THERE IS NO CLIMATE Declaration THERE IS NO CLIMATE SERVICE SE

1931 SIGNATORIES



GLOBAL CLIMATE INTELLIGENCE GROUP

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World Climate Declaration

THERE IS NO CLIMATE EMERGENCY



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There is no climate emergency

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

Natural as well as anthropogenic factors cause warming

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

Warming is far slower than predicted

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

Climate policy relies on inadequate models

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

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

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

Global warming has not increased natural disasters

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

Climate policy must respect scientific and economic realities

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

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

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



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 Biophysicist and Oncologist. Inventor. Author of numerous books and

research papers, Director of Research at Aurora Biophysics Research

Institute

Hortense Côté
 Ingénieur Géologue, Goldminds

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

of Victoria

Norman Curry Technical College, Design Engineering-Mechanical Engineering,

President of National Zephyr Research

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

journalist.

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

Astrophysics, awards for research on cosmology and fundamental

physics.

Ronald Davison Professional Chemical Engineer

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

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

• Eric Ducharme MSc, Géologie, Abitibi

Michel Dumais
 Ingénieur Civil Retraité, Université d'Ottawa

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

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

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Ashton Embry Research Geologist, Embry Holdings

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

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• David Fermor Anaesthesiologist, B.A., M.D., FRCPC

André Forgues
 Meteorologist/Aerologist

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

Ambassador

• Joseph Fournier PhD, Expert in Physical Chemistry

Anita Frayne farmer and firm adherent of science realism-based decision making.

Paul M. Gagnon
 Professional Engineer

George Gale
 PhD Geology, Mineral Deposit Geoscience

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

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

Iu1i317E

• J. Claude Gobeil BSc, Geology

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

PhD in Environmental Science and Decision System, Regional Planner • Jean-Francois Guay and Associate Professor • Dr. Paul Hamblin Retired Research Scientist Environment Canada, Advisor to the Georgian Bay Association • John Hastie MSc Soil Physics, Reclamation and Soil Scientist · Mark T. Hohm Professional Engineer registered with the Association of Professional Engineers and Geoscientists of Alberta (APEGA) · R.G. Holtby profesional agrologist · Patrick Hunt former member of the Royal Canadian Navy, former member of the Legislative Assembly of Nova Scotia, retired entrepreneur in the hightech field (35 Years) · Rick Ironside Director Fortress ESG, provides specialized expertise to help clients map out their journey to attempt to achieve the goal of net zero by • Eric Jelinski M. Eng. P. Eng., Alumni and Contract Lecturer, University of Toronto, Department of Chemical Engineering and Applied Chemistry, CHE568 Lecturer, Nuclear Plant Engineering · Paul A. Johnston Associate Professor, Paleontology, Paleoecology, Department of Earth and Environmental Sciences, Mount Royal University, Calgary, Alberta • Richard T. Jones experimental physicist, researched in the field of fission energy · E. Craig Jowett Geologist and Environmental Researcher PhD University of Toronto • Andre Julien MSc Mechanical Engineering, Thermodynamics Expert, over 40 patents published • Klaus L.E. Kaiser Retired Research Scientist, National Water Research Institute, Author of Numerous Press Articles Bogdan Kasprzak Professional Geoscientist, life time experience in data modelling, data analysing and data interpretation • Madhav Khandekar Expert Reviewer IPCC 2007 AR4 Report · David Koop BSc, Analytical Chemist Professor of Economics and Canada Research Chair in Environmental · Kees van Kooten Studies and Climate, University of Victoria · Emil Koteles PhD in Solid State Physics, Max Planck Institute in Stuttgart, National Research Council of Canada, visiting professor at Zhejiang University in Hangzhou, retired • Jean Laberge Professeur Retraité de Philosophie, CEGEP du Vieux Montréal · Sherri Lange CEO North American Platform Against Wind Power, Great Lakes Wind Truth · M.J. Lavigne MSc, Professional Geologist · Douglas Leahey PhD, Meteorology, past President of Friends of Science PhD in Astrophysics, Full Professor in the Department of Physics and · Professor Denis Leahy Astronomy, University of Calgary • Dr. Catherine Lebrun PhD, Management, HEC Montreal · Robert Ledoux PhD, Professeur Retraité en Géologie, Université Laval · Dick Leppky Retired businessman and Independent Truth Seeker · Richard Lewanski BsC (Hons) in Geophysics from the university of Manitoba, Exploration Geophysicist, Founder and CEO of several exploration and production companies in the oil industry • H. Douglas Lightfoot Research Engineer in the Chemical Industry, Co-Founder of the Lightfoot Institute, papers on Alternative Energy and Atmospheric • Gerald Machnee Retired Meteorologist, Environment Canada Independent Climate Researcher Paul MacRae • Allan M.R. MacRae Retired Engineer • Joanne Marcotte Bachelor's Degree in Computer Engineering and Author of "Inconvenient Doubts - Climate Change Apocalypse: Really?" · Michael Martinz Radio Podcast Host, Climate Realist, Activist, former Industrial **Consulting Forester** • J. David Mason Applied Geologist, BASc, Applied Geology, MEng., Mining

Retired Canadian Insurance Broker

Stuart McDonald

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

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

financial penalties for GHG emissions

Norman Miller Former P.Eng, now Retired

Ron Mills
 Geologist/geochemist Emeritus NS Geological Survey

Randall S. Morley veterinary epidemiologist, retired

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

Professor Department of Geoscience, University of Calgary

• Roland Moutal Teacher Physics and Chemistry at Vancouver Community College

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

Output

Department of Mining and Materials

Engineering at McGill University Montreal, research focus on energy,

heat transfer, fluid mechanics and modeling

Eiichiro Ochiai Emeritus Professor, Juniata College (USA)

Christian Olivier former Postdoc @ UC Berkeley

Robert Orr Historical Linguist
 Scott Patterson Professional Geologist

Andy Pattullo Associate Professor of Medicine at the University of Calgary

Steven Pearce PhD, Lecturer

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

University of Toronto, currently CTO at BlueCat Networks

Gregory Phillips
 Retired Agrifood Industry Professional, with research background in

biology, economics and policy formulation.

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

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

to surface of ocean, wave mechanics

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

Engineers and Geoscientists of Alberta

Gerald Ratzer Professor Emeritus, Computer Science McGill University, Montreal
 Dr. Michael Raw PhD in Mechanical Engineering, specialization in computer modelling

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

management

• John Angus Raw aerospace engineer, specialised in aerodynamics, life time career in

the international aerospace industry

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

the forestry industry

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

Columbia

• Gérald Riverin PhD, Géologie, Géologue Retraité

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

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

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

Science

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A.P. environmental science teacher

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 Business and Manufacturing Engineering Consultant, Educator, and

Author

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

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

Writer/Researcher with focus on 'consensus' social proofs, Top 10% downloaded author on SSRN, Communications Manager, Friends of

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Mary Taitt
 PhD Zoology, MSc Ecology, retired

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

Inc.

