

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:

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42. Andrew Gillies, Geologist

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79. 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"
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44. Paul MacRae, Independent Climate Researcher
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12. Pierre Beslu, Former Researcher and Head of Department in the French Nuclear Energy Commission (CEA).
13. Michel Bouillet PhD, Human Geography, Emeritus Professor, Former Associate Researcher at the MMSH (Aix-en-Provence)
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17. Bernard Capai, Retired Chemistry Engineer, Specialist of Industrial Processes avoiding the use of Carcinogenic Solvents
18. Patrick de Casanove, Doctor of Medicine, Chairman of the Cercle Frédéric Bastiat
19. Philippe Catier, Medical Doctor
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21. Pascal Chondroyannis, Forest Engineer, Retired Director of the National Alpine Botanical Conservatory (2008-2013)
22. Jean Michel Colin PhD, Retired Chemist Engineer, Expert for the French Academic Evaluation Agency (AERES)
23. Philippe Colomban, CNRS Research Emeritus Professor, Former Head of Laboratory at Université Piere-et-Marie Curie, Expert in Hydrogen-based Energy Storage
24. 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
25. Christian Coppe PhD, Organic & Analytical Chemistry
26. Philippe Costa, Energy Engineer at ENSEM Nancy, specialist in Industrial Process and Energy Saving
27. Vincent Courtillot, Geophysicist, Member of the French Academy of Sciences, Former Director of the Institute de Physique du Globe de Paris
28. Pierre Darriulat, Professor of Physics, Member of the French Academy of Sciences
29. Jean Davy, Engineer (ENSAM), Digital Modeling Software Developer
30. 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
31. Jean-Pierre Desmoulins, Retired Professor of Thermal and Energy Engineering at the "Institut Universitaire de Technologie, Université-Grenobles-Alpes"

32. Gérard Douhet PhD, Nuclear Physics, Retired Engineer at CERN, Technical Manager on Digital Transmission and Video Encoding
33. Hubert Dulieu, Emeritus Professor Applied Ecology, Formerly Senior Researcher in the CNRS, President of the National Scientific Research Committee, Vegetal Biology Section (XXVII)
34. Bruno Durieux, Economist, Former Minister of Health and of Foreign Trade, Ancient Administrator of the French National Institute of Statistics and Economic Studies (INSEE)
35. Max Falque, International Consultant in Environmental Policy
36. Serge Ferry PhD, Retired Teacher-Researcher (MCF), University of Lyon
37. Patrick Fischer, Associate Professor in Applied Mathematics, University of Bordeaux
38. Michel Frenkiel, Engineer (Arts et Métiers), Former Researcher at NCAR in Boulder
39. Francis le Gaillard PhD, Natural Sciences and Pharmaceutical Sciences, Emeritus Professor of Biochemistry at the Faculty of Pharmaceutical Sciences of Toulouse
40. François Gauchenot, Governance Specialist, Founder of Saint George Institute
41. Jean Gergelé, Engineer Graduate from the Ecole Centrale de Lyon, R&D Director, Freelance Consultant, mainly in the Li-ion battery development
42. Christian Gérondeau, Former Advisor of several French Prime Ministers, Formerly responsible for the Road Traffic Safety Policy for France and the European Union
43. Francois Gervais, Emeritus Professor of Physics and Material Sciences, University of Tours
44. Philippe Giraudin, Ecole Polytechnique Paris, Geographic Sciences
45. Bernard Grandchamp, Agronomic Engineer and Environment & Plant Defense Expert, Managing Director of Famos Chateaux Viticoles in Bordeaux
46. 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
47. Maximilian Hasler, Associate Professor in Mathematics, University of French West Indies
48. Charles Hazan, Retired Chemist (ENSCP) and Chemical Engineer (UMIST) Former Technical Director Nosolor
49. Yvon Jarny, Emeritus Professor in Thermal and Energy Sciences, Nantes University
50. Claude Jobin, Retired A&M Engineer specialized in Microwave Communication
51. Alexandre Krivitzky, Psychoanalyst, Member of the International Psychoanalytical Association
52. Roger Lainé, Retired Geological Engineer
53. Philippe de Larminat, Professor at École Centrale de Nantes, specialist of Business Process Modeling
54. René Laversanne, Researcher at the CNRS, 16 patents
55. Jean-Marie Longin, Engineer (Saint-Cyr), Chief of the Pole Operations of Security Inventory Management
56. Guy Lucazeau, Emeritus Professor (Institut Polytechnique de Grenoble) in Material Sciences and Spectroscopy
57. Philippe Malburet, Emeritus Associated Professor of Mathematics, Founder of the Planetarium of Aix-en-Provence, Member of the Academy of Aix-en-Provence
58. Christian Marchal, Astronomer and Mathematician, Former Research Director at the French National Office for Aerospace Studies and Research
59. Paolo Martinengo, Applied Physicist, Senior Staff Member in the Experimental Physics Department, Detector Technologies Group, CERN
60. Patrick Mellett, Architect and CEO
61. Marc le Menn PhD, Head of Metrology-Chemistry Oceanography Lab, Brest
62. 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
63. Jacques-Marie Moranne, Retired Engineer (Ecole Centrale de Lille), Specialist in Air and Water Purification, Chemical and Nuclear Engineering
64. Serge Morin, Emeritus Professor Geography at Université Michel de Montaigne, Bordeaux, Honorary Mayor of Branne

