMA TC38
- Thomas Weimer Process Engineer (Dr.-Ing.), worked on CO2 capture from atmosphere and during hydrogen generation
- Toon Weisenborn PhD in Theoretical Physics, Emeritus scientist
- Carl-Otto Weiss Emeritus Professor in Non-linear Physics, Advisor to the European Institute for Climate and Energy, Former President of the German Meteorological Institute, Braunschweig
- Roland Wiesendanger Professor of Experimental Physics, University of Hamburg, Germany
- Dr. Peter Willingmann Dr. rer.nat
- Lutz Wimmer MSc Climate- and Environmental Change (Geography)



## 18 SIGNATORIES FROM GREECE

### 1 WCD Ambassador

- Prof. Stavros Alexandris

Professor of Agricultural Meteorology & Crop Water Requirements, at the Agricultural University of Athens, Dept. of Natural Resources & Agricultural Engineering.

### 17 Signatories

- Ioannis Benekos
- Costas Fasseas
- Anthony Foscolos
- Chris Fytas
- Christos Georgiou
- Dr. Vassilios C. Kelessidis
- Christos J. Kolovos
- Emmanouil Kopanakis
- Prof. Demetris Koutsoyiannis
- Aristotelis Liakatas
- Prof. Nikos Mamassis
- Charilaos Markopoulos
- Spyridon Nikiforos
- Dr Miltiadis Nimfopoulos
- Sonia Perez†
- Dr. G.-Fivos Sargentis
- Michael Sidiropoulos

PhD in Civil and Environmental Engineering, Senior Researcher, Head of the Laboratory on Risk Management and Resilience at the Centre for Research and Technology Hellas

Emeritus Professor of Plant Anatomy & Electron Microscopy, Department of Crop Science, Agricultural University of Athens

Emeritus Professor of Mineral Resources at the Technical University of Crete, Energy Consultant for the United Nations Development Program (UNDP)

PhD, MSc in Chemistry, Chemist, Lyophilization Scientist

MSc (with Honors) in Biochemistry, PhD in Biology-Biochemistry, Emeritus Professor of Biochemistry

former Professor at Khalifa University, Texas A&M at Qatar and Technical University of Crete Greece, Lifetime of Experience in Petroleum Engineering

PhD, Mining & Metallurgy Engineer, Former Director of Mine Planning & Contractor Works Dept., Public Power Corporation of Greece

Mechanical Engineer, Teacher at the Environmental Education Center of Karpenisi

Professor Emeritus of Hydrology and Analysis of Hydrosystems at the National Technical University of Athens

Emeritus Professor of the Agricultural University of Athens on Agrometeorology, Member of the Greek Agricultural Academy

Professor of Engineering Hydrology and Hydrometeorology at the National Technical University of Athens

MSc in Waste Management

Economist, MBA

PhD in Earth, Atmospheric and Environmental Sciences, lifetime career in Applied and Environmental Geochemistry

PhD, Biology/Immunology, Scientific Coordinator Cancer Immunology and Immunotherapy Center Saint Savas Cancer Hospital, Athens

Dr Engineer-Sculptor, Dept. of Water Resources; School of Civil Engineering, National Technical University of Athens

Principal Engineer, FortisBC



## 2 SIGNATORIES FROM GUATEMALA

### 2 Signatories

- Jorge Chapas
- Christopher Lingle

agronomist, environmental economics specialist, writer, spokesman of climate realism and conservative politician.

PhD Economics Universidad Francisco Marroquín



## 9 SIGNATORIES FROM HUNGARY

### 1 WCD Ambassador

- Laszlo Szarka

Geophysicist, O.M.

### 8 Signatories

- Dr. Dezso Csejtei
- Dr. Endre Fuggerth
- István Héjjas
- Tom Kauko
- József Király

retired professor of philosophy at the University of Szeged

lifelong experience in gas-chromatography

PhD, Retired R&D Electrical Engineering

PhD Geography, Independent Researcher based in Budapest

Chemical Engineer and one of the Authors of the Hungarian site [www.klimarealista.hu](http://www.klimarealista.hu)

## Hungary continued

- Dr. József Majer
- Gábor Simon
- Dr. Gábor Szász

Senior Professor of Ecology and Environment Protection at University of Pecs

MSc Chemical Engineering, University teacher General, Anorganic, Environmental and Analytic Chemistry

Professor Emeritus, College Professor Dennis Gabor College  
Department of Economics and Engineering



## 1 SIGNATORY FROM ICELAND

### 1 Signatory

- Dr. Helgi Tomasson

PhD in Econometrics/statistics, Estimation and Computation in time-series models



## 5 SIGNATORIES FROM INDIA

### 5 Signatories

- Dr. M.M. Ali
- Dornadula Chandrasekharam
- Vijay Jayaraj
- Prem raj Pushpakaran
- Sanjeev Sabhlok

MSc in Meteorology and Oceanography with a PhD in Meteorology, Center for Ocean-Atmospheric Prediction Studies, Florida State University, USA

retired professor from Indian Institute of Technology Bombay, currently working in Izmir Institute of Technology as TUBITAK Professor working on geothermal energy systems

Research Associate at CO2 Coalition, Contributor to Cornwall Alliance

PhD in BioTechnology, Professor

Economist with focus on Climate and Energy Policy



## 2 SIGNATORIES FROM INDONESIA

### 2 Signatories

- Dr. Dr Paul D Giammalvo
- Purwono Wahyudi

PhD, CDT, CCE (#1240), MScPM, MRICS, Senior Technical Advisor, retired

Entrepreneur and informed climate realist



## 20 SIGNATORIES FROM IRELAND

### 1 WCD Ambassador

- Jim O'Brien

Founder of the Irish Climate Science Forum, Expert Reviewer of IPCC AR6

### 19 Signatories

- Tom Baldwin
- dr. Dr Timothy Dunne
- Gerald Fitzgibbon
- David Horgan
- Seamus Hughes
- Mark Gerard Keenan
- Ultan Murphy
- Donal O'Callaghan
- Patrick L. O'Brien
- Owen O'Brien
- J. Philip O'Kane
- Peter O'Neill
- Fintan Ryan
- Christian Schaffalitzky
- Dr. Norman Stewart
- Brian N. Sweeney

Electrical Engineer, Specialist in Power System Security

PhD Psychology, Consultant Clinical Psychologist working in private practice in Dublin

Physical Chemist specializing in Electrochemistry and Thermodynamics

MA (Cambridge), MBA (Harvard), Resource Company Director  
BAgricSc, Specialist in Genetics

Former Science Advisor, Department of Energy and Climate Change, U.K., Former Environmental Affairs Officer, United Nations Environment Division, Geneva, Switzerland

BSc (Hons) Chemistry, Industry Science Professional  
electrical engineer, retired food industry research scientist  
MSc, MPhil, Senior International Environmental Consultant

Business Founder and Entrepreneur, MBA, DBA

Emeritus Professor, School of Engineering, University College Cork  
Retired, School of Engineering, University College Dublin, Expert Reviewer of IPCC AR6

Retired Senior Airline Captain, Fellow Royal Aeronautical Society

FIMMM, Founder Institute of Geologists of Ireland, EurGeol

PhD, former astrophysicist and meteorologist

Founding Chairman of Science Foundation Ireland

## Ireland continued

- Pat Swords
- Sean Tangney
- David Thompson



## 7 SIGNATORIES FROM ISRAEL

### 7 Signatories

- Dr. Gaby Avital
- Uriel Cohen
- Prof. Yonatan Dubi
- Yakov Itenberg
- Micha Klein
- Avner Niv
- Nir J. Shaviv

BE, CEng, FIChemE, PPSE, CEnv, MIEA, Challenger of Over-Reach in Environmental Legislation

Business Entrepreneur, Former Technical Director, CRH plc  
BAgricSc, MA, Animal Nutritionist

PhD in Aerospace, member of the Israeli forum for rational environmentalism

MSc in Computer Science from Technion - Israel Institute of Technology

PhD, Professor of Theoretical Physics and Chemistry at Ben-Gurion University, co-founder of the Israeli Forum For Rational Environmentalism

BSc of Meteorology and Climatology, MSc of Physics Education, 25 years reserve meteorological officer of Israeli Defense Forces Home Front Command

PhD, Emeritus Professor, The Department of Geography and Environmental Studies

PhD of Solid State Physics, Research scholarship awarded by Ministry of National Infrastructures, Energy and Water Resources. Industrial multidisciplinary experimental researcher

PhD in Physics at the Israel Institute of Technology, Professor of Physics at the Racah Institute at the The Hebrew University of Jerusalem



## 204 SIGNATORIES FROM ITALY

### 1 WCD Ambassador

- Alberto Prestininzi
- 203 Signatories
- Pietro Agostini
- Aldo Aluigi
- Piero Baldecchi
- Achille Balduzzi
- Antonio Ballarin
- Cesare Barbieri
- Donato Barone
- Sergio Bartalucci
- Giuseppe Basini
- Francesco Battaglia
- Marco Benini
- Eliseo Bertolasi
- Giorgio Bertucelli
- Alessandro Bettini
- Antonio Bianchini
- Luciano Biasini
- Mariano Bizzarri
- Paolo Blasi
- Enrico Bongiovanni

Professor of Geological Risks at Sapienza University of Rome, former Scientific Editor in Chief of the International Journal IJEGE, Director Research Centre CERI

Ingegnere, Associazione Scienziati e Tecnologi per la Ricerca Italiana  
Nuclear Engineer, Consultant in Power Plants, Cogeneration end District Heating

Lettore

Geologo, Agip-Eni

Fisico, "Chief Artificial Intelligence Officer" della Pubblica amministrazione

Professore Emerito di Astronomia, Università di Padova

Ingegnere

Fisico, Presidente Associazione Scienziati e Tecnologi per la Ricerca Italiana

Astrofisico, Deputato, Già dirigente di ricerca dell'INFN

Professore di Chimica Fisica, Università di Modena, Movimento Galileo 2001

Ingegnere idraulico, libero professionista

Dottore di Ricerca in Antropologia Culturale

Ingegnere, già Dirigente Industriale, ALDAI

Professore Emerito (Fisica) Università di Padova

Professore di Astronomia, Università di Padova

Emeritus Professor of Numerical and Graphic Calculations, Director of the Faculty of Mathematical, Physical and Natural Sciences of the University of Ferrara

PhD, M.D., is Professor of Clinical Pathology in the Department of Experimental Medicine at University Sapienza, Rome

Professore Emerito (Fisica) e già Rettore dell'Università di Firenze; già Presidente della Conferenza dei Rettori delle Università Italiane

