

World Climate Declaration

# THERE IS NO CLIMATE EMERGENCY



GLOBAL CLIMATE INTELLIGENCE GROUP

# There is no climate emergency

*A global network of 700 scientists and professionals has prepared this urgent message. 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 at less than half the rate predicted by IPCC on the basis of modeled anthropogenic forcing and radiative imbalance. It 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 global policy tools. They blow up the effect of greenhouse gases such as CO<sub>2</sub>. In addition, they 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. Photosynthesis is a blessing. More CO<sub>2</sub> is beneficial for nature, greening the Earth: additional CO<sub>2</sub> in the air has promoted growth in global plant biomass. It is also good 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. If better approaches emerge, and they certainly will, we have ample time to reflect and re-adapt. The aim of global policy should be 'prosperity for all' by providing reliable and affordable energy at all times. In a prosperous society men and women are well educated, birthrates are low and people care about their environment.



Our advice to political 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.



# The undersigned:

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## SCIENTISTS AND PROFESSIONALS FROM AUSTRALIA

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2. Viv Forbes, Geologist with Special Interest in Climate, Founder of [www. carbon-sense.com](http://www.carbon-sense.com), Queensland, Australia; WCD Ambassador
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6. Michael Asten, Emeritus Retired Professor in Geophysics and Continuing Senior Research Fellow at the Monash University, Melbourne
7. Stuart Ballantyne, PhD, Senior Ship Designer, Sea Transport Corp.
8. Jeremy Barlow, Energy and Mining professional, Director and CEO, Australia
9. Colin Barton, Geologist, Former Principal Research Scientist CSIRO, Australia
10. Gordon Batt, Director GCB Investments Pty Ltd
11. Robert M. Bell, Retired geologist, Victoria, Australia
12. Richard Blayden Professional Engineer
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14. Howard Thomas Brady, Member Explorers Club of New York, Member of the Australian Academy of Forensic Sciences
15. Geoff Brown, Organizer of a Critical Climate Group, Australia
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19. Mike Bugler, Retired Environmental Consultant, Australia
20. Charles Camenzuli, Structural Engineer Specializing in Remedial Work, Catcam Group, Sydney
21. Ray Carman, Organic chemist, Honorary Fellow University of Queensland, Australia
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24. Martin Clark, Expert in Building Design, Planning and Landscaping, Townsville NQ
25. Richard Corbett, Member Royal Australian Chemical Institute, Member of The Clean Air Society of Australia and New Zealand
26. Majorie Curtis, Retired Geologist, Stratigrapher and Palaeoclimatic Studies, Canberra, Australia
27. Eric Daniel, Mathematical Physicist, Retired IT Consultant
28. Arthur Day, Earth Scientist with a specialist background in geochemical modelling of volcanic processes.
29. Geoff Derrick, Geologist
30. Trish Dewhirst, Retired Geologist, Queensland, Australia
31. Aert Driessen, Geologist, Fellow Australian Institute of Geoscientists, Australia
32. John A. Earthrowl, retired Geologist, Brisbane Australia
33. Mike Elliott, (Adv Dip Ed E&C); Dux of School in Mathematics; Co-Founder of Climate Realists of Five Dock (<2008). Successfully convinced Deputy Premier of the State of Queensland, Australia "to direct local council to remove from its Planning Scheme assumptions of theoretical SLR due to climate change"
34. Jeremy K. Ellis, Retired Chairman of BHP, now Chairman of the Saltbush Club, Australia
35. Matthew J. Fagan, Founder and President of FastCAM Inc.
36. Rodney Fripp, former lecturer in geology, geochemistry and geotechnics geotectonic
37. Christopher J.S. Game, Retired Neurophysiologist, Australia
38. Robin George, Geologist, Canterbury, Australia
39. David Gibson, Experimental Physicist, Australia
40. Andrew Gillies, Professional Geologist
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42. Hamish Grant, MR Spectroscopy & Imaging Consultant, Victoria, Australia
43. Lindsay Hackett, Founding member of the Saltbush Club in Australia
44. Peter J.F. Harris, Retired Engineer (Electronic), now Climate Researcher
45. Erl Happ, Managing Director, Australia
46. John Happs, Geoscientist, Retired University Lecturer, Australia
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61. Gerard McGann, Technical Director Eon NRG
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63. John McLean, Author of first major review of HadCRUT 4 climate temperature data, Member of New Zealand Climate Science Coalition
64. Ross McLeod, Retired Environmental Health Officer, Australia
65. Ian Levy, CEO Australian Bauxite Ltd.
66. Ian Longley, Professional Geologist, Fellow of the Geological Society
67. Finlay MacRitchie, Professor Emeritus in the Department of Grain Science and Industry at Kansas State University, USA. Australia
68. Paul Messenger, PhD, Earth Scientist, Australia
69. John Michelmore, Retired Industrial Chemist, South Australia
70. 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"
71. Des Moore, Former Deputy Secretary of the Federal Treasury, founder and leader of the Institute for Private Enterprise
72. Hugh Morgan, prominent Australian mining executive, Fellow of the Australian Academy of Technology, Science and Engineering (FTSE).
73. John Nicol, PhD, Retired Senior Lecturer Physics and one time Dean of Science, James Cook University, North Queensland
74. C.D. Ollier, Emeritus Professor of Geology and Honorary Research Fellow at the School of Earth and Geographical Sciences, University of Western Australia
75. Alistair Pope, psc, CM, Sceptical Scientific Contrarian in the Climate Debate
76. Robert Pyper, Geologist and Director of Minnelex Pty Ltd., Australia
77. Tom Quirk, Nuclear Physicist, Australia
78. Art Raiche, PhD, Mathematical Geophysics, Retired CSIRO Chief Research Scientist
79. Campbell Rankine, Barrister and Solicitor, Australia
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81. Tim Riley, Mining Geologist
82. John Cameron Robertson, Author of CO2 Feeds the World and The Climate Change Delusion
83. Nigel Rowlands, retired from mining and exploration industry
84. Judy Ryan, Editor Principia Scientific Institution-Australia
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86. Robert Sambell, PhD Physics, Professional Geophysicist

87. Jim Simpson, Retired from Managing Positions in different International Telecommunications Firms, now active in the Australian Climate Community,
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89. Lee Smith, University Lecturer in Spatial Technology, Responsible for State Government Precise Monitoring of Sea Level and International Sea Boundaries
90. Darren Speirs, Independent Business Owner, Rangeland NRM Consultants, Australia
91. Geoffrey Stocker, Professor and Head of Department of Forestry, PNG University of Technology – Director of PNG Forest Research Institute
92. 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. He is a Principal Founder of The H R Nicholls Society and the Principal Founder of The Samuel Griffith Society.
93. Rodney R. Stuart, Retired expert in energy industry, Tasmania, Australia
94. R. Symons, Professional Engineer, Expert in Temperature Control of Industrial Buildings
95. Rustyn Wesley Thomas, Retired aircraft engineer, Australia
96. James Taylor, Electrical, Aerospace and Astrophysics Engineer, Computer Modelling Researcher
97. John W. Turner, Science Educator, Noosa Heads, Australia
98. Peter Tyrer, Project Controls Engineer in mining industry, Australia
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100. James Walter, Medical doctor, Australia
101. John Warnock, Astro Economist, Australia
102. Christopher Kenneth Warren, Expert in hydroelectric dam design and construction, Australia
103. Alan C. Watts, Medical Practitioner specialized in Effects of Infrasound on Human Health
104. Colleen J. Watts, PhD, Retired Environmental Scientist with specialization in aquatic chemistry and environmental consequences of renewable energy
105. Neil Wilkins, Retired geologist, Australia
106. Lawrence A. Wilson, Professional Chemical Engineer, Melbourne
107. P.C. Wilson, Former journalist with the A.B.C. Queensland, Australia
108. Philip Wood, Qualified Lawyer in four Jurisdictions (Australia, New York, UK and Hong Kong). Principal focus: International Finance and recently CEO of two ASX-listed companies operating in the mining and minerals processing fields.