65. Cédric Moro, Geographer on Natural Hazards Management, Co-Founder of Visov, a NGO in Civil Defense
66. Philippe Morvan, Engineer ENSTA and Génie Maritime, specialist in Software Development
67. Charles Naville, R&D Exploration Geophysicist, IFP Energies Nouvelles
68. Michel le Normand, Emeritus Professor of Botany and Plant Pathology and Chairman of Plant Production Department, National Superior School of Agronomy, Rennes
69. 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'
70. Rémy Prud'homme, Emeritus Professor in Economics at University of Paris-Est, Former Deputy-Director, Environment Directorate, OECD
71. Pierre Richard, Engineer ESPCI Paris, Former Research Geochemist at Institut de Physique du Globe de Paris (IPGP)
72. Pierre Ripoche, Engineer INSA in Chemistry, Retired Project Manager in R&D, Expert in High Temperature Plasma for Optical Fiber Process
73. Isabelle Rivals, Associate Professor in Statistics at ESPCI Paris
74. Bertrand Rouffiange, Doctor of Medicine, specialized in Radiology
75. Jean Rouquerol, Emeritus Research Director at CNRS Marseille, Expert in Gas Adsorption and Calorimetry
76. Georges de Sablet, Retired Associate Professor at University of Paris Descartes, Formerly in charge of Operating Systems and Networks at IUT Paris
77. François Simonet PhD, Biology, Former Director for Planning and Foresight in a State Agency for Water and Aquatic Ecosystems Management
78. 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)
79. Marcel Terrier, Engineer ENSAEM in Risk Management, Teacher at École des Mines
80. 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)
81. Camille Veyres, Retired Engineer at École des Mines, specialist in Telecommunications and Broadband Networks
82. Brigitte van Vliet-Lanoë, Geoscientist, Emeritus Research Director (CNRS, Université de Bretagne Occidentale), Stratigraphy and Palaeoenvironments, Quaternary and Holocene
83. Théa Vogt, Retired CNRS Searcher, Géomorphology, Quaternary Palaeoenvironments, Soil and Desertification Remote Sensing
84. 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. Lars Birlenbach, Dr. in Chemistry, University of Siegen
6. Michael Bockisch, Emeritus Professor Chemistry at the Technical University of Berlin
7. Klaus-Dieter Böhme, Dipl. Physicist, professional experience in X-ray spectroscopy
8. 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)
9. Eike-Mattias Bultmann, Geoscientist
10. Dr. Arthur Chudy, Agricultural Chemist OT Warsaw
11. Prof. Dr. Klaus D. Döhler, Professor of Pharma sciences, University of Hannover
12. Friedrich-Karl Ewert, Emeritus Professor Geology, University of Paderborn
13. Ludwig E. Feinendegen, Emeritus Professor Medicine
14. Christian Habermann, Dr. in Economics, Investment Manager

15. Hermann Harde, Emeritus Professor of Experimental Physics and Materials Science, Helmut Schmidt-University, Hamburg
16. Prof. Dr. Bernd Hartke, Professor in Theoretical Chemistry, Expert Knowledge in Computer Modelling, University of Kiel
17. Manfred Hauptreif, Natural Scientist
18. Werner Kirstein, Emeritus Professor of Climatology, University of Leipzig
19. Stefan Kröpelin, Dr. in Geosciences, Free University of Berlin and University of Cologne (Retired), specialized in Climate Change of the Sahara
20. Ulrich Kutschera, Professor of Plant Physiology & Evolutionary Biology at the University of Kassel and Visiting Scientist in Stanford USA
21. Michael Limburg, Vice-President EIKE (Europäisches Institute für Klima und Energie)
22. Horst-Joachim Lüdecke, Professor of Operations Research (i.R.) HTW of Saarland, Saarbrücken
23. Wolfgang Merbach, Professor Dr. Agrar. Habil. at Institut für Agrar Ernährungswissenschaften
24. Lothar W. Meyer, Emeritus Professor of Material Engineering, Chemnitz University of Technology, Saxony Entrepreneur 'Nordmetall GmbH', Member of the Board of 'Vernunftkraft Niedersachsen'
25. Werner Mormann, Emeritus Professor of Macromolecular Chemistry, Universität Siegen
26. Hans Penner PhD, Dipl.-Chem. Dr. rer. nat., Linkenheim-Hochstetten
27. Siegfried Reiprich, Dipl.-Ing, Geoscientist and Oceanography
28. W.H. Eugen Schwartz, Emeritus Professor of Theoretical Chemistry, Universität Siegen
29. Jost Trier PhD, Retired Experimental Physicist at the Federal Institute in Braunschweig, Dept. of Atomic Physics
30. 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. Sotiris Kamenopoulos PhD, Independent Researcher in the Field of Sustainable Exploitation of Mineral Resources, Social License to Operate and Risk Management
6. Christos J. Kolovos PhD, Mining & Metallurgy Engineer, Former Director of Mine Planning & Contractor Works Dept., Public Power Corporation of Greece
7. Theodoros Kolydas, Director of the National Meteorological Center of Hellenic National Meteorological Service (HNMS)
8. Demetris Koutsoyiannis, Professor of Hydrology and Analysis of Hydrosystems at the National Technical University of Athens
9. Emmanouil Kopanakis, Mechanical Engineer, Teacher at the Environmental Education Center of Karpenisi
10. Aristotelis Liakatas, Emeritus Professor of the Agricultural University of Athens on Agrometeorology, Member of the Greek Agricultural Academy
11. Nikos Mamassis, Associate Professor of Engineering Hydrology and Hydrometeorology at the National Technical University of Athens
12. Spyridon Nikiforos, Economist, MBA
13. Sonia Perez PhD, Biology/Immunology, Scientific Coordinator Cancer Immunology and Immunotherapy Center Saint Savas Cancer Hospital, Athen





