

World Climate Declaration

# THERE IS NO CLIMATE EMERGENCY



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 EUROPEAN 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

NOBEL LAUREATE PROFESSOR IVAR GIAEVER NORWAY/USA  
PROFESSOR GUUS BERKHOUT / THE NETHERLANDS  
DR. CORNELIS LE PAIR / THE NETHERLANDS  
PROFESSOR REYNALD DU BERGER / FRENCH SPEAKING CANADA  
BARRY BRILL / NEW ZEALAND  
TERRY DUNLEAVY / NEW ZEALAND  
VIV FORBES / AUSTRALIA  
PROFESSOR JEFFREY FOSS + / ENGLISH SPEAKING CANADA  
JENS MORTON HANSEN / DENMARK  
PROFESSOR LÁSZLÓ SZARKA / HUNGARY  
PROFESSOR SEOK SOON PARK / SOUTH KOREA  
PROFESSOR JAN-ERIK SOLHEIM / NORWAY  
SOTIRIS KAMENOPOULOS / GREECE  
FERDINAND MEEUS / DUTCH SPEAKING BELGIUM  
PROFESSOR RICHARD LINDZEN / USA  
HENRI A. MASSON / FRENCH SPEAKING BELGIUM  
PROFESSOR INGEMAR NORDIN / SWEDEN  
JIM O'BRIEN / REPUBLIC OF IRELAND  
PROFESSOR IAN PLIMER / AUSTRALIA  
DOUGLAS POLLOCK / CHILE  
DR. BLANCA PARGA LANDA / SPAIN  
PROFESSOR ALBERTO PRESTININZI / ITALY  
PROFESSOR BENOÎT RITTAUD / FRANCE  
DR. THIAGO MAIA / BRAZIL  
PROFESSOR FRITZ VAHRENHOLT / GERMANY  
THE VISCOUNT MONCKTON OF BRENCHLEY / UNITED KINGDOM  
DUŠAN BIŽIĆ / CROATIA, BOSNIA AND HERZEGOVINA, SERBIA AND  
MONTE NEGRO



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# TOTAL SIGNATORIES

## 1107



### SCIENTISTS AND PROFESSIONALS FROM AUSTRALIA

1. *Ian Plimer, Professor Earth Sciences, The University of Melbourne; WCD Ambassador*
2. *Viv Forbes, Geologist with Special Interest in Climate, Founder of [www.carbon-sense.com](http://www.carbon-sense.com), Queensland, Australia; WCD Ambassador*
3. D. Weston Allen, Physician and Medical Director of Kingscliff Health, New South Wales, Author of a number of Climate-related papers
4. Don Andersen, Retired Teacher, Programmer
5. David Archibald, Research Scientist
6. Michael Asten, Retired Professor in Geophysics and Continuing Senior Research Fellow at the Monash University, Melbourne
7. József Balla, retired teacher and manager of a small business
8. Stuart Ballantyne PhD, Senior Ship Designer, Sea Transport Corp.
9. Jeremy Barlow, Energy and Mining professional, Director and CEO
10. Dr. Colin M. Barton, Geologist, Retired Civil Engineer with Experience in Project Control, Research and Professional Training, Honorary Fellow RMIT University Australia
11. Gordon Batt, Director GCB Investments Pty Ltd.
12. Maxwell Charles S. Beck, lifetime of experience in law, retired Magistrate and Coroner on the bench
13. Robert M. Bell, Retired Geologist, Victoria
14. Richard Blayden, Professional Engineer
15. Colin Boyce, Engineer, Member of Parliament, Queensland State Parliament, Engineer, Farmer and Entrepreneur
16. Howard Thomas Brady, Member Explorers Club of New York, Member of the Australian Academy of Forensic Sciences
17. Geoff Brown, Organizer of a Critical Climate Group
18. Andrew Browne, Exploration Geoscientist, Fellow AusIMM (CP), 50 Years Global Experience
19. Frank Brus, holds a B. Comm from UNSW, spent most of his working life with the Electricity Commission of NSW
20. Ernest Buchan, Chartered Engineer MIET, Kardinya, W. Australia
21. Douglas Buerger, Fellow Australasian Institute of Mining and Metallurgy, Member of Australian Institute of Company Directors
22. Mike Bugler, Retired Environmental Consultant
23. Charles Camenzuli, Structural Engineer specializing in Remedial Work, Catcam Group, Sydney
24. Ray Carman, Organic Chemist, Honorary Fellow University of Queensland
25. Peter Champness, Radiologist
26. Andrew E. Chapman, Expert on Rainfall and Flood Events
27. Michael F. Clancy, Retired Civil Engineer, Brisbane
28. Martin Clark, Expert in Building Design, Planning and Landscaping, Townsville NQ
29. Richard Corbett, Member Royal Australian Chemical Institute, Member of The Clean Air Society of Australia and New Zealand
30. Dr. Michael Creech, lifetime active as Geologist; Dr. Creech informs the public by giving presentations on Climate Change
31. Matt Crisanti BSc, UniSA, Science Faculty Coordinator at St. Columba College in 2008
32. Majorie Curtis, Retired Geologist, Stratigrapher and Palaeoclimatic Studies, Canberra
33. Eric Daniel, Retired IT Consultant
34. Arthur Day, Earth Scientist, Specialist in Geochemical Modelling of Volcanic Processes
35. David H. Denham, lifetime experience as Architect (B Arch), active in giving talks and writing opinion articles on climate change
36. Geoff Derrick, Geologist

37. Trish Dewhirst, Retired Geologist, Queensland
38. Aert Driessen, Geologist, Fellow Australian Institute of Geoscientists
39. John A. Earthrowl, Retired Geologist, Brisbane
40. Mike Elliott, Dux of School in Mathematics, Co-Founder of Climate Realists of Five Dock
41. Jeremy K. Ellis, Retired Chairman of BHP, now Chairman of the Saltbush Club Australia
42. Matthew J. Fagan, Founder and President of FastCAM Inc.
43. Dr. Rodney Fripp, Mining Geologist and Chemist by education, lifetime experience in the fields of Mining and Exploration Geology, Analytical Chemistry and Physics of the Earth
44. Christopher J.S. Game, Retired Neurophysiologist
45. Robin George, Geologist, Canterbury
46. David Gibson, Experimental Physicist
47. Andrew Gillies, Geologist
48. Gavin Gillman, Former Senior Principal Research Scientist with SCIRO Australia, Founding Director of the IITA Ecoregional Research Centre in Cameroon for the International Institute for Tropical Agriculture (IITA)
49. Brendan Godwin, Weather Observations and General Meteorology, Radio (EMR and Radar) Technical Officer, Retired from Bureau of Meteorology
50. Hamish Grant, MR Spectroscopy & Imaging Consultant, Victoria
51. Lindsay Hackett, BSc, Author of the paper "Global Warming Misunderstood" (<https://www.scribd.com/document/383385011/>) and the paper "The Impact of Greenhouse Gases on Earth's Spectral Radiance" (<https://www.scribd.com/document/529064626/>), Founding Member of the Saltbush Club in Australia
52. Maureen Hanisch PhD, Biochemistry, Medical Research 1997, Australian National University, Retired
53. Erl Happ, Managing Director at Happs
54. John Happs, Geoscientist, Retired University Lecturer
55. Peter J.F. Harris, Retired Engineer (Electronic), now Climate Researcher
56. Jarvis Hayman, Visiting Fellow School of Archaeology & Anthropology, Australian National University
57. Mark Henschke, Retired Geologist in Mining, Oil and Gas
58. Stewart Hespe, Consulting Civil and Forensic Engineer, Critic of Government Policy on Climate Related Matters
59. Gerhard Hofmann, Geologist and Palaeontologist, Former Director of the Geological Survey of Queensland
60. Selwyn Hopley, MSSSI, Retired Land and Engineering Surveyor
61. Antonia Howarth-Wass, Mathematician
62. Geraint Hughes, Climate Researcher, Mechanical Building Engineer, Climate Researcher
63. Douglas Hutchison BSc and MSc degrees in geology, consulting geologist in the mining industry, member of the Australian Institute of Geoscientists
64. David Hyde MEnvSt, Environmental Biology, Former Scientific Chairman of Australian Underwater Federation (NSW)
65. Paul Ingram, Qualified Geologist, Member of the Australian Institute of Mining and Metallurgy, studying Palaeoanthropology and Human Evolution
66. Ian Johnson, Bachelor of Engineering, consultant
67. Prof. Aynsley Kellow, Professor emeritus of Government, College of Arts, Law and Education, University of Tasmania
68. Alison Kelsey PhD, Palaeoclimatologist and Archaeologist University of Queensland
69. Kevin Kemmis, Climate Researcher, Expert in Information Technology
70. Neil Killion, MA in Psychology, active in the climate debate, member of the Saltbush club
71. Bill Kininmonth BSc (UWA), MSc (CSU), M. Admin. (Monash), Former Superintendent of the Bureau of Meteorology National Climate Center
72. Rosemarie Kryger PhD, Biochemistry, Retired, University of Queensland, Brisbane
73. Hugh H. Laird, Retired Tropical Agriculture Executive
74. John Leisten OBE, Expert in Physical Chemistry
75. Brian Levitan, Worked for NASA, now Technology Consultant to Multinationals
76. Ian Levy, CEO Australian Bauxite Ltd.
77. Matthew David Linn, Fellow of the Institution of Engineers of Australia

78. Ian Longley, Geologist, BSc (Hons) Petroleum Geologist, Fellow of the Geological Society
79. Finlay MacRitchie, Professor Emeritus in the Department of Grain Science and Industry at Kansas State University USA
80. John Ross May BSc, Adip, Cres., Management of Forests and National Parks in Victoria
81. Gerard McGann, Technical Director Eon NRG
82. Rodney McKellar, Retired Geologist, Queensland
83. John McLean, Author of First Major Review of HadCRUT 4 Climate Temperature Data, Member of New Zealand Climate Science Coalition
84. Toby McLeay, General Medical Practitioner AM, MBBS, FRACGP, FACRRM
85. Ross McLeod, Retired Environmental Health Officer
86. Peter R. Meadows, Agricultural Scientist
87. Paul Messenger PhD, Earth Science
88. John Michelmore, Retired Industrial Chemist
89. Des Moore, Former Deputy Secretary of the Federal Treasury, Founder and Leader of the Institute for Private Enterprise
90. Alan Moran, Contributor and Editor of the Mark Steyn Compilation: "Climate Change, the Facts", Author of Climate Change: "Treaties and Policies in the Trump Era"
91. Hugh Morgan, Prominent Australian Mining Executive, Fellow of the Australian Academy of Technology, Science and Engineering (FTSE)
92. John Edward Nethery, Consultant Geologist, Bachelor of Science Fellow of Australasian Institute of Mining and Metallurgy (Chartered Professional), Fellow Australian Institute of Geoscientists, Fellow Society of Economic Geologists, Member of Geological Society of Australia
93. John Nicol PhD, Retired Senior Lecturer Physics and one time Dean of Science, James Cook University, North Queensland
94. Clifford David Ollier DSc, Geologist, Emeritus Professor of Geology and Honorary Research Fellow at the School of Earth and Geographical Sciences, University of Western Australia
95. Alistair Pope PSc, CM, Sceptical Scientific Contrarian in the Climate Debate
96. Robert Pyper, Geologist and Director of Minnelex Pty Ltd.
97. Tom Quirk, Nuclear Physicist
98. Art Raiche PhD, Mathematical Geophysics, Retired CSIRO Chief Research Scientist
99. Campbell Rankine, Barrister and Solicitor
100. Peter Ridd, Oceanographer and Geophysicist
101. Tim Riley, Mining Geologist
102. John Cameron Robertson, Author of CO2 Feeds the World and The Climate Change Delusion
103. Philip Lance Robinson, Chemical Engineer, lifetime experience in the aluminium and steel industry
104. Nigel Rowlands, Retired from Mining and Exploration Industry
105. George (Rob) Ryan, Professional Geologist
106. Judy Ryan, Editor Principia Scientific Institution Australia
107. Robert Sambell PhD, Physics, Professional Geophysicist
108. Pasquale Seizis, Mechanical Engineer, climate critic
109. Jim Simpson, Retired from Managing Positions in different International Telecommunications Firms, nowadays Convenor of "The Climate Realists of Five Dock", Sydney Australia."
110. Case Smit, Physicist, Expert in Environmental Protection, Co-Founder of the Galileo Movement
111. Edward Smith, Chartered Chemist, member of the Royal Australian Institute of Chemistry (RACI), lifetime of experience in the Pharmaceutical industry
112. Lee Smith, University Lecturer in Spatial Technology, Responsible for State Government Precise Monitoring of Sea Level and International Sea Boundaries
113. Peter Smith, Geologist (Retired), New South Wales
114. Darren Speirs, Independent Business Owner, Rangeland NRM Consultants
115. Geoffrey Stocker, Professor and Head of Department of Forestry, PNG University of Technology, Director of PNG Forest Research Institute
116. John Stone, Former Head of the Australian Treasury and Executive Director of both the IMF and the World Bank, Former Senator for Queensland in the Australian Parliament and Leader of the National Party in the Senate, Principal Founder of The H.R. Nicholls Society and the Principal Founder of The Samuel Griffith Society



117. Dr. Nancy Enid Stone, B.Sc (Hons), University of Western Australia. (1950), Ph.D Cantab. (1956), Retired Research Biochemist
118. Rodney R. Stuart, Retired Expert in Energy Industry, Tasmania
119. Roger Symons, Professional Engineer, Expert in Temperature Control of Industrial Buildings
120. James Taylor, Electrical Aerospace and Astrophysics Engineer, Computer Modelling Researcher
121. Rustyn Wesley Thomas, Retired Aircraft Engineer
122. John W. Turner, Science Educator, Noosa Heads
123. Ralph J. Tyler, Retired Senior Principal Research Chemist, CSIRO, expert in conversion of coal and natural gas to liquid fuel
124. Peter Tyrer, Project Controls Engineer in Mining Industry
125. Terrence Vincent, Security Engineer, Small Business Adviser AIST, ASIAL, SMBE
126. James Walter, Medical Doctor
127. John Warnock, Astro Economist
128. Chris Warren, Retired Engineer, Design and Construction of Dams and feasibility of Coal Mines
129. Alan C. Watts, Medical Practitioner specialized in Effects of Infrasound on Human Health
130. Colleen J. Watts, Retired Environmental Scientist with specialization in Aquatic Chemistry and Environmental Consequences of Renewable Energy
131. Neil Wilkins, Retired Geologist
132. Lawrence A. Wilson, Professional Chemical Engineer, Melbourne
133. P.C. Wilson, Former Journalist with the A.B.C. Queensland
134. 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



#### SCIENTISTS AND PROFESSIONALS FROM AUSTRIA

1. Dr. Gerhard Kirchner, Berg Ingenieur, Climate Realist
2. Dipl Ing, Dr rer techn Heribert Martinides, European Space Agency, retired
3. Rudolf Posch PhD, Retired Software Engineer of a Technical Multinational, Expert in Nonlinearities and Feedbacks
4. Dr. Eike Roth, retired physicist, author of several climate books, latest one in press: "Das große Klimarätsel: Woher kommt das viele CO2?"
5. Hans Dirk Struve, Dipl. Ing., Mechanical Engineer with large experience in business