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#### SCIENTISTS AND PROFESSIONALS FROM BANGLADESH

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1. *Thiago Maia, Nuclear Physicist with PhD in Astrophysics, wrote critical climate letter to Brazilian Government, WCD Ambassador South America*
2. Luiz Carlos Baldicero Molion, Emeritus Professor of the Federal University of Alagoas (UFAL), Formerly of the National Institute of Space research (INPE)
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5. Hervé Azoulay, Engineer (CNAM), Specialist of Networks and Systemics, External Speaker at Universities (France, Switzerland, China), CEO and President of several Associations
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11. Pierre Beslu, former searcher and head of department in the french Nuclear Energy Commission (CEA).
12. Michel Bouillet, PhD Human Geography, Emeritus Professor, Former Associate Researcher at the MMSH (Aix-en-Provence)
13. Christian Buson, PhD in agronomy, director of research in a company (impact studies in environmental issues, sewage treatment).
14. Sylvie Brunel, full professor at Sorbonne University, geographer and economist, former president of the humanitarian organization Action against Hunger (Action contre la faim).
15. 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.
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17. Patrick de Casanove, Doctor of Medicine, Chairman of the Cercle Frédéric Bastiat
18. Philippe Catier, Medical Doctor
19. Bruno Chaumontet, Retired Engineer ENSEA, specialized in Feedback Systems

20. Pascal Chondroyannis, Forest Engineer, Retired Director of the National Alpine Botanical Conservatory (2008-2013)
21. Philippe Colomban, CNRS Research Professor, Former Head of Laboratory at Université Piere-et-Marie Curie, Expert in Hydrogen-based Energy Storage
22. Jacques Colombani, Former Research Director retired from ORSTOM-IRD, numerous Studies in Hydrology and Climatology and Specialist in Fluid Mechanics. Member of the Board of ORSTOM for twenty years.
23. Christian Coppe, PhD in Organic & Analytical Chemistry, Ten Years' Experience in Gas Analysis and Handling
24. Philippe Costa, Energy Engineer at ENSEM Nancy, specialist in industrial process and energy saving
25. Vincent Courtillot, geophysicist, member of the French Academy of Sciences, former director of the Institute de Physique du Globe de Paris
26. Jean Davy, Engineer (ENSAM), Digital Modeling Software Developer
27. Pierre Darriulat, Professor of Physics, Member of the French Academy of Sciences
28. 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.
29. Gérard Douet, PhD in Nuclear Physics, Retired Engineer at CERN, Technical Manager on Digital Transmission and Video Encoding
30. Hubert Dulieu, Emeritus Professor Applied Ecology, Formerly Senior Researcher in the CNRS, President of the National Scientific Research Committee, Vegetal Biology Section (XXVII)
31. Bruno Durieux, economist, former Minister of Health and of Foreign Trade, ancient administrator of the French National Institute of Statistics and Economic Studies (INSEE).
32. Max Falque, International Consultant in Environmental Policy
33. Serge Ferry, PhD, Retired Teacher-Researcher (MCF), University of Lyon
34. Patrick Fischer, Associate Professor in Applied Mathematics, University of Bordeaux
35. Michel Frenkiel, Engineer (Arts et Métiers), Former Researcher with NCAR at Boulder
36. Francis Le Gaillard, PhD in Natural Sciences and Pharmaceutical Sciences. Emeritus Professor of Biochemistry at the Faculty of Pharmaceutical Sciences of Toulouse
37. François Gauchenot, governance specialist, founder of Saint George Institute.
38. Jean Gergelé, Engineer graduate from the Ecole Centrale de Lyon, 45 Years in the industry, R&D Director, Freelance Consultant, mainly in the Li-ion battery development.
39. Christian Gerondeau, former advisor of several French Prime Ministers. Former responsible for the road traffic safety policy for France and the European Union.
40. Francois Gervais, Emeritus Professor of Physics and Material Sciences, University of Tours.
41. Philippe Giraudin, Ecole Polytechnique Paris, Geographic Sciences
42. Bernard Grandchamp, Agronomic Engineer and Environment & Plant Defense Expert, Managing Director of Famoux Chateaux Viticoles in Bordeaux
43. 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.
44. Maximilian Hasler, Associate Professor in Mathematics, University of French West Indies
45. Yvon Jarny, Emeritus Professor in Thermal and Energy Sciences, Nantes University
46. Claude Jobin, Retired A&M Engineer Specialized in Microwave Communication
47. Alexandre Krivitzki, Psychoanalyst, Member of the International Psychoanalytical Association
48. Roger Lainé, Retired Geological Engineer
49. Philippe de Larminat, Professor at École Centrale de Nantes, specialist of business process modeling.
50. René Laversanne, Former researcher at the CNRS, 16 patents.
51. Jean-Marie Longin, Engineer (Saint-Cyr), Chief of the Pole Operations of Security Inventory Management

52. Guy Lucazeau, Emeritus Professor (Institut Polytechnique de Grenoble) in Material Sciences and Spectroscopy
53. Philippe Malburet, Emeritus Associated Professor of Mathematics, Founder of the Planetarium of Aix-en-Provence, Member of the Academy of Aix-en-Provence
54. Christian Marchal, astronomer and mathematician, former research director at the French National Office for Aerospace Studies and Research, former professor at the Observatory of Paris (1980-93), former assistant professor at Polytechnic School (1981-92).
55. Paolo Martinengo, Applied Physicist, Senior Staff Member in the Experimental Physics Department, Detector Technologies Group, CERN
56. Patrick Mellett, architect and CEO.
57. Marc le Menn, Head of Metrology-Chemistry Oceanography Lab, Brest.
58. Jean-Laurent Monnier, Emeritus Research Director, CNRS-Université de Rennes 1, Research worker at the CNRS from 1973 to 2013, Speciality in Pleistocene Geology in Western Europe
59. Jacques-Marie Moranne, Retired Engineer (Ecole Centrale de Lille), Specialist in Air and Water Purification, Chemical and Nuclear Engineering
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61. Cédric Moro, geographer on natural hazards management, co-founder of Visov, a NGO in Civil defense
62. Philippe Morvan, Engineer ENSTA and Génie Maritime, specialist in software development
63. Charles Naville, R&D Exploration Geophysicist, IFP Energies Nouvelles
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66. Pierre Richard, Engineer ESPCI Paris, Former Research Geochemist at Institut de Physique du Globe de Paris (IPGP)
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72. François Simonet, Former Director for planning and foresight in a State Agency for water and aquatic ecosystems management.
73. Marcel Terrier, Engineer ENSAEM in risk management, teacher at École des Mines.
74. Étienne Vernaz, former Director of Research of CEA (Commissariat à l'Énergie Atomique) in France, Professor at INSTN (Institut National des Sciences et Techniques Nucléaires).
75. Camille Veyres, Retired Engineer at École des Mines, Specialist in Telecommunications and Broadband Networks
76. Brigitte Van Vliet-Lanoë, geoscientist, Emeritus Research Director (CNRS, Université de Bretagne Occidentale), stratigraphy and paleoenvironments, Quaternary and Holocene.
77. Théa Vogt, retired CNRS searcher, géomorphology, Quaternary palaeoenvironments, soil and desertification remote sensing
78. Henri 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. H.J. Bandelt, Emeritus Professor of Mathematics, University of Hamburg
4. Dietrich Bannert, Professor Honoris Causa, University of Marburg
5. Lars Birlenbach, Dr. in Chemistry, University of Siegen
6. Michael Bockisch, Emeritus Professor Chemistry at the Technical University of Berlin
7. 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)
8. Eike-Matthias Bultmann, Geoscientist
9. Arthur Chudy, Agricultural Chemist OT Warsaw
10. Klaus Döhler, Professor of Pharma sciences, University of Hannover
11. Friedrich-Karl Ewert, Emeritus Professor Geology, University of Paderborn
12. Ludwig E. Feinendegen, Emeritus Professor Medicine
13. Christian Habermann, PhD in Economics, Investment Manager
14. Hermann Harde, Emeritus Professor of Experimental Physics and Materials Science, Helmut Schmidt-University, Hamburg
15. Manfred Hauptreif, Natural Scientist
16. Werner Kirstein, Emeritus Professor of Climatology, University of Leipzig
17. Stefan Kröpelin, Dr. in Geosciences, Free University of Berlin and University of Cologne (retired). Specialized in Climate Change of the Sahara
18. Ulrich Kutschera, Professor of Plant Physiology & Evolutionary Biology at the University of Kassel, Germany, and Visiting Scientist in Stanford USA
19. Michael Limburg, Vice-President EIKE (Europäisches Institute für Klima und Energie)
20. Horst-Joachim Lüdecke, Professor of Operations Research (i.R.) HTW of Saarland, Saarbrücken
21. Wolfgang Merbach, Professor Dr. Agrar. Habil. at Institut für Agrar-Ernährungswissenschaften
22. Lothar W. Meyer, Emeritus Professor of Material Engineering, Chemnitz University of Technology, Saxony Entrepreneur 'Nordmetall GmbH', Member of the Board of 'Vernunftkraft Niedersachsen'
23. Werner Mormann, Emeritus Professor of Macromolecular Chemistry, Universität Siegen
24. Siegfried Reiprich, Dipl.-Ing, Geoscientist and Oceanography.
25. W.H. Eugen Schwartz, Emeritus Professor of Theoretical Chemistry, Universität Siegen
26. 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. Stavros Alexandris, Associate Professor Agricultural University of Athens, Dept. of Natural Resources and Agricultural Engineering, Sector of Water Resources
2. Anthony Foscolos, Emeritus Professor of Mineral Resources at the Technical University of Crete, Energy Consultant for the United Nations Development Program (UNDP)
3. Sotiris Kamenopoulos, PhD, Independent Researcher in the Field of Sustainable Exploitation of Mineral Resources, Social License to Operate and Risk Management.
4. Theodoros Kolydas, Director of the National Meteorological Center of Hellenic National Meteorological Service (HNMS)
5. Demetris Koutsoyannis, Professor of Hydrology and Analysis of Hydrosystems at the National Technical University of Athens