## SCIENTISTS AND PROFESSIONALS FROM HUNGARY

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



## SCIENTISTS AND PROFESSIONALS FROM INDIA

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



## 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. 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. Mark Gerard Keenan, Former Science Advisor, Department of Energy and Climate Change, U.K., Former Environmental Affairs Officer, United Nations Environment Division, Geneva, Switzerland.
8. Ultan Murphy, BSc (Hons) Chemistry, Industry Science Professional
9. Owen O'Brien, Business Founder and Entrepreneur, MBA, DBA
10. Patrick L O'Brien, MSc, MPhil, Senior International Environmental Consultant
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 Ambassado*
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 Attività 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. Alberto Lagi, Ingegnere, Presidente di Società Ripristino Impianti Complessi Danneggiati
78. Luciano Lepori, Ricercatore IPCF-CNR, Pisa
79. Carlo Lombardi, Professore di Impianti Nucleari, Politecnico di Milano
80. Walter Luini, Geometra
81. Roberto Madrigali, Meteorologo
82. Angelo Maggiora PhD, INFN Senior Researcher, More than 40 years experience in research at CERN, Saclay, Dubna and Frascati
83. Ettore Malpezzi, Ingegnere
84. Vania Mancinelli, Geologo, Borsista presso l'Università di Chieti
85. Ludovica Manusardi, Fisico Nucleare e Giornalista Scientifico, UGIS
86. Luigi Marino, Geologo, Centro Ricerca Previsione, Prevenzione e Controllo Rischi Geologici (CERI), Università di Roma La Sapienza
87. Alessandro Martelli, Ingegnere, già Dirigente ENEA
88. Salvatore Martino, Professore di Geologia Applicata all'Ingegneria al Territorio ed ai Rischi, Università di Roma "Sapienza"
89. Maria Massullo, Tecnologa, ENEA-Casaccia, Roma
90. Enrico Matteoli, Primo Ricercatore, IPCF-CNR, Pisa
91. Paolo Mazzanti, Professore di Interferometria Satellitare, Università di Roma La Sapienza
92. Adriano Mazzarella, Professore di Meteorologia e Climatologia, Università di Napoli
93. Marcello Mazzoleni, Docente e imprenditore nel settore della formazione, fondatore del sito web MeteoSincero
94. Carlo Merli, Professore di Tecnologie Ambientali, Università di Roma La Sapienza
95. Enrico Miccadei, Professore di Geografia Fisica e Geomorfologia, Università di Chieti-Pescara
96. Gabriella Mincione, Professore di Scienze e Tecniche di Medicina di Laboratorio, Università di Chieti-Pescara
97. Umberto Minopoli, Presidente dell'Associazione Italiana Nucleare
98. Alberto Mirandola, Professore di Energetica Applicata e Presidente Dottorato di Ricerca in Energetica, Università di Padova

99. 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
100. Maurizio Montuoro, Medico
101. Renzo Mosetti, Professore di Oceanografia, Università di Trieste, già Direttore del Dipartimento di Oceanografia, Istituto OGS, Trieste
102. Daniela Novembre, Ricercatore in Georisorse Minerarie e Applicazioni Mineralogichepetrografiche, Università di Chieti-Pescara
103. Francesco Oriolo, Professore di Impianti Nucleari, Università di Pisa
104. Paolo Emmanuele Orrù, Professore di Geografia Fisica e Geomorfologia, Università di Cagliari
105. Sergio Ortolani, Professore di Astronomia e Astrofisica, Università di Padova
106. Giorgio Paglia, Geologo, Borsista presso l'Università di Chieti
107. Massimo Pallotta, Primo Tecnologo, Istituto Nazionale Fisica Nucleare
108. Antonio Panebianco, Ingegnere
109. 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
110. Antonio Pasculli, Ricercatore di Geologia Applicata, Università di Chieti-Pescara
111. Ernesto Pedrocchi, Professore Emerito di Energetica, Politecnico di Milano
112. Davide Peluzzi, Ambasciatore del Parco Nazionale del Gran Sasso e dei Monti della Laga nel Mondo nel 2017
113. Corrado Penna, Docente di Matematica
114. Enzo Pennetta, Professore di Scienze Naturali e Divulgatore Scientifico
115. Gianni Pettinari, Impiegato Amministrativo, Fondatore del gruppo Facebook: "Falsi allarmismi sul riscaldamento globale"
116. Alessandro Pezzoli, Ricercatore Universitario e Professore aggregato in Weather Risk Management, Politecnico di Torino e Università di Torino
117. Tommaso Piacentini, Professore di Geografia Fisica e Geomorfologia, Università di Chieti-Pescara
118. Stefano De Pieri, Ingegnere Energetico e Nucleare
119. Paolo M.J. Pilli, Pensionato
120. Andrea Pomozzi, Presidente Associazione Piceno Tecnologie
121. Guido Possa, Ingegnere Nucleare, già Viceministro del Ministero dell'Istruzione, Università e Ricerca con delega alla Ricerca
122. Giorgio Prinzi, Ingegnere, Direttore Responsabile della Rivista "21mo Secolo Scienza e tecnologia"
123. Franco Prodi, Professore di Fisica dell'Atmosfera, Università di Ferrara
124. Franco Puglia, Ingegnere, Presidente CCC, Milano
125. Francesca Quercia, Geologo, Dirigente di Ricerca, Ispra
126. Nunzia Radatti, Chimico, Sogin
127. Arnaldo Radovix, Geologo, Risk Manager in Derivati Finanziari
128. Mario Luigi Rainone, Professore di Geologia Applicata, Università di Chieti-Pescara
129. Mario Rampichini, Chimico, Dirigente Industriale in Pensione, Consulente
130. Arturo Raspini, Geologo, Ricercatore, Istituto di Geoscienze e Georisorse (IGG), Consiglio Nazionale delle Ricerche, Firenze
131. 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
132. Marco Ricci, Fisico, Primo Ricercatore, Istituto Nazionale di Fisica Nucleare
133. Renzo Riva, Comitato Italiano Rilancio Nucleare (C.I.R.N.), Buja
134. PierMarco Romagnoli, Ingegnere, Milano
135. Vincenzo Romanello, Ingegnere Nucleare, Ricercatore presso il Centro di Ricerca Nucleare di Rez, Repubblica Ceca
136. Piergiorgio Rosso, Ingegnere Chimico
137. Stefano Rosso, Insegnante di Geografia, Storia e Italiano, Scuola Secondaria, Modena
138. Alberto Rota, Ingegnere, Ricercatore presso CISE ed ENEL, Esperto di Energie Rinnovabili