#### SCIENTISTS AND PROFESSIONALS FROM BANGLADESH

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



#### SCIENTISTS AND PROFESSIONALS FROM BARBADOS

1. Fred Corbin, Director of CSW Engineering 2000, a company that is leading the Caribbean Region in Sustainable Economic Project Design, and co-founder of The FREEWINDS organization that is aiming at the enhancement of the economic opportunities of the 18 Caricom Territories



#### SCIENTISTS AND PROFESSIONALS FROM BELGIUM

1. *Henri A. Masson, Professor Emeritus Dynamic System Analysis and Data Mining, University of Antwerp, French speaking Belgium; WCD Ambassador*
2. *Ferdinand Meeus, Retired Dr. Sc (Chemistry, photophysics, photochemistry), IPCC Expert Reviewer AR6; WCD Ambassador*
3. Eric Blondeel, Retired Civil Engineer
4. Emiel van Broekhoven †, Emeritus Professor of Economics, University of Antwerp
5. 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
6. Alexandre G. Clauwaert, Brussels polytechnic, civil engineer AiBr and Insead Cedep general management program, Former VP marketing & communication nv AGM sa

- Antwerp, VP customer relations Electrabel distribution, VP group strategy & development Suez Tractebel sa Brussels & Paris, VP strategy Suez / Engie , Corporate auditor Engie
7. Benjamin Damien, Docteur en Biologie et Entrepreneur en Biotechnologie
  8. Ferdinand Engelbeen, Former Chemical Process Automation Engineer, Akzo Nobel Chemicals
  9. Samuel Furfari, Professor of Energy Geopolitics at the Free University of Brussels
  10. Georges Geuskens, Emeritus Professor of Chemistry, Free University of Brussels and Expert Publicist on Climate Science
  11. Drieu Godefridi PhD, Law, Author of several books
  12. Jan Goffa, Civil Engineer Applied Mechanics, Retired lecturer in thermo- and aerodynamics
  13. Dr. Volkmar Hierner, degree in business administration and economy, retired coach of companies in increasing the effectiveness of their organization
  14. Jan Jacobs, Science Journalist specializing in Climate and Energy Transition
  15. Raymond Koch, Retired Research Director at Lab. Plasma Physics, RMA Brussels and Fellow Lecturer at Umons
  16. Rob Lemeire, Publicist on Environmental and Climate Issues
  17. Jean Meeus, Retired Meteorologist, Brussels Airport, Author of the Best Seller Astronomical Algorithms
  18. Ernest Mund, Honorary Research Scientist, Honorary Research Director, FNRS, Nuclear Engineering
  19. Bart Ooghe, Geologist & Geophysicist, Independent Scientist
  20. Jaak Peeters, Psychologist and Writer
  21. Eric Perpète, Microcomputed Tomography Scientist, FNRS Senior Research Associate in Chemical Physics
  22. Dr. Hugo Poppe, Emeritus hoogleraar, Weer- en Klimaatkunde, KU-Leuven, 1966-2002
  23. Phil Salmon, Computer Tomography Scientist, Kontich
  24. Jozef Verhulst PhD, Chemistry, Author
  25. Jean van Vliet, Retired Specialist in Space Weather
  26. Appo van der Wiel, Senior Development Engineer



## SCIENTISTS AND PROFESSIONALS FROM BRAZIL

1. *Dr. Thiago Maia, Nuclear Physicist, PhD in Astrophysics; WCD Ambassador*
2. Mario de Carvalho Fontes Neto, Agronomist, Editor of 'The Great Global Warming Swindle'
3. José Bueno Conti, Geographer and Professor of Climatology, Full Professor of the Geography Department at the University of Sao Paulo (USP)
4. Dr. Johnson Delibero Angelo, Master and PhD in Material Science, Industrial Chemist, Emeritus Collaborating Professor of Postgraduate Studies in Mechanical Engineering at UFABC
5. Richard Jakubazsko, Executive Editor of Agro DBO Magazine and Co-Author of the Book 'CO2, Warming and Climate Change: Are you kidding us?'
6. Dr. George Lentz Cesar Fruehauf, BSc Doctor of Sciences – USP, MSc Meteorology – SJSU, expert in environmental engineering
7. Luiz Carlos Badicero Molion, Emeritus Professor of the Federal University of Alagoas (UFAL), Formerly of the National Institute of Space research (INPE)
8. Prof. Marcos José de Oliveira, Environmental Engineer, Master in Climatology, Author of research articles about climate cycles and natural causes of climate change
9. José Carlos Parente de Oliviera, Physicist, Professor at the Federal Institute of Education, Science and Technology of Ceará (IFCE), Retired Associate Professor of the Federal University of Ceará (UFC)
10. Guilherme Polli Rodrigues, Geographer, Master in Climatology, Environmental Consultant
11. Geraldo Luis Saraiva Lino, Geologist, Author of 'How a Natural Phenomenon Was Converted into a False Global Emergency'
12. Marcello Silva Sader, Graduated in Veterinary Medicine and Computer Sciences
13. Daniela de Souza Onca, Professor of the Geography Department of the State University of Santa Catarina (UDESC)
14. Igor Vaz Maquieira, Biologist, Specialist in Environmental Management



## SCIENTISTS AND PROFESSIONALS FROM BULGARIA

1. Fabrice Toussaint, lifetime of experience in the Geo-Energy Industry, expert in complex numerical modelling



## SCIENTISTS AND PROFESSIONALS FROM CANADA

1. *Jeffrey Foss †, Professor of Philosophy of Science, University of Victoria; WCD Ambassador*
2. *Reynald Du Berger, Retired Professor of Geophysics, Université du Québec a Chicoutimi, French Canada; WCD Ambassador*
3. Steven Ambler PhD, Full Professor University of Quebec, Dept. of Economics
4. John Andersen BSc, Honours, University of Alberta
5. Russ Babcock, retired biochemist, lifetime experience in the mining and smelting industry with emphasis on pollution abatement
6. Tim Ball, Emeritus Professor Geography, University of Winnipeg and Advisor of the International Science Coalition
7. Ron Barmby M.Eng in Engineering with major in Geoscience, Author of 'Sunlight in Climate Change: A Heretic's Guide to Global Climate Hysteria
8. Robert Douglas Bebb, Professional Engineer (Mechanical), MBA
9. Rick Beingessner, BSc, BA and LLB University of Alberta, lifetime experience in the Geo-Energy Industry, recently involved in researching Climate Change Matters
10. Jean Du Berger, Ingénieur Retraité, Bell
11. Alain Bonnier PhD, Physique, INRS-Centre de Recherche en Énergie, Montréal
12. Andrew Bonvicini, Professional Geophysicist, President of Friends of Science Society
13. Jacques Brassard, Minister of Recreation (1984), Minister of Environment (1994), Minister of Transport and Intergovernmental Affairs of Canada (1996), Minister of Natural Resources (incl. Hydro-Québec) and House Leader
14. Michel Chapdelaine MSc, Géologie, Montréal
15. Henry Clark, Thermal/Power Engineer
16. Ian Clark, Professor of Earth and Environmental Sciences, University of Ottawa
17. Edmond (Ted) Clarke MSc, Engineering, Member of Friends on Science Society
18. Paulo N. Correa, Biophysicist and Oncologist, Inventor, Author of numerous books and research papers, Director of Research at Aurora Biophysics Research Institute
19. Hortense Côté, Ingénieur Géologue, Goldminds
20. Susan Crockford, Zoologist and Polar Bear Expert, Former Adjunct Professor University of Victoria
21. Ronald Davison, Professional Chemical Engineer
22. Dr. E. David Day BSc, PhD, Chemistry
23. Eric Ducharme MSc, Géologie, Abitibi
24. Michel Dumais, Ingénieur Civil Retraité, Université d'Ottawa
25. Claude Duplessis BcSc, Géologie, Ingénieur Géologue, Goldminds
26. Ashton Embry, Research Geologist, Embry Holdings
27. David Fermor, Anaesthesiologist, B.A., M.D., FRCPC
28. Joseph Fournier PhD, Expert in Physical Chemistry
29. Paul M. Gagnon, Professional Engineer
30. 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>
31. Douglas Goodman, Life of time experience in the geo-energy industry
32. Kenneth B. Gregory, Professional Engineer, Director Friends of Science Society
33. Dr. Paul Hamblin, Retired Research Scientist Environment Canada, Advisor to the Georgian Bay Association
34. Mark T. Hohm, Professional Engineer registered with the Association of Professional Engineers and Geoscientists of Alberta (APEGA)
35. 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)
36. 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
37. Paul A. Johnston, Associate Professor, Paleontology, Paleoecology, Department of Earth and Environmental Sciences, Mount Royal University, Calgary, Alberta

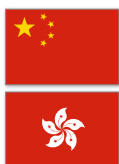
38. E. Craig Jowett, Geologist and Environmental Researcher PhD University of Toronto
39. Klaus L.E. Kaiser, Retired Research Scientist, National Water Research Institute, Author of Numerous Press Articles
40. Bogdan Kasprzak, Professional Geoscientist, life time experience in data modelling, data analysing and data interpretation
41. Madhav Khandekar, Expert Reviewer IPCC 2007 AR4 Report
42. David Koop BSc, Analytical Chemist
43. Kees van Kooten, Professor of Economics and Canada Research Chair in Environmental Studies and Climate, University of Victoria
44. Jean Laberge, Professeur Retraité de Philosophie, CEGEP du Vieux Montréal
45. Sherri Lange, CEO North American Platform Against Wind Power, Great Lakes Wind Truth
46. M.J. Lavigne MSc, Professional Geologist
47. Douglas Leahey PhD, Meteorology, past President of Friends of Science
48. Professor Denis Leahy, PhD in Astrophysics, Full Professor in the Department of Physics and Astronomy, University of Calgary
49. Robert Ledoux PhD, Professeur Retraité en Géologie, Université Laval
50. Dick Leppky, Retired businessman and Independent Truth Seeker
51. H. Douglas Lightfoot, Research Engineer in the Chemical Industry, Co-Founder of the Lightfoot Institute, papers on Alternative Energy and Atmospheric CO2
52. Gerald Machnee, Retired Meteorologist, Environment Canada
53. Allan M.R. MacRae, Retired Engineer
54. Paul MacRae, Independent Climate Researcher
55. Dwight McIntosh, degree in physics and geology at the University of Alberta, lifetime of experience in the geo-energy industry, advisor on GHG quantification and regulation
56. Norman Miller, Former P.Eng, now Retired
57. Patrick Moore, Ecologist, Chair CO2 Coalition, Co-Founder Greenpeace
58. Dr. Thomas F. Moslow PhD, P. Geol., President Moslow Geoscience Consulting Ltd., Adjunct Professor Department of Geoscience, University of Calgary
59. Scott Patterson, Professional Geologist
60. Andy Pattullo, Associate Professor of Medicine at the University of Calgary
61. Joe Postma, Research Analyst, Physics & Astronomy, University of Calgary
62. Brian R. Pratt, Professor of Geological Sciences, University of Saskatchewan
63. Gerald Ratzer, Professor Emeritus, Computer Science McGill University, Montreal
64. John Angus Raw, aerospace engineer, specialised in aerodynamics, life time career in the international aerospace industry
65. Dr. Michael Raw PhD in Mechanical Engineering, specialization in computer modelling of fluid flow and heat transfer, current field of work in technology management
66. Robert James Reid, BSF degree, Registered Professional Forester, lifetime experience in the forestry industry
67. Norman Reilly, Professor Emeritus of Mathematics, Simon Fraser University, British Columbia
68. Gérald Riverin PhD, Géologie, Géologue Retraité
69. Peter Salonijs, Retired Research Scientist, Natural Resources
70. Marcelo C. Santos, Professor of Geodesy, University of New Brunswick
71. Paul R. Schmidt BSc, Professional Engineer Ontario, Research Scientist, Author/ Lecturer 'Review & Analysis of Climate Change', Member Friends of Science
72. Ian de W. Semple, Retired Exploration Geologist and Mining Investment Analyst of McGill University
73. Afshin Shahzamani, Retired professional (Medical Science Liaison) pharmaceutical industry
74. Élie Shama, Ingénieur Retraité en Électromécanique, Président d'Éconoden, Montréal
75. Brian Slack, Distinguished Professor Emeritus, Concordia University Montreal, Department of Geography, Planning and Environment
76. Marc Vallée PhD, Geophysicien
77. Petr Vaníček Dr. Sc, Professor Emeritus of Geodesy, University of New Brunswick
78. Prof. Dr. Ir. Frank C.J.M. van Veggel, Full Professor at the University of Victoria, M.Eng and PhD in Chemical Technology, University of Twente, The Netherlands, Since 2015 Fellow of the Royal Society of Canada
79. Jean-Joel Vonarburg PhD, Professeur Ingénieur, Université du Québec à Chicoutimi

80. Dr. Ronald Voss PhD Chemistry, lifetime career in the environment department of a research consortium
81. Dr. Helen Warn PhD in Fluid Dynamics from McGill University
82. Dr. Thorpe W. Watson, material science, lifetime career in the mining industry with focus on intellectual property protection
83. William van Wijngaarden, Professor of Physics, York University
84. Ken Wilson, Professional Engineer (retired)



### SCIENTISTS AND PROFESSIONALS FROM CHILE

1. *Douglas Pollock, Civil Industrial Engineer, University of Chile; WCD Ambassador*



### SCIENTISTS AND PROFESSIONALS FROM CHINA / HONG KONG

1. Wyss Yim, Retired Professor, Department of Earth Sciences, The University of Hong Kong, Deputy Chairman Climate Change Science Implementation Team, UNESCO International year for Planet Earth 2007-2009, Expert Reviewer IPCC AR2
2. NG Young, Principal Geoscientist, Danxiashan Global Geopark of China



### SCIENTISTS AND PROFESSIONALS FROM REPUBLIC OF CROATIA

1. *Dušan Bižić MSc, Meteorologist, Head of Radar Centre of the Croatian Meteorological and Hydrological Service; WCD Ambassador*
2. Zorislav Gerber MSc, Head of Hail Prevention Support Department, Croatian Meteorological and Hydrological Service



### SCIENTISTS AND PROFESSIONALS FROM CZECH REPUBLIC

1. Pavel Dudr, Ing, Independent publicist and climatologist / Pravy prostor, EP Shark/
2. Marek Eiderna, Agricultural Engineer and graduated in General Biology
3. Vaclav Hubiner, Retired Ambassador, Anthropologist, Climate Policy Commentator for [www.forum24.cz](http://www.forum24.cz)
4. Pavel Kalenda PhD, CSc., Coal Expert
5. Václav Klaus, Former President of the Czech Republic, Professor of Economics, Founder of the Václav Klaus Institute
6. Ivan Spicka, Professor of Internal Medicine at Charles University with speciality in Hemato-Oncology, Prague
7. Gary M. Vasey PhD, Geology, Managing Partner and Analyst in Commodity Technology Advisory llc