Dottore Commercialista

## Italy continued

|                            |   |
|----------------------------|---|
| • Paolo Bonifazi           | Ex Direttore dell'Istituto di Fisica dello Spazio Interplanetario (IFSI) dell'Istituto Nazionale Astrofisica (INAF)   |
| • Roberto Bonucchi         | Insegnante in Pensione  |
| • Giampiero Borrielli      | Ingegnere   |
| • Francesca Bozzano        | Professore di Geologia Applicata, Università di Roma La Sapienza, Direttore del Centro di Ricerca Previsione, Prevenzione e Controllo Rischi Geologici (CERI)                     |
| • Antonio Brambati         | Professore di Sedimentologia, Università di Trieste, Responsabile Progetto Paleoclima-mare del PNRA, già Presidente Commissione Nazionale di Oceanografia                         |
| • Gianfranco Brignoli      | Geologo   |
| • Marcello Buccolini       | Professore di Geomorfologia, Università di Chieti-Pescara   |
| • Paolo Budetta            | Professore di Geologia Applicata, Università di Napoli  |
| • Antonio Maria Calabrò    | Ingegnere, Ricercatore, Consulente  |
| • Monia Calista            | Ricercatore di Geologia Applicata, Università di Chieti-Pescara   |
| • Massimo Canali           | Associate Professor of Agricultural Economics and Policy, Department of Agriculture and Food Sciences, University of Bologna  |
| • Dr. Andrea Capodaglio    | PhD, Professor, Environmental Engineering, University of Pavia  |
| • Cristiano Carabella      | Geologo, Borsista presso l'Università di Chieti   |
| • Peppe Caridi             |   |
| • Franco Casali            | Professore di Fisica, Università di Bologna e Accademia delle Scienze di Bologna  |
| • Andrea Casini            | Lifetime career in electronic engineering and radiocommunications, patent holder in wideband radio signals transmission over fiber optics, Member of The Climate Reality Project  |
| • Giuseppe Cautero         | MSc in Physics, head of the Instrumentation & Detectors Laboratory, Elettra Synchrotron radiation Source  |
| • Dr. Fausto Cavalli       | Agronomist, specialisation in meteorology   |
| • Giuliano Ceradelli       | Ingegnere e Climatologo, ALDAI  |
| • Augusta Vittoria Cerutti | Membro del Comitato Glaciologico Italiano   |
| • Franco di Cesare         | Dirigente, Agip-Eni   |
| • Alessandro Chiaudani     | PhD, Agronomo, Università di Chieti-Pescara   |
| • Luigi Chilin             | Dirigente in Pensione   |
| • Claudio Ciani            | Relazioni Internazionali, Scienza Politica, Università di Roma La Sapienza  |
| • Edoardo Cicali           | Member of the C.I.R.N (Italian Nuclear Relaunch Committee) and of the "Atoms for peace" association, former employee of a Radiological Medical Center. Currently in the IT sector |
| • Pino Cippitelli          | Geologo Agip-Eni  |
| • Carlo Colomba            |   |
| • Enrico Colombo           | Chimico, Dirigente Industriale  |
| • Vito Comencini           | Onorevole, Membro della Camera dei Deputati italiana dal 2018   |
| • Enrico Conti             | Physicist, Istituto Nazionale di Fisica Nucleare (INFN)   |
| • Ferruccio Cornicello     | Fotografo e Lettore di Studi sul Clima  |
| • Domenico Corradini       | Professore di Geologia Storica, Università di Modena  |
| • Carlo del Corso          | Ingegnere Chimico   |
| • Uberto Crescenti         | Professore Emerito di Geologia Applicata, Università di Chieti-Pescara, già Magnifico Rettore e Presidente della Società Geologica Italiana                                       |
| • Fulvio Crisciani         | Professore di Fluidodinamica Geofisica, Università di Trieste e Istituto Scienze Marine, Cnr, Trieste   |
| • Salvatore Custodero      |   |
| • Roberto d'Arielli        | Geologo, Borsista presso l'Università di Chieti   |
| • Francesco Dellacasa      | Ingegnere, Amministratore di Società nel Settore Energetico   |
| • Alessandro Demontis      | Perito Chimico Industriale, Tecnico per la Gestione delle Acque e delle Risorse Ambientali, Pomezia   |
| • Gandolfo Dominici        | PhD in Business Management, , Associate Professor of Business Management and Marketing, University of Palermo, Italy  |
| • Serena Doria             | Ricercatore di Probabilità e Statistica Matematica, Università di Chieti-Pescara  |
| • Carlo Esposito           | Professore di Rischi Geologici, Università di Roma La Sapienza  |

## Italy continued

|                            |  |
|----------------------------|--|
| • Gianluca Esposito        | Geologo  |
| • Prof. Stefano Falcinelli | PhD, Professor of Chemistry and Materials Technology, Department of Civil and Environmental Engineering, University of Perugia   |
| • Antonio Mario Federico   | Professore di Geotecnica, Politecnico di Bari  |
| • Aureliano Ferri          | Vicepresidente Associazione Piceno Tecnologie  |
| • Maurizio Fiorelli        | Sommelier Professionale, Studioso dell'evoluzione nella Coltivazione delle Vigne   |
| • Mario Floris             | Professore di Telerilevamento, Università di Padova  |
| • Gianni Fochi             | Chimico, Ricercatore in Pensione della Scuola Normale Superiore, Giornalista Scientifico   |
| • Sergio Fontanot          | Ingegnere  |
| • Luigi Fressoia           | Architetto Urbanista, Perugia  |
| • Mario Gaeta              | Professore di Vulcanologia, Università di Roma La Sapienza   |
| • Stefano Galli            | MSc. In Chemical Engineering, retired researcher   |
| • Sabino Gallo             | Ingegnere Nucleare e Scrittore Scientifico   |
| • Stefano Gallozzi         | Degree in Physics, Researcher at the INAF, Italian Institute for Astrophysics, Astronomical Observatory of Rome and presidente of the Safeguarding Astronomical Sky Foundation |
| • Giuseppe Gambolati       | Fellow della American Geophysical Union, Professore di Metodi Numerici, Università di Padova   |
| • Alessio del Gatto        | Liceo Scientifico, Collaboratore Attivita Solare.it  |
| • Rinaldo Genevois         | Professore di Geologia Applicata, Università di Padova   |
| • Umberto Gentili          | Fisico dell'ENEA, Climatologo per il Progetto Antartide, ora in pensione   |
| • Enrico Ghinato           | Perito Fisico  |
| • Mario Giaccio            | Professore di Tecnologia ed Economia delle Fonti di Energia, Università di Chieti-Pescara, già Preside della Facoltà di Economia   |
| • Daniela Giannessi        | Primo Ricercatore, IPCF-CNR, Pisa  |
| • Roberto Grassi           | Ingegnere, Amministratore G&G, Roma  |
| • Roberto Graziano         | Ricercatore di Geologia Stratigrafica e Paleoclimatologia/ Paleocceanografia, Università di Napoli, già Geologo presso il Servizio Geologico d'Italia                          |
| • Alberto Guidorzi         | Agronomo   |
| • Roberto Habel            | Professore di Fisica Medica, Università di Cagliari  |
| • Nicola Iacovone          | Physicist  |
| • Thomas Kukovec           | Tropical Agronomist and Subtropical Field Biologist, Scientific adviser and consultant in research-projects and learned societies  |
| • Alberto Lagi             | Ingegnere, Presidente di Società Ripristino Impianti Complessi Danneggiati   |
| • Dr. Francesco Lamberti   | PhD in Material Science of the University of Padova, working on next generation PV   |
| • Luciano Lepori           | Ricercatore IPCF-CNR, Pisa   |
| • Carlo Lombardi           | Professore di Impianti Nucleari, Politecnico di Milano   |
| • Walter Luini             | Geometra   |
| • Roberto Madrigali        | Meteorologo  |
| • Angelo Maggiora          | PhD, INFN Senior Researcher, more than 40 years Experience in Research at CERN, Saclay, Dubna and Frascati   |
| • Franco Maloberti         | Emeritus Professor, expert on microelectronics and modelling   |
| • Ettore Malpezzi          | Ingegnere  |
| • Vania Mancinelli         | Geologo, Borsista presso l'Università di Chieti  |
| • Ludovica Manusardi       | Fisico Nucleare e Giornalista Scientifico, UGIS  |
| • Luigi Marino             | Geologo, Centro Ricerca Previsione, Prevenzione e Controllo Rischi Geologici (CERI), Università di Roma La Sapienza  |
| • Maurizio Marsigli        | Graduated in Geological Sciences and science author on the Sun and Space Meteorology   |
| • Francesco Martelli       | Professor Emeritus of University of Florence, Former President of European Turbomachinery Society  |
| • Alessandro Martelli      | Ingegnere, già Dirigente ENEA  |
| • Paolo Martini            | consultant petroleum geologist with 30+ years of experience  |



## Italy continued

- Salvatore Martino  
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- Maria Massullo  
Tecnologa, ENEA-Casaccia, Roma
- Enrico Matteoli  
Primo Ricercatore, IPCF-CNR, Pisa
- Daniele Mazza  
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- Paul P.A. Mazza  
Associate Professor of Quaternary Geology and Paleontology and of Archeozoology, University of Florence
- Paolo Mazzanti  
Professore di Interferometria Satellitare, Università di Roma La Sapienza
- Adriano Mazzarella  
Professore di Meteorologia e Climatologia, Università di Napoli
- Marcello Mazzoleni  
Teacher and entrepreneur in the training sector, Fondatore del Website MeteoSincero
- Carlo Merli  
Professore di Tecnologie Ambientali, Università di Roma La Sapienza
- Enrico Miccadei  
Professore di Geografia Fisica e Geomorfologia, Università di Chieti-Pescara
- Gabriella Mincione  
Professore di Scienze e Tecniche di Medicina di Laboratorio, Università di Chieti-Pescara
- Umberto Minopoli  
Presidente dell'Associazione Italiana Nucleare
- Diego Minuto  
MSc Geology, Engineering Geologist, Italy
- Alberto Mirandola  
Professore di Energetica Applicata e Presidente Dottorato di Ricerca in Energetica, Università di Padova
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Professore di Ingegneria sanitaria-Ambientale, Università di Roma La Sapienza, già Preside della Facoltà di Ingegneria, già Presidente del Consiglio Superiore ai Lavori Pubblici
- Maurizio Montuoro  
Medico
- Maria Luisa Moriconi  
CNR researcher at Institute of Atmospheric Physics (retired) and associate to INAF until 2020
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Professore di Oceanografia, Università di Trieste, già Direttore del Dipartimento di Oceanografia, Istituto OGS, Trieste
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Researcher at Scientific Progress Fund, former Professor at the Pontifical Catholic University of Argentina
- Prof. Rinaldo Nicolich  
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- Daniela Novembre  
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- Francesco Oriolo  
Professore di Impianti Nucleari, Università di Pisa
- Paolo Emmanuele Orrù  
Professore di Geografia Fisica e Geomorfologia, Università di Cagliari
- Sergio Ortolani  
Professore di Astronomia e Astrofisica, Università di Padova
- Roberto Pagani  
Freelance Geologist
- Alessandro Pagano  
Geologist
- Giorgio Paglia  
Geologo, Borsista presso l'Università di Chieti
- Massimo Pallotta  
Primo Tecnologo, Istituto Nazionale Fisica Nucleare
- Antonio Panebianco  
Ingegnere
- Giuliano Panza  
Professor of Seismology, University of Trieste, Beno Gutenberg medal 2000, International Award of the American Geophysical Union in 2018
- Emanuele Paone  
BSc.(HONS) Geology, M.Sc Geology, Geologist
- Prof. Andrea Pardini  
PhD, University of Florence
- Antonio Pasculli  
Ricercatore di Geologia Applicata, Università di Chieti-Pescara
- 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
- Corrado Penna  
Docente di Matematica
- 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 Management, Politecnico di Torino e Università di Torino
- Tommaso Piacentini  
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## Italy continued

|                       |   |
|-----------------------|---|
| • Stefano de Pieri    | Ingegnere Energetico e Nucleare   |
| • Paolo M.J. Pilli    | Pensionato  |
| • Massimo Pilolli     | PhD Physics, Physicist, Meteorologist, Teacher  |
| • Stefano Piotto      | PhD in Chemistry, Associate professor in Chemistry at the University of Salerno   |
| • 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  |
| • Maurizio Rainisio   | Mathematician, Lifetime career in Clinical Development and Epidemiology   |
| • Mario Luigi Rainone | Professore di Geologia Applicata, Università di Chieti-Pescara  |
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| • Arturo Raspini      | Geologo, Ricercatore, Istituto di Geoscienze e Georisorse (IGG), Consiglio Nazionale delle Ricerche, Firenze  |
| • 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   |
| • Piergiorgio Rosso   | Ingegnere Chimico   |
| • Alberto Rota        | Ingegnere, Ricercatore presso CISE ed ENEL, Esperto di Energie Rinnovabili  |
| • Ettore Ruberti      | Ricercatore ENEA, Docente di Biologia Generale e Molecolare   |
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| • Massimo Salleolini  | Professore di Idrogeologia Applicata e Idrogeologia Ambientale, Università di Siena   |
| • Nicola Scafetta     | Professore di Fisica dell'Atmosfera e Oceanografia, Università di Napoli  |
| • Emanuele Scalcione  | Responsabile Servizio Agrometeorologico Regionale ALSIA, Basilicata   |
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| • 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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| • Emilio Stefani      | Professore di Patologia Vegetale, Università di Modena  |