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



#### SCIENTISTS AND PROFESSIONALS FROM MEXICO

1. Luis Frausto, Chemical Engineer
2. Armando Pérez 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. Kees 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 Anel, Author of the 'Groene Illusie'
5. Dries Ausems MSc, Earth Sciences, Lifetime Experience as Geologist in the Geo-Energy Industry
6. René Bakers, Former Lawyer and Attorney Liability and Insurance
7. Frans van den Beemt, Nuclear Physicist, Former Program Director Technology Foundation STW
8. Andre Bijkerk, Retired Officer Royal Dutch Air Force, now Climate Researcher
9. Peter Bloemers, Emeritus Professor of Biochemistry, Radboud University, Nijmegen
10. Hans Bouman MSc, Chemistry, Professional in Production Technology and Asset Management
11. Paul M.C. Braat, Emeritus Professor of Pulmonary Physics, University of Amsterdam
12. Solke Bruin, Emeritus Professor of Product-driven Process Technology, University of Eindhoven and Former Member Management Committee Unilever Research, Vlaardingen
13. Paul Cliteur, Professor of Legal Sciences, Member of the Senate of The Netherlands
14. Albert J.H.G. Cloosterman, Retired Chemical Engineer, Publicist on Climate and Cosmological Matters
15. Marcel Crok, Climate Researcher and Science Journalist
16. Gerhard Diephuis MSc, Geosciences, specialized in Geophysics, Lifetime Experience in the Geo-Energy Industry, Guest Lecturer TU Delft
17. David E. Dirkse, Former Computer Engineer and Teacher Mathematics
18. Marco Draaisma, ICT Process Coördinator
19. Arjan Duiker, Process Technologist at Tata Steel, specialist on Thermodynamics and Fluid Mechanics Louw Feenstra, Emeritus Professor Erasmus University and Philosopher, Rotterdam
20. Henk Goemans MSc, Geosciences, specialized in Reservoir Engineering
21. Frans H Gortemaker, Former Vice president Unilever Global R&D
22. W. J. Evert van de Graaff, Consulting Geologist, 50+ years Global Experience
23. Ton J.T. Grimberg, Oil & Gas Professional, Finance Adviser
24. Kees de Groot, Former Director Upstream Research Lab. Shell
25. Paul de Groot PhD, Geoscience, Manager dGB Earth Sciences
26. Leo Halvers, Former Director Billiton Research Arnhem and Former Director Technology Foundation STW
27. Hans Hamaker, University Degree in Phonetic Sciences, expert in biomechanics of speech, supporter of plasma cosmology, former wireless communication officer
28. Maarten Hardon BSc, Civil Engineering, Lifetime Experience in Offshore Industry, Director Venty BV
29. Eduard Harinck, Former Logistics Expert, Nedlloyd Group/KPMG Consulting
30. Godard Hazeu MSc, Geosciences, specialized in Geology, past Technical Director of the Dutch State Oil and Gas Company EBN
31. J.R. Hetzler, Retired WUR Engineer Forestry Economics
32. Jan F. Holtrop, Emeritus Professor of Petroleum Engineering, Delft University of Technology
33. Hans Hombroek MSc, Geoscience, Lifetime Experience in the International Geo-Energy Industry
34. Tom Hoornstra, Air-conditioning Engineer
35. Jan Horstink, Earth Scientist, Exploration Projects Oil & Gas ME & FE
36. A. Huijser, Physicist and Former CTO Royal Philips Electronics
37. Wouter J. Keller, Emeritus Professor of Statistical Methods, Former Member Board of Directors, Central Bureau of Statistics (CBS)
38. Jacques van Kerchove, Economist and Marketeer, Former CFO Rabobank, now Climate and Environment Researcher
39. Rob de Kok, Principal Geophysicist, researching Influence of CO2 on Atmospheric Temperatures