### SCIENTISTS AND PROFESSIONALS FROM DENMARK

1. *Jens Morten Hansen PhD, Geology, Professor at Copenhagen University, Former Vice Managing Director for the Geological Survey of Denmark and Greenland, Former Director General for the Danish National Research Agency and National Research Councils, Former President of the Nordic Research Council under Nordic Council; WCD Ambassador*
2. Bjarne Andresen, Professor of Physics, Niels Bohr Institute, University of Copenhagen
3. Dr. Hans Götzsche, Emeritus Associate Professor, Linguistics and Philosophy of Science, President Nordic Association of Linguists (NAL), Director, Center for Linguistics, Aalborg University
4. Frank Hansen, Emeritus Professor, Department of Mathematics, University of Copenhagen
5. Sören Kjærsgaard, Professional Chemical Engineer
6. Johannes Krüger, Emeritus Professor, Dr. Scient, Department of Geosciences and Natural Resource Management, University of Copenhagen
7. Knud Larsen PhD, Natural Sciences
8. Peter Kjær Poulsen, Metering Engineer
9. Niels Schrøder, Geophysist/Geologist, Associate Professor Institute of Nature and Environment, Roskilde University



## SCIENTISTS AND PROFESSIONALS FROM ECUADOR

1. Fernando Villon MSc, Industrial Engineer, Lifetime Experience in the Geo-Energy Industry



## SCIENTISTS AND PROFESSIONALS FROM FINLAND

1. Boris Winterhalter, Retired Marine Geology, Geological Survey of Finland
2. Dr. Antero Ollila, Emeritus Adj. Ass. Professor Aalto University, expert in atmospheric modeling
3. Simo Ruoho, President Ilmastofoorumi ry Finland, Signature of association <https://ilmastofoorumi.fi> including its scientists and professional members



## SCIENTISTS AND PROFESSIONALS FROM FRANCE

1. *Benoît Rittaud, Assistant Professor of Mathematics at University of Paris-Nord, President of the French Association des climato-réalistes; WCD Ambassador*
2. Jean-Charles Abbé, Former Research Director at CNRS, Labs Director (Strasbourg, Nantes) in Radiochemistry, Expert at NATO and IAEA
3. Pascal Acot, Centre National de la Recherche Scientifique, Paris
4. Bertrand Alliot, Environmentalist
5. Charles Aubourg, Full Professor at the University of Pau, Geophysicist
6. Hervé Azoulay, Engineer (CNAM), Specialist of Networks and Systemics, CEO and President of several Associations
7. Jean-Pierre Bardinet, Ingénieur ENSEM, Publicist on Climate Issues
8. Yorik Baunay, Geographer (Master 2) specialized in the natural risk and crisis management, CEO of Ubyrisk Consultants (firm specialized on natural hazard mitigation)
9. Bernard Beauzamy, University Professor (Ret.), Chairman and CEO, Société de Calcul Mathématique SA (Paris)
10. Serge Bellotto PhD, Geology
11. Guy Bensimon, Retired Associate Professor of Economics at Institute of Political Studies of Grenoble (SciencesPo Grenoble)
12. Jean-Claude Bernier, Emeritus Professor (University of Strasbourg), Former Director of the Institute of Chemistry of the CNRS
13. Pierre Beslu, Former Researcher and Head of Department in the French Nuclear Energy Commission (CEA)
14. Michel Bouillet PhD, Human Geography, Emeritus Professor, Former Associate Researcher at the MMSH (Aix-en-Provence)
15. Sylvie Brunel, Full Professor at Sorbonne University, Geographer and Economist, Former President of the Humanitarian Organization Action against Hunger (Action contre la faim)
16. Christian Buson PhD, Agronomy, Director of Research in a Company (impact studies in Environmental Issues, Sewage Treatment)
17. Jean-Louis Butré, Professional Engineer, Head of Laboratory at Grenoble Nuclear Research Center, Chief Executive Officer of the Pharmacie Centrale de France, President of Axens, President of the Fédération Environnement Durable and the European Platform Against Windfarms, Knight of the National Order of Merit
18. Emmanuel Camhi MSc in Physics, life time experience in Complex Systems Modeling and Data Analysis in the Aerospace industry
19. Bernard Capai, Retired Chemistry Engineer, Specialist of Industrial Processes avoiding the use of Carcinogenic Solvents
20. Patrick de Casanove, Doctor of Medicine, Chairman of the Cercle Frédéric Bastiat
21. Philippe Catier, Medical Doctor
22. Bruno Chaumontet, Engineer ENSEA, specialized in Feedback Systems
23. Pascal Chondroyannis, Forest Engineer, Retired Director of the National Alpine Botanical Conservatory (2008-2013)
24. Jean Michel Colin PhD, Retired Chemist Engineer, Expert for the French Academic Evaluation Agency (AERES)
25. Philippe Colomban, CNRS Research Emeritus Professor, Former Head of Laboratory at Université Piere-et-Marie Curie, Expert in Hydrogen-based Energy Storage

26. 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
27. Christian Coppe PhD, Organic & Analytical Chemistry
28. Philippe Costa, Energy Engineer at ENSEM Nancy, specialist in Industrial Process and Energy Saving
29. Vincent Courtillot, Geophysicist, Member of the French Academy of Sciences, Former Director of the Institute de Physique du Globe de Paris
30. Pierre Darriulat, Professor of Physics, Member of the French Academy of Sciences
31. Jean Davy, Engineer (ENSAM), Digital Modeling Software Developer
32. Dr. Stephen John Dearden, Retired Research Chemist, lifetime R&D experience in the general chemical, pharmaceutical and photographic industries
33. 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
34. Jean-Pierre Desmoulins, Retired Professor of Thermal and Energy Engineering at the "Institut Universitaire de Technologie, Université-Grenobles-Alpes"
35. Gérard Douhet PhD, Nuclear Physics, Retired Engineer at CERN, Technical Manager on Digital Transmission and Video Encoding
36. Hubert Dulieu, Emeritus Professor Applied Ecology, Formerly Senior Researcher in the CNRS, President of the National Scientific Research Committee, Vegetal Biology Section (XXVII)
37. Doctor Denis Dupuy, Urologist, climate realist
38. Bruno Durieux, Economist, Former Minister of Health and of Foreign Trade, Ancient Administrator of the French National Institute of Statistics and Economic Studies (INSEE)
39. Max Falque, International Consultant in Environmental Policy
40. Serge Ferry PhD, Retired Teacher-Researcher (MCF), University of Lyon
41. Patrick Fischer, Associate Professor in Applied Mathematics, University of Bordeaux
42. Michel Frenkiel, Engineer (Arts et Métiers), Former Researcher at NCAR in Boulder
43. Francis le Gaillard PhD, Natural Sciences and Pharmaceutical Sciences, Emeritus Professor of Biochemistry at the Faculty of Pharmaceutical Sciences of Toulouse
44. François Gauchenot, Governance Specialist, Founder of Saint George Institute
45. Jean Gergelé, Engineer Graduate from the Ecole Centrale de Lyon, R&D Director, Freelance Consultant, mainly in the Li-ion battery development
46. Christian Gerondeau, Former Advisor of several French Prime Ministers, Formerly responsible for the Road Traffic Safety Policy for France and the European Union
47. Francois Gervais, Emeritus Professor of Physics and Material Sciences, University of Tours
48. Philippe Giraudin, Ecole Polytechnique Paris, Geographic Sciences
49. Bernard Grandchamp, Agronomic Engineer and Environment & Plant Defense Expert, Managing Director of Famoux Chateaux Viticoles in Bordeaux
50. Gilles Granereau, Former Meteorologist, currently Project Manager Environment and Tourism in a Public Institution, Worked on Coastal Risks, Marine Erosion, Sand Dune Fixation, Hydraulics, Forest Management, Botany
51. Maximilian Hasler, Associate Professor in Mathematics, University of French West Indies
52. Charles Hazan, Retired Chemist (ENSCP) and Chemical Engineer (UMIST) Former Technical Director Nosolor
53. Yvon Jarny, Emeritus Professor in Thermal and Energy Sciences, Nantes University
54. Claude Jobin, Retired A&M Engineer specialized in Microwave Communication
55. Alexandre Krivitzky, Psychoanalyst, Member of the International Psychoanalytical Association
56. Roger Lainé, Retired Geological Engineer
57. Philippe de Larminat, Professor at École Centrale de Nantes, specialist of Business Process Modeling
58. René Laversanne, Researcher at the CNRS, 16 patents
59. Jean-Marie Longin, Engineer (Saint-Cyr), Chief of the Pole Operations of Security Inventory Management
60. Guy Lucazeau, Emeritus Professor (Institut Polytechnique de Grenoble) in Material Sciences and Spectroscopy

61. Philippe Malburet, Emeritus Associated Professor of Mathematics, Founder of the Planetarium of Aix-en-Provence, Member of the Academy of Aix-en-Provence
62. Christian Marchal, Astronomer and Mathematician, Former Research Director at the French National Office for Aerospace Studies and Research
63. Dr. Yves G. Maria-Sube PhD in Geosciences Montpellier University, lifetime career in the geo-energy industry
64. Paolo Martinengo, Applied Physicist, Senior Staff Member in the Experimental Physics Department, Detector Technologies Group, CERN
65. Patrick Mellett, Architect and CEO
66. Marc le Menn PhD, Head of Metrology-Chemistry Oceanography Lab, Brest
67. Henri Mertz, Ingénieur Civil de l'école de la Métallurgie et des Mines de Nancy, Chef d'Entreprises
68. Serge Monier, former manager of various multinational companies, at present Co-founder and Treasurer of 'Climat et Vérité'
69. 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
70. Jacques-Marie Moranne, Retired Engineer (Ecole Centrale de Lille), Specialist in Air and Water Purification, Chemical and Nuclear Engineering
71. Serge Morin, Emeritus Professor Geography at Université Michel de Montaigne, Bordeaux, Honorary Mayor of Branne
72. Cédric Moro, Geographer on Natural Hazards Management, Co-Founder of Visov, a NGO in Civil Defense
73. Philippe Morvan, Engineer ENSTA and Génie Maritime, specialist in Software Development
74. Charles Naville, R&D Exploration Geophysicist, IFP Energies Nouvelles
75. Michel le Normand, Emeritus Professor of Botany and Plant Pathology and Chairman of Plant Production Department, National Superior School of Agronomy, Rennes
76. Ludovic Penin, former Senior Executive - Chief Information Officer (IT) and former Entrepreneur/Investor, Co-founder and Vice-president of 'Climat et Vérité', member of 'Association des Climato-réalistes'
77. 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'
78. Rémy Prud'homme, Emeritus Professor in Economics at University of Paris-Est, Former Deputy-Director, Environment Directorate, OECD
79. Jean Marie Ravier, Engineer of ECOLE CENTRALE DE PARIS, and diplomed SCIENCES POLITIQUES PARIS, recently retired MD of small industrial company
80. Pierre Richard, Engineer ESPCI Paris, Former Research Geochemist at Institut de Physique du Globe de Paris (IPGP)
81. Pierre Ripoche, Engineer INSA in Chemistry, Retired Project Manager in R&D, Expert in High Temperature Plasma for Optical Fiber Process
82. Isabelle Rivals, Associate Professor in Statistics at ESPCI Paris
83. Bertrand Rouffiange, Doctor of Medicine, specialized in Radiology
84. Jean Rouquerol, Emeritus Research Director at CNRS Marseille, Expert in Gas Adsorption and Calorimetry
85. Georges de Sablet, Retired Associate Professor at University of Paris Descartes, Formerly in charge of Operating Systems and Networks at IUT Paris
86. François Simonet PhD, Biology, Former Director for Planning and Foresight in a State Agency for Water and Aquatic Ecosystems Management
87. Luc C. Tartar, mathematician, corresponding member of Académie des Sciences in Paris (since 1987), University Professor of Mathematics emeritus at CMU (Carnegie Mellon University, Pittsburgh, PA)
88. Marcel Terrier, Ex Engineers in Industry, Former Teacher at the Douai School of Mines
89. Michel Thizon, Chemical engineer, ACR (Association des Climato-Réalistes, France) member, former researcher at the Ecole Polytechnique, consultant, retired
90. 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)
91. Camille Veyres, Retired Engineer at École des Mines, specialist in Telecommunications and Broadband Networks
92. Brigitte van Vliet-Lanoë, Geoscientist, Emeritus Research Director (CNRS, Université de Bretagne Occidentale), Stratigraphy and Paleoenvironments, Quaternary and Holocene



93. Théa Vogt, Retired CNRS Searcher, Géomorphology, Quaternary Palaeoenvironments, Soil and Desertification Remote Sensing
94. Henry Voron, Retired Civil Chief Engineer, specialized in Water Management



## SCIENTISTS AND PROFESSIONALS FROM GERMANY

1. *Fritz Vahrenholt, Professor (i.R.) am Institut für Technische und Makromolekulare Chemie der Universität Hamburg; WCD Ambassador*
2. Detlef Ahlborn PhD, Expert on German Energy Transition (Energiewende)
3. Hans-Jürgen Bandelt, Emeritus Professor of Mathematics, University of Hamburg
4. Dietrich Bannert, Professor Honoris Causa, University of Marburg
5. Graham George Baumber, former Agronomist & Irrigation Crop Specialist, Business Man & Investor
6. Lars Birlenbach, Dr. in Chemistry, University of Siegen
7. Michael Bockisch, Emeritus Professor Chemistry at the Technical University of Berlin
8. Klaus-Dieter Böhme, Dipl. Physicist, professional experience in X-ray spectroscopy
9. Thomas Brey, Professor for Functional Ecology at University Bremen, Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research, Bremerhaven, Helmholtz Institute for Functional Marine Biodiversity at the University Oldenburg (HIFMB)
10. Stephan Bujnoch, Wirtschaftsingenieur (i.e. a combination of Economics and Engineering), Retired Manager with the Automotive Industry
11. Eike-Mattias Bultmann, Geoscientist
12. Dr. Arthur Chudy, Agricultural Chemist OT Warsaw
13. Dr. Ing. Rolf Diederichs, Studie Eisenhüttenkunde in Clausthal-Zellerfeld, climate realist
14. Prof. Dr. Klaus D. Döhler, Professor of Pharma sciences, University of Hannover
15. Wolf Doleys, Retired teacher (high school, college) and writer (essay, poetry, novel)
16. Joerg Dornemann Msc in Geology, lifetime career in the Geo-Energy Industry
17. Friedrich-Karl Ewert, Emeritus Professor Geology, University of Paderborn
18. Ludwig E. Feinendegen, Emeritus Professor Medicine
19. Dr. Dieter Freundlieb, Retired Senior Lecturer Griffith University, School of Humanities, Brisbane, Australia
20. Christian Habermann, Dr. in Economics, Investment Manager
21. Eberhard Happe, Eisenbahningenieur
22. Hermann Harde, Emeritus Professor of Experimental Physics and Materials Science, Helmut Schmidt-University, Hamburg
23. Prof. Dr. Bernd Hartke, Professor in Theoretical Chemistry, Expert Knowledge in Computer Modelling, University of Kiel
24. Manfred Hauptreif, Natural Scientist
25. Professor Dr. Gerhard Kehrer, Retired Physician, Internist and Physiologist
26. Werner Kirstein, Emeritus Professor of Climatology, University of Leipzig
27. Bernhard Kleinhenz, Collage teacher of Biologie, Chemistry and Physics
28. Stefan Kröpelin, Dr. in Geosciences, Free University of Berlin and University of Cologne (Retired), specialized in Climate Change of the Sahara
29. Max Kupillas, Dipl.-Ing. Masch.-Bau, retired Prod.Ltr.
30. Ulrich Kutschera, Professor of Plant Physiology & Evolutionary Biology at the University of Kassel and Visiting Scientist in Stanford USA
31. Michael Limburg, Vice-President EIKE (Europäisches Institute für Klima und Energie)
32. Horst-Joachim Lüdecke, Professor of Operations Research (i.R.) HTW of Saarland, Saarbrücken
33. Wolfgang Merbach, Professor Dr. Agrar. Habil. at Institut für Agrar Ernährungswissenschaften
34. Lothar W. Meyer, Emeritus Professor of Material Engineering, Chemnitz University of Technology, Saxony Entrepreneur 'Nordmetall GmbH', Member of the Board of 'Vernunftkraft Niedersachsen'
35. Jens Möller, Graduate Economist, Climate Realist
36. Werner Mormann, Emeritus Professor of Macromolecular Chemistry, Universität Siegen
37. Dipl. Phys. Raimund Müller, education in physics and thermodynamics, climate realist
38. Holger Neulen, Retired Mechanical Engineer