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

energy advisory consultant

• V Ismet Ugursal Professor of Mechanical Engineering, Dalhousie University

Marc Vallée
 PhD, Geophysicien

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

Duncan Veasey psychiatrist with a particular interest in mass hysteria,

authoritarianism and social compliance

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

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of the Royal Society of Canada

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

PhD Chemistry, lifetime career in the environment department of a

research consortium

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

and Molecular Biology, Retired

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

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

intellectual property protection

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

Human Economy"

William van Wijngaarden Professor of Physics, York University
 Kenneth W. Wilson Professional Engineer (retired)

Daryl Youck
 MSc, PEng, Oil Sands Pioneer

AL ZEEPER Physicist, Mathematically discovered the Unification of Gravity with

Electricity and Magnetism



4 SIGNATORIES FROM CHILE

1 WCD Ambassador

• Dr. Ronald Voss

Douglas Pollock
 Civil Industrial Engineer, University of Chile

3 Signatories

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

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

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4 SIGNATORIES FROM CHINA

4 Signatories

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

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

Output

Description of The Principle of The Principle

Periodic Changes in Earth's Climate"

Wyss Yim Retired Professor, Dpt of Earth Sciences, University of Hong Kong,

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

NG Young
 Principal Geoscientist, Danxiashan Global Geopark of China



2 SIGNATORIES FROM COLOMBIA

2 Signatories

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

Meteorology, Simulation and Modeling; Piloto de Colombia University

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



1 SIGNATORY FROM COSTA RICA

1 Signatory

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

Costa Rica



2 SIGNATORIES FROM CROATIA

1 WCD Ambassador

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

Meteorological and Hydrological Service

1 Signatory

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

Meteorological and Hydrological Service



1 SIGNATORY FROM CYPRUS

1 Signatory

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



14 SIGNATORIES FROM CZECH REPUBLIC

14 Signatories

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

Research Institute

Shark/

Marek Eiderna Agricultural Engineer and graduated in General Biology

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

proponent of correct, i.e. Bayesian inference

• Vaclav Hubiner Retired Ambassador, Anthropologist, Climate Policy Commentator for

www.forum24.cz

Pavel Kalenda
 PhD, CSc., Coal Expert

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

Founder of the Václav Klaus Institute

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

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

author of the 2009 NIPCC report

Dr. Milan Salek
 PhD, Freelance Meteorologist and Consultant

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

Hemato-Oncology, Prague

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

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

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

Technology Advisory llc

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

10 years as a geochemist



15 SIGNATORIES FROM DENMARK

1 WCD Ambassador

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

General for the Danish National Research Agency and National

Research Councils

14 Signatories

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

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

laboratory

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

• Dr. Hans Götzsche Emeritus Associate Professor, Linguistics and Philosophy of Science,

President Nordic Associaton of Linguists (NAL), Director, Center for

Linguistics, Aalborg University

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

Copenhagen

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

University of Copenhagen

Sören Kjärsgaard Professional Chemical Engineer

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

Resource Management, University of Copenhagen

Knud Larsen PhD, Natural Sciences

Peter Locht Senior Lecturer, Business Academy Aarhus (statistics)

Peter Kjær Poulsen
 Metering Engineer

Steen Rasmussen Bsc in Electrical Engineering from Denmark Technical University,

lifetime career at IBM Denmark Aps

Environment, Roskilde University

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



1 SIGNATORY FROM ECUADOR

1 Signatory

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

Industry



1 SIGNATORY FROM ESTONIA

1 Signatory

Jacobi



7 SIGNATORIES FROM FINLAND

7 Signatories

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

researcher, specialist in Structural Health Monitoring, sustainable

development

Christer Kald Engineer with academic studies in Physics, Chemistry and

Mathematics

Simo Mykkanen
 Ba Econ, small business owner, retired

Ari Okkonen
 MSc EE, Finland, Climate data analysis enthusiast

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

modeling

• Simo Ruoho President Ilmastofoorumi ry Finland, Signature of association https://

ilmastofoorumi.fi including its scientists and professional members

Boris Winterhalter Retired Marine Geology, Geological Survey of Finland

111 SIGNATORIES FROM FRANCE



1 WCD Ambassador

Benoît Rittaud
 Assistant professor of Mathematics at University of Paris-Nord,

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President of the French Association des climato-réalistes

110 Signatories

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

in Radiochemistry, Expert at NATO and IAEA

• Pascal Acot Centre National de la Recherche Scientific, Paris

Yacine Amara
 PhD of Applied Physics, Professor of Electrical Engineering

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

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

President of several Associations

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

Founder and President of 'Climate et Vérité'

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

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

management, CEO of Ubyrisk Consultants (firm specialized on natural

hazard mitigation)

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

Mathématique SA (Paris)

• Serge Bellotto PhD, Geology

Guy Bensimon Retired Associate Professor of Economics at Institute of Political

Studies of Grenoble (SciencesPo Grenoble)

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

Institute of Chemistry of the CNRS

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

Energy Commission (CEA)

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

Researcher at the MMSH (Aix-en-Provence)

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

Environmental Issues, Sewage Treatment)

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

of the Fédération Environnement Durable and the European Platform

Against Windfarms

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

Data Analysis in the Aerospace industry

Bernard Capai Retired Chemistry Engineer, Specialist of Industrial Processes avoiding

the use of Carcinogenic Solvents

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

Physics and Astroparticle Physics

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

Philippe Catier
 Medical Doctor

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

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

Conservatory (2008-2013)

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

Evaluation Agency (AERES)

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

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

Storage

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

Hydrology and Climatology and Specialist in Fluid Mechanics, Member

of the Board of ORSTOM for twenty years

Christian Coppe
 PhD, Organic & Analytical Chemistry

Philippe Costa
 Energy Engineer at ENSEM Nancy, specialist in Industrial Process and

Energy Saving

France continued

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

Researcher at the CNRS, 16 patents

• René Laversanne

France continued

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

France continued

• Zakaria Tarif Scientific engineer specialized in electrical energy and

telecommunications

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

in Paris, University Professor of Mathematics emeritus at Carnegie

Mellon University, Pittsburgh, PA

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

Michel Thizon
 Chemical engineer, ACR (Association des Climato-Réalistes, France)
 member, former researcher at the Ecole Polytechnique, consultant,

retired

David Uzal
 PhD philosophy of technics and PhD of practical philosophy

• Etienne Vernaz Former Director of Research of CEA (Commissariat à l'Énergie

Atomique) in France, Professor at INSTN (Institut National des Sciences et Techniques Nucléaires)

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

and Broadband Networks

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

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

Bretagne Occidentale), Stratigraphy and Paleoenvironments,

Quaternary and Holocene

• Théa Vogt Retired CNRS Searcher, Géomorphology, Quaternary

Palaeoenvironments, Soil and Desertification Remote Sensing

Henry Voron Retired Civil Chief Engineer, specialized in Water Management



1 WCD Ambassador

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

Chemie der Universität Hamburg

116 Signatories

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

Prof. Dr. Peter Altmiks
 Professor of Economics, FOM Hochschule f
ür Oekonomie und

Management Hannover

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

cancer drug developer, inventor, molecular biologist, and a member of

the CO2 Coalition

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

Dietrich Bannert Professor Honoris Causa, University of Marburg

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

investor

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

Michael Bockisch Emeritus Professor Chemistry at the Technical University of Berlin

• Klaus-Dieter Böhme Dipl. Physicist, professional experience in X-ray spectroscopy

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

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

• Eike-Mattias Bultmann Geoscientis

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

• Dr. Arthur Chudy Agricultural Chemist, OT Warsaw

Günter Dedié Dipl. Physiker

• Prof. Dr. Hans Demanowski Engineer, Professor of Packaging Technology, BHT, Berlin, expert in

Counterfeit Protection, holder of several Patents in this field

• Dr. Joachim Dengler Physicist retired, PhD, patent holder in fingerprint analysis, work on

relation between CO2 emissions and concentration

Dr. Ing. Rolf Diederichs
 Studie Eisenhüttenkunde in Clausthal-Zellerfeld, climate realist