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- Maria Grazia Tenti
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- Francesco Torre
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- Corrado Venturini
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- Mario Voltaggio
- Andrea Zaccone
- Luigi Zanutto
- Franco Zavatti
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Fisico  
Geologo  
Visiting Senior Scientist, Istituto Tumori d'Aviano, Movimento Galileo 2001  
Former Associate Professor of Geomorphology at the University of Bologna  
Fisico e Medico, Presidente Emerito dell'Associazione Italiana di Radioprotezione Medica, Movimento Galileo 2001  
Ingegnere e Scrittore Scientifico  
Dirigente di Ricerca, Istituto Nazionale di Geofisica e Vulcanologia, Roma  
PhD - Associate Professor of Solid and Structural Mechanics, University of Pisa  
Professore di Geologia Strutturale, Università di Bologna  
Honorary Professor of General Physics, DiSPeA, University Carlo Bo , Urbino  
Professore di Geochimica in Pensione dall'Università di Napoli; ora Professore Straordinario presso Università Telematica Pegaso, Napoli  
MSc in Geology, former first researcher CNR IGAG, retired  
Geologo, Dirigente Protezione Civile Regione Lombardia  
Docente in Pensione  
Ricercatore di Astronomia, Università di Bologna  
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### 6 Signatories

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- Mototaka Nakamura
- Dr. Hiroshi L. Tanaka
- Junji Yamamoto

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Professor of Earth Science, Kobe University, Japan  
Professional Engineer, studied Chemical Engineering, has been working in the areas of Environment, Energy, CVD and EHS  
Atmospheric and Oceanic Scientist (ScD in Meteorology, MIT)  
Professor in Atmospheric Science, Centre for Computational Sciences, University of Tsukuba  
PhD, Professor of Earth and Planetary Sciences, Kyushu University



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### 1 Signatory

- Mohammad A. AlKhamis

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

- Christoffel Schoneveld

Earth Scientist and Retired Shell Exploration Geophysicist



## 1 SIGNATORY FROM MALTA

### 1 Signatory

- Joseph Attard

Retired Scientist, PhD chemical engineering MSc Electronics Communication



## 5 SIGNATORIES FROM MEXICO

### 5 Signatories

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- Luis Frausto
- Armando Pérez

Master degree in Applied Economics, Industrial Engineer  
Chemical Engineer  
PhD, Urbanism, Expert in Sustainability and Energy Transitions

- prof. dr. Rumen Tsonchev
- Victor Manuel Velasco Herrera

PhD in Physics, Professor at Faculty of Physics, University of Zacatecas  
PhD, Space Engineer



## 1 SIGNATORY FROM NAMIBIA

### 1 Signatory

- Dr. Simon Idris Beshir

Cardiologist, currently involved in Green Project in Kalahari Desert



## 157 SIGNATORIES FROM NETHERLANDS

### 2 WCD Ambassadors

- Prof.Dr.Ir. Guus Berkhout
- Dr. Kees Lepair

Emeritus Professor of Geophysics, Delft University of Technology,  
Member of the Royal Netherlands Academy of Arts and Sciences  
Physicist, Former CEO Physics & Technology Research Organisations

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- Drs. Jan H. Akkerman
- Maarten van Andel
- Tjeerd Andringa
- Jan Asselbergs
- Dries Ausems
- René Bakers
- Dr. Thomas W. Bakker
- Nanda Josina Sofia Bakker -Ait Arrami
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MSc, Structural Geology, worked 19 years with Billiton in Mining and Geology and the last 20 years with DGA van Akkerman Exploration BV  
Author of the 'Groene Illusie'

MSc in Physics, PhD in Signal Processing, former Associate Professor of Sensory Cognition, Epistemologist

Mechanical Engineer who started his career with IHC. Since 1990 he is active in revitalizing medium sized companies

MSc, Earth Sciences, Lifetime Experience as Geologist in the Geo-Energy Industry

Former Lawyer and Attorney Liability and Insurance

Lifetime Experience in the Geo-energy Industry, Founder and former (or retired) CEO of Well Engineering Partners BV

MSc, MBA

Lifetime R&D Experience in Water Management with emphasis on water management in East Africa

Nuclear Physicist, Former Program Director Technology Foundation STW

Geologist dredging- and offshore industry and Royal Netherlands Navy Reserve (hydrography)

Bgen (b.d.), Member of the Provincial Council of Zuid Holland, Member of the Senate (Eerste Kamer) of the Dutch Parliament (the States General)

Retired Captain B747-400 with KLM, 35 years observational knowledge of the Earth's atmosphere

MSc and PhD Chemical Technology, University of Twente, Senior Scientist Chemical Engineering and Water Technology, Wetsus

Retired Officer Royal Dutch Air Force, now Climate Researcher

Professor-Emeritus steel constructions, TU Delft

Msc Integral Design and Management, teacher and researcher in design and decision systems at TU Delft

PhD in Physics, Secretary of the former Netherlands Energy Research Council, independent consultant (retired)

Emeritus Professor of Biochemistry, Radboud University, Nijmegen

Founder Speakers Academy Int. BV, Founder and CEO World of Consciousness.com, Co-Founder with Pim Fortuyn of the political party LPF.

MSc, Chemistry, Professional in Production Technology and Asset Management

retired, former Director Energy Transmission Company MEGALIMBURG

Msc in Physics, lifetime career in space instrumentation

Emeritus Professor of Pulmonary Physics, University of Amsterdam

Emeritus Professor of Product-driven Process Technology, University of Eindhoven and Former Member Management Committee Unilever Research, Vlaardingen

## Netherlands continued

- Dr. T.H.L. Claassen
- Prof.Dr. Paul Cliteur
- Albert J.H.G. Cloosterman
  
- Charles Coleman
- Marcel Crok
- Gerhard Diephuis
  
- Henck van Dijk
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- David E. Dirkse
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- Katharina Grimm
  
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- Paul de Groot
- Lex A. van Gunsteren
  
- Leo Halvers
  
- Hans Hamaker
  
- Maarten Hardon
  
- Eduard Harinck
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- Jan Holtrop†
  
- J.A.R. Hombroek
  
- Tom Hoornstra
- Jan Horstink
- A. Huijser

Aquatic Ecologist

Professor of Legal Sciences, Member of the Senate of The Netherlands

Retired Chemical Engineer, Publicist on Climate and Cosmological Matters

former executive Olivetti Group International

Climate Researcher and Science Journalist

MSc, Geosciences, specialized in Geophysics, Lifetime Experience in the Geo-Energy Industry, Guest Lecturer TU Delft

Sculptor, designer and innovator

Organic Chemist

Former Computer Engineer and Teacher Mathematics

MBA, Expert in Scenario Analysis and Risk Assessment, retired from AkzoNobel

ICT Process Coördinator

MSc Mechanical Engineering TU Delft, Design and Construction of gas / oil processing plants, Retired

Emeritus Professor Industrial Design Delft University of Technology, University of Twente and (Visiting Professor) Tsinghua University Beijing,

Process Technologist at Tata Steel, specialist on Thermodynamics and Fluid Mechanics

Emeritus Professor Erasmus University and Philosopher, Rotterdam

Physics at TU Delft, 40 years at Unilever (retired), [www.omdeaarde.nl](http://www.omdeaarde.nl)

Mechanical Engineer, Retired Researcher at ECN

PhD in complexity science/chemistry (TU Eindhoven) and social complexity/narrative scientist (self-employed)

Teacher in Physics

MSc, Geosciences, specialized in Reservoir Engineering

Former Vice President Unilever Global R&D

Consulting Geologist, 50+ years Global Experience

Oil & Gas Professional, Finance Adviser

Msc Agroecology and Sustainable Food Systems, Project Leader energy transition at the municipality of Epe

Former Director Upstream Research Lab. Shell

PhD, Geoscience, Manager dGB Earth Sciences

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

Former Director Billiton Research Arnhem and Former Director Technology Foundation STW

University Degree in Phonetic Sciences, expert in biomechanics of speech, supporter of plasma cosmology, former wireless communication officer

BSc, Civil Engineering, Lifetime Experience in Offshore Industry, Director Venty BV

Former Logistics Expert, Nedlloyd Group/KPMG Consulting

MSc, Geosciences, specialized in Geology, past Technical Director of the Dutch State Oil and Gas Company EBN

Msc in Civil Engineering TU Delft, President of Allseas, worldwide active in offshore pipelaying and platform lifting

Retired WUR Engineer Forestry Economics

Energy Transport Modeling Expert

Emeritus Professor of Petroleum Engineering, Delft University of Technology

MSc, Geoscience, Lifetime Experience in the International Geo-Energy Industry

Air-Conditioning Engineer

Earth Scientist, Exploration Projects Oil & Gas ME & FE

Physicist and Former CTO Royal Philips Electronics

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former director Sampo Industrial Insurance NV. Benelux and Electrorisk Verzekeringsmaatschappij N.V.
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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
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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
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MSc, former Principal Management Consultant Atos Consulting with specialisation Logistics, IT and Information Security
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Emeritus Professor of Energy Conversion, Delft University of Technology
- Hans H.J. Labohm  
Former Expert Reviewer IPCC
- Prof. dr. Cornelis A. de Lange  
Emeritus Professor of Atmospheric Chemistry and Physics, and Complex Modelling, Former Senator in the Dutch Senate
- Arjan Lenoir  
MSc Industrial Sciences
- Dr. ir. B.G. Linsen  
Former Director Unilever Research Vlaardingen
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Msc. Petroleum Engineering, lifetime experience in the international geo-energy industry
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- Ronald Luttkhuizen  
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 non-professionals
- 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
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Geologist
- Kees Pieters  
Mathematician, Former Operational Research and ICT manager at Shell
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MSc Applied Physics, MSc Development Studies, Sustainable Energy Management and Development Specialist
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Former IT Manager, Accredited Project Management Consultant and Trainer
- Paul Ras  
Msc Geophysics TU Delft, Geophysical Consultant, climate realist
- 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



## Netherlands continued

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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  
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- 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
- Bert Sigmond  
Geologist, Founder of EuGeNe Company in Geothermal Energy
- Prof.Dr.Ir. Jos de Smit  
Emeritus Professor of Stochastic Operations Research and Former Rector Magnificus of the University of Twente
- Hendrick Smit  
Chemical Engineer, specialised in Environmental Instrumentation
- Barend-Jan Smits  
Geologist, Former Director of Wintershall Nederland, BASF Group
- 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
- 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
- Dick Swart  
MSC, worldwide drilling expert, lifetime of experience in the geo-energy industry
- Dr. Harry C. M. de Swart  
Emeritus Professor of Logic and Language Analysis, University of Tilburg, Author of the book 'Philosophical and Mathematical Logic'
- 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
- Rob de Vos  
Geographer and Editor of "Klimaatgek"
- Bart Vos  
Msc Petroleum Engineering, Lifetime of Experience in the Geo-energy Industry
- 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"