40. Hans Kolmschate, Chemical Engineer
41. Rob W.J. Kouffeld, Emeritus Professor of Energy Conversion, Delft University of Technology
42. Hans H.J. Labohm, Former Expert Reviewer IPCC
43. B.G. Linsen, Former Director Unilever Research Vlaardingen
44. Pieter Lukkes, Emeritus Professor of Economic and Human Geography, University of Groningen
45. Hugo Matthijssen, Former Teacher Meteorology, now Publicist on Climate Matters
46. Ir. J.M. Mulderink, Former General Director Akzo-Nobel
47. Rob Nijssen, Radar Engineer and Publicist on Climate Matters
48. Rutger van den Noort PhD, Advisor in Innovation Processes, CEO Newcalf
49. Leffert Oldenkamp, Expert Forest Management
50. Peter Oosterling, Former Scientist E & P Shell, now active as Climate Researcher
51. Kees Pieters, Mathematician, Former Operational Research and ICT manager at Shell
52. Reynier Pronk, Former IT Manager, Accredited Project Management Consultant and Trainer
53. Louis M.P.T. van den Reek, PharmD, Member of 'De Groene Rekenkamer'
54. G.T. Robillard, Emeritus Professor of Biochemistry and Biophysics
55. Kees Roos, Emeritus Professor of Optimization Technology, Delft University of Technology
56. Rutger van Santen, Emeritus Professor of Anorganic Chemistry and Catalysis, Former Rector Magnificus, Eindhoven University
57. Don Schäfer, Former Director Shell Exploration & Production and New Business, Shell
58. Chris Schoneveld, Earth Scientist and Retired Shell Exploration Geophysicist
59. Frans Schrijver, Strategy Consultant and Climate Publicist
60. Bert Sigmond, Geologist, Founder of EuGeNe Company in Geothermal Energy
61. Hendrick Smit, Chemical Engineer, specialised in Environmental Instrumentation
62. Jos de Smit, Emeritus Professor of Stochastic Operations Research and Former Rector Magnificus of the University of Twente
63. Barend-Jan Smits, Geologist, Former Director of Wintershall Nederland, BASF Group
64. Albert Stienstra, Emeritus Professor of Computer Simulation and Micro-Electronics, Delft University of Technology
65. P.J. Strijkert, Former Member Board of Directors of DSM, Delft
66. Hans van Suijdam, Former Executive Vice President Research and Development DSM
67. Peter van Toorn, Former Research Geophysicist Shell
68. Fred Udo, Emeritus Professor of Nuclear Physics, Vrije Universiteit Brussels
69. 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
70. J.F. van de Vate, Former Director ECN, Petten, Former UN Delegate IPCC
71. Jan Verheij, Retired Scientist Applied Physics at TNO Delft, Emeritus Professor of Noise Control Engineering at Eindhoven University of Technology
72. Hans Verschuur MSc, Geosciences, specialized in Mining
73. Jannes. J. Verwer, Former Director ECN and Former Chairman Supervisory Board State Owned Radio Active Waste Storage Facilities
74. Dr Koen Vogel, Geologist and Geostatistician, lifetime experience in numerical modelling, proficient in evaluating and developing global energy projects
75. Henk van der Vorst, Emeritus Professor of Numerical Mathematics, University of Utrecht
76. Rob de Vos, Geographer and Editor of 'Klimaatgek'
77. Jaap van der Vuurst de Vries, Emeritus Professor of Petroleum Engineering, Former Dean Faculty of Applied Earth Sciences, Delft University of Technology
78. Karel Wakker, Emeritus Professor of Astrodynamics & Geodynamics, Delft University of Technology
79. Robert N. Walter MSc E.E., Member Advisory Board 'De Groene Rekenkamer'
80. Cyril Wentzel, Multi-Physics Engineer and Chairman of Environmental Think Tank 'Groene Rekenkamer'

81. Frans A. van der Werf, Master of Law, Owner of an International Business for Management, Consultancy and Finance
82. Dolf van Wijk, Formerly AkzoNobel Environmental Research Laboratory and Former Executive Director Cefic-Euro Chlor, Brussels
83. Jan Winkel MSc, Chemical Engineering, specialization in Natural Gas Projects, Lifetime Experience in the Geo-Energy Industry
84. W.J. Witteman, Professor of Applied Physics and CO2 Lasers, University of Twente
85. Theo Wolters, Chairman Environment, Science & Policy Foundation, 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
3. Jock Allison, Retired Agricultural Scientist, Ministry of Agriculture
4. Barry Brill OBE, Previously Minister of Science and Technology
5. Roger High Dewhurst, Retired, Geologist/Hydrogeologist
6. Geoffrey G. Duffy, Professor Emeritus, University of Auckland
7. Doug Edmeades, Managing Director agKnowledge Ltd
8. Joe Fone, CAD Engineer, Enatel Ltd
9. Gary Kerkin, Retired Chemical Engineer, Upper Hutt. Executive member New Zealand Climate Science Coalition
10. Brian Leyland, Power Systems Engineer and Experienced Renewable Energy Specialist
11. Gerrit J. van der Lingen, Geologist and Paleoclimatologist, New Zealand, Author of the Book 'The Fable of Stable Climate'
12. John Scarry ME (Civil), Structural Engineer, Member of the New Zealand Climate Science Coalition
13. John Sexton, Member of the New Zealand Climate Coalition
14. David Shelley, Emeritus Associate Professor Geology and latterly Dean of Postgraduate Studies, University of Canterbury, Christchurch
15. Philip Strong, Science Research Leader & Member of the New Zealand Climate Coalition
16. Richard Treadgold, Executive Member NZ Climate Scienc Coalition, Convenor Climate Conversation Group
17. 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. Morten 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
4. Stein Sorlie Bergsmark, Phycisist, Former Head of Renewable Energy Studies Programmes, University of Agder
5. Reidar Borgstrøm, Professor Emeritus in Fishbiology and Nature Conservation, University of Life Sciences
6. Jon Gulbrandsen PhD, Biologist, Associate Professor NOFIMA and NOAA (USA)
7. Røgnvaldur Hannesson, Professor Emeritus, Norwegian School of Economics
8. Geir Hasnes, Adjunct Associate Professor, Institute of applied Cybernetics, Norwegian University of Science and Technology
9. Martin Torvald Hovland, Geophysical and Geological Advisor, Former Lecturer at University of Tromsø
10. Ole Humlum, Professor Emeritus in Physical Geography, University of Oslo
11. Dr. Ing. Hans Konrad Johnsen
12. Arnfinn Langeland, Professor Emeritus Biology, Norwegian University of Science and Technology