• Prof. Dr. Klaus D. Döhler Professor of Pharma Sciences, University of Hannover

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

• Joerg Dornemann Msc in Geology, lifetime career in the Geo-Energy Industry

• Jörg Eichner Specialist in situational awareness in crises and risk management

Friedrich-Karl Ewert Emeritus Professor Geology, University of Paderborn

Ludwig E. Feinendegen
 Emeritus Professor Medicine

Germany continued

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Germany continued

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 PhD, lifetime career in Petroleum Geology (Exploration, Petrophysics)

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Theory, Quantum Statistics

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 Emeritus Professor of Macromolecular Chemistry, Universität Siegen

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Holger Neulen retired mechanical engineer

• Prof. Dr.rer.nat Dr.med Peter Nielsen retired Biochemist and Physician from the Universital Hospital

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Hans Joerg Schmidt Chemical Engineer and Autor of certain books, explaining atmospheric

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• Stefan Schmidt Scientist in the field of Energy

• Dr. Martin Schmidt PhD Physics, industrial career of research, development and

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Christoph Schmidt
 MSc Mathematics, JWG-University Frankfurt

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• Dr. rer. nat. Michael Schnell Retired Chemist

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• Dipl. Psych. Ulrike Schwan Professional psychotherapist, psychotherapist look at the IPCC

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18 SIGNATORIES FROM GREECE

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2 Signatories

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Christopher Lingle
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8 Signatories

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 Istvån Héjjas PhD, Retired R&D Electrical Engineering

Tom Kauko PhD Geography, Independent Researcher based in Budapest

• József Király Chemical Engineer and one of the Authors of the Hungarian site www.

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1 SIGNATORY FROM ICELAND

1 Signatory

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5 SIGNATORIES FROM INDIA

5 Signatories

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Professor working on geothermal energy systems

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

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2 SIGNATORIES FROM INDONESIA

2 Signatories

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AR6

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7 Signatories

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204 Signatories

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• Vito Comencini Onorevole, Membro della Camera dei Deputati italiana dal 2018

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• Thomas Kukovec Tropical Agronomist and Subtropical Field Biologist, Scientific adviser

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

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

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

Nunzia Radatti Chimico, Sogin

Arnaldo Radovix
 Geologo, Risk Manager in Derivati Finanziari

Maurizio Rainisio
 Mathematician, Lifetime career in Clinical Development and

Epidemiology

Mario Luigi Rainone
 Mario Rampichini
 Professore di Geologia Applicata, Università di Chieti-Pescara
 Chimico, Dirigente Industriale in pensione, Consulente

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

Consiglio Nazionale delle Ricerche, Firenze

Enzo Reali
 MSc, Agricultural and Rural Development Expert

Tucci Riccardo agroecology and rigenerative expert

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

Renzo Riva
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Rinnovabili

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 Massimo Sepielli Direttore di Ricerca, ENEA, Roma

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

Tecnologiche e Ambientali, già Direttore Servizio Geologico d'Italia

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

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

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• Luigi Stedile Geologo, Centro di Ricerca Previsione, Prevenzione e Controllo Rischi

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2001

• Francesco Torre Former Associate Professor of Geomorphology at the University of

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

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Roberto Vacca
 Ingegnere e Scrittore Scientifico

• Gianluca Valensise Dirigente di Ricerca, Istituto Nazionale di Geofisica e Vulcanologia,

Roma

Prof. Paolo Sebastiano Valvo
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University of Pisa

Corrado Venturini Professore di Geologia Strutturale, Università di Bologna

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

Urbino

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

Professore Straordinario presso Università Telematica Pegaso, Napoli

Mario Voltaggio
 MSc in Geology, former first researcher CNR IGAG, retired
 Andrea Zaccone
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6 SIGNATORIES FROM JAPAN

6 Signatories

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• Yoshihiro Muronaka

· Mototaka Nakamura

• Dr. Hiroshi L. Tanaka

· Junji Yamamoto

Ph. D. Chemical Engineering, Associate Professor at Osaka University

Professor of Earth Science, Kobe University, Japan

Professional Engineer, studied Chemical Engineering, has been working in the areas of Environment, Energy, CVD and EHS Atmospheric and Oceanic Scientist (ScD in Meteorology, MIT)

Professor in Atmospheric Science, Centre for Computational Sciences,

University of Tsukuba

PhD, Professor of Earth and Planetary Sciences, Kyushu University



1 SIGNATORY FROM KUWAIT

1 Signatory

• Mohammad A. AlKhamis

DVM, MPVM, PhD, Assistant Professor of Epidemiology, Department of Epidemiology and Biostatistics, Faculty of Public Health, Health Sciences Center, Kuwait University



1 SIGNATORY FROM MALAYSIA

1 Signatory



1 SIGNATORY FROM MALTA

1 Signatory

Joseph Attard
 Retired Scientist, PhD chemical engineering MSc Electronics

Communication



5 SIGNATORIES FROM MEXICO

5 Signatories

Rubén Coronal Méndez
 Master degree in Applied Economics, Industrial Engineer

Luis Frausto Chemical Engineer

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

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

• Victor Manuel Velasco Herrera PhD, Space Engineer



1 SIGNATORY FROM NAMIBIA

1 Signatory

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



158 SIGNATORIES FROM NETHERLANDS

2 WCD Ambassadors

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

Member of the Royal Netherlands Academy of Arts and Sciences

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

156 Signatories

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

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

Maarten van Andel
 Author of the 'Groene Illusie'

• Tjeerd Andringa MSc in Physics, PhD in Signal Processing, former Associate Professor

of Sensory Cognition, Epistemologist

• Jan Asselbergs Mechanical Engineer who started his career with IHC. Since 1990 he is

active in revitalizing medium sized companies

Dries Ausems
 MSc, Earth Sciences, Lifetime Experience as Geologist in the Geo-

Energy Industry

René Bakers
 Former Lawyer and Attorney Liability and Insurance

• Dr. Thomas W. Bakker Lifetime Experience in the Geo-energy Industry, Founder and former

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• Nanda Josina Sofia Bakker -Ait Arrami MSc, MBA

• Robert Becht Lifetime R&D Experience in Water Management with emphasis on

water management in East Africa

• Frans van den Beemt Nuclear Physicist, Former Program Director Technology Foundation

STW

• Jan Bernard Geologist dredging- and offshore industry and Royal Netherlands Navy

Reserve (hydrography)

Netherlands continued

• Drs. A (Toine) J. A. Beukering

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

• Jim van Beusekom Retired Captain B747-400 with KLM, 35 years observational

knowledge of the Earth's atmosphere

• Maarten Biesheuvel MSc and PhD Chemical Technology, University of Twente, Senior

Scientist Chemical Engineering and Water Technology, Wetsus Retired Officer Royal Dutch Air Force, now Climate Researcher

André Bijkerk
 Retired Officer Royal Dutch Air Force, now Climate Researche

• Dr. Frans Bijlaard Professor-Emeritus steel constructions, TU Delft

• Dr. Ruud Binnekamp Msc Integral Design and Management, teacher and researcher in

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party LPF

Hans Bouman
 MSc, Chemistry, Professional in Production Technology and Asset

Management

Dr. Ir. Arnold Bovy retired, former Director Energy Transmission Company

MEGALIMBURG

Ben Braam
 Msc in Physics, lifetime career in space instrumentation

Paul M.C. Braat Emeritus Professor of Pulmonary Physics, University of Amsterdam
 Solke Bruin Emeritus Professor of Product-driven Process Technology, University of Eindhoven and Former Member Management Committee Unilever