#### SCIENTISTS AND PROFESSIONALS FROM HUNGARY

1. István Héjjas, PhD, Retired R&D Electrical Engineering
2. Király József, Chemical Engineer and one of the authors of the Hungarian site [www.klimarealista.hu](http://www.klimarealista.hu)
3. Laszlo Szarka, Geophysicist, O.M., Hungary



## SCIENTISTS AND PROFESSIONALS FROM INDIA

1. Sanjeev Sabhlok, Economist with focus on climate and energy policy, India



## SCIENTISTS AND PROFESSIONALS FROM IRELAND

1. *Jim O'Brien, Chair, Irish Climate Science Forum, Expert Reviewer IPCC AR6, WCD ambassador*
2. Tom Baldwin, Electrical Engineer, Specialist in Power System Security
3. Dr Anthony D. Barry, Honorary Fellow, Irish Academy of Engineering
4. Tony J. Carey, BA (Natural Sciences), Clare College, Cambridge
5. David Horgan, MA (Cambridge), MBA (Harvard), Resource Company Director
6. Seamus Hughes, BAgricSc, Specialist in Genetics
7. Ultan Murphy, B.Sc(Hons) Chemistry, Industry Science Professional
8. Owen O'Brien, Business Founder and Entrepreneur, MBA, DBA
9. J. Philip O'Kane, Emeritus Professor, School of Engineering, University College Cork
10. Peter O'Neill, Retired, School of Engineering, University College Dublin, Expert Reviewer of IPCC AR6
11. Fintan Ryan, Retired Senior Airline Captain, Fellow Royal Aeronautical Society
12. Christian Schaffalitzky, FIMMM, Founder Institute of Geologists of Ireland, EurGeol
13. Dr. Brian N. Sweeney, Founding Chairman of Science Foundation Ireland
14. Sean Tangney, Business Entrepreneur, Former Technical Director, CRH plc
15. David Thompson, BAgricSc, MA, Animal Nutritionist
16. Dr. Edward Walsh, Former Chairman, Irish Council for Science, Technology and Innovation; Former Director, Energy Research Group, Virginia Tech, USA
17. Michael J. Walshe, Agriculture Scientist, Ex-Officer in Charge, Moorepark AFT, Livestock Specialist



## SCIENTISTS AND PROFESSIONALS FROM ITALY

1. *Alberto Prestininzi, Professore di Geologia Applicata, Università di Roma La Sapienza, già Scientific Editor in Chief della rivista internazionale IJEGE e Direttore del Centro di Ricerca Previsione, Prevenzione e Controllo Rischi Geologici (CERI), WCD Ambassador.*
2. Uberto Crescenti, Professore Emerito di Geologia Applicata, Università di ChietiPescara, già Magnifico Rettore e Presidente della Società Geologica Italiana.
3. 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.
4. Franco Prodi, Professore di Fisica dell'Atmosfera, Università di Ferrara.
5. Franco Battaglia, Professore di Chimica Fisica, Università di Modena; Movimento Galileo 2001.
5. Mario Giaccio, Professore di Tecnologia ed Economia delle Fonti di Energia, Università di Chieti-Pescara, già Preside della Facoltà di Economia.
6. Enrico Miccadei, Professore di Geografia Fisica e Geomorfologia, Università di ChietiPescara.
7. Nicola Scafetta, Professore di Fisica dell'Atmosfera e Oceanografia, Università di Napoli.
8. Antonino Zichichi, Professore Emerito di Fisica, Università di Bologna, Fondatore e Presidente del Centro di Cultura Scientifica Ettore Majorana di Erice.
9. 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.
10. 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.
11. Antonio Brambati, Professore di Sedimentologia, Università di Trieste, Responsabile Progetto Paleoclima-mare del PNRA, già Presidente Commissione Nazionale di Oceanografia.
12. Cesare Barbieri, Professore Emerito di Astronomia, Università di Padova.
13. Sergio Bartalucci, Fisico, Presidente Associazione Scienziati e Tecnologi per la Ricerca Italiana.