39. 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
40. Rainer Olzem, Diplom-Geologe, Aachen
41. Hans Penner PhD, Dipl.-Chem. Dr. rer. nat., Linkenheim-Hochstetten
42. Michael Principato MSc in Electrical Engineering, specialised in Control Engineering and Modeling
43. Siegfried Reiprich, Dipl.-Ing, Geoscientist and Oceanography
44. Dr. Jens-Christoph Schneider PhD in Isotope Chemistry, life time career in palaeoclimate and atmospheric geochemistry
45. Dr. rer. nat. Michael Schnell, Retired chemist
46. Dipl. Psych. Ulrike Schwan, Professional Psychotherapist, Psychotherapist look at the IPCC Organization
47. W.H. Eugen Schwartz, Emeritus Professor of Theoretical Chemistry, Universitaet Siegen
48. Dr. Fritz Sontheimer, Retired Physicist, PhD in Condensed Matter Physics
49. Markus Stockhausen, Musician, Author of the Worldwide Ethical Manifesto
50. Lothar Streng, strategy and concept developer, full time writing on a large SF project
51. Matthias Thiermann, Parliamentary adviser in the Bavarian Parliament
52. Dr. Holger Thuss, President EIKE Institute
53. Jost Trier PhD, Retired Experimental Physicist at the Federal Institute in Braunschweig, Dept. of Atomic Physics
54. 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



#### SCIENTISTS AND PROFESSIONALS FROM GREECE

1. *Sotiris Kamenopoulos PhD, Independent Researcher in the Field of Sustainable Exploitation of Mineral Resources, Social License to Operate and Risk Management; WCD Ambassador*
2. Stavros Alexandris, Associate Professor Agricultural University of Athens, Dept. of Natural Resources and Agricultural Engineering, Sector of Water Resources
3. Costas Fasseas, Emeritus Professor of Plant Anatomy & Electron Microscopy, Department of Crop Science, Agricultural University of Athens
4. Anthony Foscolos, Emeritus Professor of Mineral Resources at the Technical University of Crete, Energy Consultant for the United Nations Development Program (UNDP)
5. r. Vassilios C. Kelessidis, former Professor at Khalifa University, Texas A&M at Qatar and Technical University of Crete Greece, Lifetime of Experience in Petroleum Engineering
6. Christos J. Kolovos PhD, Mining & Metallurgy Engineer, Former Director of Mine Planning & Contractor Works Dept., Public Power Corporation of Greece
7. Emmanouil Kopanakis, Mechanical Engineer, Teacher at the Environmental Education Center of Karpenisi
8. Demetris Koutsoyiannis, Professor of Hydrology and Analysis of Hydrosystems at the National Technical University of Athens
9. Aristotelis Liakatas, Emeritus Professor of the Agricultural University of Athens on Agrometeorology, Member of the Greek Agricultural Academy
10. Nikos Mamassis, Associate Professor of Engineering Hydrology and Hydrometeorology at the National Technical University of Athens
11. Spyridon Nikiforos, Economist, MBA
12. Sonia Perez PhD, Biology/Immunology, Scientific Coordinator Cancer Immunology and Immunotherapy Center Saint Savas Cancer Hospital, Athens



#### SCIENTISTS AND PROFESSIONALS FROM HUNGARY

1. *Laszlo Szarka, Geophysicist, O.M.; WCD Ambassador*
2. Dr. Dezsó Csejtei, retired professor of philosophy at the University of Szeged
3. Dr. Endre Fuggerth, Chemist, lifelong experience in gas-chromatography
4. István Héjjas PhD, Retired R&D Electrical Engineering
5. József Király, Chemical Engineer and one of the Authors of the Hungarian site [www.klimarealista.hu](http://www.klimarealista.hu)

6. Dr. Gábor Szász, Professor Emeritus, College Professor Dennis Gabor College  
Department of Economics and Engineering



### SCIENTISTS AND PROFESSIONALS FROM INDIA

1. Sanjeev Sabhlok, Economist with focus on Climate and Energy Policy



### SCIENTISTS AND PROFESSIONALS FROM INDONESIA

1. Purwono Wahyudi, Entrepreneur and informed climate realist



### SCIENTISTS AND PROFESSIONALS FROM IRELAND

1. *Jim O'Brien, Founder of the Irish Climate Science Forum, Expert Reviewer of IPCC AR6; WCD Ambassador*
2. Tom Baldwin, Electrical Engineer, specialist in Power System Security
3. Tony J. Carey, BA (Natural Sciences), Clare College, Cambridge
4. David Horgan, MA (Cambridge), MBA (Harvard), Resource Company Director
5. Seamus Hughes, BAgricSc, Specialist in Genetics
6. Mark Gerard Keenan, Former Science Advisor, Department of Energy and Climate Change, U.K., Former Environmental Affairs Officer, United Nations Environment Division, Geneva, Switzerland
7. Ultan Murphy, BSc (Hons) Chemistry, Industry Science Professional
8. Owen O'Brien, Business Founder and Entrepreneur, MBA, DBA
9. Patrick L O'Brien, MSc, MPhil, Senior International Environmental Consultant
10. Donal O'Callaghan, electrical engineer, retired food industry research scientist
11. J. Phillip O'Kane, Emeritus Professor, School of Engineering, University College Cork
12. Peter O'Neill, Retired, School of Engineering, University College Dublin, Expert Reviewer of IPCC AR6
13. Fintan Ryan, Retired Senior Airline Captain, Fellow Royal Aeronautical Society
14. Christian Schaffalitzky, FIMMM, Founder Institute of Geologists of Ireland, EurGeol
15. Brian N. Sweeney, Founding Chairman of Science Foundation Ireland
16. Sean Tangney, Business Entrepreneur, Former Technical Director, CRH plc
17. David Thompson, BAgricSc, MA, Animal Nutritionist
18. Edward Walsh, Former Chairman, Irish Council for Science, Technology and Innovation, Former Director Energy Research Group, Virginia Tech, USA



### SCIENTISTS AND PROFESSIONALS FROM ITALY

1. *Alberto Prestininzi, Professore di Rischi Geologici, Honorary Cherman NHAZCA Università of Rome Sapienza, già Scientific Editor in Chief della Rivista Internazionale IJEGE e Direttore del Centro di Ricerca, Previsione, Prevenzione e Controllo dei Rischi Geologici (CERI); WCD Ambassador*
2. Pietro Agostini, Ingegnere, Associazione Scienziati e Tecnologi per la Ricerca Italiana
3. Piero Baldecchi, Lettore
4. Achille Balduzzi, Geologo, Agip-Eni
5. Antonio Ballarin, Fisico, "Chief Artificial Intelligence Officer" di una pubblica amministrazione
6. Cesare Barbieri, Professore Emerito di Astronomia, Università di Padova
7. Donato Barone, Ingegnere
8. Sergio Bartalucci, Fisico, Presidente Associazione Scienziati e Tecnologi per la Ricerca Italiana
9. Giuseppe Basini, Astrofisico, Deputato, già dirigente di Ricerca dell'INFN
10. Franco Battaglia, Professore di Chimica Fisica, Università di Modena, Movimento Galileo 2001
11. Marco Benini, Ingegnere Idraulico, Libero Professionista
12. Eliseo Bertolasi, Dottore di Ricerca in Antropologia Culturale
13. Giorgio Bertucelli, Ingegnere, già Dirigente Industriale, ALDAI
14. Alessandro Bettini, Professore Emerito (Fisica) Università di Padova
15. Antonio Bianchini, Professore di Astronomia, Università di Padova

16. Luciano Biasini, Professore Emerito, già Docente di Calcoli Numerici e Grafici, Direttore dell'Istituto Matematico e Preside della Facoltà di Scienze Matematiche, Fisiche e Naturali dell'Università di Ferrara
17. Paolo Blasi, Professore Emerito (Fisica) e già Rettore dell'Università di Firenze, già Presidente della Conferenza dei Rettori delle Università Italiane
18. Enrico Bongiovanni, Dottore Commercialista
19. Paolo Bonifazi, Ex Direttore dell'Istituto di Fisica dello Spazio Interplanetario (IFSI) dell'Istituto Nazionale Astrofisica (INAF)
20. Roberto Bonucchi, Insegnante in Pensione
21. Giampiero Borrielli, Ingegnere
22. Francesca Bozzano, Professore di Geologia Applicata, Università di Roma La Sapienza, Direttore del Centro di Ricerca Previsione, Prevenzione e Controllo Rischi Geologici (CERI)
23. Antonio Brambati, Professore di Sedimentologia, Università di Trieste, Responsabile Progetto Paleoclima-mare del PNRA, già Presidente Commissione Nazionale di Oceanografia
24. Gianfranco Brignoli, Geologo
25. Marcello Buccolini, Professore di Geomorfologia, Università di Chieti-Pescara
26. Paolo Budetta, Professore di Geologia Applicata, Università di Napoli
27. Antonio Maria Calabrò, Ingegnere, Ricercatore, Consulente
28. Monia Calista, Ricercatore di Geologia Applicata, Università di Chieti-Pescara
29. Cristiano Carabella, Geologo, Borsista presso l'Università di Chieti
30. Giovanni Carboni, Professore di Fisica, Università di Roma Tor Vergata, Movimento Galileo 2001
31. Peppe Caridi
32. Franco Casali, Professore di Fisica, Università di Bologna e Accademia delle Scienze di Bologna
33. Giuliano Ceradelli, Ingegnere e Climatologo, ALDAI
34. Augusta Vittoria Cerutti, Membro del Comitato Glaciologico Italiano
35. Franco Di Cesare, Dirigente, Agip-Eni
36. Alessandro Chiaudani PhD, Agronomo, Università di Chieti-Pescara
37. Luigi Chilin, Dirigente in Pensione
38. Claudio Ciani, Relazioni Internazionali, Scienza Politica, Università di Roma La Sapienza
39. Edoardo Cicali, Membro del C.I.R.N (Comitato Italiano Rilancio del Nucleare) e dell'associazione "Atomi per la pace", ex Dipendente di un Centro Medico Radiologico ed Attualmente Impiegato nel Settore dell'Informatica
40. Pino Cippitelli, Geologo Agip-Eni
41. Carlo Colomba
42. Enrico Colombo, Chimico, Dirigente Industriale
43. Vito Comencini, Onorevole, Membro della Camera dei Deputati Italiana dal 2018
44. Enrico Conti, Physicist, Istituto Nazionale di Fisica Nucleare (INFN)
45. Ferruccio Cornicello, Fotografo e Lettore di Studi sul Clima
46. Domenico Corradini, Professore di Geologia Storica, Università di Modena
47. Carlo Del Corso, Ingegnere Chimico
48. Uberto Crescenti, Professore Emerito di Geologia Applicata, Università di Chieti-Pescara, già Magnifico Rettore e Presidente della Società Geologica Italiana
49. Fulvio Crisciani, Professore di Fluidodinamica Geofisica, Università di Trieste e Istituto Scienze Marine, Cnr, Trieste
50. Salvatore Custodero
51. Francesco Dellacasa, Ingegnere, Amministratore di Società nel settore Energetico
52. Alessandro Demontis, Perito Chimico Industriale, Tecnico per la Gestione delle Acque e delle Risorse Ambientali, Pomezia
53. Serena Doria, Ricercatore di Probabilità e Statistica Matematica, Università di Chieti-Pescara
54. Roberto d'Arielli, Geologo, Borsista presso l'Università di Chieti
55. Carlo Esposito, Professore di Rischi Geologici, Università di Roma La Sapienza
56. Gianluca Esposito, Geologo
57. Antonio Mario Federico, Professore di Geotecnica, Politecnico di Bari
58. Aureliano Ferri, Vicepresidente Associazione Piceno Tecnologie