## Netherlands continued

- Dr. André Wakker  
energy expert, lifetime experience in nuclear energy, speaker and writer on energy transition
- Karel Wakker  
Emeritus Professor of Astrodynamics & Geodynamics, Delft University of Technology
- 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
- 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 Zijdeveld  
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



## 25 SIGNATORIES FROM NEW ZEALAND

### 1 WCD Ambassador

- Barry Edward Brill  
OBE, Previously Minister of Science and Technology

### 24 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
- Doug Edmeades  
Managing Director agKnowledge Ltd.
- Joe Fone  
CAD Engineer, Enatel Ltd.
- Professor Michael J Kelly  
MA, PhD, SCD, MAE, Emeritus Prince Philip Professor of Technology at the University of Cambridge
- 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
- 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

## New Zealand continued

- Darag S. Rennie
- John Scarry
- John Sexton
- David Shelley
- David Steward
- Philip Strong
- Richard Treadgold
- Ian Wright

MBChB, Lifetime explorer of truth  
ME (Civil), Structural Engineer, Member of the New Zealand Climate Science Coalition  
Member of the New Zealand Climate Coalition  
Emeritus Associate Professor Geology and latterly Dean of Postgraduate Studies, University of Canterbury, Christchurch  
Electronic Engineer, Supporter of truth seeking in climate change  
Science Research Leader & Member of the New Zealand Climate Coalition  
Executive Member NZ Climate Scienc Coalition, Convenor Climate Conversation Group  
Professional Geologist



## 32 SIGNATORIES FROM NORWAY

### 2 WCD Ambassadors

- Ivar Giaever
- Jan-Erik Solheim

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  
Professor Emeritus Astrophysics, University of Tromsø – The Arctic University of Norway

### 30 Signatories

- Gunnar Abrahamsen
- Knut Åm
- Egil Bergsager
- Stein Sorlie Bergsmark
- Einar R. Bordewich
- Dr. Hans Borge
- Reidar Borgstrøm
- Dr. Erik Bye
- Ole Henrik Ellestad
- Jon Gulbrandsen
- Arve Gleissner Gustavsen
- Røgnvaldur Hannesson
- Geir Hasnes
- Martin Torvald Hovland
- Ole Humlum
- Morten Jødal†
- Dr. Ing. Hans Konrad Johnsen
- Olav Martin Kvalheim
- Arnfinn Langeland
- Mikael Lindgren
- Willy Nerdal

Professor Emeritus Soil Science, University of Life Sciences  
Retired Geoscientist, adjunct Professor of Geophysics at the University of Bergen, Norway, Honorary member of The Norwegian Academy of Technological Sciences  
MSc of UCLA and University of Oslo, Petroleum Geologist, Director Norwegian Petroleum Directorate, President Rogaland Science Park. Board member of advanced technology companies  
Phycisist, Former Head of Renewable Energy Studies Program-mes, University of Agder  
multidiscipline Engineering  
Associate Professor in Mathematics, University of Stavanger  
Professor Emeritus in Fishbiology and Nature Conservation, University of Life Sciences  
Retired Senior Scientist in Physical Chemistry, Crystallography, Chemometrics and Occupational Hygiene  
Physical Chemist. Former Research Director and Professor in Petrochemistry at the Centre for Industrial Research and University of Oslo  
PhD, Biologist, Associate Professor NOFIMA and NOAA (USA)  
Msc in Cybernetics, Lifelong Experience in Design and Engineering  
Professor Emeritus, Norwegian School of Economics  
Adjunct Associate Professor, Department of Engineering Cyber-netics, Norwegian University of Science and Technology  
Geophysical and Geological Advisor, Former Lecturer at Universi-ty of Tromsø  
Professor Emeritus in Physical Geography, University of Oslo  
Biologist, Former Employee of the Norwegian Research Council and the Centre for the Development and Environment at the University of Oslo. Passed away  
Emeritus Professor, Chemistry, Bergen University  
Professor Emeritus Biology, Norwegian University of Science and Technology  
MS Applied Phycs and electronics, PhD Chemical Physics, Prof Applied Physics (Optics) and Biophysics (spectroscopy)  
Professor of Chemistry, University of Bergen

## Norway continued

- Johannes Oraug
- Egil Pedersen
- Elen Roaldset
- Ulf Torgny Rock
- Gjertrud Røyland
- Håkon Gunnar Rueslåtten
- Tom V. Segalstad
- Einar Sletten
- Jørgen Stenersen

Landscape Architect, Researcher for 11 years at the Norwegian Institute for Urban and Regional Research

Dr. Eng. and Professor of Technology at UiT The Arctic University of Norway

Emeritus Professor in Geology, University of Oslo, Former Director of Natural History Museum Oslo, Professor at Norwegian University of Science and Technology

Master of Chemical Engineering, Norsk Hydro

Meteorologist with experience in operational forecasting (1997-2007) from the Norwegian Meteorological Institute.

Geological Researcher, Trondheim

Associate Professor Emeritus of Geochemistry, University of Oslo

PhD, Professor in the Dept of Chemistry, University of Bergen

Professor Emeritus Eco-Toxicology, University of Oslo



## 1 SIGNATORY FROM PARAGUAY

### 1 Signatory

- Albrecht Glatzle

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



## 2 SIGNATORIES FROM PHILIPPINES

### 2 Signatories

- Melanchthon Bernil
- Herman Bognot

Professional Chemical Engineer

MA in Philosophy, Assistant Professor, Department of European Languages, University of the Philippines Diliman



## 4 SIGNATORIES FROM POLAND

### 4 Signatories

- Marek Boinski
- Zbigniew Gidzinski
- Jaroslaw Grzesik
- Dominik Kolorz

Chairman of the National Section of Energy Workers' Union NSZZ

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

Chairman of the National Secretariat of Mine and Energy Workers' Union NSZZ

Chairman of the Slasko-Dabrowski Region of NSZZ



## 10 SIGNATORIES FROM PORTUGAL

### 1 WCD Ambassador

- Dr. Peter Stallnga

Professor Associado com Agregação, Universidade do Algarve, Portugal, Faculty of Sciences and Technology, Department of Electronic Engineering and Informatics

### 9 Signatories

- Demétrio Carlos Alves
- José Araújo
- Rui Cruz
- Pieter IJzerman
- Prof. Dr. Igor Khmelinskii
- Joao Manuel Silva Martins
- Pamela Matlack-Klein
- José Pinto de Sá

Chemical Engineer, specialized in Processes and Systems, Postgraduate in Legal Issues of Urban Planning, University of Lisbon  
Environmental Engineer, Airline Pilot.

Pharmaceutical Development Scientist, PhD In Chemical and Biological Engineering (Material Science Focus for Solar Energy Applications)

entrepreneur in modern energy solutions and electric mobility

Aggregate Professor of Physical Chemistry, University of Algarve, discoverer of long-range energy transfer in biological systems

retired agrarian researcher

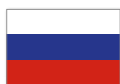
Member of Portuguese Sea Level Project, USA

PhD in Electrical and Computers Engineering, Professor of Power Systems (Electrical and Computers Engineering), Instituto Superior Técnico, Lisbon

## Portugal continued

- João José Rodrigues Tilly

Mechanical Engineer and Maths teacher



## 8 SIGNATORIES FROM RUSSIA

### 8 Signatories

- Habibullo Abdussamatov
- Prof. Vladimir N. Bashkin
- Pavel Bizyukov
- Gleb I. Evgenev
- Vladimir G. Kossobokov
- Eugene Nagibin
- Henni Ouerdane
- Dr. Michael Petelin

Head of the Space Research Sector of the Sun, Pulkova Observatory RAS and Head of the Lunar Observatory Project on Monitoring of the Climate

Professor in Biogeochemistry, Principal Researcher of the Institute of Physicochemical and Biological problems of Soil Science of RAS, Moscow

PhD in Metallurgical Engineering, faculty member at Moscow State Institute of Steel and Alloys

Professor of Environment, Moscow State Technical University (MADI)

Chief Scientist, Professor Expert, Russian Academy of Sciences

MA in Economics, CIR, Territorial Development and Management Consultant

PhD in Physics, Associate Professor with extensive experience in the physics of energy conversion and the related technologies

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
- Dr. Lars Schernikau

offshore drilling, earth sciences and renewables

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

- Borut Bohanec
- Tadej Ian
- Ján Lakota
- Rafael Mihalič

Emeritus Professor of Biotechnology, active to explain major missinterpretations of scientific discoveries

MA, owner of a green-roof business, political publicist/columnist, and expert in international relations

MD, PhD molecular biology

Professor of Electrical Engineering, University of Ljubljana



## 12 SIGNATORIES FROM SOUTH AFRICA

### 12 Signatories

- Dr. Henrique J.S. de Barros

Geologist, Invited Associate Professor, Universidade Fernando Pessoa, Porto, Portugal

## South Africa continued

- Rosemary Falcon
- Dennis Shaun Garisch
- Dr. Hans Hofmann-Reinecke
- Rob Jeffrey
- Kelvin Kemm
- Dr. John Ledger
- Prof. Richard Meissner
- Don Mingay
- Professor Martin R. Sharpe
- Jacques Theron
- Geert F de Vries

Emeritus Professor Clean Coal Technology Research Group at the University of Witwatersrand, Director Fossil Fuel Foundation

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

nuclear physicist, author of several books “Grün und Dumm”, articles and videos on global warming and alternative energies for the general public

Economic Risk Consultant: Senior Economist and Managing Consultant, leading expert in energy and electricity

PhD, Nuclear Physicist, CEO Nuclear Africa, Pretoria

Visiting Associate Professor at the University of the Witwatersrand, Energy and Environmental Consultant, Consulting Editor, Freelance Writer, Editor and Lecturer

Associate Professor, Department of Political Sciences, University of South Africa

Retired Professor of Nuclear Physics

PhD from University of Exeter, retired Geologist, Geochemist, Analyst and Field Mapper at University of Pretoria, Founder of geological consulting and exploration companies

Retired Veterinarian

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
- Raquel Barquero
- Dr. Saúl Blanco
- Ferran Brunet
- Antonio de la Hoz
- Aitor Ercilla
- Maria Teresa Estevan Bolea
- José-Ramón Ferrandis
- Juan Miguel Gómez Menor Robles
- Antonio J. Huertas
- Isabel López García
- Alexander Keith Martin
- Jose Manuel Miranda Lopez

Engineer and Project Leader within Clean Aviation

PhD, lifetime career as nuclear engineer and medical physicist in Valladolid University Clinical Hospital

Associate Professor of Ecology at the University of León

Professor on the European Economy, Unniversitat Autònoma de Barcelona

BSc in in Business and International Economics, activist and expert in economics and political implications of causes and consequences of climate change

climate historian and computer scientist. Researches the importance of climate change in social processes

Engineering award 2019 Royal Spanish Academy of Engineering, World Award 2018 In Engineering WFEO, National Prize in Industrial Engineering 2019

Analyst, Writer, Communicator

PhD in Biology (Botany), High School Head of Department.