Research, Vlaardingen

• Dr. T.H.L. Claassen Aquatic Ecologist

• Prof.Dr. Paul Cliteur Professor of Legal Sciences, Member of the Senate of The Netherlands

• Albert J.H.G. Cloosterman Retired Chemical Engineer, Publicist on Climate and Cosmological

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Charles Coleman former executive Olivetti Group International
 Marcel Crok Climate Researcher and Science Journalist

• Gerhard Diephuis MSc, Geosciences, specialized in Geophysics, Lifetime Experience in

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 Sculptor, designer and innovator

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University of Twente and (Visiting Professor) Tsinghua University

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Arjan Duiker Process Technologist at Tata Steel, specialist on Thermodynamics and

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• Louw Feenstra Emeritus Professor Erasmus University and Philosopher, Rotterdam

• Arnold Fellendans Physics at TU Delft, 40 years at Unilever (retired), www.omdeaarde.nl

• Frans Galjee Mechanical Engineer, Retired Researcher at ECN

Harold van Garderen
 PhD in complexity science/chemistry (TU Eindhoven) and social

complexity/narrative scientist (self-employed)

• Jan van Gils Teacher in Physics

• Ir. Henk Goemans MSc, Geosciences, specialized in Reservoir Engineering

Frans H Gortemaker
 Drs. W.J. Evert van de Graaff
 Former Vice President Unilever Global R&D
 Consulting Geologist, 50+ years Global Experience

• Ton J.T. Grimberg Oil & Gas Professional, Finance Adviser

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 Msc Agroecology and Sustainable Food Systems, Project Leader energy

transition at the municipality of Epe

• Ir. Kees de Groot Former Director Upstream Research Lab. Shell

Netherlands continued

· Paul de Groot PhD, Geoscience, Manager dGB Earth Sciences • Lex A. van Gunsteren Marine propulsion expert, former director of Corporate Planning and R&D of the Royal Boskalis Westminster Group, former professor of Technology at TU Delft and Erasmus University Former Director Billiton Research Arnhem and Former Director · Leo Halvers **Technology Foundation STW** · Hans Hamaker University Degree in Phonetic Sciences, expert in biomechanics of speech, supporter of plasma cosmology, former wireless communication officer · Maarten Hardon BSc, Civil Engineering, Lifetime Experience in Offshore Industry, Director Venty BV · Eduard Harinck Former Logistics Expert, Nedlloyd Group/KPMG Consulting MSc, Geoscciences, specialized in Geology, past Technical Director of • Drs. Godard Hazeu the Dutch State Oil and Gas Company EBN • Edward Heerema Msc in Civil Engineering TU Delft, President of Allseas, worldwide active in offshore pipelaying and platform lifting • I.R. Hetzler† Retired WUR Engineer Forestry Economics • Dr. Tom van der Hoeven **Energy Transport Modeling Expert** · Jan Holtrop† Emeritus Professor of Petroleum Engineering, Delft University of Technology • J.A.R. Hombroek MSc, Geoscience, Lifetime Experience in the International Geo-Energy Industry • Tom Hoornstra Air-Conditioning Engineer • Jan Horstink Earth Scientist, Exploration Projects Oil & Gas ME & FE Physicist and Former CTO Royal Philips Electronics • A. Huijser • Jan de Jager emeritus professor Geology (VU University Amsterdam, University of Utrecht) • Jan J.C. de Jong Msc Process Engineering TU Delft, expert in energy-and thermal process engineering, lifetime career in the oil and gas industry former director Sampo Industrial Insurance NV. Benelux and · Jan de Jong Electrorisk Verzekeringsmaatschappij N.V. · Wouter J. Keller Emeritus Professor of Statistical Methods, Former Member Board of Directors, Central Bureau of Statistics (CBS) Economist and Marketeer, Former CFO Rabobank, now Climate and · Jacques van Kerchove **Environment Researcher** · Henri G. Kerkdijk-Otten Msc History, University of Nijmegen, Founder and Chairman of Restoring Africa's Wildlife Foundation, Founder and former chairman of True Nature Foundation · Rob de Kok Principal Geophysicist, researching Influence of CO2 on Atmospheric **Temperatures** · Hans Kolmschate Chemical Engineer, University of Twente • Henk de Koning MSc, former Principal Management Consultant Atos Consulting with specialisation Logistics, IT and Information Security · Rob Kouffeld† Emeritus Professor of Energy Conversion, Delft University of Technology · Hans H.J. Labohm Former Expert Reviewer IPCC • Prof. dr. Cornelis A. de Lange Emeritus Professor of Atmospheric Chemistry and Physics, and Complex Modelling, Former Senator in the Dutch Senate · Arjan Lenoir **MSc Industrial Sciences** • Dr. ir. B.G. Linsen Former Director Unilever Research Vlaardingen • Jaap M. van Luijk Msc. Petroleum Engineering, lifetime experience in the international geo-energy industry • PROF. DR. Pieter Lukkes Emeritus Professor of Economic and Human Geography, University of Groningen · Ronald Luttikhuizen Studied Physical Geography, retired economist and statistician · Hugo Matthijssen Former Teacher Meteorology, now Publicist on Climate Matters · Leo D. Minnigh retired scientist in structural geology, lecturer/speaker for nonprofessionals • Dr. Rob Mooij PhD in Nuclear Physics at University of Utrecht, MS Computer Science at Drexel University, Philadelphia, Retired as Medical Physicist from University of Pennsylvania

Netherlands continued

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Netherlands continued

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• prof. dr. ir. Jan Dirk van Elsas PhD, Em. Prof .Microbial Ecology, RUG

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 MD, specialized in prion theories and practice

• J.F. van de Vate Former Director ECN, Petten, The Netherlands. Former UN Delegate

IPCC

• prof. dr. ir. Jan Verheij Retired Scientist Applied Physics at TNO Delft, Emeritus Professor of

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 MSc, Geosciences, specialized in Mining

Henk Verveer
 Msc Civil Engineering TU Delft, lifetime experience in maritime

infrastructure and building services

• Jannes. J. Verwer Former Director ECN and Former Chairman Supervisory Board State

Owned Radio Active Waste Storage Facilities

Koen Vogel
 Geologist and Geostatistician, lifetime experience in numerical

modelling, proficient in evaluating and developing global energy

projects

Henk van der Vorst Emeritus Professor of Numerical Mathematics, University of Utrecht

Bart Vos
 Msc Petroleum Engineering, Lifetime of Experience in the Geo-energy

Industry

Rob de Vos
 Geographer and Editor of "Klimaatgek"

Henk de Vries lifetime experience in organised crime, expert in digital forensics

• Jaap van der Vuurst de Vries Emeritus Professor of Petroleum Engineering, Former Dean Faculty of

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• Dr. Jules de Waart PhD Physical Geography, Exploration Geologist in Africa, Past member

of the Dutch Parliament, author of the book on Climate Change and

Energy Transition "Don't believe everything"

Dr. André Wakker energy expert, lifetime experience in nuclear energy, speaker and

writer on energy transition

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Cyril Wentzel Multi-Physics Engineer and Chairman of Environmental Think Tank

'Groene Rekenkamer'

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Consultancy and Finance

Bert Weteringe Author, independent research journalist on energy transition and

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Dolf van Wijk
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Executive Director Cefic-Euro Chlor, Brussels