59. Maurizio Fiorelli, Sommelier Professionale, studioso dell'evoluzione nella Coltivazione delle Vigne
60. Mario Floris, Professore di Telerilevamento, Università di Padova
61. Gianni Fochi, Chimico, Ricercatore in Pensione della Scuola Normale Superiore, Giornalista Scientifico
62. Sergio Fontanot, Ingegnere
63. Luigi Fressoia, Architetto Urbanista, Perugia
64. Mario Gaeta, Professore di Vulcanologia, Università di Roma La Sapienza
65. Sabino Gallo, Ingegnere Nucleare e Scrittore Scientifico
66. Giuseppe Gambolati, Fellow della American Geophysical Union, Professore di Metodi Numerici, Università di Padova
67. Alessio Del Gatto, Liceo Scientifico, Collaboratore Attivita Solare.it
68. Rinaldo Genevois, Professore di Geologia Applicata, Università di Padova
69. Umberto Gentili, Fisico dell'ENEA, Climatologo per il Progetto Antartide, ora in pensione
70. Enrico Ghinato, Perito Fisico
71. Mario Giaccio, Professore di Tecnologia ed Economia delle Fonti di Energia, Università di Chieti-Pescara, già Preside della Facoltà di Economia
72. Daniela Giannessi, Primo Ricercatore, IPCF-CNR, Pisa
73. Roberto Grassi, Ingegnere, Amministratore G&G, Roma
74. Roberto Graziano, Ricercatore di Geologia Stratigrafica e Paleoclimatologia/ Paleocceanografia, Università di Napoli, già Geologo presso il Servizio Geologico d'Italia
75. Alberto Guidorzi, Agronomo
76. Roberto Habel, Professore di Fisica Medica, Università di Cagliari
77. Thomas Kukovec, Tropical Agronomist and Subtropical Field Biologist in the private sector, specialised in semi-arid agriculture, ecophysiology and phytogeography of Sahelian and Saharan plants. Scientific adviser and consultant in research-projects and learned societies
78. Alberto Lagi, Ingegnere, Presidente di Società Ripristino Impianti Complessi Danneggiati
79. Luciano Lepori, Ricercatore IPCF-CNR, Pisa
80. Carlo Lombardi, Professore di Impianti Nucleari, Politecnico di Milano
81. Walter Luini, Geometra
82. Roberto Madrigali, Meteorologo
83. Angelo Maggiora PhD, INFN Senior Researcher, more than 40 years experience in research at CERN, Saclay, Dubna and Frascati
84. Ettore Malpezzi, Ingegnere
85. Vania Mancinelli, Geologo, Borsista presso l'Università di Chieti
86. Ludovica Manusardi, Fisico Nucleare e Giornalista Scientifico, UGIS
87. Luigi Marino, Geologo, Centro Ricerca Previsione, Prevenzione e Controllo Rischi Geologici (CERI), Università di Roma La Sapienza
88. Alessandro Martelli, Ingegnere, già Dirigente ENEA
89. Salvatore Martino, Professore di Geologia Applicata all'Ingegneria al Territorio ed ai Rischi, Università di Roma "Sapienza"
90. Maria Massullo, Tecnologa, ENEA-Casaccia, Roma
91. Enrico Matteoli, Primo Ricercatore, IPCF-CNR, Pisa
92. Paolo Mazzanti, Professore di Interferometria Satellitare, Università di Roma La Sapienza
93. Adriano Mazzarella, Professore di Meteorologia e Climatologia, Università di Napoli
94. Marcello Mazzoleni, Docente e imprenditore nel settore della formazione, fondatore del sito web MeteoSincero
95. Carlo Merli, Professore di Tecnologie Ambientali, Università di Roma La Sapienza
96. Enrico Miccadei, Professore di Geografia Fisica e Geomorfologia, Università di Chieti-Pescara
97. Gabriella Mincione, Professore di Scienze e Tecniche di Medicina di Laboratorio, Università di Chieti-Pescara
98. Umberto Minopoli, Presidente dell'Associazione Italiana Nucleare
99. Alberto Mirandola, Professore di Energetica Applicata e Presidente Dottorato di Ricerca in Energetica, Università di Padova

100. Aurelio Misiti, Professore di Ingegneria sanitaria-Ambientale, Università di Roma La Sapienza, già Preside della Facoltà di Ingegneria, già Presidente del Consiglio Superiore ai Lavori Pubblici
101. Maurizio Montuoro, Medico
102. Renzo Mosetti, Professore di Oceanografia, Università di Trieste, già Direttore del Dipartimento di Oceanografia, Istituto OGS, Trieste
103. Daniela Novembre, Ricercatore in Georisorse Minerarie e Applicazioni Mineralogichepetrografiche, Università di Chieti-Pescara
104. Francesco Oriolo, Professore di Impianti Nucleari, Università di Pisa
105. Paolo Emmanuele Orrù, Professore di Geografia Fisica e Geomorfologia, Università di Cagliari
106. Sergio Ortolani, Professore di Astronomia e Astrofisica, Università di Padova
107. Giorgio Paglia, Geologo, Borsista presso l'Università di Chieti
108. Massimo Pallotta, Primo Tecnologo, Istituto Nazionale Fisica Nucleare
109. Antonio Panebianco, Ingegnere
110. Giuliano Panza, Professore di Sismologia, Università di Trieste, Accademico dei Lincei e dell'Accademia Nazionale delle Scienze, detta dei XL, vincitore nel 2018 del Premio Internazionale dell'American Geophysical Union
111. Antonio Pasculli, Ricercatore di Geologia Applicata, Università di Chieti-Pescara
112. Ernesto Pedrocchi, Professore Emerito di Energetica, Politecnico di Milano
113. Davide Peluzzi, Ambasciatore del Parco Nazionale del Gran Sasso e dei Monti della Laga nel Mondo nel 2017
114. Corrado Penna, Docente di Matematica
115. Enzo Pennetta, Professore di Scienze Naturali e Divulgatore Scientifico
116. Gianni Pettinari, Impiegato Amministrativo, Fondatore del gruppo Facebook: "Falsi allarmismi sul riscaldamento globale"
117. Alessandro Pezzoli, Ricercatore Universitario e Professore aggregato in Weather Risk Management, Politecnico di Torino e Università di Torino
118. Tommaso Piacentini, Professore di Geografia Fisica e Geomorfologia, Università di Chieti-Pescara
119. Stefano De Pieri, Ingegnere Energetico e Nucleare
120. Paolo M.J. Pilli, Pensionato
121. Andrea Pomezzi, Presidente Associazione Piceno Tecnologie
122. Guido Possa, Ingegnere Nucleare, già Viceministro del Ministero dell'Istruzione, Università e Ricerca con delega alla Ricerca
123. Giorgio Prinzi, Ingegnere, Direttore Responsabile della Rivista "21mo Secolo Scienza e tecnologia"
124. Franco Prodi, Professore di Fisica dell'Atmosfera, Università di Ferrara
125. Franco Puglia, Ingegnere, Presidente CCC, Milano
126. Francesca Quercia, Geologo, Dirigente di Ricerca, Ispra
127. Nunzia Radatti, Chimico, Sogin
128. Arnaldo Radovix, Geologo, Risk Manager in Derivati Finanziari
129. Mario Luigi Rainone, Professore di Geologia Applicata, Università di Chieti-Pescara
130. Mario Rampichini, Chimico, Dirigente Industriale in Pensione, Consulente
131. Arturo Raspini, Geologo, Ricercatore, Istituto di Geoscienze e Georisorse (IGG), Consiglio Nazionale delle Ricerche, Firenze
132. 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
133. Marco Ricci, Fisico, Primo Ricercatore, Istituto Nazionale di Fisica Nucleare
134. Renzo Riva, Comitato Italiano Rilancio Nucleare (C.I.R.N.), Buja
135. PierMarco Romagnoli, Ingegnere, Milano
136. Vincenzo Romanello, Ingegnere Nucleare, Ricercatore presso il Centro di Ricerca Nucleare di Rez, Repubblica Ceca
137. Piergiorgio Rosso, Ingegnere Chimico
138. Stefano Rosso, Insegnante di Geografia, Storia e Italiano, Scuola Secondaria, Modena
139. Alberto Rota, Ingegnere, Ricercatore presso CISE ed ENEL, Esperto di Energie Rinnovabili
140. Ettore Ruberti, Ricercatore ENEA, Docente di Biologia Generale e Molecolare
141. Giancarlo Ruocco, Professore di Struttura della Materia, Università di Roma La Sapienza

142. Sergio Rusi, Professore di Idrogeologia, Università di Chieti-Pescara
143. Massimo Salleolini, Professore di Idrogeologia Applicata e Idrogeologia Ambientale, Università di Siena
144. Nicola Scafetta, Professore di Fisica dell'Atmosfera e Oceanografia, Università di Napoli
145. Emanuele Scalcione, Responsabile Servizio Agrometeorologico Regionale ALSIA, Basilicata
146. Nicola Sciarra, Professore di Geologia Applicata, Università di Chieti-Pescara
147. Francesco Sensi, Generale di Divisione Aerea (R)
148. Massimo Sepielli, Direttore di Ricerca, ENEA, Roma
149. Leonello Serva, Geologo, Accademia Europa delle Scienze e delle Arti, Classe V, Scienze Tecnologiche e Ambientali, già Direttore Servizio Geologico d'Italia
150. Roberto Simonetti, Geologo, R&D c/o Azienda S.I.I.
151. Elio Sindoni, Professore Emerito dell'Università di Milano Bicocca
152. Enzo Siviero, Professore di Ponti, Università di Venezia, Rettore dell'Università e-Campus
153. Rinaldo Sorgenti, Deputy Chairman of ASSOCARBONI
154. Ugo Spezia, Ingegnere, Responsabile Sicurezza Industriale, Sogin, Movimento Galileo 2001
155. Luigi Stedile, Geologo, Centro di Ricerca Previsione, Prevenzione e Controllo Rischi Geologici (CERI), Università di Roma La Sapienza
156. Emilio Stefani, Professore di Patologia Vegetale, Università di Modena
157. Flavio Tabanelli, Fisico
158. Maria Grazia Tenti, Geologo
159. Umberto Tirelli, Visiting Senior Scientist, Istituto Tumori d'Aviano, Movimento Galileo 2001
160. Giorgio Trenta, Fisico e Medico, Presidente Emerito dell'Associazione Italiana di Radioprotezione Medica, Movimento Galileo 2001
161. Roberto Vacca, Ingegnere e Scrittore Scientifico
162. Gianluca Valensise, Dirigente di Ricerca, Istituto Nazionale di Geofisica e Vulcanologia, Roma
163. Corrado Venturini, Professore di Geologia Strutturale, Università di Bologna
164. Benedetto De Vivo, Professore di Geochimica in Pensione dall'Università di Napoli, ora Professore Straordinario presso Università Telematica Pegaso, Napoli
165. Andrea Zaccone, Geologo, Dirigente Protezione Civile Regione Lombardia
166. Luigi Zanotto, Docente in Pensione
167. Franco Zavatti, Ricercatore di Astronomia, Università di Bologna
168. Antonino Zichichi, Professore Emerito di Fisica, Università di Bologna, Fondatore e Presidente del Centro di Cultura Scientifica Ettore Majorana di Erice



### SCIENTISTS AND PROFESSIONALS FROM JAPAN

1. Masayuki Hyodo, Professor of Earth Science, Kobe University
2. Yoshihiro Muronaka, Professional Engineer, PE Office President, Energy & Environment
3. Mototaka Nakamura, Atmospheric and Oceanic Scientist (ScD in Meteorology, MIT)
4. Dr. Hiroshi L. Tanaka, Professor in Atmospheric Science, Centre for Computational Sciences, University of Tsukuba



### SCIENTISTS AND PROFESSIONALS FROM MEXICO

1. Luis Frausto, Chemical Engineer
2. Armando Páez PhD, Urbanism, Expert in Sustainability and Energy Transitions
3. Victor Manuel Velasco Herrera PhD, Space Engineer



### SCIENTISTS AND PROFESSIONALS FROM THE NETHERLANDS

1. *Prof. Dr. Ir. Guus Berkhout, Emeritus Professor of Geophysics, Delft University of Technology, Member of the Royal Netherlands Academy of Arts and Sciences; WCD Ambassador*
2. *Dr. Cornelis le Pair, Physicist, Former CEO Physics & Technology Research Organisations; WCD Ambassador*

3. Jan H. Akkerman MSc, Structural Geology, worked 19 years with Billiton in Mining and Geology and the last 20 years with DGA van Akkerman Exploration BV
4. Maarten van Anandel, Author of the 'Groene Illusie'
5. Jan Asselbergs, Mechanical Engineer who started his career with IHC. Since 1990 he is active in revitalizing medium sized companies
6. Dries Ausems MSc, Earth Sciences, Lifetime Experience as Geologist in the Geo-Energy Industry
7. René Bakers, Former Lawyer and Attorney Liability and Insurance
8. Dr. Thomas W. Bakker, Lifetime Experience in the Geo-energy Industry, Founder and former (or retired) CEO of Well Engineering Partners BV
9. Robert Becht, Lifetime R&D Experience in Water Management with emphasis on water management in East Africa
10. Frans van den Beemt, Nuclear Physicist, Former Program Director Technology Foundation STW
11. Jim van Beusekom, Retired Captain B747-400 with KLM, 35 years observational knowledge of the Earth's atmosphere
12. Andre Bijkerk, Retired Officer Royal Dutch Air Force, now Climate Researcher
13. Dr. Frans Bijlaard, professor-emeritus steel constructions, TU Delft
14. Dr. Ruud Binnekamp Msc. Integral Design and Management, teacher and researcher in design and decision systems at TU Delft
15. Peter Bloemers, Emeritus Professor of Biochemistry, Radboud University, Nijmegen
16. Albert F.T. de Booi, Founder Speakers Academy Int. BV, Founder en CEO World of Consciousness.com, Co-Founder met Pim Fortuyn van de politieke partij LPF in 2002 met als doel: oprichting zakenkabinet
17. Hans Bouman MSc, Chemistry, Professional in Production Technology and Asset Management
18. Paul M.C. Braat, Emeritus Professor of Pulmonary Physics, University of Amsterdam
19. Solke Bruin, Emeritus Professor of Product-driven Process Technology, University of Eindhoven and Former Member Management Committee Unilever Research, Vlaardingen
20. Paul Cliteur, Professor of Legal Sciences, Member of the Senate of The Netherlands
21. Albert J.H.G. Cloosterman, Retired Chemical Engineer, Publicist on Climate and Cosmological Matters
22. Charles Coleman, former executive Olivetti Group International
23. Marcel Crok, Climate Researcher and Science Journalist
24. Gerhard Diephuis MSc, Geosciences, specialized in Geophysics, Lifetime Experience in the Geo-Energy Industry, Guest Lecturer TU Delft
25. Henck van Dijck, Sculptor, designer and innovator
26. David E. Dirkse, Former Computer Engineer and Teacher Mathematics
27. Dr. Tjibbe Dokter MBA, Expert in Scenario Analysis and Risk Assessment, retired from AkzoNobel
28. Marco Draaisma, ICT Process Coördinator
29. Dr. Jan W. Drukker, Emeritus Professor Industrial Design Delft University of Technology, University of Twente and (Visiting Professor) Tsinghua University (Beijing PRC). Elected Member Regional Parliament of the Dutch Province Drenthe
30. Arjan Duiker, Process Technologist at Tata Steel, specialist on Thermodynamics and Fluid Mechanics
31. Louw Feenstra, Emeritus Professor Erasmus University and Philosopher, Rotterdam
32. Henk Goemans MSc, Geosciences, specialized in Reservoir Engineering
33. Frans H Gortemaker, Former Vice president Unilever Global R&D
34. W. J. Evert van de Graaff, Consulting Geologist, 50+ years Global Experience
35. Ton J.T. Grimberg, Oil & Gas Professional, Finance Adviser
36. Kees de Groot, Former Director Upstream Research Lab. Shell
37. Paul de Groot PhD, Geoscience, Manager dGB Earth Sciences
38. Lex A. van Gunsteren, Marine propulsion expert, former director of Corporate Planning and R&D of the Royal Boskalis Westminster Group, former professor of Technology at TU Delft and Erasmus University
39. Leo Halvers, Former Director Billiton Research Arnhem and Former Director Technology Foundation STW
40. Hans Hamaker, University Degree in Phonetic Sciences, expert in biomechanics of speech, supporter of plasma cosmology, former wireless communication officer