14. Antonio Bianchini, Professore di Astronomia, Università di Padova.
15. Paolo Bonifazi, Astrofisico, ex Direttore dell'Istituto di Fisica dello Spazio Interplanetario (IFSI) dell'Istituto Nazionale Astrofisica (INAF)
16. Francesca Bozzano, Professore di Geologia Applicata, Università di Roma La Sapienza, Direttore del Centro di Ricerca Previsione, Prevenzione e Controllo Rischi 9 European Climate Declaration September 26, 2019 Geologici (CERI).
17. Marcello Buccolini, Professore di Geomorfologia, Università di Chieti-Pescara.
18. Paolo Budetta, Professore di Geologia Applicata, Università di Napoli.
19. Monia Calista, Ricercatore di Geologia Applicata, Università di Chieti-Pescara.
20. Giovanni Carboni, Professore di Fisica, Università di Roma Tor Vergata; Movimento Galileo 2001.
21. Franco Casali, Professore di Fisica, Università di Bologna e Accademia delle Scienze di Bologna.
22. Giuliano Ceradelli, Ingegnere e climatologo, ALDAI.
23. Augusta Vittoria Cerutti, membro del Comitato Glaciologico Italiano.
24. Domenico Corradini, Professore di Geologia Storica, Università di Modena.
25. Fulvio Crisciani, Professore di Fluidodinamica Geofisica, Università di Trieste e Istituto Scienze Marine, Cnr, Trieste.
26. Carlo Esposito, Professore di Rischi Geologici, Università di Roma La Sapienza.
27. Antonio Mario Federico, Professore di Geotecnica, Politecnico di Bari.
28. Mario Floris, Professore di Telerilevamento, Università di Padova.
29. Gianni Fochi, Chimico, Scuola Normale Superiore di Pisa; giornalista scientifico.
30. Mario Gaeta, Professore di Vulcanologia, Università di Roma La Sapienza.
31. Giuseppe Gambolati, Fellow della American Geophysical Union, Professore di Metodi Numerici, Università di Padova.
32. Rinaldo Genevois, Professore di Geologia Applicata, Università di Padova.
33. Carlo Lombardi, Professore di Impianti nucleari, Politecnico di Milano.
34. Luigi Marino, Geologo, Centro Ricerca Previsione, Prevenzione e Controllo Rischi Geologici (CERI), Università di Roma La Sapienza.
35. Salvatore Martino, Professore di Microzonazione sismica, Università di Roma La Sapienza.
36. Paolo Mazzanti, Professore di Interferometria satellitare, Università di Roma La Sapienza.
37. Adriano Mazzarella, Professore di Meteorologia e Climatologia, Università di Napoli.
38. Carlo Merli, Professore di Tecnologie Ambientali, Università di Roma La Sapienza.
39. Alberto Mirandola, Professore di Energetica Applicata e Presidente Dottorato di Ricerca in Energetica, Università di Padova.
40. Renzo Mosetti, Professore di Oceanografia, Università di Trieste, già Direttore del Dipartimento di Oceanografia, Istituto OGS, Trieste.
41. Daniela Novembre, Ricercatore in Georisorse Minerarie e Applicazioni Mineralogiche-petrografiche, Università di Chieti-Pescara.
42. Sergio Ortolani, Professore di Astronomia e Astrofisica, Università di Padova.
43. Antonio Pasculli, Ricercatore di Geologia Applicata, Università di Chieti-Pescara.
44. Ernesto Pedrocchi, Professore Emerito di Energetica, Politecnico di Milano.
45. Tommaso Piacentini, Professore di Geografia Fisica e Geomorfologia, Università di Chieti-Pescara.
46. Guido Possa, Ingegnere nucleare, già Viceministro del Ministero dell'Istruzione, Università e Ricerca con delega alla ricerca.
47. Mario Luigi Rainone, Professore di Geologia Applicata, Università di Chieti-Pescara.
48. Francesca Quercia, Geologo, Dirigente di ricerca, Ispra.
49. Giancarlo Ruocco, Professore di Struttura della Materia, Università di Roma La Sapienza.
50. Sergio Rusi, Professore di Idrogeologia, Università di Chieti-Pescara.
51. Massimo Salleolini, Professore di Idrogeologia Applicata e Idrogeologia Ambientale, Università di Siena.
52. Emanuele Scalcione, Responsabile Servizio Agrometeorologico Regionale ALSIA, Basilicata. 10 European Climate Declaration September 26, 2019
53. Nicola Sciarra, Professore di Geologia Applicata, Università di Chieti-Pescara.

54. Leonello Serva, Geologo, Accademia Europa delle Scienze e delle Arti, Classe V, Scienze Tecnologiche e Ambientali, già Direttore Servizio Geologico d'Italia; Movimento Galileo 2001.
55. Luigi Stedile, Geologo, Centro di Ricerca Previsione, Prevenzione e Controllo Rischi Geologici (CERI), Università di Roma La Sapienza.
56. Giorgio Trenta, Fisico e Medico, Presidente Emerito dell'Associazione Italiana di Radioprotezione Medica; Movimento Galileo 2001.
57. Gianluca Valensise, Dirigente di Ricerca, Istituto Nazionale di Geofisica e Vulcanologia, Roma.
58. Corrado Venturini, Professore di Geologia Strutturale, Università di Bologna.
59. Franco Zavatti, Ricercatore di Astronomia, Università di Bologna.
60. Achille Balduzzi, Geologo, Agip-Eni.
61. Pino Cippitelli, Geologo Agip-Eni.
62. Franco Di Cesare, Dirigente, Agip-Eni.
63. Serena Doria, Ricercatore di Probabilità e Statistica Matematica, Università di ChietiPescara.
64. Enzo Siviero, Professore di Ponti, Università di Venezia, Rettore dell'Università e-Campus.
65. Pietro Agostini, Ingegnere, Associazione Scienziati e Tecnologi per la Ricerca Italiana.
66. Donato Barone, Ingegnere.
67. Roberto Bonucchi, Insegnante in pensione.
68. Gianfranco Brignoli, Geologo.
69. Alessandro Chiaudani, Ph.D. agronomo, Università di Chieti-Pescara.
70. Luigi Fressoia, Architetto urbanista, Perugia.
71. Sabino Gallo, Ingegnere nucleare e scrittore scientifico.
72. Daniela Giannessi, Primo Ricercatore, IPCF-CNR, Pisa.
73. Roberto Grassi, Ingegnere, Amministratore G&G, Roma.
74. Alberto Lagi, Ingegnere, Presidente di Società Ripristino Impianti Complessi Danneggiati.
75. Luciano Lepori, Ricercatore IPCF-CNR, Pisa.
76. Roberto Madrigali, Meteorologo.
77. Ludovica Manusardi, Fisico nucleare e giornalista scientifico, UGIS.
78. Maria Massullo, Tecnologa, ENEA-Casaccia, Roma.
79. Enrico Matteoli, Primo Ricercatore, IPCF-CNR, Pisa.
80. Gabriella Mincione, Professore di Scienze e Tecniche di Medicina di Laboratorio, Università di Chieti-Pescara.
81. Massimo Pallotta, Primo Tecnologo, Istituto Nazionale Fisica Nucleare.
82. Enzo Pennetta, Professore di Scienze Naturali e divulgatore scientifico.
83. Franco Puglia, Ingegnere, Presidente CCC, Milano.
84. Nunzia Radatti, Chimico, Sogin.
85. Vincenzo Romanello, Ingegnere nucleare, Ricercatore presso il Centro di Ricerca Nucleare di Rez, Repubblica Ceca.
86. Alberto Rota, Ingegnere, Ricercatore presso CISE ed ENEL, esperto di energie rinnovabili.
87. Massimo Sepielli, Direttore di Ricerca, ENEA, Roma.
88. Ugo Spezia, Ingegnere, Responsabile Sicurezza Industriale, Sogin; Movimento Galileo 2001.
89. Emilio Stefani, Professore di Patologia vegetale, Università di Modena.
90. Umberto Tirelli, Visiting Senior Scientist, Istituto Tumori d'Aviano; Movimento 11 European Climate Declaration September 26, 2019 Galileo 2001.
91. Roberto Vacca, Ingegnere e scrittore scientifico.
92. Antonio Ballarin, Responsabile della Ricerca e Laboratorio Digitale di Sogni.
93. Flavio Tabanelli, Fisico.
94. Giuseppe Basini, Astrofisico, Deputato, Già dirigente di ricerca dell'INFN.
95. Marco Benini, Ingegnere idraulico, libero professionista.
96. Giorgio Bertucelli, Ingegnere, già Dirigente Industriale, ALDAI.
97. Alessandro Bettini, Professore Emerito (Fisica) Università di Padova.