Jaap Wijsman
 Mechanical Engineer, active in the offshore industry

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Lifetime Experience in the Geo-Energy Industry

• Theo te Winkel Geo Scientist and International Health Care Specialist

Wim Witteman Professor of Applied Physics and CO2 lasers, University of Twente
 Dr. Hans Wolkers PhD in Animal Physiology and Environment, Over 20 years of

research experience, incl. Arctic ecotoxicology, Science journalist and

university lecturer in 'Writing about Science'

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

'Groene Rekenkamer' and 'Climategate.nl'

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

Engineering activities

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

Diederik Zwager
 MSc Petroleum Engineering, CEO Air Drilling Associates



26 SIGNATORIES FROM NEW ZEALAND

1 WCD Ambassador

· Barry Edward Brill

OBE, Previously Minister of Science and Techology

New Zealand continued

25 Signatories

Deborah Alexander
 Agricultural Scientist

Jock Allison Retired Agricultural Scientist, Ministry of Agriculture

Mario Barbafiera
 MSc Palaeoclimatology, Teacher

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

Surveyors, Retired Ex Commissioner of the New Zealand Environment

Court

Roger High Dewhurst
 Retired, Geologist/Hydrogeologist

Geoffrey. G. Duffy
 Professor Emeritus, University of Auckland

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

Climate Science Coalition; Former WCD Ambassador

Doug Edmeades Managing Director agKnowledge Ltd.

• Joe Fone CAD Engineer, Enatel Ltd.

Professor Michael J Kelly
 MA, PhD, SCD, MAE, Emeritus Prince Philip Professor of Technology at

the University of Cambridge

Gary Kerkin
 Retired Chemical Engineer, Upper Hutt. Executive Member New

Zealand Climate Science Coalition

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

wallrock interactions, mineralogy, melt inclusions, SW Pacific tectonics

and geodynamics.

Brian Leyland
 Power Systems Engineer and Experienced Renewable Energy

Specialist

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

The Fable of Stable Climate

Nima Maleki
 MD specialist in family health, Bachelor in science

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

1989-1996

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

University of Canterbury New Zealand

Darag S. Rennie
 MBChB, Lifetime explorer of truth

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

Science Coalition

• John Sexton Member of the New Zealand Climate Coalition

David Shelley
 Emeritus Associate Professor Geology and latterly Dean of

Postgraduate Studies, University of Canterbury, Christchurch Electronic Engineer, Supporter of truth seeking in climate change

Philip Strong
 Science Research Leader & Member of the New Zealand Climate

Science Research Leader & Member of the New 2

Coalition

• Richard Treadgold Executive Member NZ Climate Scienc Coalition, Convenor Climate

Conversation Group

• Ian Wright Professional Geologist



32 SIGNATORIES FROM NORWAY

2 WCD Ambassadors

· David Steward

• Ivar Giaever Nobel Laureate Professor, Nobel Prize Winner in Physics, Emeritus

Professor of the Rensselaer Polytechnic Institute, Chief Technology Officer of Applied Biophysics Inc., Fellow of the American Physical

Society

• Jan-Erik Solheim Professor Emeritus Astrophysics, University of Tromsø – The Arctic

University of Norway

30 Signatories

Gunnar Abrahamsen Professor Emeritus Soil Science, University of Life Sciences

Knut Åm
 Retired Geoscientist, adjunct Professor of Geophysics at the Uni-

versity of Bergen, Norway, Honorary member of The Norwegian

Academy of Technological Sciences

Egil Bergsager
 MSc of UCLA and University of Oslo, Petroleum Geologist, Direc-tor

Norwegian Petroleum Directorate, President Rogaland Science Park.

Board member of advanced technology companies

Norway continued

Stein Sorlie Bergsmark
 Phycisist, Former Head of Renewable Energy Studies Program-mes,

University of Agder

Einar R. Bordewich multidiscipline Engineering

Dr. Hans Borge

 Associate Professor in Mathematics, University of Stavanger

 Reidar Borgstrøm

 Professor Emeritus in Fishbiology and Nature Conservation,

University of Life Sciences

Dr. Erik Bye Retired Senior Scientist in Physical Chemistry, Crystallography,

Chemometrics and Occupational Hygiene

Ole Henrik Ellestad Physical Chemist. Former Research Director and Professor in

Petrochemistry at the Centre for Industrial Research and University of

Oslo

Jon Gulbrandsen
 PhD, Biologist, Associate Professor NOFIMA and NOAA (USA)
 Arve Gleissner Gustavsen
 Msc in Cybernetics, Lifelong Experience in Design and Engineering

Rögnvaldur Hannesson
 Professor Emeritus, Norwegian School of Economics

Geir Hasnes Adjunct Associate Professor, Department of Engineering Cyber-netics,

Norwegian University of Science and Technology

Martin Torvald Hovland Geophysical and Geological Advisor, Former Lecturer at Universi-ty of

Tromsø

Ole Humlum
 Professor Emeritus in Physical Geography, University of Oslo

Morten Jødal†
 Biologist, Former Employee of the Norwegian Research Council and

the Centre for the Development and Environment at the University of

Oslo. Passed away

• Dr. Ing. Hans Konrad Johnsen

Olav Martin Kvalheim Emeritus Professor, Chemistry, Bergen University

• Arnfinn Langeland Professor Emeritus Biology, Norwegian University of Science and

Technology

Mikael Lindgren
 MS Applied Physics and electronics, PhD Chemical Physics, Prof Applied

Physics (Optics) and Biophysics (spectroscopy)

Willy Nerdal Professor of Chemistry, University of Bergen

• Johannes Oraug Landscape Architect, Researcher for 11 years at the Norwegian

Institute for Urban and Regional Research

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

Norway

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

of Natural History Museum Oslo, Professor at Norwegian University of

Science and Technology

Ulf Torgny Rock
 Master of Chemical Engineering, Norsk Hydro

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

from the Norwegian Meteorological Institute.

Håkon Gunnar Rueslåtten
 Geological Researcher, Trondhheim

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

Jørgen Stenersen Professor Emeritus Eco-Toxicology, University of Oslo



1 SIGNATORY FROM PARAGUAY

1 Signatory

Albrecht Glatzle Retired Director Research of INTTAS (Iniciativa para la Inverstigación

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2 SIGNATORIES FROM PHILIPPINES

2 Signatories

Melanchthon Bernil Professional Chemical Engineer

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

Languages, University of the Philippines Diliman



4 SIGNATORIES FROM POLAND

4 Signatories

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

Poland continued

• Zbigniew Gidzinski Advisor to the Chairman of the Silesian Region of the Solidarity Union

for climate policy, former Secretary of the National Energy Security

Team of the Chancellery of the President

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

Union NSZZ

Dominik Kolorz
 Chairman of the Slasko-Dabrowski Region of NSZZ



10 SIGNATORIES FROM PORTUGAL

1 WCD Ambassador

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

Portugal, Faculty of Sciences and Technology, Department of

Electronic Engineering and Informatics

9 Signatories

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

Postgraduate in Legal Issues of Urban Planning, University of Lisbon

• José Araújo Environmental Engineer, Airline Pilot.