13. Willy Nerdal, Professor of Chemistry, University of Bergen
14. Elen Roaldset, Emeritus Professor in Geology, University of Oslo, Former Director of Natural History Museum Oslo, Professor at Norwegian University of Science and Technology
15. Ulf Torgny Rock, Master of Chemical Engineering, Norsk Hydro
16. Håkon Gunnar Rueslåtten, Geological Researcher, Trondheim
17. Tom V. Segalstad, Associate Professor Emeritus of Geochemistry, University of Oslo
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



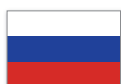
#### SCIENTISTS AND PROFESSIONALS FROM POLAND

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



#### 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



#### 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. Dr. John Ledger PhD, Visiting Associate Professor at the University of the Witwatersrand, Energy and Environmental Consultant, Consulting Editor, Freelance Writer, Editor and Lecturer
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. Ferran Brunet, Professor on the European Economy, Unniversitat Autònoma de Barcelona
3. José Carlos Gonzàlez Hidalgo, Professor of Physical Geography, teaching more than 20 years on Climatology and doing Research on the topic, University of Zaragoza, Dep. Geografia
4. Blanca Parga Landa PhD, Modelling Expert, specialist in Environmental Law
5. 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. Leif Åsbrink PhD, Technology at KTH in Molecular Physics, Stockholm
3. Sture Åström MSc, Technology, 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. Tore Dalvåg Msc, Physics, Research Engineer in Hydrodynamics and Thermodynamics, Senior Advisor in Environmental Standards, Author of 'CO<sub>2</sub> a source of life or a threat'
8. Hans Eklund PhD, Technology, Acting Professor at the Department of Laser-and Electro-optics, Chalmers University of Technology, Gothenburg
9. Per-Olof Eriksson, Physicist, Former CEO of Sandvik Group
10. Dr. Anders Flodin PhD, Mechanical Engineering, NC, USA
11. David D. Gee, Professor Emeritus Orogen Dynamics, Uppsala University
12. Anders Grufman MSE, MA Economics, Industrial and Environmental Economics
13. Jan Hagberg PhD, Statistics, Stockholm
14. Lars Hässler PhD, Rock and Soil Mechanics, Bsc Chemistry and Biology, MSc Civil Engineering
15. Eilif Hensvold PhD, Mathematics, Associate Professor of Mathematics (Retired), Simulation of Large-scale Industrial Systems, Uppsala University, Luleå Technical University
16. Gunnar Holmgren PhD, Space Physics, Retired Head of Dept. of Engineering Sciences, Uppsala University
17. Mats Janson MSc, Electrical Engineering, KTH Royal Institute of Technology, Stockholm
18. Hans Jelbring, Climate Researcher
19. Göran Johansson, Specialist in Energy Systems
20. Claes Johnson, Emeritus Professor of Mathematics at Royal Institute of Technology, Stockholm
21. Gunnar Juliusson, Professor of Hematology, Lund University, Senior Consultant, Skåne, University Hospital, Lund
22. Sten Kaijser, Emeritus Professor of Mathematics, Uppsala University
23. Johnny Kronvall Mah, Emeritus Professor in Building Physics, Malmö University and Lund University
24. Lars E. Linder, Associate Professor of Medicine, Gothenburg
25. Rune Lundgren MSc, Helsinki University of Technology, Energy System Expert
26. Johan Montelius, Associate Professor of Computer Science at the Royal Institute of Technology, Stockholm
27. Jacob Nordangård PhD, Technology and Social Change at the University of Linköping, Researcher on Climate Change History
28. Gösta Pettersson, Emeritus Professor in Biochemistry, University of Lund
29. Marian Radetzki, Emeritus Professor of Economics, Luleå University of Technology
30. Mats Rosengren, Mathematics, Space Flight Trajectory Specialist
31. Torsten Sandström, Professor Emeritus, Department of Law, University of Lund
32. Rabbe Sjöberg PhD, Geology, Member of Paleogeophysics & Geodynamics Institute

33. Peter Stilbs, Emeritus Professor of Physical Chemistry, Royal Institute of Technology (KTH), Stockholm
34. Lars H. Thylen, Professor Emeritus in Photonics, Dept. of Theoretical Chemistry and Biology, Royal Institute of Technology, Stockholm, specializing in Low Power Nanophotonics Technology
35. Elsa Widding, Consultant, Author on Climate Change, Stockholm
36. Gösta Walin, Professor Emeritus in Oceanography at University of Gothenburg
37. 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. Lars Schernikau, Energy Economist, Entrepreneur & Author