98. 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.
99. Paolo Blasi, Professore emerito (Fisica) e già Rettore dell'Università di Firenze; già Presidente della Conferenza dei Rettori delle Università Italiane.
100. Giampiero Borrielli, Ingegnere.
101. Antonio Maria Calabrò, Ingegnere, Ricercatore, Consulente.
102. Cristiano Carabella, Geologo, Borsista presso l'Università di Chieti.
103. 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.
104. Enrico Colombo, Chimico, Dirigente Industriale.
105. Vito Comencini, Onorevole, Membro della Camera dei Deputati italiana dal 2018.
106. Roberto d'Arielli, Geologo, Borsista presso l'Università di Chieti.
107. Stefano De Pieri, Ingegnere energetico e nucleare.
108. Benedetto De Vivo, Professore di Geochimica in pensione dall'Università di Napoli; ora Professore Straordinario presso Università Telematica Pegaso, Napoli.
109. Carlo Del Corso, Ingegnere Chimico.
110. Francesco Dellacasa, Ingegnere, amministratore di società nel settore energetico.
111. Alessandro Demontis, Perito Chimico Industriale, Tecnico per la Gestione delle Acque e delle Risorse Ambientali, Pomezia.
112. Aureliano Ferri, Vicepresidente Associazione Piceno Tecnologie.
113. Gianluca Esposito, Geologo. 116. Sergio Fontanot, Ingegnere.
114. Umberto Gentili, Fisico dell'ENEA, Climatologo per il Progetto Antartide, ora in pensione.
115. Roberto Graziano, Ricercatore di Geologia stratigrafica e paleoclimatologia/ paleoceanografia, Università di Napoli, già Geologo presso il Servizio Geologico d'Italia.
116. Roberto Habel, Professore di Fisica Medica, Università di Cagliari.
117. Angelo Maggiora, PhD, INFN Senior Researcher. More than 40 years experience in research at CERN, Saclay, Dubna and Frascati.
118. Ettore Malpezzi, Ingegnere.
119. Vania Mancinelli, Geologo, Borsista presso l'Università di Chieti.
120. Alessandro Martelli, Ingegnere, già Dirigente ENEA.
121. Umberto Minopoli, Presidente dell'Associazione Italiana Nucleare.
122. Cliff Ollier, Geomorphologist, Emeritus Professor and Honorary research fellow, at the School of Earth and Geographical Sciences University of Western Australia.
123. Francesco Oriolo, Professore di Impianti Nucleari, Università di Pisa.
124. Paolo Emmanuele Orrù, Professore di Geografia Fisica e Geomorfologia, Università di Cagliari.
125. Giorgio Paglia, Geologo, Borsista presso l'Università di Chieti.
126. Antonio Panebianco, Ingegnere.
127. Davide Peluzzi, Ambasciatore del Parco Nazionale del Gran Sasso e dei Monti della Laga nel Mondo nel 2017. 12 European Climate Declaration September 26, 2019
128. Corrado Penna, Docente di Matematica.
129. Alessandro Pezzoli, Ricercatore universitario e Professore aggregato in Weather Risk Management, Politecnico di Torino e Università di Torino.
130. Andrea Pomozi, Presidente Associazione Piceno Tecnologie.
131. Giorgio Prinzi, Ingegnere, Direttore responsabile della rivista "21mo Secolo Scienza e tecnologia".
132. Arnaldo Radovix, Geologo, Risk Manager in derivati finanziari.
133. Mario Rampichini, Chimico, Dirigente Industriale in pensione, Consulente.
134. Arturo Raspini, Geologo, Ricercatore, Istituto di Geoscienze e Georisorse (IGG), Consiglio Nazionale delle Ricerche, Firenze.
135. Marco Ricci, Fisico, Primo Ricercatore, Istituto Nazionale di Fisica Nucleare.
136. Renzo Riva, Comitato Italiano Rilancio Nucleare (C.I.R.N.), Buja.
137. PierMarco Romagnoli, Ingegnere, Milano.
138. Stefano Rosso, Insegnante di Geografia, Storia e Italiano, Scuola Secondaria, Modena.

139. Ettore Ruberti, Ricercatore ENEA, Docente di Biologia Generale e Molecolare.
140. Francesco Sensi, Generale di Divisione Aerea (R).
141. Roberto Simonetti, Geologo, R&D c/o Azienda S.I.I.
142. Elio Sindoni, Professore Emerito dell'Università di Milano Bicocca.
143. Maria Grazia Tenti, Geologo.
144. Andrea Zaccone, Geologo, Dirigente Protezione Civile Regione Lombardia.
145. Piero Baldecchi, lettore.
146. Eliseo Bertolasi, Dottore di Ricerca in Antropologia Culturale.
147. Enrico Bongiovanni, Dottore Commercialista.
148. Claudio Ciani, Relazioni Internazionali, Scienza Politica, Università di Roma La Sapienza.
149. Luigi Chilin, Dirigente in pensione.
150. Alessio Del Gatto, Liceo Scientifico, collaboratore AttivitaSolare.it.
151. Ferruccio Cornicello, Fotografo e lettore di studi sul clima.
152. Maurizio Fiorelli, Sommelier professionale, studioso dell'evoluzione nella coltivazione delle vigne.
153. Walter Luini, Geometra.
154. Enrico Ghinato, Perito Fisico.
155. Alberto Guidorzi, Agronomo.
156. Maurizio Montuoro, Medico.
157. Gianni Pettinari, Impiegato Amministrativo, Fondatore del gruppo Facebook: "Falsi allarmismi sul riscaldamento globale".
158. Paolo M.J. Pilli, Pensionato.
159. Luigi Zanotto, Docente in pensione



#### SCIENTISTS AND PROFESSIONALS FROM JAPAN

1. Masayuki Hyodo, Professor of Earth Science, Kobe University, Japan
2. Mototaka Nakamura, Atmospheric and Oceanic Scientist (ScD in Meteorology, MIT)



#### SCIENTISTS AND PROFESSIONALS FROM MEXICO

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



#### SCIENTISTS AND PROFESSIONALS FROM THE NETHERLANDS

1. *Guus Berkhout, Emeritus Professor of Geophysics, Delft University of Technology, Member of the Royal Netherlands Academy of Arts and Sciences; WCD Ambassador*
2. Maarten van Anel, Author of the 'Groene Illusie'
3. André Bijkerk, Retired Officer Royal Dutch Air Force, now Climate Researcher
4. Peter Bloemers, Emeritus Professor of biochemistry, Radboud University, Nijmegen
5. Paul M.C. Braat, Emeritus Professor of Pulmonary Physics, University of Amsterdam
6. Solke Bruin, Emeritus Professor of Product-driven Process Technology, University of Eindhoven, and Former member Management Committee Unilever Research, Vlaardingen
7. Paul Cliteur, Professor of Legal Sciences, Member of the Senate of The Netherlands
8. Albert J.H.G. Cloosterman, Retired Chemical Engineer, Publicist on Climate and Cosmological Matters
9. Marcel Crok, Climate Researcher and Science Journalist
10. David E. Dirkse, Former Computer Engineer and Teacher Mathematics
11. Kees de Groot, Former Director Upstream Research Lab. Shell
12. Kees de Lange, Emeritus Professor of Physics, Vrije University Amsterdam and University of Amsterdam
13. Louw Feenstra, Emeritus Professor Erasmus University and philosopher, Rotterdam
14. Frans H. Gortemaker, Former Vice president Unilever Global R&D
15. Ton J.T. Grimberg, Research and Operational Petro-physicist
16. Leo Halvers, Former Director Billiton Research Arnhem and former Director technology Foundation STW