Rui Cruz
 Pharmaceutical Development Scientist, PhD In Chemical and

Biological Engineering (Material Science Focus for Solar Energy

Applications)

Pieter IJzerman entrepreneur in modern energy solutions and electric mobility

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

discoverer of long-range energy transfer in biological systems

Joao Manuel Silva Martins
 retired agrarian researcher

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

Systems (Electrical and Computers Engineering), Instituto Superior

Técnico, Lisbon

• João José Rodrigues Tilly Mechanical Engineer and Maths teacher



8 SIGNATORIES FROM RUSSIA

8 Signatories

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

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

Climate

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

of Physicochemical and Biological problems of Soil Science of RAS,

Moscow

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

Institute of Steel and Alloys

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

• Vladimir G. Kossobokov Chief Scientist, Professor Expert, Russian Academy of Sciences

• Eugene Nagibin MA in Economics, CIR, Territorial Development and Management

Consultant

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

physics of energy conversion and the related technologies

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

Institute of Applied Physics, Nizhny Novgorod



1 SIGNATORY FROM SAUDI ARABIA

1 Signatory

Christopher M. Fellows

Phd, physical chemist



1 SIGNATORY FROM SERBIA

1 Signatory

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

Belgrade



2 SIGNATORIES FROM SINGAPORE

2 Signatories

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



1 SIGNATORY FROM SLOVAKIA

1 Signatory

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

issue



4 SIGNATORIES FROM SLOVENIA

4 Signatories

Borut Bohanec Emeritus Professor of Biotechnology, active to explain major

missinterpretations of scientific discoveries

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

expert in international relations

• Ján Lakota MD, PhD molecular biology

Rafael Mihalič
 Professor of Electrical Engineering, University of Ljubljana



13 SIGNATORIES FROM SOUTH AFRICA

13 Signatories

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

Porto, Portugal

Rosemary Falcon
 Emeritus Professor Clean Coal Technology Research Group at the

University of Witwatersrand, Director Fossil Fuel Foundation

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

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

many storm water management designs

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

an videos on global warming and alternative energies for the general

public

Rob Jeffrey
 Economic Risk Consultant: Senior Economist and Managing

Consultant, leading expert in energy and electricity

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

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

Energy and Environmental Consultant, Consulting Editor, Freelance

Writer, Editor and Lecturer

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

South Africa

• Don Mingay Retired Professor of Nuclear Physics

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

and Field Mapper at University of Pretoria, Founder of geological

consulting and exploration companies

Grant Son PhD in Natural Science
 Jacques Theron Retired Veterinarian

Geert F de Vries
 Retired physicist / nuclear engineer



2 SIGNATORIES FROM SOUTH KOREA

1 WCD Ambassador

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

University, Seoul, Founder of the Climate Truth Forum

1 Signatory

Zonghie Han
 economist at Daegu University



22 SIGNATORIES FROM SPAIN

1 WCD Ambassador

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

21 Signatories

Bernardo Armero Engineer and Project Leader within Clean Aviation

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

Valladolid University Clinical Hospital

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

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

Barcelona

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

economics and political implications of causes and consequences of

climate change

• Aitor Ercilla climate historian and computer scientist. Researches the importance

of climate change in social processes

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

World Award 2018 In Engineering WFEO, National Prize in Industrial

Engineering 2019

• José-Ramón Ferrandis Analyst, Writer, Communicator

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

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

and Environmental Care

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

Chemistry and applied Thermodynamics, University of Córdoba

Alexander Keith Martin
 PhD Geology and Geophysics, Consultant geologist

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

of Analytical Chemistry, Nutrition and Bromatology

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

of the research group Environmental Technologies of the Dept of

Chemical, Environmental and Materials Engineering

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

Sedimentologist specialized in the study of Carbonate Rocks which the

 $Impact\ of\ CO2\ and\ Paleoclimate$

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

Spain

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

Elche, Spain CEO at ETRES Consultores

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

Valencia

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

Javier Vinós
 PhD, Scientist and independent climate researcher

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



48 SIGNATORIES FROM SWEDEN

1 WCD Ambassador

Ingemar Nordin
 Emeritus Professor Philosophy of Science, Linköping University

47 Signatories

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

battalion of the Swedish Airforce

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

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

Swedish Network Klimatsans

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

Rolf Bergman Emeritus Professor of Physical Chemistry, Uppsala University

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

Incentive AB

Sweden continued

 $\bullet \ \ \ \text{Joakim Blomqvist} \qquad \qquad \text{Sr. Design Manager for design and energy solutions within a larger}$

construction company

Magnus Cederlöf
 Software Specialist, Stockholm

Tore Dalväg
 Msc, Physics, Research Engineer in Hydrodynamics and

Thermodynamics, Senior Advisor in Environmental Standards, Author

of 'CO2 a source of life or a threat'

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

Electro-optics, Chalmers University of Technology, Gothenburg

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

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

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

Jan Hagberg PhD, Statistics, Stockholm

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

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

Engineering

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

Simulation of Large-scale Industrial Systems, Uppsala University,

Luleå Technical University

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

Uppsala University

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

Stockholm

Hans Jelbring Climate Researcher

Göran Johansson specialist in Energy Systems

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

Stockholm

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

University Hospital, Lund

Sten Kaijser Emeritus Professor of Mathematics, Uppsala University

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

University

Lars E. Linder
 Associate Professor of Medicine, Gothenburg

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

Physics Karolinska, Worked and published in Environmental Science

(Harwell UK). Long climate interest.

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

• Toomas Mathiesen MD, Retired

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

Technology, Stockholm

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

Researcher on Climate Change History

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

Marian Radetzki
 Emeritus Professor of Economics, Luleå University of Technology

Mats Rosengren
 Mathematics, Space Flight Trajectory Specialist

• Torsten Sandström Professor Emeritus, Department of Law, University of Lund

• Rabbe Sjöberg PhD, Geology, Member of Paleogeophysics & Geodynamics Institute

Peter Stilbs
 Emeritus Professor of Physical Chemistry, Royal Institute of

Technology (KTH), Stockholm

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

Stockholm

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

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

Power Nanophotonics Technology

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

network Klimatsans

Gösta Walin
 Proffessor Emeritus in Oceanography at Univerity of Gothenburg

• Elsa Widding Consultant, Author on Climate Change, Stockholm

Sweden continued

Lech Wosinski
 Researcher Emeritus, Associate Professor, Royal Institute of

Technology, Stockholm

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

Stockholm, Sweden



22 SIGNATORIES FROM SWITZERLAND

22 Signatories

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

assessment modelling

Thomas Binder Cardiologist and Internist

Majed Chergui Emeritus Professor of Chemistry and Physics

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

Ferruccio Ferroni Dipl.Ing. ETH, Energy Consultant

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

Temperature

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

Group in Switzerland

Christian Jacot Pharmacist

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

geotechnical laboratory analysis

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

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

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

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

Federation of Scientists, Geneva

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

University of Genève

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

• Claude Roessiger Entrepreneur and Author of several Books on Organizational

Management and Public Policy, Organiser and Chairman of the

Portsmouth Conference 2018 on Climate Policies

Beat Dominic Roth
 Owner Filmcompany

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

and climate communication

• Dr. Ralf Lorenz Schmitt PhD in Chemistry, Product Manager

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

 Prof. Dr. Eric P. Verrecchia
 Professor at the University of Lausanne, Chair of Biogeochemistry at the Institute of Earth Surface Dynamics, expert in terrestrial carbon

cycle of the tropical and temperate zones

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

(Principal Scientist)