Engineer with 35 years experience in Energy Politics and Operation, and Environmental Care

PhD on Chemical Engineering, Assistant Professor of Physical Chemistry and applied Thermodynamics , University of Córdoba

PhD Geology and Geophysics, Consultant geologist

PhD, Professor at the University Santiago de Compostela , Department of Analytical Chemistry, Nutrition and Bromatology



## Spain continued

- 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 CO<sub>2</sub> 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
- 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



## 47 SIGNATORIES FROM SWEDEN

### 1 WCD Ambassador

- Ingemar Nordin  
Emeritus Professor Philosophy of Science, Linköping University

### 46 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 Dalvåg  
Msc, Physics, Research Engineer in Hydrodynamics and Thermodynamics, Senior Advisor in Environmental Standards, Author of 'CO<sub>2</sub> 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

## Sweden continued

- Sten Kaijser  
Emeritus Professor of Mathematics, Uppsala University
- 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
- 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  
Professor Emeritus in Oceanography at University of Gothenburg
- Elsa Widding  
Consultant, Author on Climate Change, Stockholm
- Lech Wosinski  
Researcher Emeritus, Associate Professor, Royal Institute of Technology, Stockholm
- Orjan Wrangé  
PhD, Emeritus Professor in molecular Genetics Karolinska Institutet, Stockholm, Sweden



## 21 SIGNATORIES FROM SWITZERLAND

### 21 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 amateur researcher in realistic climate science for more than 10 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

## Switzerland continued

- Claude Roessiger
- Heinz Schmid
- Dr. Ralf Lorenz Schmitt
- Thomas Stadler
- Prof. Dr. Eric P. Verrecchia

- Dr. Eric Vieira

Entrepreneur and Author of several Books on Organizational Management and Public Policy, Organiser and Chairman of the Portsmouth Conference 2018 on Climate Policies

Dipl. Ing. Agr ETH, more than 10 years involvement in climate science and climate communication

PhD in Chemistry, Product Manager

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

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

(retired), Ph.D (organic chemistry), 27 years at Roche Pharmaceuticals (Principal Scientist)



## 3 SIGNATORIES FROM TURKEY

### 3 Signatories

- Prof. Kerem Cankocak
- Ufuk Coscun
- Andrew Cullen

Professor in Particle Physics at Istanbul Technical University, author of more than 200 books in different scientific areas

columnist at Milat Newspaper

Ph.D Geography



## 2 SIGNATORIES FROM UKRAINE

### 2 Signatories

- Vsevolod Lozitsky
- Irina Vasiljeva

DrSci, Astronomical Observatory of Taras Shevchenko National University of Kyiv, expert in solar physics, solar activity and magnetic field, and solar-terrestrial connections

CSc, Research Fellow at the Main Astronomical Observatory of National Academy of Science of Ukraine, research interests include solar physics



## 164 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

### 163 Signatories

- Tom Agbabi
- Colin Andress
- Neils C. Arveschoug
- Nigel Banks
- Andrew P. Barker
- John Anthony Barney
- Nik Bartley
- Nigel Beckwith
- Alan Richard Belk
- Roshan Bhunnoo
- Paul Binns
- David Blake
- David Bodecott
- Dr. Richard Booth
- D.Q. Bowen
- Dr Phillip A. W. Bratby

PhD, Professional engineer in the energy industry

BSc Physics, MSc Astrophysics, MA (Oxon) Classics & Philosophy, Barrister, Fellow of the Royal Astronomical Society

Geophysicist, Private start-up Oil E&P Company

PhD Geology, Petroleum Geologist

Biological Chemist

Retired Scientist and Technologist

Mechanical Engineer

professional graduate Podiatrist, Post Grad. in Sports Science, Post Grad. in Science Education

retired Mechanical Engineer with a 40+ year international career in energy, industrial gas and chemical industries

Mathematics and Statistics, former Climate Data Analyst at the Meteorological Office

Former Research Geoscientist and Climate Researcher

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

Geologist/Geophysicist, Fellow of the Geological Society of London

retired Special Merit mathematician in the UK Civil Service

Emeritus Professor of Earth and Ocean Sciences, Fellow International Union for Quaternary Research, Cardiff University

Physicist, Member of the Institute of Nuclear Engineers, retired energy consultant

## United Kingdom continued

|  |   |
|--|---|
| <ul style="list-style-type: none"> <li>• Michael Brown</li> <li>• Paul Burgess</li> <li>• Derrick Byford</li> </ul>  | <p>Expert in Large Scale Thermal Fluid Dynamic Models</p> <p>BSc, MSc, C. Eng (retired) Hydro Climate Specialist</p> <p>BSc (Hons) holder of 10 patents, previously Deputy Director Research &amp; Statistics Inner London Education Authority</p>  |
| <ul style="list-style-type: none"> <li>• Gerry Byron</li> <li>• Peter Cale</li> </ul>  | <p>BSc in Physics, MBA which included modules on statistical analysis</p> <p>Solicitor, co founder and fund raiser for wave energy research project as Director of Staithe Energy Products (1988 1995)</p>  |
| <ul style="list-style-type: none"> <li>• George Carey</li> </ul>   | <p>BSc Hons. Physics and Geology, Lifetime Physics teacher and amateur astronomer</p>   |
| <ul style="list-style-type: none"> <li>• Brian R. Catt</li> </ul>  | <p>Electrical Engineer, Retired, publishing papers on Energy and Climate Change</p>   |
| <ul style="list-style-type: none"> <li>• Richard Ceen</li> </ul>   | <p>BSc Physical Oceanography with Physics, entrepreneur / engineer in Marine LNG Safety and Weather forecast dependent Optimising Voyage Control Systems</p>  |
| <ul style="list-style-type: none"> <li>• Arthur Champion</li> </ul>  | <p>retired European Environmental Coordinator and CofE Diocesan Environmental Adviser</p>   |
| <ul style="list-style-type: none"> <li>• John Church</li> <li>• David Coe</li> </ul>   | <p>Earth Science Professional, Retired from Energy Sector</p> <p>MA(Oxon) in Physics, lifetime working on gaseous absorption spectroscopy, Lead author of “The Impact of CO<sub>2</sub>, H<sub>2</sub>O and Other Greenhouse Gases on Equilibrium Earth Temperatures”</p>   |
| <ul style="list-style-type: none"> <li>• Professor John C.W. Cope</li> <li>• Dr. Douglas Cormack</li> </ul>  | <p>Professor of Geology, National Museum Wales, Cardiff</p> <p>BSc in Chemistry, Maths, Physics and Microbiology, PhD in Physical Chemistry, Chief at Scientific Civil Service, Founder of the website “The campaign against belief consensus”</p>  |
| <ul style="list-style-type: none"> <li>• Richard Courtney</li> <li>• Chas Cowie</li> </ul>   | <p>Retired Material Scientist, Expert Peer Reviewer of the IPCC</p> <p>GDE Mining Engineering, Wits University, Retired IT Professional worked primarily in Mining and Logistics Industries</p>   |
| <ul style="list-style-type: none"> <li>• Dr. David Critchley</li> </ul>  | <p>Senior Clinical Pharmacologist, mathematical modelling of complex systems</p>  |
| <ul style="list-style-type: none"> <li>• Michael Cross</li> <li>• Peter Cunningham</li> <li>• Robert Davies</li> <li>• Isabel Davies</li> <li>• Dr Philip George Davies</li> </ul> | <p>Chemical Engineer</p> <p>Expert in Mathematical Modelling of Complex Physical Phenomena</p> <p>BSc Airline pilot</p> <p>Geophysicist and Entrepreneur</p>  |
| <ul style="list-style-type: none"> <li>• Jeremy Dawson</li> <li>• Dr. Keith P. Dawson</li> <li>• John Dewey</li> </ul>   | <p>Principal Lecturer in the Department of Computing and Informatics at Bournemouth University</p> <p>retired Chartered Engineer with a career in the oil and gas industries</p>  |
| <ul style="list-style-type: none"> <li>• Howard Dewhirst</li> </ul>  | <p>Environmental and Agricultural Researcher</p>  |
| <ul style="list-style-type: none"> <li>• James Dillon</li> <li>• Gregor Dixon</li> <li>• Peter Dorey</li> </ul>  | <p>Emeritus Professor of Geology at the University College Oxford, Distinguished Emeritus Professor University of California,</p> <p>FGS, Geologist, Initiator Open Letter to the Geological Society of London</p> <p>BSc Physics, DPhil Nuclear Physics, Former research physicist</p> <p>FGS, Geologist, Former Member Geological Society of London</p> <p>BSc Physics, Senior Project Manager, (and unpaid educator &amp; Climate Scientist)</p> |
| <ul style="list-style-type: none"> <li>• Timothy (Tim) C. Duckworth</li> </ul>   | <p>Retired Mechanical Engineer in the Oil &amp; Gas industry, Senior Auditor in Management/Facility/HSE</p>   |
| <ul style="list-style-type: none"> <li>• Dr. Michael Earle</li> <li>• Dr. John S. Easterby</li> </ul>  | <p>international earth scientist, energy professional, author</p> <p>Retired Senior Lecturer in Biochemistry University of Liverpool, Research area: Protein chemistry, Enzymology, Metabolic Modelling</p>   |
| <ul style="list-style-type: none"> <li>• Roderick Paul Eaton</li> </ul>  | <p>MBA FIET MCMI, Retired Consultant Energy Industry Analyst/Management Consultant</p>  |
| <ul style="list-style-type: none"> <li>• Debra Eddy</li> <li>• Dr. Andrew Edmonds</li> </ul>   | <p>Entrepreneur and Guest Lecturer in Business Management</p> <p>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</p>   |
| <ul style="list-style-type: none"> <li>• Peter Etherington-Smith</li> </ul>  | <p>Geologist/Oceanographer, Coral Reef Researcher, MSc Petroleum Engineering (Imperial), life-time international experience in developing countries, retired from BG</p>  |
| <ul style="list-style-type: none"> <li>• Kevin Foo</li> </ul>  | <p>MSc, DIC, Dip. Met, AusIMM, IOM3, SME, Ch.Eng., President Tianshan Jade (UK) Ltd</p>   |

## United Kingdom continued

- 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
- Gil Gilchrist  
Geophysicist
- Peter Gill  
Physicist, Ex Chair Institute of Physics Energy Group, Ex London Branch Chair & Fellow of EI
- Alan Gill  
Retired Engineer in South Wales
- 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
- Mick Greenway  
Research and Development of Flight Control Systems for Modern Civil 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
- Stephen Hardcastle  
Retired Electronics Engineer, 10 years experience in the design of NDIR gas detectors, for gases including CFC's CO<sub>2</sub>, CH<sub>4</sub> and N<sub>2</sub>O
- 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
- Tim Harper  
Geomechanics Consultant and Researcher, previous Recipient of the 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
- Robert Heath  
Retired Geophysicist, Honorary member of the Indian Society of Petroleum Geologists
- 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
- David A.L. Jenkins  
Geologist, Director Hurricane Energy plc
- Dr. Chris Jesshope  
Emeritus Professor University of Amsterdam, Director Techne 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
- Zana Juppenlatz  
Consultant in environment, environmental law and sustainability, including renewable energy projects
- John L.D. Kerr  
B.A. (Hons) in Environmental Science & Technology; B.Sc. (Hons) in Chemistry, active as Environmental Consultant