41. Maarten Hardon BSc, Civil Engineering, Lifetime Experience in Offshore Industry, Director Venty BV
42. Eduard Harinck, Former Logistics Expert, Nedlloyd Group/KPMG Consulting
43. Godard Hazeu MSc, Geosciences, specialized in Geology, past Technical Director of the Dutch State Oil and Gas Company EBN
44. Edward Heerema Msc in Civil Engineering TU Delft, President of Allseas, worldwide active in offshore pipelaying and platform lifting
45. J.R Hetzler, Retired WUR Engineer Forestry Economics
46. Jan F. Holtrop, Emeritus Professor of Petroleum Engineering, Delft University of Technology
47. Hans Hombroek MSc, Geoscience, Lifetime Experience in the International Geo-Energy Industry
48. Tom Hoornstra, Air-conditioning Engineer
49. Jan Horstink, Earth Scientist, Exploration Projects Oil & Gas ME & FE
50. A. Huijser, Physicist and Former CTO Royal Philips Electronics
51. Jan C. de Jong Msc Process Engineering TU Delft, expert in energy-and thermal process engineering, lifetime career in the oil and gas industry
52. Wouter J. Keller, Emeritus Professor of Statistical Methods, Former Member Board of Directors, Central Bureau of Statistics (CBS)
53. Jacques van Kerchove, Economist and Marketeer, Former CFO Rabobank, now Climate and Environment Researcher
54. Rob de Kok, Principal Geophysicist, researching Influence of CO2 on Atmospheric Temperatures
55. Hans Kolmschate, Chemical Engineer
56. Henk de Koning MSc, former Principal Management Consultant Atos Consulting with specialisation Logistics, IT and Information Security
57. Rob W.J. Kouffeld †, Emeritus Professor of Energy Conversion, Delft University of Technology
58. Hans H.J. Labohm, Former Expert Reviewer IPCC
59. B.G. Linsen, Former Director Unilever Research Vlaardingen
60. Jaap M. van Luijk, Msc. Petroleum Engineering, lifetime experience in the international geo-energy industry
61. Pieter Lukkes, Emeritus Professor of Economic and Human Geography, University of Groningen
62. Hugo Matthijssen, Former Teacher Meteorology, now Publicist on Climate Matters
63. Ir. J.M. Mulderink, Former General Director Akzo-Nobel
64. Rob Nijssen, Radar Engineer and Publicist on Climate Matters
65. Rutger van den Noort PhD, Advisor in Innovation Processes, CEO Newcalf
66. Peter Oosterling, Former Scientist E & P Shell, now active as Climate Researcher
67. Kees Pieters, Mathematician, Former Operational Research and ICT manager at Shell
68. Reynier Pronk, Former IT Manager, Accredited Project Management Consultant and Trainer
69. Paul Ras Msc Geophysics TU Delft, Geophysical Consultant, climate realist
70. Ir B. Peter Rauwerda Msc. in nuclear engineering, TU Delft
71. Louis M.P.T. van den Reek, PharmD, Member of 'De Groene Rekenkamer'
72. Jan C. Reinoud, retired CEO Dutch chain of Supermarkets
73. Kees Remi, Electrical Engineer, lifetime experience in Energy Distribution and Industrial Automation
74. Joseph Reynen, Finite Element Modeling Expert, Retired from EU Joint Research Centre in Ispra, Emeritus Associate professor TU Delft
75. G.T. Robillard, Emeritus Professor of Biochemistry and Biophysics
76. Jaap Romijn Msc in Civil Engineering TU Delft, lifetime experience in water management projects
77. Kees Roos, Emeritus Professor of Optimization Technology, Delft University of Technology
78. Rutger van Santen, Emeritus Professor of Anorganic Chemistry and Catalysis, Former Rector Magnificus, Eindhoven University
79. Don Schäfer, Former Director Shell Exploration & Production and New Business, Shell
80. Dr. Rob Schoevaart, Biocatalist, Co-founder and Managing Director of ChiralVision, being specialised in making chemical processes greener
81. Chris Schoneveld, Earth Scientist and Retired Shell Exploration Geophysicist

82. Frans Schrijver, Strategy Consultant and Climate Publicist
83. Bert Sigmond, Geologist, Founder of EuGeNe Company in Geothermal Energy
84. Hendrick Smit, Chemical Engineer, specialised in Environmental Instrumentation
85. Jos de Smit, Emeritus Professor of Stochastic Operations Research and Former Rector Magnificus of the University of Twente
86. Barend-Jan Smits, Geologist, Former Director of Wintershall Nederland, BASF Group
87. Albert Stienstra †, Emeritus Professor of Computer Simulation and Micro-Electronics, Delft University of Technology
88. P.J. Strijkert, Former Member Board of Directors of DSM, Delft
89. Hans van Suijdam, Former Executive Vice President Research and Development DSM
90. Dick Swart, MSc; worldwide drilling expert, lifetime of experience in the geo-energy industry
91. Dr. Harry C. M. de Swart, Emeritus Professor of Logic and Language Analysis, University of Tilburg and Erasmus University Rotterdam, Author of the book 'Philosophical and Mathematical Logic'
92. Peter van Toorn, Former Research Geophysicist Shell
93. Fred Udo, Emeritus Professor of Nuclear Physics, Vrije Universiteit Brussels
94. Ir. Arnold Uijlenhoet, retired electrical engineer with degree from Technical University Delft and postgraduate studies at the University of Pittsburgh (U.S.A). Lifetime international experience in power generation, transmission, and distribution
95. J.F. van de Vate, Former Director ECN, Petten, Former UN Delegate IPCC
96. Jan Verheij, Retired Scientist Applied Physics at TNO Delft, Emeritus Professor of Noise Control Engineering at Eindhoven University of Technology
97. Hans Verschuur MSc, Geosciences, specialized in Mining
98. H. Verveer, Civil Engineer, lifetime experience in maritime infrastructure and building services
99. Jannes. J. Verwer, Former Director ECN and Former Chairman Supervisory Board State Owned Radio Active Waste Storage Facilities
100. Dr Koen Vogel, Geologist and Geostatistician, lifetime experience in numerical modelling, proficient in evaluating and developing global energy projects
101. Henk van der Vorst, Emeritus Professor of Numerical Mathematics, University of Utrecht
102. Bart Vos, Msc Petroleum Engineering, Lifetime of Experience in the Geo-energy Industry
103. Rob de Vos, Geographer and Editor of "Klimaatgek"
104. Henk de Vries, lifetime experience in organised crime, expert in digital forensics
105. Jaap van der Vuurst de Vries, Emeritus Professor of Petroleum Engineering, Former Dean Faculty of Applied Earth Sciences, Delft University of Technology
106. Dr. André Wakker, energy expert, lifetime experience in nuclear energy, speaker and writer on energy transition
107. Karel Wakker, Emeritus Professor of Astrodynamics & Geodynamics, Delft University of Technology
108. Robert N. Walter MSc E.E., Member Advisory Board 'De Groene Rekenkamer'
109. Cyril Wentzel, Multi-Physics Engineer and Chairman of Environmental Think Tank 'Groene Rekenkamer'
110. Frans A. van der Werf, Master of Law, Owner of an International Business for Management, Consultancy and Finance
111. Dolf van Wijk, Formerly AkzoNobel Environmental Research Laboratory and Former Executive Director Cefic-Euro Chlor, Brussels
112. Jan Winkel MSc, Chemical Engineering, specialization in Natural Gas Projects, Lifetime Experience in the Geo-Energy Industry
113. Theo te Winkel, Geo Scientist and International Health Care Specialist
114. W.J. Witteman, Professor of Applied Physics and CO2 Lasers, University of Twente
115. Theo Wolters, Chairman Environment, Science & Policy Foundation, Co-founder 'Groene Rekenkamer' and 'Climategate.nl'
116. Dr. E.J. (Ed) Zuiderwijk, Retired Astrophysicist and Data Manager



## SCIENTISTS AND PROFESSIONALS FROM NEW ZEALAND

1. Barry Brill OBE, Previously Minister of Science and Technology; WCD Ambassador
2. Deborah Alexander, Agricultural Scientist
3. Jock Allison, Retired Agricultural Scientist, Ministry of Agriculture

4. Paul A. Catchpole, Qualified Land Surveyor & Fellow of New Zealand Institute of Surveyors, Retired Ex Commissioner of the New Zealand Environment Court
5. Roger High Dewhurst, Retired, Geologist/Hydrogeologist
6. Terry Dunleavy † MBE, Co-Founder (2006) and Honorary Secretary New Zealand Climate Science Coalition
7. Geoffrey. G. Duffy, Professor Emeritus, University of Auckland
8. Doug Edmeades, Managing Director agKnowledge Ltd.
9. Professor Michael J Kelly, MA, PhD, SCD, MAE, Emeritus Prince Philip Professor of Technology at the University of Cambridge, Fellow of the Royal Society, Fellow of the Royal Academy of Engineering, Fellow of the Institute of Physics, Fellow of the Institution of Engineering and Technology, Senior Member of the Institute of Electronic and Electrical Engineering
10. Joe Fone, CAD Engineer, Enatel Ltd.
11. Gary Kerkin, Retired Chemical Engineer, Upper Hutt. Executive member New Zealand Climate Science Coalition
12. Brian Leyland, Power Systems Engineer and Experienced Renewable Energy Specialist
13. Gerrit J. van der Lingen, Geologist and Paleoclimatologist, New Zealand, Author of the Book "The Fable of Stable Climate"
14. Dr. John Maunder, Climate Scientist, President of the WMO Commission for Climatology 1989-1996
15. John Scarry ME (Civil), Structural Engineer, Member of the New Zealand Climate Science Coalition
16. John Sexton, Member of the New Zealand Climate Coalition
17. David Shelley, Emeritus Associate Professor Geology and latterly Dean of Postgraduate Studies, University of Canterbury, Christchurch
18. Philip Strong, Science Research Leader & Member of the New Zealand Climate Coalition
19. Richard Treadgold, Executive Member NZ Climate Scienc Coalition, Convenor Climate Conversation Group
20. Ian Wright, Professional Geologist



## SCIENTISTS AND PROFESSIONALS FROM NORWAY

1. *Ivar Giaever, Nobel Laureate Professor, Nobel Prize Winner in Physics, Emeritus Professor of the Rensselaer Polytechnic Institute, Chief Technology Officer of Applied Biophysics Inc., Fellow of the American Physical Society; Honorary WCD Ambassador*
2. *Jan-Erik Solheim, Professor Emeritus Astrophysics, University of Tromsø – The Arctic University of Norway; WCD Ambassador*
3. Gunnar Abrahamsen, Professor Emeritus Soil Science, University of Life Sciences
4. Knut Åm, retired geoscientist, holding positions at the Geological Survey of Norway, the Norwegian Petroleum Directorate, Statoil (R&D Manager), several positions with Phillips Petroleum Company both in Norway and the United States and adjunct Professor of Geophysics at the University of Bergen, Norway. Knut Åm is Honorary member of The Norwegian Academy of Technological Sciences
5. Egil Bergsager MSc of UCLA, and also University of Oslo, Petroleum Geologist, Director Norwegian Petroleum Directorate, President Rogaland Science Park. Board member of many advanced technology companies
6. Stein Sorlie Bergsmark, Phycisist, Former Head of Renewable Energy Studies Programmes, University of Agder
7. Dr. Hans Borge, Associate Professor in Mathematics, University of Stavanger
8. Reidar Borgstrøm, Professor Emeritus in Fishbiology and Nature Conservation, University of Life Sciences
9. Ole Henrik Ellestad, Physical Chemist. Former Research Director and Professor in Petrochemistry at the Centre for Industrial Research and University of Oslo. Former Managing Director of Norwegian Computer Centre. Former Division Director of Norwegian Research Council. Previous Chairman of the Board, Klimarealistene
10. Jon Gulbrandsen PhD, Biologist, Associate Professor NOFIMA and NOAA (USA)
11. Arve Gleissner Gustavsen, Msc in Cybernetics, Lifelong Experience in Design and Engineering
12. Røgnvaldur Hannesson, Professor Emeritus, Norwegian School of Economics
13. Geir Hasnes, Adjunct Associate Professor, Institute of applied Cybernetics, Norwegian University of Science and Technology

14. Martin Torvald Hovland, Geophysical and Geological Advisor, Former Lecturer at University of Tromsø
15. Ole Humlum, Professor Emeritus in Physical Geography, University of Oslo
16. Morten Jødal †, Biologist, Former Employee of the Norwegian Research Council and the Centre for the Development and Environment at the University of Oslo
17. Dr. Ing. Hans Konrad Johnsen, Dr. Ing.
18. Arnfinn Langeland, Professor Emeritus Biology, Norwegian University of Science and Technology
19. Willy Nerdal, Professor of Chemistry, University of Bergen
20. Elen Roaldset, Emertitus Professor in Geology, University of Oslo, Former Director of Natural History Museum Oslo, Professor at Norwegian University of Science and Technology
21. Ulf Torgny Rock, Master of Chemical Engineering, Norsk Hydro
22. Håkon Gunnar Rueslåtten, Geological Researcher, Trondheim
23. Tom V. Segalstad, Associate Professor Emeritus of Geochemistry, University of Oslo
24. Jørgen Stenersen, Professor Emeritus Eco-Toxicology, University of Oslo



### SCIENTISTS AND PROFESSIONALS FROM PARAGUAY

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



### SCIENTISTS AND PROFESSIONALS FROM THE PHILIPPINES

1. Melanchthon Bernil, Professional Chemical Engineer



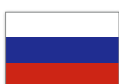
### SCIENTISTS AND PROFESSIONALS FROM POLAND

1. Marek Boinski, Chairman of the National Section of Energy Workers' Union NSZZ
2. Zbigniew Gidzinski, Advisor to the Chairman of the Silesian Region of the Solidarity Union in charge of the climate policy as well as a former Secretary of the National Energy Security Team of the Chancellery of the President of Poland
3. Jaroslaw Grzesik, Chairman of the National Secretariat of Mine and Energy Workers' Union NSZZ
4. Dominik Kolorz, Chairman of the Slasko-Dabrowski Region of NSZZ



### SCIENTISTS AND PROFESSIONALS FROM PORTUGAL

1. Demétrio Carlos Alves, Chemical Engineer, specialized in Processes and Systems, Postgraduate in Legal Issues of Urban Planning, University of Lisbon
2. Rui Cruz, Pharmaceutical Development Scientist, PhD In Chemical and Biological Engineering (Material Science Focus for Solar Energy Applications)
3. Pamela Matlack-Klein, Member of Portuguese Sea Level Project, USA
4. Dr. Peter Stallinga, Professor Associado com Agregação, Universidade do Algarve, Portugal, Faculty of Sciences and Technology, Department of Electronic Engineering and Informatics



### SCIENTISTS AND PROFESSIONALS FROM RUSSIAN FEDERATION

1. Habibullo Abdussamatov, Head of the Space Research Sector of the Sun, Pulkova Observatory RAS and Head of the Lunar Observatory Project on Monitoring of the Climate
2. Vladimir G. Kossobokov, Chief Scientist, Professor Expert, Russian Academy of Sciences Past Vice-Chair, IUGG "GeoRisk" Commission (IUGG Commission on Geophysical Risk and Sustainability) Core Member, ISSO (International Seismic Safety Organization)
3. Henni Ouerdane, Assistant Professor, Manager of the Energy Systems PhD Programme, Skolkovo Institute of Science and Technology, Moscow Region
4. Dr. Michael Petelin, professor of the University of Nizhny Novgorod, head researcher of the Institute of Applied Physics, Nizhny Novgorod