17. Eduard Harinck, Former Logistics Expert, Nedlloyd Group/KPMG consulting; member of the ED support team
18. J.R. Hetzler, Forestry Economics and Time Series Modeling
19. Jan F. Holtrop, Emeritus Professor of Petroleum Engineering, Delft University of Technology
20. A. Huijser, Physicist and Former CTO Royal Philips Electronics
21. W. J. (Wouter) Keller, Emeritus Professor of Statistical Methods, Former Member Board of Directors, Central Bureau of Statistics (CBS)
22. Jacques van Kerchove, Economist and Marketeer, Former CFO Rabobank, now Climate and Environment researcher
23. R.W.J. Kouffeld, Emeritus Professor of Energy Conversion, Delft University of Technology
24. Hans H.J. Labohm, Former Expert Reviewer IPCC
25. Kees le Pair, Physicist, Former Director of Research organisations FOM and Technology & former member of the General Energy Council, The Netherlands
26. B.G. Linsen, Former Director Unilever Research Vlaardingen, The Netherlands
27. Pieter Lukkes, Emeritus Professor of Economic and Human Geography, University of Groningen
28. Hugo Matthijssen, Former Teacher Meteorology, now Publicist on Climate Matters
29. Simon Middelhoek, Emeritus Professor of Electronic Instrumentation and Sensors, Delft University of Technology, Member of the Royal Netherlands Academy of Arts and Sciences and Member of the National Academy of Engineering, USA
30. J.M. Mulderink, Former General Director Akzo-Nobel
31. Rob Nijssen, Radar Engineer and Publicist on Climate Matters
32. Leffert Oldenkamp, Expert Forest Management
33. Peter Oosterling, Former Scientist E & P Shell, now active as Climate Researcher;
34. Kees Pieters, Mathematician; Former Operational Research and ICT manager at Shell
35. Reynier Pronk, Former IT Manager, Accredited Project Management Consultant and Trainer
36. G.T. Robillard, Emeritus Professor of Biochemistry and Biophysics
37. Arthur Rörsch, Former Member Board of Directors, TNO, The Netherlands
38. Don Schäfer, Former Director Shell Exploration & Production and New Business, Shell
39. Frans Schrijver, Strategy Consultant and Climate Publicist
40. Jos de Smit, Emeritus Professor of Stochastic Operations Research and Former Rector Magnificus of the University of Twente
41. Albert Stienstra, Emeritus Professor of Computer Simulation and Micro-Electronics, Delft University of Technology
42. P.J. Strijkert, Former Member Board of Directors of DSM, Delft, The Netherlands
43. Fred Udo, Emeritus Professor of Nuclear Physics, Vrije Universiteit Brussels, Belgium
44. J.F. van de Vate, Former Director ECN, Petten, The Netherlands. Former UN Delegate IPCC.
45. Frans van den Beemt, Nuclear Physicist, Former Program Director Technology Foundation STW
46. Rutger van Santen, Emeritus Professor of Anorganic Chemistry and Catalysis, Former Rector Magnificus, Eindhoven University
47. Barend-Jan Smits, Geologist, Former Director of Wintershall Nederland, BASF Group
48. Hans van Suijdam, Former Executive Vice President Research and Development DSM, The Netherlands
49. Peter van Toorn, Former Research Geophysicist Shell
50. Jannes J. Verwer, Former CEO Large Electricity Generation Group and Former Chairman Supervisory Board State Owned Radio Active Waste Storage Facilities, The Netherlands
51. Henk van der Vorst, Emeritus Professor of Numerical Mathematics, University of Utrecht
52. Jaap van der Vuurst de Vries, Emeritus Professor of Petroleum Engineering, Former Dean Faculty of Applied Earth Sciences, Delft University of Technology
53. Karel Wakker, Emeritus Professor of Astrodynamics & Geodynamics, Delft University of Technology

54. Cyril Wentzel, Multi-Physics Engineer and Chairman of Environmental Think Tank 'Groene Rekenkamer'
55. Dolf van Wijk, Formerly AkzoNobel Environmental Research Laboratory and Former Executive Director Cefic-Euro Chlor, Brussels
56. W.J. Witteman, Professor of Applied Physics and CO2 lasers, University of Twente
57. Theo Wolters, Co-founder 'Groene Rekenkamer' and 'Climategate.nl'



## SCIENTISTS AND PROFESSIONALS FROM NEW ZEALAND

1. Terry Dunleavy MBE, co-founder (2006) and honorary secretary, New Zealand Climate Science Coalition; WCD Ambassador
2. Deborah Alexander, Agricultural Scientist, New Zealand
3. Jock Allison, retired Agricultural Scientist, Ministry of Agriculture, New Zealand
4. Barry Brill, OBE, Previously Minister of Science and Technology, New Zealand
5. Doug Edmeades, Managing Director agKnowledge Ltd., New Zealand
6. Roger High Dewhurst, Retired, geologist/hydrogeologist, New Zealand
7. Geoffrey G. Duffy, Professor Emeritus, University of Auckland, New Zealand
8. Joe Fone, CAD Engineer, Enatel Ltd
9. Bryan Leyland, Power Systems Engineer and Experienced Renewable Energy Specialist
10. Gerrit J. van der Lingen, Paleoclimatologist, New Zealand, Author of the Book The Fable of Stable Climate
11. John Scarry ME (Civil), structural engineer, member of the New Zealand Climate Science Coalition
12. John Sexton, Member of the New Zealand Climate Coalition
13. David Shelley, Emeritus Associate Professor Geology and latterly Dean of Postgraduate Studies, University of Canterbury, Christchurch, New Zealand
14. Philip Strong, Science Research Leader & Member of the New Zealand Climate Coalition
15. Richard Treadgold, Executive Member NZ Climate Scienc Coalition, Convenor Climate Conversation Group
16. Ian Wright, Professional Geologist



## SCIENTISTS AND PROFESSIONALS FROM NORWAY

1. Ivar Giaever, 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. Morten Jødal, Biologist, Former Employee of the NMorten Jødal, Biologist, Former Employee of the Norwegian Research Council and the Centre for the Development and Environment at the University of Oslo; WCD Ambassador
3. Gunnar Abrahamsen, Professor Emeritus Soil Science, University of Life Sciences, Norway
4. Stein Storlie Bergsmark, Phycisist, Former head of renewable Energy Studies Programmes, University of Agder, Norway
5. Reidar Borgstrøm, Professor Emeritus in fishbiology and Nature Conservation, University of Life Sciences Norway
6. Jon Gulbrandsen, PhD, biologist, Associate Professor NOFIMA and NOAA (USA), Norway
7. Røgnvaldur Hannesson, Professor Emeritus, Norwegian School of Economics, Norway
8. Geir Hasnes, Adjunct Associate Professor, Institute of applied Cybernetics, Norwegian University of Science and Technology, Norway
9. Ole Humlum, Professor Emeritus in Physical Geography, University of Oslo, Norway
10. Hans Konrad Johnsen, Dr. Ing., Norway
11. Arnfinn Langeland, Professor Emeritus Biology, Norwegian University of Science and Technology
12. Willy Nerdal, professor of Chemistry, University of Bergen
13. Ulf Torgny Rock, Master of Chemical Engineering, Norsk Hydro, Norway
14. Martin Torvald Hovland, Geophysical and Geological Advisor, Former Lecturer at University of Tromsø



15. Elen Roaldset, Emeritus Professor in Geology, University of Oslo, Former Director of Natural History Museum Oslo, Professor at Norwegian University of Science and Technology
16. Hakon Gunnar Rueslatten, Geological Researcher, Trondheim
17. Tom V Segalstad, Associate Professor Emeritus of Geochemistry, University of Oslo, Norway
18. Jan-Erik Solheim, Professor Emeritus Astrophysics, University of Tromsø – The Arctic University of Norway
19. 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 Investigación 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. Jaroslaw Grzesik, Chairman of the National Secretariat of Mine and Energy Workers' Union NSZZ
3. 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)



#### 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, Russian Federation
2. Henni Ouerdane, Assistant Professor, Manager of the Energy Systems PhD Programme, Skolkovo Institute of Science and Technology. Moscow Region



#### 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. Kelvin Kemm, PhD, Nuclear Physicist, CEO Nuclear Africa, Pretoria
3. John Ledger, Visiting Professor at the University of the Witwatersrand, Energy and Environmental Consultant
4. Don Mingay, Retired Professor of Nuclear Physics, South Africa