#### SCIENTISTS AND PROFESSIONALS FROM UNITED KINGDOM

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 Dewhirst 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. 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
21. Jimmy Haigh, Independent Geological Consultant
22. Tim Harper, Geomechanics Consultant and Researcher, previous Recipient of the Royal Academy of Engineering MacRobert Award for Engineering Innovation
23. John Harrison, Former Chartered Physicist and Chartered Engineer
24. Robert Heath, Retired Geophysicist, Honorary member of the Indian Society of Petroleum Geologists
25. Alex Henney, Formerly London Electricity Board, Consultant on Electricity Matters
26. Roger Higgs, DPhil (Oxon), Independent Geological Consultant, Geoclastica Ltd.
27. Keith H. James PhD, Consultant Geologist
28. David A.L. Jenkins, Geologist, Director Hurricane Energy plc
29. Chris Jesshope, Emeritus Professor University of Amsterdam, Director Techne Consulting Ltd.
30. Roger Longstaff, Experimental Space Physicist and Company Director
31. CJ Matchatte-Downes, Geologist and Geochemist, particularly involved in studies about past Climates including Glaciation
32. Philip Mulholland, Geoscientist, Life time experience in the Geo-Energy Industry, co-author of the DAET climate model
33. Stuart Munro, Exploration Geologist and Geophysicist
34. Edward Nealon, Geologist Member of the Australian Institute of Mining & Metallurgy
35. Blair Nimmo, Electronic Engineer, working in Computer Networking and Optical Surface Metrology and Fibre Optics
36. Michael John Oates, Geologist, Lifetime Experience in the Geo-Energy Industry, Fellow of the Geological Society of London
37. Peter Owen FGS, Fellow of the Geological Society of London
38. Dennis Paterson, Geologist, Retired
39. Dr. James Petch, Physical Geographer, formerly Reader in Environmental Science at MMU and Head of Distributed Learning at the University of Manchester
40. Clive Randle, Geologist, Fellow of the Geological Society of London
41. Michael J. Rath, Professional Forrester
42. Dr. Colin Richard Reeves, Emeritus Professor of Operational Research, Expert in Mathematical Modelling
43. Ceri Reid, Researcher, Engineer and Manager
44. Michael F. Ridd, Geologist, Fellow of the Geological Society of London
45. Anthony Robb PhD, Retired Chemist
46. Richard Saumarez, Biomedical Engineer from Imperial CollegeMichael Seymour, Geologist, Fellow of the Geological Society of London
47. Michael Seymour, Geologist, Fellow of the Geological Society of London
48. 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
49. Leslie Thomson, Retired Vice President Operations, BP Exploration, Aberdeen
50. Jay Willis, Marine Scientist, Associate of the OxNav Group of Oxford University
51. 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. Ralph B. Alexander, Emeritus Professor of Physics, Science Writer
3. Anthony J. Armini, Retired Founder and CEO Implant Sciences Corp.
4. Dr. Malgorzata Askanas, Senior R&D Associate at the Aurora Biophysics Research Institute
5. Hans-Peter Bähr, Emeritus Professor of Pharmacology, Canada and Former Dean of Basic Medical Sciences, American University of Barbados, Barbados
6. Charles G. Battig, Climate Adviser, Heartland Institute

7. 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
8. Larry Bell, Endowed Professor of Space Architecture, University of Houston
9. David J. Benard, Chemical Physicist & Co-inventor of the Oxygen-iodine Chemical Laser
10. Edward X. Berry PhD, Atmospheric Physicist, American Meteorological Society, Author, Climate Physics LLC
11. Jared L. Black, Numerical Analysis Consultant, ScD.
12. Elliott D. Bloom, Emeritus Professor of Particle Physics and Astrophysics, KIPAC-SLAG, Stanford University
13. David Boleneus, Professional Geologist
14. Daniel Botkin, Emeritus Professor of Biology, Climate Researcher, Author of the Book: Twenty-five Myths That Are Destroying the Environment
15. Robert L. Bradley jr., CEO and Founder of the Institute for Energy Research
16. James W. Buell PhD, Aquatic Biologist, Consultant
17. 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
18. David Burton, System and Computer Scientist, Expert Reviewer of AR5 and AR6, Member of the CO2 Coalition, and Creator of the SeaLevel.info website
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. Sabin W. Colton PhD, Biochemist and Marine Biologist
23. Martin Cornell, Retired Senior Scientist, Dow Chemical Company
24. 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
25. Raphael D'Alonzo, Analytical Chemist, Retired Associate Director, the Proctor & Gamble Company
26. George Davey, Physicist, University of Iowa
27. Don Dears, Retired Senior Executive GE Company, BS Engineering from United States Merchant Marine Academy
28. James DeMeo PhD, Retired Expert in Earth and Atmospheric Science, Oregon
29. David Deming, Professor of Arts & Sciences, University of Oklahoma
30. Jack D. Downing, Geologist and Geophysicist
31. Paul Driessen, Senior Policy Advisor, Committee for a Constructive Tomorrow (CFACT) and Congress of Racial Equality (CORE)
32. John Droz jr., Physicist, Founder of AWED Alliance
33. John Dale Dunn MD, JD, Lecturer Carl R. Darnall Army Medical Center, Fort Hood, Texas
34. Vincent Esposito, Adjunct Professor University of Pittsburg, PA, Doctor of Science in Nuclear Engineering (Un. FoVigina), Retired Manager from Westinghouse Electric Company
35. Peter Farrell, Fellow of the US National Academy of Engineering
36. Rex Fleming, Research Scientist, Author of Book on Carbon Dioxide Fallacy, Retired President Global Aerospace
37. Jim Folcik, Geosciences Manager Extraction Oil & Gas
38. Patrick Frank PhD, SLAC National Accelerator Laboratory, Stanford University
39. Gordon J. Fuls, Astrophysicist, Board of Directors CO2 Coalition, Co-founder Global Warming Realists
40. Terry Gannon, Physicist, Retired Semiconductor Executive
41. Nicholas De Gennaro PhD, PE, Coastal Engineer, Southport North Carolina
42. Ulrich H. Gerlach, Professor of Mathematics, Ohio State University
43. 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