## SCIENTISTS AND PROFESSIONALS FROM SOUTH AFRICA

1. Rosemary Falcon, Emeritus Professor Clean Coal Technology Research Group at the University of Witwatersrand, Director Fossil Fuel Foundation
2. Dennis Shaun Garisch BSc (Civil) Eng, Professional Engineer registered with Engineering Council of South Africa (ECSA), over 30 years of practice, inclusive of many storm water management designs
3. Kelvin Kemm PhD, Nuclear Physicist, CEO Nuclear Africa, Pretoria
4. Dr. John Ledger PhD, Visiting Associate Professor at the University of the Witwatersrand, Energy and Environmental Consultant, Consulting Editor, Freelance Writer, Editor and Lecturer
5. Don Mingay, Retired Professor of Nuclear Physics
6. Dr. Henrique J.S. de Barros Pinheiro, Geologist, Invited Associate Professor, Universidade Fernando Pessoa, Porto, Portugal



## SCIENTISTS AND PROFESSIONALS FROM SOUTH KOREA

1. *Dr. Seok Soon Park, Professor of Environmental Science and Engineering, Ewha Womans University, Seoul, Founder of the Climate Truth Forum; WCD Ambassador*



## SCIENTISTS AND PROFESSIONALS FROM SPAIN

1. *Blanca PargaLanda PhD, Modelling Expert, specialist in Environmental Law; WCD Ambassador*
2. Ferran Brunet, Professor on the European Economy, Unniversitat Autònoma de Barcelona
3. Maria Teresa Estevan Bolea, Ingeniero Laureado 2019 Royal Spanish Academy of Engineering. World Award 2018 In Engineering WFEO (World Federation of Engineering Organizations), National Prize in Industrial Engineering 2019.
4. Climatology and doing Research on the topic, University of Zaragoza, Dep. Geografia
5. Antonio J. Huertas, Engineer with 35 years experience in Energy Politics and Operation, and Environmental Care
6. Luis Pomar, Emeritus Professor of the University of the Balearic Islands, Spain, Sedimentologist specialized in the study of Carbonate Rocks which the Impact of CO<sub>2</sub> and Paleoclimate are essential to understand the origin of these rocks



## SCIENTISTS AND PROFESSIONALS FROM SWEDEN

1. *Ingemar Nordin, Emeritus Professor Philosophy of Science, Linköping University; WCD Ambassador*
2. Michael Andersson Bsc in biology, medical doctor, retired Chief Medical Officer at a battalion of the Swedish Airforce
3. Leif Åsbrink PhD, Technology at KTH in Molecular Physics, Stockholm
4. Sture Åström MSc, Technology, Professional in Climate Issues, Secretary of the Swedish Network Klimatsans
5. Rolf Bergman, Emeritus Professor of Physical Chemistry, Uppsala University
6. Dr. Lars Bern, Member of The Royal Swedish Academy of Sciences, Retired CEO in Incentive AB
7. Magnus Cederlöf, Software Specialist, Stockholm
8. Tore Dalväg 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'
9. Hans Eklund PhD, Technology, Acting Professor at the Department of Laser-and Electro-optics, Chalmers University of Technology, Gothenburg
10. Per-Olof Eriksson, Physicist, Former CEO of Sandvik Group
11. Dr. Anders Flodin PhD, Mechanical Engineering, NC, USA
12. David D. Gee, Professor Emeritus Orogen Dynamics, Uppsala University
13. Anders Grufman MSE, MA Economics, Industrial and Environmental Economics
14. Jan Hagberg PhD, Statistics, Stockholm
15. Lars Hässler PhD, Rock and Soil Mechanics, Bsc Chemistry and Biology, MSc Civil Engineering
16. Eilif Hensvold PhD, Mathematics, Associate Professor of Mathematics (Retired), Simulation of Large-scale Industrial Systems, Uppsala University, Luleå Technical University

17. Gunnar Holmgren PhD, Space Physics, Retired Head of Dept. of Engineering Sciences, Uppsala University
18. Mats Janson MSc, Electrical Engineering, KTH Royal Institute of Technology, Stockholm
19. Hans Jelbring, Climate Researcher
20. Göran Johansson, Specialist in Energy Systems
21. Claes Johnson, Emeritus Professor of Mathematics at Royal Institute of Technology, Stockholm
22. Gunnar Juliusson, Professor of Hematology, Lund University, Senior Consultant, Skåne, University Hospital, Lund
23. Sten Kaijser, Emeritus Professor of Mathematics, Uppsala University
24. Johnny Kronvall Mah, Emeritus Professor in Building Physics, Malmö University and Lund University
25. Lars E. Linder, Associate Professor of Medicine, Gothenburg
26. Rune Lundgren MSc, Helsinki University of Technology, Energy System Expert
27. Johan Montelius, Associate Professor of Computer Science at the Royal Institute of Technology, Stockholm
28. Jacob Nordangård PhD, Technology and Social Change at the University of Linköping, Researcher on Climate Change History
29. Gösta Pettersson, Emeritus Professor in Biochemistry, University of Lund
30. Marian Radetzki, Emeritus Professor of Economics, Luleå University of Technology
31. Mats Rosengren, Mathematics, Space Flight Trajectory Specialist
32. Torsten Sandström, Professor Emeritus, Department of Law, University of Lund
33. Rabbe Sjöberg PhD, Geology, Member of Paleogeophysics & Geodynamics Institute
34. Peter Stilbs, Emeritus Professor of Physical Chemistry, Royal Institute of Technology (KTH), Stockholm
35. Lars H. Thylen, Professor Emeritus in Photonics, Dept. of Theoretical Chemistry and Biology, Royal Institute of Technology, Stockholm, specializing in Low Power Nanophotonics Technology
36. Gösta Walin, Professor Emeritus in Oceanography at University of Gothenburg
37. Elsa Widding, Consultant, Author on Climate Change, Stockholm
38. Lech Wosinski, Researcher Emeritus, Associate Professor, Royal Institute of Technology, Stockholm



## SCIENTISTS AND PROFESSIONALS FROM SWITZERLAND

1. Thomas Binder, Cardiologist and Internist
2. Rene Funk, Software engineer, specialized in Analysing Satellite, Sea and land Temperature
3. Werner Furrer MSc, Mathematics and Physics, President of the Climate Realistic Group in Switzerland
4. Christian Jacot, Pharmacist
5. Joseph Ongena, Member of the Permanent Monitoring Panel for World Energy, World Federation of Scientists, Geneva
6. Dr. Jean-Claude Pont, Dr. Math., Emeritus Professor of The History of Philosophy of Sciences, University of Genève
7. Dr. Franz-Karl Reinhart, Emeritus Professor of Physics, Lausanne
8. Claude Roessiger, Entrepreneur and Author of several Books on Organizational Management and Public Policy, Organiser and Chairman of the Portsmouth Conference 2018 on Climate Policies
9. Dr. Lars Schernikau, Energy Economist, Entrepreneur & Author



## SCIENTISTS AND PROFESSIONALS FROM UK

1. *Christopher The Viscount Monckton of Brenchley, Peer of the Realm and Author of several reviewed papers on Climate; WCD Ambassador*
2. Neils C. Arveschoug, Geophysicist, Private start-up Oil E&P Company
3. Andrew P. Barker, Biological Chemist
4. Paul Binns, Former Research Geoscientist and Climate Researcher
5. David Bodecott, Geologist/Geophysicist, Fellow of the Geological Society of London
6. D.Q. Bowen, Emeritus Professor of Earth and Ocean Sciences, Fellow International Union for Quaternary Research, Cardiff University

7. Michael Brown, Expert in Large Scale Thermal Fluid Dynamic Models
8. Brian R. Catt, Physicist, Electrical Engineer, Retired, publishing papers on Energy and Climate Change
9. John C.W. Cope, Professor of Geology, National Museum Wales, Cardiff
10. Richard Courtney, Retired Material Scientist, Expert Peer Reviewer of the IPCC
11. Peter Cunningham, Expert in Mathematical Modelling of Complex Physical Phenomena
12. Isabel Davies, Geophysicist and Entrepreneur
13. John Dewey, Emeritus Professor of Geology at the University College Oxford, Distinguished Emeritus Professor University of California, Member of the US National Academy of Sciences, Fellow of the Royal Society
14. Howard Dewhurst FGS, Geologist, Initiator Open Letter to the Geological Society of London
15. Gregor Dixon FGS, Geologist, Former Member Geological Society of London
16. Roderick Paul Eaton, MBA FIET MCMI, Retired Consultant Energy Industry Analyst/Management Consultant
17. Peter Etherington-Smith, Geologist/Oceanographer, Coral Reef Researcher, MSc Petroleum Engineering (Imperial), life-time international experience in developing countries, retired from BG
18. Gil Gilchrist, Geophysicist
19. Peter Gill, Physicist, Ex Chair Institute of Physics Energy Group, Ex London Branch Chair & Fellow of EI
20. Delphine Gray-Fisk, Former airline pilot, and parliamentary candidate for both the UK Independence Party and Brexit Party
21. Mick Greenway, specialized in 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
22. 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
23. Jimmy Haigh, Independent Geological Consultant
24. Tim Harper, Geomechanics Consultant and Researcher, previous Recipient of the Royal Academy of Engineering MacRobert Award for Engineering Innovation
25. John Harrison, Former Chartered Physicist and Chartered Engineer
26. Peter Harvey, Project Manager – Renewable offshore wind industry
27. Robert Heath, Retired Geophysicist, Honorary member of the Indian Society of Petroleum Geologists
28. Alex Henney, Formerly London Electricity Board, Consultant on Electricity Matters
29. Roger Higgs, DPhil (Oxon), Independent Geological Consultant, Geoclastica Ltd.
30. Keith H. James PhD, Consultant Geologist
31. David A.L. Jenkins, Geologist, Director Hurricane Energy plc
32. Dr. Chris Jesshope, Emeritus Professor University of Amsterdam, Director Techne Consulting Ltd.
33. Geoffrey W. Lane, retired Marine Engineer and Technical Author
34. Roger Longstaff, Experimental Space Physicist and Company Director
35. CJ Matchatte-Downes, Geologist and Geochemist, particularly involved in studies about past Climates including Glaciation
36. Philip Mulholland, Geoscientist, Life time experience in the Geo-Energy Industry, co-author of the DAET climate model
37. Stuart Munro, Exploration Geologist and Geophysicist
38. Edward Nealon, Geologist Member of the Australian Institute of Mining & Metallurgy
39. Blair Nimmo, Electronic Engineer, working in Computer Networking and Optical Surface Metrology and Fibre Optics
40. Michael John Oates, Geologist, Lifetime Experience in the Geo-Energy Industry, Fellow of the Geological Society of London
41. Peter Owen FGS, Fellow of the Geological Society of London
42. Dennis Paterson, Geologist, Retired
43. Dr. James Petch, Physical Geographer, formerly Reader in Environmental Science at MMU and Head of Distributed Learning at the University of Manchester
44. Peter Phillips BSc Hons Mechanical Engineering, lifetime experience in the geo-energy industry
45. Clive Randle, Geologist, Fellow of the Geological Society of London
46. Michael J. Rath, Professional Forrester

47. Dr. Colin Richard Reeves, Emeritus Professor of Operational Research, Expert in Mathematical Modelling
48. Ceri Reid, Researcher, Engineer and Manager
49. Michael F. Ridd, Geologist, Fellow of the Geological Society of London
50. Anthony Robb PhD, Retired Chemist
51. Richard Saumarez, Biomedical Engineer from Imperial College
52. Michael Seymour, Geologist, Fellow of the Geological Society of London
53. Stephen Taylor PhD, Infra-Red Physicist and Tidal Hydrographer, MD Geomatix Ltd., Member of Inst. of Physics, Member of Inst. of Electrical and Electronic Engineers, Associate Fellow of Royal Institute of Navigation, Member of the Hydrographic Society
54. Leslie Thomson, Retired Vice President Operations, BP Exploration, Aberdeen
55. Matthew D. Waggener, Financial professional, strategic consultant on business investments
56. Dr. Glenn K. Wakley, Emeritus Associate Professor Biological Science, Fellow of the Royal Society of Biology and member of The Anatomical Society
57. Professor David Wastell, Emeritus Professor of Information Systems at the University of Nottingham
58. Jay Willis, Marine Scientist, Associate of the OxNav Group of Oxford University
59. Valentina Zharkova, Professor of Mathematics and Astrophysics, Northumbria University, Newcastle upon Tyne



## SCIENTISTS AND PROFESSIONALS FROM USA

1. *Richard Lindzen, Emeritus Professor Atmospheres, Oceans and Climate, MIT; WCD Ambassador*
2. 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. Previously, prof. Akasofu had been director of the University's Geophysical Institute
3. Ralph B. Alexander, Emeritus Professor of Physics, Science Writer
4. Anthony J. Armini, Retired Founder and CEO Implant Sciences Corp.
5. Dr. Malgorzata Askanas, Senior R&D Associate at the Aurora Biophysics Research Institute
6. Hans-Peter Bähr, Emeritus Professor of Pharmacology, Canada and Former Dean of Basic Medical Sciences, American University of Barbados, Barbados
7. Donna Barr, lifetime career as investigative journalist worldwide
8. Captain Walter Bates, flew virtually all of United Airline's aircraft all over the world, including everything from the old DC-6 up through the largest Boeings such as the B-777 and the B 747- 400; from his lifetime of experience he knows that the so-called man-made Mid-Troposphere Hot Zone just does not exist
9. Charles G. Battig, Climate Adviser, Heartland Institute
10. 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
11. Larry Bell, Endowed Professor of Space Architecture, University of Houston
12. Frank X. Bellini, Geologist and Environmental Scientist, lifetime experience in the nuclear power industry
13. David J. Benard, Chemical Physicist & Co-inventor of the Oxygen-iodine Chemical Laser
14. Edward X. Berry PhD, Atmospheric Physicist, American Meteorological Society, Author, Climate Physics LLC
15. Ronald Berti, lifetime career in the semiconductor industry
16. Brent J. Bielema, studied Economics at Northern Illinois University, professional nutritional counselor
17. Jared L. Black, Numerical Analysis Consultant, ScD
18. Elliott D. Bloom, Emeritus Professor of Particle Physics and Astrophysics, KIPAC-SLAG, Stanford University
19. David Boleneus, Professional Geologist
20. Daniel Botkin, Emeritus Professor of Biology, Climate Researcher, Author of the Book: Twenty-five Myths That Are Destroying the Environment
21. Robert L. Bradley jr., CEO and Founder of the Institute for Energy Research
22. Dr. William Briggs, Alumnus Cornell University, Writer and Philosopher