#### SCIENTISTS AND PROFESSIONALS FROM SPAIN

1. 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.
2. José Carlos González Hidalgo, Professor of Physical Geography, teaching more than 20 years on climatology and doing research on the topic. University of Zaragoza, Dep. Geografía
3. Luis Pomar, Emeritus Professor of the University of the Balearic Islands, Spain. Sedimentologist specialized in the study of carbonate rocks which the impact of CO2 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. Leif Åsbrink, PhD in Technology at KTH in Molecular Physics, Stockholm
3. Sture Åström, Professional in Climate Issues, Secretary of the Swedish Network Klimatsans
4. Rolf Bergman, Emeritus Professor of Physical Chemistry, Uppsala University
5. Dr. Lars Bern, Member of The Royal Swedish Academy of Sciences, Retired CEO in Incentive AB
6. Magnus Cederlöf, Software Specialist, Stockholm
7. Per-Olof Eriksson, Physicist, Former CEO of Sandvik Group
8. Dr. Anders Flodin, Business Development Manager, Höganäs AB in North Carolina
9. David D. Gee, Professor Em Orogen Dynamics, Uppsala University, Sweden
10. Eilif Hensvold, PhD Mathematics, Associate Professor of Mathematics (retired), Simulation of Large-scale Industrial Systems, Uppsala University, Luleå Technical University
11. Hans Jelbring, Climate researcher
12. Claes Johnson, Emeritus Professor of Mathematics at Royal Institute of Technology, Stockholm
13. Gunnar Juliusson, Professor of Hematology, Lund University, Senior Consultant, Skåne, University Hospital, Lund
14. Sten Kaijser, Emeritus Professor of Mathematics, Uppsala University
15. Johnny Kronvall, Emeritus Professor in Building Physics, Malmö University and Lund University
16. Johan Montelius, Associate Professor of Computer Science at the Royal Institute of Technology, Stockholm
17. Nils-Axel Mörner, Emeritus Professor Geology, President of the Independent Committee on Geoethics. Former head of Paleogeophysics & Geodynamics at Stockholm University
18. Jacob Nordangård, PhD in Technology and Social Change at the University of Linköping, Researcher on Climate Change History
19. Gösta Pettersson, Emeritus Professor in Biochemistry, University of Lund
20. Marian Radetzki, Emeritus Professor of Economics, Luleå University of Technology
21. Peter Stilbs, Emeritus Professor of Physical Chemistry, Royal Institute of Technology (KTH), Stockholm
22. Elsa Widding, Consultant, Author on Climate Change, Stockholm



## SCIENTISTS AND PROFESSIONALS FROM SWITZERLAND

1. Christian Jacot, Pharmacist
2. Thomas Binder, Cardiologist and Internist
3. Jef Ongena, Member of the Permanent Monitoring Panel for World Energy, World Federation of Scientists, Geneva
4. Jean-Claude Pont, Dr. Math., Emeritus Professor of The History of Philosophy of Sciences, University of Genève
5. Lars Schernikau, Entrepreneur, Energy Economist, Switzerland



## SCIENTISTS AND PROFESSIONALS FROM UNITED KINGDOM

1. Christopher Monckton of Brenchley, Peer of the Realm and author of several reviewed papers on climate; WCD Ambassador
2. Paul Binns, Former Research Geoscientist and Climate Researcher
3. David Bodecott, Consultant Geophysics and Geology, Fellow of the Geological Society of London
4. D. Q. Bowen, Emeritus Professor of Earth and Ocean Sciences, Fellow International Union for Quaternary Research, Cardiff University
5. Michael Brown, Expert in large scale thermal fluid dynamic models.
6. John C. W. Cope, Professor of Geology, National Museum Wales, Cardiff
7. Richard Courtney, Retired Material Scientist, Expert Peer Reviewer of the IPCC
8. Peter Cunningham, Expert in Mathematical Modelling of Complex Physical Phenomena

9. Isabel Davis, Geophysicist and Entrepreneur
10. 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
11. Howard Dewhirst FGS, Geologist, Initiator Open Letter to the Geological Society of London
12. Gregor Dixon FGS, Geologist, former member Geological Society of London
13. Roderick Paul Eaton, Retired Energy Systems Analyst from the UK Electricity Supply Industry
14. Peter Gill, Physicist, Former Chair of the Institute of Physics Energy Group, UK
15. Gil Gilchrist, Geophysicist, UK
16. Jimmy Haigh, Independent Geological Consultant
17. Tim Harper FGS, Geologist, Entrepreneur, Devon
18. John Harrison, Former Chartered Physicist and Chartered Engineer
19. Bob Heath, retired Geophysicist, Honorary member of the Indian Society of Petroleum Geologists
20. Alex Henney, Formerly London Electricity Board, Consultant on Electricity Matters
21. Roger Higgs, DPhil (Oxon), Independent Geological Consultant, Geoclastica Ltd.
22. Keith H. James, PhD, Consultant Geologist
23. David A. L. Jenkins, Geologist, Director Hurricane Energy plc
24. Chris Jesshope, Emeritus Professor University of Amsterdam, Director Techne Consulting Ltd. (UK)
25. Roger Longstaff, Experimental Space Physicist and Company Director
26. Chris Matchatte-Downes, Geologist, fellow of the geological Society of Gt Britain
27. Stuart Munro, Exploration Geologist and Geophysicist
28. Edward Nealon, Geologist Member of the Australian Institute of Mining & Metallurgy, UK
29. Peter Owen FGS, Fellow of the Geological Society of London
30. Dennis Paterson, Geologist, retired
31. Clive Randle, Geologist, Fellow of the Geological Society of London
32. Michael J. Rath, Professional Forrester
33. Ceri Reid, Researcher, Engineer and Manager
34. Michael F. Ridd, Geologist, Fellow of the Geological Society of London
35. Richard Saumarez, Biomedical Engineer from Imperial College
36. Michael Seymour, geologist, Fellow of the Geological Society of London
37. Stephen Taylor, PhD, Infra-Red Physicist and Tidal Hydrographer, MD Geomatrix 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
38. Leslie Thomson, Retired Vice President Operations, BP Exploration, Aberdeen
39. Jay Willis, Marine Scientist, Associate of the OxNav Group of Oxford University.
40. 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, USA; WCD Ambassador*
2. *John Droz jr, Physicist, Founder of AWED Alliance, USA, WCD Ambassador*
3. *Ralph B. Alexander, Emeritus Professor of Physics, Science Writer*
4. *Raphael D'Alonzo, Analytical Chemist, Retired Associate Director, the Proctor & Gamble Company*
5. *Anthony J. Armini, Retired Founder and CEO Implant Sciences Corp., USA*
6. *Dr. Malgorzata Askanas, Senior R&D Associate at the Aurora Biophysics Research Institute*
7. *Hans-Peter Bär, Emeritus Professor of Pharmacology, Canada and Former Dean of Basic Medical Sciences, American University of Barbados, Barbados*
8. *James R. Barrante, Emeritus Professor of Physical Chemistry, USA*
9. *Charles G. Battig, Climate Adviser, Heartland Institute, USA*
10. *Larry Bell, Endowed Professor of Space Architecture, University of Houston, USA*

11. David J. Benard, Chemical Physicist & Co-inventor of the Oxygen-iodine Chemical Laser
12. Edwin X. Berry, PhD, Atmospheric Physicist, American Meteorological Society, Author, Climate Physics LLC, USA
13. Jared L. Black, Numerical Analysis Consultant, Sc.D., USA
14. Elliott D. Bloom, Emeritus Professor of Particle Physics and Astrophysics, KIPAC-SLAG, Stanford University
15. David Boleneus, Professional Geologist
16. Daniel Botkin, Emeritus Professor of Biology, Climate Researcher, Author of the Book: Twenty-five Myths That Are Destroying the Environment, USA
17. Robert L. Bradley Jr., CEO and Founder of the Institute for Energy Research
18. James W. Buell, PhD, Aquatic Biologist, Consultant
19. Sharon R. Camp, PhD, Retired Analytical Chemist and Environmental Scientist.
20. Nick Capaldi, PhD, Author Books on Logic, the Scientific Method and the Philosophy of Science
21. Roy Clark, Climate Researcher, Retired Engineer, California
22. Martin Cornell, Retired Senior Scientist, Dow Chemical Company, USA
23. 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, USA
24. George Davey, Physicist, University of Iowa
25. James DeMeo, PhD, Retired Expert in Earth and Atmospheric Science, Oregon
26. David Deming, Professor of Arts & Sciences, University of Oklahoma, USA
27. Harold H. Doiron, Retired NASA Engineer, USA
28. Mohan Doss, Professor, Fox Chase Cancer Center, Philadelphia, One of the Founding Members of SARI.
29. Jack D. Downing, Geologist and Geophysicist
30. John Dale Dunn, MD, JD, Lecturer Carl R. Darnall Army Medical Center, Fort Hood, Texas
31. Freeman Dyson, Emeritus Professor Natural Sciences, Institute of Advanced Study, Princeton University, USA
32. Vincent Esposito, Adjunct Professor University of Pittsburg, PA, USA; Doctor of Science in Nuclear Engineering (Un. Fo Virginia), Retired Manager from Westinghouse Electric Company
33. Peter Farrell, Fellow of the US National Academy of Engineering, USA
34. Rex Fleming, Research Scientist, Author of Book on Carbon Dioxide Fallacy, Retired President Global Aerospace, USA
35. Jim Folcik, Geosciences Manager Extraction Oil & Gas
36. Patrick Frank, PhD, SLAC National Accelerator Laboratory, Stanford University
37. Gordon J. Fuls, Astrophysicist, Board of Directors CO2 Coalition, Co-founder Global Warming Realists
38. Terry Gannon, Physicist, Retired Semiconductor Executive, USA
39. Ulrich H. Gerlach, Professor of Mathematics, Ohio State University, USA
40. Ivar Giaever, 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
41. Laurence I. Gould, Professor of Physics, University of Hartford, Past Chair, New England Section of the American Physical Society.
42. Steve Goreham, Executive Director, Climate Science Coalition of America, USA
43. Mike Gruntman, Professor of Astronautics, University of Southern California
44. Lyle W. Hancock, Professional Mathematician
45. David Heald, Retired Electrical Engineer, USA
46. Howard C. Hayden, Emeritus Professor of Physics, University of Connecticut, USA
47. Oliver Hemmers, Retired Executive Director of the Harry Reid Center at the University of Nevada, Las Vegas
48. 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)
49. Jim Hollingworth, Social Scientist; Book: 'Climate Change: A Convenient Truth'