3 SIGNATORIES FROM TURKEY

3 Signatories

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

more than 200 books in different scientific areas

Ufuk Coscun columnist at Milat Newspaper

Andrew Cullen
 Ph.D Geography



2 SIGNATORIES FROM UKRAINE

2 Signatories

Vsevolod Lozitsky
 DrSci, Astronomical Observatory of Taras Shevchenko National

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

field, and solar-terrestrial connections

• Irina Vasiljeva CSc, Research Fellow at the Main Astronomical Observatory of

National Academy of Science of Ukraine, research interests include

solar physics

164 SIGNATORIES FROM UNITED KINGDOM

1 WCD Ambassador

 Christopher The Viscount Monckton of Brenchley Peer of the Realm and Author of several reviewed papers on Climate

163 Signatories

Tom Agbabi PhD, Professional engineer in the energy industry

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

Barrister, Fellow of the Royal Astronomical Society

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

Nigel Banks
 PhD Geology, Petroleum Geologist

Andrew P. Barker Biological Chemist

John Anthony Barney Retired Scientist and Technologist

Nik Bartley
 Mechanical Engineer

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

Grad. in Science Education

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

energy, industrial gas and chemical industries

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

Meteorological Office

Paul Binns
 Former Research Geoscientist and Climate Researcher

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

Trade

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

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

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

Union for Quaternary Research, Cardiff University

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

consultant

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

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

& Statistics Inner London Education Authority

Gerry Byron
 BSc in Physics, MBA which included modules on statistical anylysis
 Peter Cale
 Solicitor, co founder and fund raiser for wave energy research project

as Director of Staithe Energy Products (1988 1995)

George Carey BSc Hons. Physics and Geology, Lifetime Physics teacher and amateur

astronomer

• Brian R. Catt Electrical Engineer, Retired, publishing papers on Energy and Climate

Change

Richard Ceen
 BSc Physical Oceanography with Physics, entrepreneur / engineer

in Marine LNG Safety and Weather forecast dependent Optimising

Voyage Control Systems

• Arthur Champion retired European Environmental Coordinator and CofE Diocesan

Environmental Adviser

John Church
 Earth Science Professional, Retired from Energy Sector

David Coe MA(Oxon) in Physics, lifetime working on gaseous absorption

spectroscopy, Lead author of "The Impact of CO2, H2O and Other

Greenhouse Gases on Equilibrium Earth Temperatures"

Professor John C.W. Cope
 Professor of Geology, National Museum Wales, Cardiff

• Dr. Douglas Cormack BSc in Chemistry, Maths, Physics and Microbiologyy, PhD in Physical

Chemistry, Chief at Scientific Civil Service, Founder of the website "The

campaign against belief consensus"

• Richard Courtney Retired Material Scientist, Expert Peer Reviewer of the IPCC

Chas Cowie
 GDE Mining Engineering, Wits University, Retired IT Professional

worked primarily in Mining and Logistics Industries

• Dr. David Critchley Senior Clinical Pharmacologist, mathematical modelling of complex

systems

Michael Cross
 Chemical Engineer

Peter Cunningham Expert in Mathematical Modelling of Complex Physical Phenoma

· Robert Davies BSc Airline pilot • Isabel Davies Geophysicist and Entrepreneur • Dr Philip George Davies Principal Lecturer in the Department of Computing and Informatics at **Bournemouth University** · Jeremy Dawson retired Chartered Engineer with a career in the oil and gas industries • Dr. Keith P. Dawson Environmental and Agricultural Researcher Emeritus Professor of Geology at the University College Oxford, · John Dewey Distinguished Emeritus Professor University of California, · Howard Dewhirst FGS, Geologist, Initiator Open Letter to the Geological Society of · James Dillon BSc Physics, DPhil Nuclear Physics, Former research physicist • Gregor Dixon FGS, Geologist, Former Member Geological Society of London · Peter Dorey BSc Physics, Senior Project Manager, (and unpaid educator & Climate Scientist) • Timothy (Tim) C. Duckworth Retired Mechanical Engineer in the Oil & Gas industry, Senior Auditor in Management/Facility/HSE • Dr. Michael Earle international earth scientist, energy professional, author · Dr. John S. Easterby Retired Senior Lecturer in Biochemistry University of Liverpool, Research area: Protein chemistry, Enzymology, Metabolic Modelling · Roderick Paul Eaton MBA FIET MCMI, Retired Consultant Energy Industry Analyst/ Management Consultant · Debra Eddy Entrepreneur and Guest Lecturer in Business Management • Dr. Andrew Edmonds data scientist with a strong background in AI, past CTO of a publicly traded US tech company, currently CEO of a private US company, ThinkBase LLC · Peter Etherington-Smith Geologist/Oceanographer, Coral Reef Researcher, MSc Petroleum Engineering (Imperial), life-time international experience in developing countries, retired from BG MSc, DIC, Dip. Met, AusIMM, IOM3, SME, Ch.Eng., President Tianshan • Kevin Foo Jade (UK) Ltd · Ashley Francis BSc, FRAS, Geophysicist with expertise in forward and inverse modelling, stochastic modelling and resolution/scale change impacts · Sean Galbally Project Manager Water and Wastewater Systems · Kalghatgi Gauram PhD Aeronautical Engineering, Consultant Professor, 50 Years' experience in R&D in combustion, fuels and energy · Gil Gilchrist Geophysicist • Peter Gill Physicist, Ex Chair Institute of Physics Energy Group, Ex London Branch Chair & Fellow of EI • Alan Gill Retired Engineer in South Wales · Paul R. Goddard retired Professor of Radiology, University of the West of England • John D. Goss-Custard PhD Ecology, University of Aberdeen, Visiting Professor in the Department of Life and Environmental Sciences, Bournemouth University · Alastair Gray retired geologist, 50 years in oil exploration, production and asset evaluation · Delphine Gray-Fisk Former airline pilot, and parliamentary candidate for both the UK Independence Party and Brexit Party · Mick Greenway Research and Development of Flight Control Systems for Modern Civil and Military Aircraft, Retired Head of Research and Development within a Multi-Million-Dollar Company · David P. Gregg retired Unilever Research group leader and scientist, Author of studies of historical climate time series based on modern spectral analysis techniques · Brian Gregory MA. in Natural Sciences, MSc. in Business Studies, Lifetime Career in the UK Chemical Industry, currently Policy Director of the Alliance of **British Drivers** · Jimmy Haigh Independent Geological Consultant • Stephen Hardcastle Retired Electronics Engineer, 10 years experience in the design of NDIR gas detectors, for gases including CFC's CO2, CH4 and N2O

· David Hardy Business Owner, Director and Experienced Chemical Engineer. 20+ years in Energy technology development including removal of pollution from conventional fossil fuel power sources • Tim Harper Geomechanics Consultant and Researcher, previous Recipient of the Royal Academy of Engineering MacRobert Award for Engineering Innovation

 Ken Harrison Retired Chartered Physicist • John Harrison Former Chartered Physicist and Chartered Engineer · Peter Harvey Project Manager - Renewable offshore wind industry

· Raymond Hayes BA (Lond) M.Litt (Oxon) FRGS Solicitor Hong Kong and England and

Wales

· Robert Heath Retired Geophysicist, Honorary member of the Indian Society of

Petroleum Geologists

• Alex Henney Formerly London Electricity Board, Consultant on Electricity Matters Roger Higgs DPhil (Oxon), Independent Geological Consultant, Geoclastica Ltd. · Tatiane Melchior Stefanello Hodson Oceanographer, author, undertaking a Master's degree in International

Public Policy at Queen Mary University of London

• Dr. Sinclair Holland MBChB(Edin) Medical Doctor · Paul Homewood Climate & Energy Policy Analyst · Keith H. James PhD, Consultant Geologist

• James Barry Jamieson Retired Aeronautical Engineer, Co-author IPCC report 1999

· Anthony Janio PhD in Physics, Independent Elected Councillor in Brighton and Hove

Geologist, Director Hurricane Energy plc • David A.L. Jenkins

· Dr. Chris Jesshope Emeritus Professor University of Amsterdam, Director Techne

Consulting Ltd.