23. Clare Livingston (Bud) Bromley III, BS Natural Sciences, scientific instruments executive
24. James W. Buell PhD, Aquatic Biologist, Consultant
25. 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
26. David Burton, System and Computer Scientist, Expert Reviewer of AR5 and AR6, Member of the CO2 Coalition, and Creator of the SeaLevel.info website
27. Mark Shane Butler, MA in mathematics, lifetime career in data science
28. Roger Caiazza, Pollution Meteorologist, life time experience in the electric generating business, retired Director of the Environmental Energy Alliance of New York, currently managing the blog Pragmatic Environmentalist of New York
29. Ron Cakebread, mechanical engineer with 35 years in the industrial automation business; experience in modeling, simulation, and analysis of very complex systems
30. Sharon R. Camp PhD, Retired Analytical Chemist and Environmental Scientist
31. Nick Capaldi PhD, Author Books on Logic, the Scientific Method and the Philosophy of Science
32. John Carr, Electronic Engineer, specialised in antenna and satellite installations
33. Terigi Ciccone, Engineer, author of "A Hitchhiker's Journey Through Climate Change," and a proud former Sierra Club member
34. Roy Clark, Climate Researcher, Retired Engineer, California
35. Sabin W. Colton PhD, Biochemist and Marine Biologist
36. Martin Cornell, Retired Senior Scientist, Dow Chemical Company
37. John Curtin Msc in Economics, lifetime experience in strategic planning and forecasting
38. 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
39. Raphael D'Alonzo, Analytical Chemist, Retired Associate Director, the Proctor & Gamble Company
40. George Davey, Physicist, University of Iowa
41. Donn Dears, GE Company Engineer, and Senior Executive, Retired, Author of 'Net-zero Carbon, The Climate Policy Destroying America'
42. James DeMeo PhD, Retired Expert in Earth and Atmospheric Science, Oregon
43. David Deming, Professor of Arts & Sciences, University of Oklahoma
44. William Robert Detzner, retired special education teacher, fighter against the continuing reduction of personal freedom
45. Terry Donze, BS-Geological Engineering, Lifetime Career in Geophysical Consulting
46. Michael Down, Petroleum Engineer, lifetime experience in the geo-energy industry
47. Jack D. Downing, Geologist and Geophysicist
48. Paul Driessen, Senior Policy Advisor, Committee for a Constructive Tomorrow (CFACT) and Congress of Racial Equality (CORE)
49. John Droz jr., Physicist, Founder of AWED Alliance
50. Dr. William DuBroff PhD Metallurgy, Former Director of Research Inland Steel, Former Asst. Professor Clemson University
51. John Dale Dunn MD, JD, Lecturer Carl R. Darnall Army Medical Center, Fort Hood, Texas
52. Richard G. Eramian, BA in Mathematics and physics
53. Vincent Esposito, Adjunct Professor University of Pittsburg, PA, Doctor of Science in Nuclear Engineering (Un. of Virginia), Retired Manager from Westinghouse Electric Company
54. Peter Farrell, Fellow of the US National Academy of Engineering
55. Ralph English Fidler, Professional Aerospace Engineer
56. Rex Fleming, Research Scientist, Author of Book on Carbon Dioxide Fallacy, Retired President Global Aerospace
57. Jim Folcik, Geosciences Manager Extraction Oil & Gas
58. Dr. Neil Frank, Lifetime of Experience in Research and Forecasting in Tropical Meteorology, Former Director National Hurricane Center
59. Patrick Frank PhD, SLAC National Accelerator Laboratory, Stanford University
60. Gordon J. Fulks, Astrophysicist, Board of Directors CO2 Coalition, Co-founder Global Warming Realists
61. Lynn Warren Funk, accelerator physicist, climate realist
62. Terry Gannon, Physicist, Retired Semiconductor Executive

63. Nicholas De Gennaro PhD, PE, Coastal Engineer, Southport North Carolina
64. 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
65. Ulrich H. Gerlach, Professor of Mathematics, Ohio State University
66. Ivar Giaever, Nobel Laureate Professor, Nobel Prize Winner in Physics, Emeritus Professor of the Rensselaer Polytechnic Institute, Chief Technology Officer of Applied Biophysics Inc., Fellow of the American Physical Society; Honorary WCD Ambassador
67. Dr. J.D. Gold, lifetime experience in Clinical Psychology; worked in the frontlines of the war against the madness of terrifying people
68. 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
69. Steve Goreham, Executive Director, Climate Science Coalition of America
70. Laurence I. Gould, Professor of Physics, University of Hartford, Past Chair, New England Section of the American Physical Society
71. Mike Gruntman, Professor of Astronautics, Space Physics and Space Technology, Space and Rocket History University of Southern California
72. Kenneth Haapala, President of the Science and Environmental Policy Project (SEPP), compiler of The Week That Was newsletter, and contributor to the NPCC reports. He is an energy and economics modeler and past president of the oldest science society of Washington
73. Lyle W. Hancock, Professional Mathematician
74. Dr. William Happer, Professor Emeritus in the Department of Physics at Princeton University
75. Bryan Haycock PhD, Adjunct Faculty at a University in the state of Utah
76. Howard C. Hayden, Emeritus Professor of Physics, University of Connecticut
77. David Heald, Retired Electrical Engineer
78. Dennis E. Hedke, Lifetime Career in Earth Sciences, Consulting Geophysicist; in 2018 Hedke was co-presenter of the testimony on Sea Level Rise before the Committee on Environmental protection of the New York City Council
79. Oliver Hemmers, Retired Executive Director of the Harry Reid Center at the University of Nevada, Las Vegas
80. Gary L. Hoe P.E., Retired Colonel USAF, Technical Director of several Nuclear Weapon Effects Tests at the Nevada Test Site, Member Scientists for Accurate Radiation Information (SARI)
81. Jim Hollingworth, Social Scientist, Book: 'Climate Change: A Convenient Truth'
82. Dr. Gary M. Hoover, Geophysicist, Lifetime Experience in the Geo-Energy Industry, Retired Member Board of Directors Geo-Service Company
83. Christopher Paul Horger, lifetime experience in optical network design
84. Walter Horsting, leads national and international teams in high-profile projects, including Clean Energy, Entertainment Venues, Governmental Headquarters, Performance Centers, Resorts, Stadia, and Theme Parks. He is advocate of 4th generation Molten Salt Reactors
85. Edward Huff PhD, Retired NASA Senior Scientist
86. Kathryn E. Kelly, President Delta Toxicology
87. Hugh Kendrick PhD, Retired Director Plans and Analysis, Office of Nuclear Reactor Research, US Dept. of Energy, Fellow American Physical Society
88. Stephen C. Knowles, Marine Scientist and Geologist, Beacon, New York
89. Kenneth D. Kok, retired Nuclear Engineer, ASME Fellow, Past Chair of the ASME Nuclear Engineering Division and the ASME Energy Committee
90. Wayne P. Kraus, Member American Institute of Chemical Engineers (AIChE)
91. Jay Lehr PhD, Senior Policy Analyst for the International Climate Science Coalition, Former Science Director of the Heartland Institute
92. David P. Lentini, Chemist and Patent Attorney, New Hampshire
93. Dr. David H. Lester, PhD in Chemical Engineering, Advisor to [allaboutenergy.net](http://allaboutenergy.net)
94. Howard R. Lowe, Prof. Eng., Geologist
95. Dean Lusby, IT professional, business owner, Pennsylvania
96. Jeffrey Mahn, Retired Nuclear Engineer Sandia National Laboratories (New Mexico), Member Scientists for Accurate Radiation Information (SARI), Member Nuclear Society (ANS)
97. Matt Malkan PhD, Distinguished Professor of Physics and Astronomy, UCLA

98. Wally Manheimer, Retired from the US Naval Research Lab and life fellow of APS and IEEE
99. James A. Marsh, Emeritus Professor of Immunology, Cornell University, Dept. of Microbiology and Immunology
100. Andy May, Writer and Retired Petrophysicist
101. Gene McCall, Consultant to the Defense Science Board, Former Consultant to the Department of Energy on Issues related to Inertial Fusion, Former Member and Chairman of the USAF SAB, Former Member of the Senior Review Group to the Defense Airborne, Airborne Reconnaissance Office (DARO) and Former Chairman of the Technology Assistance panel fir DARO
102. Craig McCluskey PhD, Physics
103. Richard McFarland, Retired NASA Physicist
104. Sean McGrew, Analytical Chemist, lifetime career in Chromatography/Mass Spectrometry, applications to semi-volatile organic compounds in the environment
105. Mark Meier PhD, Professor of Physics, University of Houston
106. Samuel Melfi, Emeritus Professor of Physics, UMBC, Retired NASA Scientist
107. Kenneth Melvin MD, Retired Professor of Medicine, Portland, Oregon
108. Patrick J. Michaels, Competitive Enterprise Institute, Washington DC
109. Steven Milloy, MHS, JD, LLM, Publisher
110. Ference M. Miskolczi, Retired NASA/AS&M Senior Scientist, Foreign Associate Member of the Hungarian Academy of Sciences
111. Michael J. Mitchell, Mechanical Engineer
112. Brian Moody, Former GET Specialist for SMS Equipment in Ft McMurray
113. James Moore, Commercial Fisherman, President Alaska Trawlers Association, Executive Committee Northern Southeast Regional Aquaculture Association, Board member Amstrong Keta Inc.
114. David R. Motes, Chemical Engineer, lifelong experience in the geo-energy industry
115. Daniel W. Nebert, Professor Emeritus, Department of Environmental Medicine and Center for Environmental Genetics, University of Cincinnati
116. Danny L. Newton, Retired from Federal Aviation Administration (FAA), Experience in Working with NOAA with respect to Experimental Weather Data Collection
117. Ned Nikolov PhD, Physical Scientist at the USFS Rocky Mountain Research Station in Fort Collins CO, Managing a Fire-Weather Intelligence Project
118. Thomas O'Connor, Member American Association of Petroleum Geologists, Washington
119. Kenton Oma, Retired PE Chemical Engineer, Environmental Engineering, Environmental Consultant, R&D at DOE Nuclear Facility
120. Jane M. Orient, President of Doctors for Disaster Preparedness
121. Trueman D. Parish, Retired Director of Engineering Research Eastman Chemical Company
122. Arvid Pasto PhD, Ceramics, Retired from the Oak Ridge National Laboratory, TN
123. Bill Pekny, MS Physics, Retired atmospheric physicist and soldier scientist, specializing in battlefield atmospherics. Former U.S. Navy Meteorologist and Hurricane Hunter during "Project Stormfury-1969." Author of the book: A Tale of Two Climates—One Real, One Imaginary
124. Charles W. Pennington, Senior Vice President of Engineering NAC International (Retired), Secretary, XLNT Foundation, Board of Directors
125. Jeffrey S. Philbin, Retired Nuclear Engineer Sandia National Laboratories (New Mexico), Independent Consultant in Nuclear Facility Design and Safety Analysis, Nuclear Criticality Safety and Weapon Response
126. James M. Policelli, Registered Professional Engineer
127. Herman A. Pope, Retired Aerospace Engineer NASA-JSC
128. Willem Post, Independent Researcher regarding Energy and Environment
129. Kenneth L. Purdy, Management Consultant, Retired Naval Officer in Operational Intelligence
130. Edward A. Reid, lifetime experience in the US energy industry in technical research and development, market development, marketing and consulting
131. Forrest J. Remick, Commissioner (Retired), US Nuclear Regulatory Commission
132. James H. Rust, Emeritus Professor of Nuclear Engineering, Georgia Institute of Technology
133. Charles L. Sanders, Retired Radiobiologist, Author of Radiobiology and Radiation Hormesis: New Evidence and Its Implications for Medicine and Society (Springer)

134. Rick Sanders M.A., Scientists for Accuracy in Radiation Information (SARI), Associate Editor, 21st Century Science and Technology Magazine
135. Mike Schimmelpfennig, Degreed Mining Engineer with more than 40 years of experience
136. Harold Grant Scoggins, retired IT professional
137. 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)
138. Dr. Thomas P. Sheahen, Chairman, Science & Environmental Policy Project
139. John Shewchuk, Meteorologist (CCM) and Atmospheric Researcher
- 140. David Siegel, author, entrepreneur, critical thinker, communicator (1000th signee)**
141. Elliot Smith, airline pilot, climate realist, 30+ years of studying AGW data
142. Robert P. Smith PhD, P.E., Environmental Scientist and Professional Engineer'
143. Professor William H. Smith, Professor of Earth & Planetary Sciences; Astronomer and Planetary & Atmospheric Scientist; most recently involved in the Analysis of the Earth's Climate and Renewable Energy Systems
144. Willie Soon, Independent Scientist
145. Walter Starck PhD, Marine Science, Pioneer in Coral Reef Studies, Policy Advisor to The Heartland Institute
146. Jim Steele, Emeritus Director Sierra Nevada Field Campus, San Francisco State University
147. Ronald Stein, Professional Engineer
148. Gerald M. Sulzer, MS Chemical Engineer, Retired Director of Technology, Albemarle Corporation
149. Tomer D. Tamarkin, Physicist, Founder and President/CEO of Energycite Inc., President and Chairman of ClimateCite Inc.
150. Paul Taylor, Energy Economist, Recipient Rossitor Raymond Award, Golden Colorado
151. David E. Thompson, Professor Emeritus Mechanical Engineering and Computer Science, Dean Emeritus College of Engineering, University of Idaho
152. Gordon Tomb, Energy and climate writer, communications consultant, primary editor of Inconvenient Facts and Senior Advisor for the CO2 Coalition
153. Cecil Joe Tomlinson, Retired Boeing Senior Principle Engineer
154. Frank Trask, BS Degree in Mechanical Engineering, University of Maine
155. Kip Trout, Lecturer in Physics, The Pennsylvania State University – York Campus
156. Richard Trzupek, Chemist and Air Quality Expert
157. Arthur Viterito PhD, Physical Geography, Policy Adviser to the Heartland Institute
158. Whitson G. Waldo, Scientist and Engineer with MS Chemical Engineering from Clemson Univ, lifetime career in the semiconductor industry, owner of 13 awarded patents
159. William B. Walters, Guggenheim Fellow, Professor of Atmospheric, Nuclear and Environmental Chemistry, University of Maryland
160. James Wanliss, Professor of Physics, Presbyterian College
161. Steven E. Weismantel, Retired Engineer and Climate Researcher
162. Dr. Steven C. Wendelken, EPA, OGWDW/TSC, climate realist
163. Chuck F. Wiese, Professional Meteorologist
164. David Wojick, Cognitive Scientist
165. Dr. Calvin M. Wolff, Adjunct Professor University of Houston at Clear Lake, Expertise in Energy Management
166. Gregory R. Wrightstone, Expert Reviewer IPCC, Geologist, Author, Member CO<sub>2</sub> Coalition
167. Dan Youra, publisher Youra media, creator and editor of Carbon Tax News
168. Bob Zybach, Program Manager, Oregon Websites and Watersheds Project Inc.



*The World Climate Declaration was initiated in 2019 by emeritus professor Guus Berkhout, founder of the Dutch Climate Intelligence Foundation (CLINTEL). The list of signatories is a living document that is regularly updated with new additions. The most up-to-date version can be found on [www.clintel.org](http://www.clintel.org).*

*Graphic design: [www.zinontwerpers.nl](http://www.zinontwerpers.nl)  
Lay-out: Little Shop of Graphics*



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