## United Kingdom continued

- Stephen King  
Experienced technically trained chemical engineer with experience in environmental consideration of major petrochemical projects, including technical and economic aspects
- David A. Kirkwood  
MSc MIET, Professional engineer working in IT, Deputy Chairman of Reform UK Scotland
- 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
- Chris Matchette-Downes  
Geologist and Geochemist, particularly involved in studies about past climates including glaciation
- William James McAuley  
M.Sc. from Imperial College and an M.B.A. from Lehigh University, 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  
retired Mechanical Engineer in Turbine Generator Industry. Retired 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, Social 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, co-author 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
- Blair Nimmo  
Electronic Engineer, working in Computer Networking and Optical 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
- Peter Owen  
FGS, Fellow of the Geological Society of London
- 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 Manchester
- Peter Phillips  
BSc Hons Mechanical Engineering, lifetime experience in the geo-energy industry
- Graeme Phipps  
geologist and geophysicist, Jersey Channel Islands



## United Kingdom continued

- Dr. James Pindell  
Geologist, specialised in plate tectonics and palaeographic evolution, Director of Tectonic Analysis Ltd (UK), Adjunct Professor at Rice University (USA)
- Gerry A. Quinn  
Research Scientist, Ulster University, lifetime career in microbiology, biochemistry and environmentalism
- Clive Randle  
Geologist, Fellow of the Geological Society of London
- 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
- Mike Stigwood  
Environmental Researcher
- 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
- Ivor Zoeftig  
International communications coach specialised in chaodynamics and NLP LP



## 437 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

### 435 Signatories

- 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
- Michael Anderson BS Chemical Engineering, PhD Information Science, writes about contemporary American politics, including global warming
- Lincoln Anderson Macroeconomist and Econometric Model Development
- 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
- Hans-Peter Bähr Emeritus Professor of Pharmacology, Canada and Former Dean of Basic Medical Sciences, American University of Barbados, Barbados
- George Baker Emeritus Professor, Applied Science, James Madison University
- 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
- Scott Beattie Juris Doctor Degree (Law), studied history of science for 25 years and climate science for ten years
- James Beilman ASBOG Licensed Environmental Geologist
- Dr. Ernest Calvin Beisner 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 earth science research including flooding studies
- David J. Benard Chemical Physicist & Co-inventor of the Oxygen-iodine Chemical Laser
- Haym Benaroya Distinguished Professor of Mechanical and Aerospace Engineering, Rutgers University
- 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.

## United States of America continued

- Robin Bernhoft MD, FACS, FAAEM, retired liver and pancreatic surgeon, retired clinical toxicologist, author of 3 books, 28 peer-reviewed papers
- Edward X. Berry PhD, Atmospheric Physicist, American Meteorological Society, Author, Climate Physics LLC
- Ronald Berti lifetime career in the semiconductor industry
- Brent J. Bielema studied Economics at Northern Illinois University, professional nutritional counselor
- 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
- Thomas Lindsay Blanton PhD in Tectonophysics, Texas A&M University, Consultant in geomechanics specializing in compaction, subsidence, and lithospheric stress determination
- Elliott D. Bloom Emeritus Professor of Particle Physics and Astrophysics, KIPAC-SLAG, Stanford University
- David Boleneus Professional Geologist
- Daniel Botkin Emeritus Professor of Biology, Climate Researcher, Author of the Book: Twenty-five Myths That Are Destroying the Environment
- Dr. Walter Bradley 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 BS Natural Sciences, scientific instruments
- Joel M.G. Brown retired petroleum engineer
- Dr. Larry Frank Brown PhD in Range Plant Ecology (Ecophysiology) from Colorado State University (1974), President of L.F. Brown & Assoc. Inc.
- James Brucher technology and business consultant for over 30-years in the telecommunications, transportation, aerospace, software, defense, manufacturing, and biotechnology industries.
- 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, now Senior Fellow Heartland Institute
- 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
- Roger Caiazza Pollution Meteorologist, life time experience in the electric generating business, retired Director of the Environmental Energy Alliance of New York
- Ron Cakebread mechanical engineer with 35 years in the industrial automation business; experience in modeling, simulation, and analysis of very complex systems
- Sharon R. Camp PhD, Retired Analytical Chemist and Environmental Scientist
- Nick Capaldi PhD, Author Books on Logic, the Scientific Method and the Philosophy of Science

## United States of America continued

- John M. Cape  
P.E. former military officer and economics instructor at West Point, Licensed Professional Engineer, Energy Consultant - Upstream Oil and Gas, now writing Net Zero themed novels
- John Carr  
Electronic Engineer, specialised in antenna and satellite installations
- Marion G. Ceruti  
PhD Chemistry, Retired Research Scientist, Space and Naval Warfare Systems Center Pacific
- Dr. Francis Cheng  
Professor of Chemistry with specialties in carbon materials, batteries and energy conversion, University of Idaho
- Mitchell R. Childress  
Archaeologist and Cultural Resource Environmental Compliance Specialist, Commonwealth Heritage Group
- Prof. Krishnan Chittur  
emeritus-professor in chemical engineering and biotech, Univ of ALabama Huntsville, cofounder of medical diagnostics startup (genecapture)
- Terigi Ciccone  
Engineer, author of "A Hitchhiker's Journey Through Climate Change," and a proud former Sierra Club member
- Prof. Claudio Cioffi-Revilla  
PhD, DSc Pol, University Professor Emeritus at George Mason University
- Roy Clark  
Climate Researcher, Retired Engineer, California
- Bob Cohen  
Certified Consulting Meteorologist (CCM), MS in physical oceanography from Texas A&M University and a BS in meteorology from Penn State University
- Dr. Richard Collingham  
PhD in Engineering, Professor for 16 years teaching Graduate Level Heat Transfer and Fluid flow courses
- David Collum  
PhD in Chemistry, Professor of Chemistry (organic/organometallic chemistry)
- Sabin W. Colton  
PhD, Biochemist and Marine Biologist
- Michael Combs  
Major, US Air Force, Retired; Retired Lockheed Missiles and Space Company Environmental Protection Auditor
- Gary Cooke  
MSc. Geophysical Sciences, Laboratory analyst and manager, studied sea level curves since the 1980s
- George Copeland  
PhD, Electrical Engineering, Computer Architect, Software Architect, Physicist, retired
- Martin Cornell  
Retired Senior Scientist, Dow Chemical Company
- David T. Cramer  
MS, Instructor of Sociology and Psychology, Pratt Community College
- Daniel Clyde Cummings  
M.D. University of Utah School of Medicine, B.A. mathematics, political advocate against all treaties and most legislative proposals to limit use of fossil fuels
- John Curtin  
Msc in Economics, lifetime experience in strategic planning and forecasting
- Joseph S. D'aleo  
Professor of Meteorology and Climatology at Lyndon Stage College, Founder of Icecap.us, First Director of meteorology of the Weather Channel
- Raphael D'Alonzo  
Analytical Chemist, Retired Associate Director, the Proctor & Gamble Company
- Stephen Dartt  
Retired from 19 years of Chemical Engineering and from 24 years of Teaching Mathematics, Physics, Chemistry & Applied Statistics.
- George Davey  
Physicist, University of Iowa
- Donn Dears  
GE Company Engineer, and Senior Executive, Retired, Author of 'Net-zero Carbon, The Climate Policy Destroying America'
- Ken DeGraaf  
MSc Engineering Mechanics, Structural Dynamics, Colorado House of Representatives, USAF pilot, Instructor: USAFA AP Calc; weather for pilots, Environmental Manager, Michigan ANG
- James DeMeo  
PhD, Retired Expert in Earth and Atmospheric Science, Oregon
- David Deming  
Professor of Arts & Sciences, University of Oklahoma
- Maaneli Derakhshani  
Ph.D in theoretical physics and philosophy of physics, Postdoctoral researcher in theoretical physics and philosophy of physics at Rutgers University--New Brunswick
- William Robert Detzner  
retired special education teacher, fighter against the continuing reduction of personal freedom
- David Dilley  
MSc, Meteorologist-Climatologist-Paleoclimatologist, CEO Global Weather Oscillations Inc.
- M.D. Robert G. Dillon  
retired physician and astronomist

## United States of America continued

|                             |  |
|-----------------------------|--|
| • Robert G. Dodge           | Attorney   |
| • Pedro Domingos            | Emeritus Professor of Computer Science and Engineering, leading AI researcher  |
| • Terry Donze               | BS-Geological Engineering, Lifetime Career in Geophysical Consulting   |
| • Michael Down              | Petroleum Engineer, lifetime experience in the geo-energy industry   |
| • Jack D. Downing           | Geologist and Geophysicist   |
| • 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)  |
| • Stephen Einhorn           | MSc in Chemistry, author of Climate Change: What they Rarely Teach 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  |
| • Vincent Esposito          | Adjunct Professor University of Pittsburg, PA, Doctor of Science in Nuclear Engineering (Un. Fo Viginia), Retired Manager from Westinghouse Electric Company |
| • Douglas Fairbent          | Retired Physicist trained in Condensed Matter Theory, PhD (Physics), University of Michigan, 1978  |
| • 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   |
| • Patrick Frank             | PhD, SLAC National Accelerator Laboratory, Stanford University   |
| • Dr. Neil Frank            | Lifetime of Experience in Research and Forecasting in Tropical Meteorology, Former Director National Hurricane Center  |
| • 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   |

## United States of America continued

- Dr. Philip Garrou  
PhD Chemistry 1974 Indiana 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](http://www.LitStrat.com)
- Nicholas de Gennaro  
PhD, PE, Coastal Engineer, Southport North Carolina
- Prof. Lee C. Gerhard  
PhD. in Geology, Retired Getty Professor of Geological Engineering from the Colorado School of Mines and Retired Director and State Geologist of the Kansas Geological Survey
- Ulrich H. Gerlach  
Professor of Mathematics, Ohio State University
- Thomas A. Gilliam  
PhD, Professor of Accounting, Retired
- Alan Glabe  
PhD Organic Chemistry, University of California, Retired
- Dr. William Glassco  
PhD in Medicinal Chemistry, former researcher, currently Instructor
- Curtis Fred Goddard  
Retired Geologist
- Dr. Indur M. Goklany  
Science policy advisor in the US Dept of Interior, Co-developed the work plan for the IPCC's 1st, 2nd, 4th Assm. Reports, Expert Reviewer for several IPCC reports
- Dr. J.D. Gold  
lifetime experience in Clinical Psychology; worked in the frontlines of the war against the madness of terrifying people
- Leo Goldstein  
MSc in Mathematics, lifetime experience in computer software, computer networks and cyber security. He is also a successful author and start-up founder
- Derek Gordon  
CEO HTS Engineering
- Timothy W. Gordon  
Retired USAF/USN Veteran, Independent Researcher
- Steve Goreham  
Executive Director, Climate Science Coalition of America
- Laurence I. Gould  
Professor of Physics, University of Hartford, Past Chair, New England Section of the American Physical Society
- Ronald Graham  
Retired Scientist in Physics, Chemistry and Complex Modeling
- Jim Granato  
Dean of the Hobby School of Public Affairs, University of Houston, lifetime career in research methodology
- William Griffin  
Staff Oceanographer US Naval Forces Korea
- Charles F. Gritzner  
PhD, Professor Emeritus of Geography, author of the book "Changing Climates" (2010)
- Mike Gruntman  
Professor of Astronautics, Space Physics and Space Technology, Space and Rocket History, University of Southern California
- Thomas Gyorog  
P.E., Project Manager and Designer of transportation infrastructure projects
- Kenneth Haapala  
President of the Science and Environmental Policy Project (SEPP), Contributor to the NPCC reports. Energy and Economics Modeler
- Kent Halac  
BS Mechanical Engineering, Masters Nuclear Engineering, Executive Masters of Technology Management, Commercial Nuclear Power (Carbon Free Energy)
- Stephen Hallin  
Retired from Atmospheric Science (BA 81 MS 91)
- Dale B. Halling  
BSEE, MS Physics, JD, Retire Patent Attorney
- Lyle W. Hancock  
Professional Mathematician
- Kip Hansen  
Independent Science Research Journalist
- Dr. William Happer  
Professor Emeritus in the Department of Physics at Princeton University
- Brett T. Harding  
Materials Scientist in Sustainable Technology, over 20 granted patents in nanoceramics, OLED, photocatalyst, optical devices, and related materials
- Steven Harford  
PhD chemistry and lifetime career in renewable energy and aerospace research
- Richard Harris  
PhD, atmospheric physics and chemistry as applied to radiation transport modeling, laser propagation, high power microwave propagation
- Ilana Harrus  
PhD Physics, MS In Information Systems, Former Senior Research Scientist Senior Research Scientist NASA Goddard Space Flight Center
- Korbi Hart  
Marketing Director Inland Crude Purchasing
- Peter J. Hatgelakas  
Masters in Petroleum Engineering, petroleum geologist, geophysicist, and petroleum engineer at Hatgelakas Consulting
- Bryan Haycock  
PhD, Adjunct Faculty at a University in the state of Utah