44. Steve Goreham, Executive Director, Climate Science Coalition of America
45. Laurence I. Gould, Professor of Physics, University of Hartford, Past Chair, New England Section of the American Physical Society
46. Mike Gruntman, Professor of Astronautics, Space Physics and Space Technology, Space and Rocket History University of Southern California
47. Lyle W. Hancock, Professional Mathematician
48. Dr. William Happer, Professor Emeritus in the Department of Physics at Princeton University
49. Bryan Haycock PhD, Adjunct Faculty at a University in the state of Utah
50. Howard C. Hayden, Emeritus Professor of Physics, University of Connecticut
51. David Heald, Retired Electrical Engineer
52. Oliver Hemmers, Retired Executive Director of the Harry Reid Center at the University of Nevada, Las Vegas
53. 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)
54. Jim Hollingworth, Social Scientist, Book: 'Climate Change: A Convenient Truth'
55. Dr. Gary M. Hoover, Geophysicist, Lifetime Experience in the Geo-Energy Industry, Retired Member Board of Directors Geo-Service Company
56. Edward Huff PhD, Retired NASA Senior Scientist
57. Kathryn E. Kelly, President Delta Toxicology
58. Hugh Kendrick PhD, Retired Director Plans and Analysis, Office of Nuclear Reactor Research, US Dept. of Energy, Fellow American Physical Society
59. Stephen C. Knowles, Marine Scientist and Geologist, Beacon, New York
60. Wayne P. Kraus, Member American Institute of Chemical Engineers (AIChE)
61. Jay Lehr PhD, Senior Policy Analyst for the International Climate Science Coalition, Former Science Director of the Heartland Institute
62. David P. Lentini, Chemist and Patent Attorney, New Hampshire
63. Howard R. Lowe, Prof. Eng., Geologist
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65. Matt Malkan PhD, Distinguished Professor of Physics and Astronomy, UCLA
66. James A. Marsh, Emeritus Professor of Immunology, Cornell University, Dept. of Microbiology and Immunology
67. Andy May, Writer and Retired Petrophysicist
68. 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 for DARO
69. Craig McCluskey PhD, Physics
70. Richard McFarland, Retired NASA Physicist
71. Mark Meier PhD, Professor of Physics, University of Houston
72. Samuel Melfi, Emeritus Professor of Physics, UMBC, Retired NASA Scientist
73. Kenneth Melvin MD, Retired Professor of Medicine, Portland, Oregon
74. Patrick J. Michaels, Competitive Enterprise Institute, Washington DC
75. Ference M. Miskolczi, Retired NASA/AS&M Senior Scientist, Foreign Associate Member of the Hungarian Academy of Sciences
76. James Moore, Commercial Fisherman, President Alaska Trawlers Association, Executive Committee Northern Southeast Regional Aquaculture Association, Board member Armstrong Keta Inc.
77. David R. Motes, Chemical Engineer, lifelong experience in the geo-energy industry
78. Daniel W. Nebert, Professor Emeritus, Department of Environmental Medicine and Center for Environmental Genetics, University of Cincinnati
79. Ned Nikolov PhD, Physical Scientist at the USFS Rocky Mountain Research Station in Fort Collins CO, Managing a Fire-Weather Intelligence Project

80. Thomas O'Connor, Member American Association of Petroleum Geologists, Washington
81. Kenton Oma, Retired PE Chemical Engineer, Environmental Engineering, Environmental Consultant, R&D at DOE Nuclear Facility
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83. Arvid Pasto PhD, Ceramics, Retired from the Oak Ridge National Laboratory, TN
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85. 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
86. James M. Policelli, Registered Professional Engineer
87. Herman A. Pope, Retired Aerospace Engineer NASA-JSC
88. Willem Post, Independent Researcher regarding Energy and Environment
89. Kenneth L. Purdy, Management Consultant, Retired Naval Officer in Operational Intelligence
90. Forrest J. Remick, Emeritus Professor of Nuclear Engineering, Emeritus Assoc. VP for Research at the Pennsylvania State University, Retired Commissioner, US Nuclear Regulatory Commission
91. James H. Rust, Emeritus Professor of Nuclear Engineering, Georgia Institute of Technology
92. Charles L. Sanders, Retired Radiobiologist, Author of Radiobiology and Radiation Hormesis: New Evidence and Its Implications for Medicine and Society (Springer)
93. Rick Sanders M.A., Scientists for Accuracy in Radiation Information (SARI), Associate Editor, 21st Century Science and Technology Magazine
94. 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)
95. Dr. Thomas P. Sheahen, Chairman, Science & Environmental Policy Project
96. John Shewchuk, Meteorologist (CCM) and Atmospheric Researcher
97. Robert P. Smith PhD, P.E., Environmental Scientist and Professional Engineer
98. Willie Soon, Independent Scientist
99. Walter Starck PhD, Marine Science, Pioneer in Coral Reef Studies, Policy Advisor to The Heartland Institute
100. Jim Steele, Emeritus Director Sierra Nevada Field Campus, San Francisco State University
101. Ronald Stein, Professional Engineer
102. Gerald M. Sulzer, MS Chemical Engineer, Retired Director of Technology, Albemarle Corporation
103. Tomer D. Tamarkin, Physicist, Founder and President/CEO of Energycite Inc., President and Chairman of ClimateCite Inc.
104. Paul Taylor, Energy Economist, Recipient Rossitor Raymond Award, Golden Colorado
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114. Gregory R. Wrightstone, Expert Reviewer IPCC, Geologist, Author, Member CO2 Coalition
115. Bob Zybach, Program Manager, Oregon Websites and Watersheds Project Inc.

## Colofon



*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)*



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