50. Edward Huff, PhD, Retired NASA Senior Scientist
51. Kathryn E. Kelly, President Delta Toxicology, USA
52. Hugh Kendrick, PhD, Retired Director Plans and Analysis, Office of Nuclear Reactor Research, US Dept. of Energy, Fellow American Physical Society
53. Stephen C. Knowles, Marine Scientist and Geologist, Beacon, New York, USA
54. Wayne P. Kraus, Member American Institute of Chemical Engineers (AIChE)
55. Jay Lehr, PhD, Senior Policy Analyst for the International Climate Science Coalition. Former Science Director of the Heartland Institute.
56. David P. Lentini, Chemist and Patent Attorney, New Hampshire
57. Jeffrey Mahn, Retired Nuclear Engineer Sandia National Laboratories (New Mexico, USA); Member Scientists for Accurate Radiation Information (SARI), Member Nuclear Society (ANS)
58. M. Malkan, PhD, Distinguished Professor of Physics and Astronomy, UCLA
59. James A. Marsh, Emeritus Professor of Immunology, Cornell University, Dept. of Microbiology and Immunology
60. Patrick J. Michaels, Competitive Enterprise Institute, Washington DC, USA
61. Pamela Matlack-Klein, Member of Portuguese Sea Level Project, USA
62. Andy May, Writer and Retired Petrophysicist
63. Dr. 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
64. Craig Mc Cluskey, PhD, Physics
65. Richard McFarland, Retired NASA Physicist, USA
66. Samuel H. Melfi, Emeritus Professor of Physics, UMBC, Retired NASA Scientist, USA
67. Kenneth Melvin, MD: retired Professor of Medicine, Portland, Oregon
68. Ferenc M. Miskolczi, Retired NASA/AS&M Senior Scientist; Foreign Associate Member of the Hungarian Academy of Sciences
69. James Moore, Commercial Fisherman, President Alaska Trawlers Association, Executive Committee Northern Southeast Regional Aquaculture Association, Board member Amstrong Keta Inc.
70. Daniel W. Nebert, Professor Emeritus, Department of Environmental Medicine and Center for Environmental Genetics, University of Cincinnati
71. Ned Nikolov, Ph.D., Physical Scientist at the USFS Rocky Mountain Research Station in Fort Collins, CO, USA, managing a fire-weather intelligence project
72. Thomas O'Connor, Member American Association of Petroleum Geologists, Washington, USA
73. Kenton Oma, Retired PE Chemical Engineer, Environmental Engineering, Environmental Consultant, R&D at DOE Nuclear Facility
74. Trueman D. Parish, Retired Director of Engineering Research Eastman Chemical Company, USA
75. Arvid Pasto, PhD in Ceramics, Retired from the Oak Ridge National Laboratory, TN
76. Charles W. Pennington, Senior Vice President of Engineering , NAC International (Retired); Secretary, XLNT Foundation, Board of Directors
77. Jeffrey S. Philbin, Retired Nuclear Engineer Sandia National Laboratories (New Mexico, USA); Independent Consultant in Nuclear Facility Design and Safety Analysis, Nuclear Criticality Safety and Weapon Response
78. James M. Policelli, Registered Professional Engineer
79. Herman A. Pope, retired Aerospace Engineer NASA-JSC, USA
80. Willem Post, Independent Researcher regarding Energy and Environment
81. Kenneth L. Purdy, Management Consultant, Retired Naval Officer in Operational Intelligence
82. Forrest J. Remick, Emeritus Professor of Nuclear Engineering; Emeritus Assoc. VP for Research at The Pennsylvania State University. Retired Commissioner, US Nuclear Regulatory Commission
83. Phil Robinson, Retired Chemist in the Aluminium and Steel Industry



84. James H. Rust, Emeritus Professor of Nuclear Engineering, Georgia Institute of Technology
85. Charles L. Sanders, Retired Radiobiologist; Author of Radiobiology and Radiation Hormesis: New Evidence and Its Implications for Medicine and Society (Springer)
86. Thomas P. Sheahen, PhD, Chairman, Science and Environmental Policy Project
87. John Shewchuk, Meteorologist (CCM) and Atmospheric Researcher, USA
88. Robert P. Smith, PhD, P.E., Environmental Scientist and Professional Engineer
89. Willie Soon, Independent Scientist, USA
90. Walter Starck, PhD in Marine Science, Pioneer in Coral Reef Studies, Policy Advisor to The Heartland Institute.
91. Jim Steele, Emeritus Director Sierra Nevada Field Campus, San Francisco State University
92. Ronald Stein, Professional Engineer, USA
93. Gerald M. Sulzer, MS Chemical Engineer, Retired Director of Technology, Albemarle Corporation, USA
94. Tomer D. Tamarkin, Physicist, Founder and President/CEO of Energycite Inc., President and Chairman of ClimateCite Inc.
95. Paul Taylor, Energy Economist, recipient Rossitor Raymond Award, Golden Colorado, USA
96. David E. Thompson, Emeritus Professor Mechanical Engineering and Computer Science, Dean Emeritus College of Engineering, University of Idaho
97. Cecil Joe Tomlinson, Retired Boeing Senior Principle Engineer
98. Kip Trout, Lecturer in Physics, The Pennsylvania State University – York Campus
99. Richard Trzupek, Chemist and Air Quality Expert
100. Waheed Uddin, Professor of Engineering Science, University of Mississippi, Expert in Climate Modeling, Former Advisor UN
101. William B. Walters, Guggenheim Fellow, Professor of Atmospheric, Nuclear and Environmental Chemistry, University of Maryland, USA
102. James Wanliss, Professor of Physics, Presbyterian College USA
103. Chuck F. Wiese, Professional Meteorologist, USA
104. Steven E. Weismantel, Retired Engineer and Climate Researcher, USA
105. Gregory R. Wrightstone, Expert Reviewer IPCC 6th Assessment Report (AR6), USA
106. David Wojick, Cognitive Scientist, USA
107. Thomas Wismuller, Retired NASA Executive, USA
108. Bob Zybach, Program Manager, Oregon Websites and Watersheds Project INC., USA

**Colofon**

*The World Climate Declaration was initiated in 2019 by emeritus professor Guus Berkhout, founder of the Dutch Climate Intelligence Foundation (CLINTEL). The Declaration is a living document that is frequently changed based on input from all the ambassadors and other experts. The most up-to-date version of both the Declaration and the list of signatories can be found on [www.clintel.org](http://www.clintel.org).*

*Graphic design: [www.zinontwerpers.nl](http://www.zinontwerpers.nl)*