## United States of America continued

|                              |   |
|------------------------------|---|
| • Howard C. Hayden           | Emeritus Professor of Physics, University of Connecticut  |
| • David Heald                | Retired Electrical Engineer   |
| • Donald R. Healy            | BS, Degree in Forest Management from Oregon State University, Participated in Anthony Watts' first Surface Station Project  |
| • Dennis E. Hedke            | CEO-Hedke Geoscience Consulting, LLC, presented the 2018 testimony on Seal Level Rise before the Committee on Environmental Protection of the New York City Council       |
| • Tony Heller                | Geologist, electrical engineer, climate communicator at realclimatescience.com  |
| • Edward G. Helmig           | Environmental Engineering Professional in the field of Industrial Water Treatment and Environmental Protection  |
| • Oliver Hemmers             | Retired Executive Director of the Harry Reid Center at the University of Nevada, Las Vegas  |
| • James D. Henry             | Consulting Geologist, BS Geology, U Texas Austin, 1970, founder of Old Aulacogen, L.P. in 1991  |
| • Glenn C. Hillam            | Big Data Architect/Scientist  |
| • Gary L. Hoe                | PE, Retired Colonel USAF, Technical Director of several Nuclear Weapon Effects Tests at the Nevada Test Site, Member Scientists for Accurate Radiation Information (SARI) |
| • Aaron Hogue                | PhD, Associate Professor, Department of Biological Sciences, Salisbury University   |
| • Jim Hollingworth           | Social Scientist, Book: 'Climate Change: A Convenient Truth'  |
| • Dr. Gary M. Hoover         | Geophysicist, Lifetime Experience in the Geo-Energy Industry, Retired Member Board of Directors Geo-Service Company   |
| • Christopher Paul Horger    | lifetime experience in optical network design   |
| • Jerry C Hornbuckle         | Retired Rocket Scientist  |
| • Walter Horsting            | Energy Expert, CEO of Global Village Utilities, Large Technology Projects Developer for 4th generation Thorium applications.  |
| • Captain Thomas C. Houghton | USNR (Rtd), Qualified Nuclear Engineering Officer; Sr. Director, Reactor Programs, Nuclear Energy Institute   |
| • J. Stephen Huebner         | PhD, Retired Research Geologist, U.S. Geological Survey   |
| • Edward Huff                | PhD, Retired NASA Senior Scientist  |
| • John Hunt                  | MD, pediatrician, former tenured Associate Professor of Pediatrics, medical missionary, patent holder, and writer about contamination of science by politics              |
| • Richard W Hurst            | PhD, Emeritus Professor of Forensic Environmental Geochemistry and Planetary Sciences, California State University, Los Angeles   |
| • Kanzan Inoue               | MS & PhD in Physics, President & Physicist of Exponential Future LLC  |
| • Gamaliel Isaac             | PhD, Retired senior software engineer of the Department of Radiology of the Hospital of the University of Pennsylvania  |
| • William Ivers              | PhD Scripps Oceanography, ocean current computer modeler, software designer, entrepreneur, economist, artificial intelligence innovator                                   |
| • Jim Janota                 | Developing and improving petroleum based Chemicals, Plastics and applications   |
| • James Jaskie               | Career in renewable energy, over 50 patents in solar cells and other solid-state devices.   |
| • Laurence N. Johnson        | Lt Col, USAF (Ret), MS in meteorology, MSE in aerospace engineering   |
| • Randy Johnson              | Retired VP of Engineering and Geoscience Technology at two Fortune 500 independent oil companies  |
| • Stephen Albert Johnston    | BS Molecular Biology, Phd Genetics, Phd Plant Breeding/Genetics, Postdoc Biochemistry, CEO, CSO Inventor  |
| • John Joyce                 | Climate Narrative Challenger  |
| • Walter Kailey              | BA Physics with Honors, PhD Astronomy, Physicist, Inventor and high performance Computing Specialist  |
| • Dr. Thomas J. Karr         | PhD physicist, Retired Principal Director in the U.S. Office of the Undersecretary of Defense for Research & Engineering  |
| • Michael L. Kelly           | US Navy, BS, Tool Design Engineer (retired)   |
| • Kathryn E. Kelly           | President Delta Toxicology  |
| • Kerry Kelly                | Geology degree, Energy and Environment Professional   |
| • James Kelly                | PhD Physics, data science executive   |

## United States of America continued

- Hugh Kendrick  
PhD, Retired Director Plans and Analysis, Office of Nuclear Reactor Research, US Dept. of Energy, Fellow American Physical Society  
independent researcher in public health issues.
- Robert Kernodle  
Adjunct Prof. Mechanical Engineering at University of Wyoming
- Kevin T. Kilty  
Retired Geologist (MSc)
- Fred Kinsley  
Editor of the Climate Science Journal, more than a decade in renewable energy engineering
- Kevin Kirchman  
BSc Portland State University, 300 level Geography and Climatology
- Floyd Lee Knapp  
Marine Scientist and Geologist, Beacon, New York
- Stephen C. Knowles  
retired Nuclear Engineer, ASME Fellow, Past Chair of the ASME Nuclear Engineering Division and the ASME Energy Committee
- Kenneth D. Kok  
B.S. Ed. Mathematics, B.S. Physics, M.S. Nuclear Engineering, M.A. Physics
- Mark Konya  
Retired Judge on the US Court of Appeals
- Alex Kozinski  
Member American Institute of Chemical Engineers (AIChE)
- Wayne P. Kraus  
retired Oceanographer and Meteorologist (US Navy), Geologist with US Bureau of Land Management
- Kirk Laird  
Retired Program Director for the Physical Oceanography Program at NSF: Tropical Ocean/Global Atmosphere (TOGA), and World Ocean Circulation Experiment (WOCE).
- Richard Lambert  
MSc Geophysics
- Richard Lang  
PhD, Emeritus Professor of Geochemistry, Depts. of Chemistry, Geochemistry, and Environmental Sciences, Colorado School of Mines.
- Prof. Donald Langmuir  
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
- David R. Legates  
PhD, Retired Professor of Climatology in the Department of Geography 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](http://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
- Ronald J. Lukas  
BS-Physics, PhD-Biophysics; Founder and CEO, Molecular Matters AZ
- 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
- Wally Manheimer  
Retired from the US Naval Research Lab and life fellow of APS and IEEE, Author of "Mass Delusions, how they harm sustainable energy, climate policy, fusion and fusion breeding"
- Prof. Paul Manner  
MD FRCS, Joint Replacement/Hip and Knee Arthritis, Department of Orthopaedics and Sports Medicine, University of Washington

## United States of America continued

- 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 Interior (Retired)
- John Mauer  
PhD in Atomic and Molecular Physics, 20 years experience as a physicist, currently business owner in statistical analysis and software
- Kirk Maxey  
BS Organic Chemistry, MD, President and Founder of Cayman Chemical Inc
- Andy May  
Writer and Retired Petrophysicist
- Donald May  
BS, PhD Chemistry, Research Fellow. (Retired)
- Gene McCall  
Consultant to the Defense Science Board, Former consultant to the Department of Energy on Issues related to Inertial Fusion
- William McCann  
PhD Seismology, lifetime career in Earthquake Hazard modeling and analysis
- Dr. Neil J. McCarthy Jr.  
Financial Consultant at N J Mc Carthy & Assoc, PhD in Organic Chemistry Cornell University
- Craig McCluskey  
PhD, Physics
- Richard McFarland  
Retired NASA Physicist
- Sean McGrew  
Analytical Chemist, lifetime career in Chromatography/Mass Spectrometry, applications to semi-volatile organic compounds in the environment
- Edward P. McMahon  
PhD, career in remote sensing from spacecraft, and super computing analyses of physical phenomena
- Dr. Michael Meichle  
PhD in Physics, Research Imaging Scientist
- Mark Meier  
PhD, Professor of Physics, University of Houston
- Samuel H. Melfi  
Emeritus Professor of Physics, UMBC, Retired NASA Scientist
- Kenneth Melvin  
MD, Retired Professor of Medicine, Portland, Oregon
- Dr. Daniel M. Merfeld  
BSME U Wisconsin-Madison, MSE Princeton, PhD MIT, neuroscientist/ neuroengineer, former Professor at the Harvard Medical School, Professor at the Ohio State University
- Dr. Peter B. Merkle  
Associate Professor in environmental science and engineering at the School of Engineering at Benedictine College
- Rodney Michael  
COL, US Army Medical Corps, Retired
- Patrick J. Michaels†  
Competitive Enterprise Institute, Washington DC
- Michelle Michot Foss  
PhD, fellow in energy, minerals and materials at Rice University's Baker Institute
- Miodrag Micic  
PhD Chemistry, Professor of Engineering Design Technology at Cerritos College in Norwalk, California and Life Sciences Marketing Executive
- Edward Mickelson  
Ph.D., Technology Transfer Professional, Oil & Gas Industry
- Christopher Miller  
PE, CEM, CBCP, Registered Professional Engineer for the Power and Energy Industry
- Steven Milloy  
MHS, JD, LLM, Publisher
- Ference M. Miskolczi  
Retired NASA/AS&M Senior Scientist, Foreign Associate Member of the Hungarian Academy of Sciences
- Michael J Mitchell  
Mechanical Engineer
- Guy K. Mitchell Jr.  
graduate mechanical engineer and physicist with extensive research in the field of anthropogenic global warming
- Josh Mitteldorf  
PhD, theoretical astrophysics, Independent scientist in computer modeling, Visiting scholar at MIT's Department of Earth, Atmospheric, and Planetary Sciences
- Matthias Mixon  
BBA Degree, University of Mississippi
- Michael Monce  
PhD in Physics, Emeritus Professor of Physics, Astronomy, and Geophysics, Connecticut College
- Brian Moody  
Former GET Specialist for SMS Equipment in Ft McMurray
- David Moore  
PhD Physical Chemistry, Los Alamos Laboratory Fellow, lifetime career in molecular spectroscopy of materials at extreme conditions as well as trace detection of illicit materials

## United States of America continued

- James Moore  
Commercial Fisherman, President Alaska Trawlers Association, Executive Committee Northern Southeast Regional Aquaculture Association, Board member Armstrong Keta Inc.
- James R. Morris  
Geophysical Exploration Oil & Natural Gas
- Thomas L. Moser  
Retired NASA Senior Executive, Program Manager of the Space Station and Space Shuttle, Founder of the "Right Climate Stuff", a group of former NASA Engineers & Scientists
- Steven Mosher  
first American social scientist to conduct field research in China, exposed human rights abuses in China's one-child policy.
- David R. Motes  
Chemical Engineer, lifelong experience in the geo-energy industry
- Steve Mroczkiewicz  
PhD in entomology, Crop Protection Field Research Scientist, student of climate change and climate policy
- James F. Mundy  
Retired Meteorologist
- Daniel W. Nebert  
Emeritus Professor of Gene-Environment Science, University of Cincinnati College of Medicine and Cincinnati Children's Hospital, Ohio
- Prof. Eric L. Nelson  
PhD, Assistant Clinical Professor, Department of Public Health Sciences, University of California
- Gregg Neuendorf  
Retired Chemical Engineer, Cleveland
- Danny L. Newton  
Retired from Federal Aviation Administration (FAA), Experience in Working with NOAA with respect to Experimental Weather Data Collection
- Richard Nicholson  
MD University Of South Alabama 1988, Family Medicine
- Ned Nikolov  
PhD, Physical Scientist at the USFS Rocky Mountain Research Station in Fort Collins, CO, Managing a Fire-Weather Intelligence Project
- Paul Noel  
Research Scientist (retired)
- Jesús Ochoa  
MSc Earth Sciences
- Thomas O'Connor  
Member American Association of Petroleum Geologists, Washington
- Sidney Oldberg  
BME, MSE, MSEE
- Kenton Oma  
Retired PE Chemical Engineer, Environmental Engineering, Environmental Consultant, R&D at DOE Nuclear Facility
- Jane M. Orient  
President of Doctors for Disaster Preparedness
- Tench C. Page  
MSc & BSc in Geology including study of causes and effects of earth's climatic history
- Steven Palmieri, Ph.D., D.O.  
MSc & PhD in Chemistry, Doctor of Osteopathic Medicine, Former Chemist & Virologist, Medical Doctor - Retired
- Charlie Pappis  
retired Semiconductor Industry Executive
- Trueman D. Parish  
Retired Director of Engineering Research Eastman Chemical Company
- Arvid Pasto  
PhD in Ceramics, Retired from the Oak Ridge National Laboratory, TN
- Chad M. Paton  
PhD, Associate Professor at University of Georgia
- Bill Pekny  
MSc Physics, Retired Atmospheric Physicist, former U.S. Navy Meteorologist and Hurricane Hunter, Author of the book: A Tale of Two Climates—One Real, One Imaginary
- Pawel Penczek  
PhD in Physics, Retired Professor of Biochemistry and Molecular Biology
- Charles W. Pennington  
Senior Vice President of Engineering NAC International (Retired), Secretary, XLNT Foundation, Board of Directors
- Morgan Perry  
MS, MBA, Founder and CEO of Stratus Aero, LLC an aviation technology company focusing on aerial directed energy for human betterment, patents in aerial directed energy.
- Jeffrey S. Philbin  
Retired Nuclear Engineer Sandia National Laboratories, Independent Consultant in Nuclear Facility Design and Safety Analysis, Nuclear Criticality Safety and Weapon Response
- Dr. Robert B. Phillips  
retired from radio astrophysics, specialised in calibration and validation of orbital IR and visible sensors (GOESS, STSS-1 and -2)
- Nina Pierpont  
MD, PhD. Ecology and medicine. Author, Wind Turbine Syndrome: A Report on a Natural Experiment.
- James Richard Poirier  
BS degree in Meteorology, Lifetime Career in Atmospheric Science
- James M. Policelli  
Registered Professional Engineer
- Herman A. Pope  
Retired Aerospace Engineer NASA-JSC
- Willem Post  
Independent Researcher regarding Energy and Environment
- Darrell Potter  
Retired Geologist/Environmental Hydrogeologist

## United States of America continued

- Dr. William H. Pound PhD Major in Industrial Engineering with Minor in Materials Science
- Dr. Victor Privalsky PhD in math, PhD in physics, lifetime career in applications of theory of random processes for analysis and extrapolation of scalar and multivariate time series
- Kenneth L. Purdy Management Consultant, Retired Naval Officer in Operational Intelligence
- Dr. Marisol Quintanilla PhD, Assistant Professor of Nematology, Michigan State University
- Jilong Rao PhD in Geochemistry from Yale University... A retiree in Virginia.
- Michael Rath BS in Forest Management, Michael Rath, 55 years in Forest Management
- 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
- Anthony Robledo IV MSc, Environmental Scientist, United States Environmental Protection Agency
- 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 Univ, Evanston IL related to photosynthesis
- Marius Russo IT expert
- James H. Rust Emeritus Professor of Nuclear Engineering, Georgia Institute of Technology
- Ralph Sacrison MSc, lifetime career in earth sciences and engineering
- Charles L. Sanders Retired Radiobiologist, Author of Radiobiology and Radiation Hormesis: New Evidence and Its Implications for Medicine and Society (Springer)
- Rick Sanders MA, Scientists for Accuracy in Radiation Information (SARI), Associate Editor, 21st Century Science and Technology Magazine
- Dr. Steven Saterlie PhD in Physics, Chief Engineer with major corporation and author of numerous technical papers.
- Jeffrey Satinover MD, PhD, research theoretical physicist in unpredictability of complex systems; director of a Sterling Institute neuropsychiatric facility.
- Kent Satterlee Executive Director at Gulf Offshore Research Institute (GORI)
- Dana H. Saylor Sr. a lifelong agriculturalist, retired, article "Living a lifetime of climate change"
- Hans Schantz PhD Physics, Principal Scientist, Geeks and Nerds Corporation, physicist, author, and inventor on over forty patents
- 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
- Brian Schmidt Co-Founder and Chief Visionary Officer of Primary Ocean Aquaculture division and Primary Bio Agriculture - Agriculture division
- Harold Grant Scoggins retired IT professional
- John Seater PhD, Emeritus Professor of Economics, North Carolina State University
- Mark W. Sellers PhD Systems Science, Modeling and Analysis of Complex Systems
- Edwin T. Sewall Retired BS Electrical Engineering, Southern Methodist University 1960 Dallas Texas
- John A. Shanahan Civil Engineer with Career in Nuclear Power, Public Education about Fossil Fuels including question of man-made Global Warming and Nuclear Power through Website: [allaboutenergy.net](http://allaboutenergy.net)
- William Sharp PhD Applied Science, Retired.
- Roscoe M. Shaw meteorologist and portfolio manager
- Dr. Thomas P. Sheahen PhD in Physics at MIT, Chairman, Science & Environmental Policy Project, involved in energy-related research for 45 years

## United States of America continued

- Dr. Roger Sheley Ecologist, USDA-Agricultural Research Service; Editor-in-Chief of the international journal-Rangeland Ecology and Management
- John D. Sheppard MD, MMSc, FACS, Professor of Ophthalmology, Microbiology & Immunology, Eastern Virginia Medical School
- John Shewchuk Meteorologist (CCM) and Atmospheric Researcher
- Stephen W. Shipman Institutional Investor
- Ryan Shrout Environmental Attorney with a Masters of Law in Environmental Law practicing in the air emissions field
- Dr. Matthew Eric Shultz University of Delaware, Dept. of Physics & Astronomy, specialised in Stellar Astrophysics, Annie Jump Cannon Fellow
- David Siegel author, entrepreneur, critical thinker, communicator
- Hal Simeroth PhD in Ethics, Graduate Engineer, 45 years of research science and engineering with patents in geological logging instrumentation and geophysical exploration methodologies
- Robert P. Smith PhD, PE, Environmental Scientist and Professional Engineer
- Elliot Smith airline pilot, climate realist, 30+ years of studying AGW data
- Professor William H. Smith Professor of Earth & Planetary Sciences, Astronomer and Planetary & Atmospheric Scientist, involved in the Analysis of the Earth's Climate and Renewable Energy Systems
- Robert J. Smith Bachelor of Physics, Aircraft test and evaluation engineer
- Nicholas Smith-Sebasto PhD, Retired Professor of Environmental and Sustainability Studies
- Willie Soon Independent Scientist
- Prof. George Sowers PhD, Space Resources, Colorado School of Mines
- Prof. Rick Bernard Spielman Senior Scientist & Professor of Physics, University of Rochester, Laboratory for Laser Energetics
- Robert M. St. Louis MSc in geology, owner of Mine Water Consulting LLC
- Kirk Douglas Stahnke MS Educ. Prof of Design Tech (Retired), Independent Climate Researcher
- Walter Starck PhD, Marine Science, Pioneer in Coral Reef Studies, Policy Advisor to The Heartland Institute
- Jess L. Stark Founder and CEO of Stark Industries, Houston, Texas
- Doug Stearns PE, Natural Gas Consultant
- Jim Steele Emeritus Director Sierra Nevada Field Campus, San Francisco State University
- Phil Stegemoeller Professional Forester, Partnership with the Quinault Indian Nation, a BS in forest management at the University of Minnesota, 1979
- Ronald Stein Professional Engineer, Policy Adviser to Heartland Institute on Energy, and Co-Author of the Amazon 5-Star rated books "Energy Made Easy" and "Just GREEN Electricity"
- Kenneth S. Stevens PhD, Professor, University of Utah, Electrical and Computer Engineering Dept
- Brent K. Stewart PhD, Professor Emeritus, Radiology, University of Washington School of Medicine
- Jonathan Stigant BSc Engineering Science
- Kenneth Stoller MD - Lifetime Fellow, American College of Hyperbaric Medicine, author of Incurable Me (Skyhorse 2016)
- David Stubbs MSc Physics, Sr. Research Scientist, Aerospace Materials and Nondestructive Testing, Retired
- Gerald M. Sulzer MS Chemical Engineer, Retired Director of Technology, Albemarle Corporation
- Soames Summerhays Marine Biologist, Film Maker
- Dr. Daniel P. Taggart PhD in Experimental Plasma Physics, life time career in Controlled Thermonuclear Research and Radiation Protection at Los Alamos National Laboratory
- Tomer D. Tamarkin Physicist, Founder and President/CEO of Energycite Inc., President and Chairman of ClimateCite Inc.
- Paul Taylor Energy Economist, Recipient Rossitor Raymond Award, Golden Colorado
- Bradley Thomas M.A. Air Pollution Meteorology
- David E. Thompson Professor Emeritus Mechanical Engineering and Computer Science, Dean Emeritus College of Engineering, University of Idaho



## United States of America continued

- Edward Thompson  
PhD, DIC, Mechanical Engineering , retired
- Francis Thompson  
Space Vehicle Engineer, Masters in General Relativity
- Roane Thorpe  
BSME California Polytechnic, MBA University of California, lifetime 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
- Kip Trout  
Lecturer in Physics, The Pennsylvania State University – York Campus
- 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
- 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 Affairs
- 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
- Jeff Wilmer  
B.Sc. Physics, Post Undergrad Studies: Atmospheric Physics & 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
- Peter Wood  
PhD, President, National Association of Scholars
- Michael Wood  
BSChE, MBA; former lead technical engineer in development of space station and space launch vehicles
- Gregory R. Wrightstone  
Expert Reviewer IPCC, Geologist, Author, Executive Director CO2 Coalition
- Walter Yarbrough  
PhD, retired from Penn State
- Frank Yates Jr  
Past President of Yates Petroleum Corporation

#### United States of America continued

- Dan Youra
- Ronald B. Zelt
- Matthew Ziska
- Hannes Zuercher
- Bob Zybach

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 environmental law, University of Limoges, former official of the  
UN Secretariat





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