· David Jessop C.Eng., M.I.C.E., lifetime career in the water industry

• Stephen Latimer Jones BA Chemistry, IT professional

· Robert Jones BSc and PhD Mining Engineering, Director at Warwick Energy • Zana Juppenlatz Consultant in environment, environmental law and sustainability,

including renewable energy projects

• John L.D. Kerr B.A. (Hons) in Environmental Science & Technology; B.Sc. (Hons) in

Chemistry, active as Environmental Consultant

· Stephen King Experienced technically trained chenical engineer with experience

in environmental consideration of major petrochemical projects,

including technical and economic aspects

· David A. Kirkwood MSc MIET, Professional engineer working in IT, Deputy Chairman of

Reform UK Scotland

· Geoffrey W. Lane retired Marine Engineer and Technical Author

· Eur.Ing Colin Leci CO2 and Environmental Specialist

· Roger Longstaff Experimental Space Physicist and Company Director

BSc Hons Polymer Chemistry and Physics, Consultant Polymer · Anthony Lowe

· Peter Justin Lunt MSc Geology London, adjunct lecturer in geology (stratigraphy) at

Universiti Teknologi Petronas and Shandong University of Science and

Technology (SDUST) Qiangdao

· Tom Mackay BSc, Geologist, Fellow of the Geological Society (FGS) of London

· Chris MacKenzie MSc, Director and Geological & Environmental Consultant at Peak

Minerals Ltd

· Ian Magness Geologist turned treasurer, Since retirement actively involved in the

analysis of all aspects of climate change from a sceptical viewpoint

retired exploration geophysicist • Stephen Martin

• Chris Matchette-Downes Geologist and Geochemist, particularly involved in studies about past

climates including glaciation

· William James McAuley M.Sc. from Imperial College and an M.B.A. from Lehigh University,

retired Chemical Engineer with a 40+ year international career in

energy, industrial gas and chemical industries

• Dr. Niall McCrae PhD in Mental Health

· Angela McKay retd Mechanical Engineer in Turbine Generator Industry. Retd Head of

Physics St Mary's 6th Form College, Lancashire

• Dr. Euan Mearns retired, freelance consultant, researcher, blogger and author

 Krov Menuhin Expert on ocean life, underwater filmmaker, professional diver, pilot and writer, explored the Earth's extremities, experiencing the oceans

and the atmosphere first-hand

Geoffrey Middleton
 Chartered Architect, Socal Science

Terence Mordaunt
 Accomplished businessman, Self taught climate scientist mentored by

Professor David Bellamy

• Dr. William Morgan Retired Clinician

• Dr. Ian Mortimore BSc, Phd, MB, BS, FRCP, retired Consultant Respiratory Physician

in the NHS with research affiliations to Edinburgh and Newcastle

Universities

Philip Mulholland Geoscientist, Life time experience in the Geo-Energy Industry, co-

author of the DAET climate model

Stuart Munro Exploration Geologist and Geophysicist

Edward Nealon Geologist, Member of the Australian Institute of Mining & Metallurgy

Alex Nichols
 BSc Geography, MSc Environmental Assessment, 27 years in

sustainability consultancy, programmes and projects

Surface Metrology and Fibre Optics

Michael John Oates
 Geologist, Lifetime Experience in the Geo-Energy Industry, Fellow of

the Geological Society of London

Gerard O'Donovan
 Entrepreneur, Business Owner, career in building international and

multinational organisations

Andrew O'Rourke journalist climate change

Peter Owen
 FGS, Fellow of the Geological Society of London

• Jonathan R. Partington Emeritus Professor of Mathematics, University of Leeds

Dennis Paterson Retired Geologist

• Dr. James Petch Physical Geographer, formerly Reader in Environmental Science

at MMU and Head of Distributed Learning at the University of

Manchester

• Peter Phillips BSc Hons Mechanical Engineering, lifetime experience in the geo-

energy industry

Graeme Phipps geologist and geophysicist, Jersey Channel Islands

• Dr. James Pindell Geologist, specialised in plate tectonics and palaeographic evolution,

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

University (USA)

Gerry A. Quinn Research Scientist, Ulster University, lifetime career in microbiology,

biochemistry and environmentalism

• Clive Randle Geologist, Fellow of the Geological Society of London

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

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

of Certified Accountants (FCCA)

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

Modelling

Ceri Reid PhD Electrical and Electronic Engineering, Sonar Specialist

Chris Rice BEng(Hons) Engineering & Environmental Science

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

University and Southampton Solent University

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

Philip Risby
 BSc Engineering, Retired environmental consultant, patent holder

Anthony Robb PhD, Retired Chemist
 Salmaan Saleem Family Medicine Doctor

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

Richard Saumarez
 Biomedical Engineer from Imperial College

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

(Retired)

Robert M. Schneider
 MSCE, retired Civil Engineer

Michael Seymour Geologist, Fellow of the Geological Society of London

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

geology

Mike Sluman Retired teacher with an honours Degree in Environmental Biology

• Dr. Ian Smith MSc Maritime Archaeology, PhD Chemistry

· David Todd

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

Management, University of Central Lancashire, Predton

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

science teacher, currently councillor on New Forest District Council retired Associate Member of the Institute of Bankers, Post Graduate

Certificate in Business and Management

Paolo Emilio Trevisanutto
 PhD in Physics, Senior Computational Scientist

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

to APPG for Industrial Hemp

Neil Upton
 Retired GP UK

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

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

Society of Biology and member of The Anatomical Society

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

Nottingham

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

Officer Marine Climatology

Philip Linden Wilkes
 Life time Experience in Marine Biology

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

holder

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

policy.

Valentina Zharkova Professor of Mathematics and Astrophysics, Northumbria University,

Newcastle upon Tyne

Ivor Zoeftig International communications coach specialised in chaodynamics and

NLP LP



439 SIGNATORIES FROM UNITED STATES OF AMERICA

2 WCD Ambassadors

Dr. John F. Clauser
 Nobel Laureate Physicist

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

437 Signatories

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

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

Professional Nuclear Engineer

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

Research Center of the University of Alaska Fairbanks from 1998 until

2007

Ralph B. Alexander Emeritus Professor of Physics, Science Writer

Chapel Allen Geophysical Engineer with 49 years experience in earth science
 Michael Anderson BS Chemical Engineering, PhD Information Science, writes about contemporary American politics, including global warming

Lincoln Anderson
 Macroeconomist and Econometric Model Development

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

glacial geomorphology

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

Bob Armstrong
 MS , mathematical psychophysics

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

career in the oil and gas industry

Dr. Malgorzata Askanas
 Senior R&D Associate at the Aurora Biophysics Research Institute
 Hans-Peter Bähr
 Emeritus Professor of Pharmacology, Canada and Former Dean of

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

George Baker Emeritus Professor, Applied Science, James Madison University

Jeffrey Baldwin petrophysicist and rock physicist specialist

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

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

biology), adjunct college science professor

Donna Barr lifetime career as investigative journalist worldwide

Dr. Bryan Barrilleaux
 MD, Physician of Internal Medicine

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

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

Weaponization of Weather in the Phony Climate War

Captain Walter Bates
 Charles G. Battig
 Former pilot at United Airline
 Climate Adviser, Heartland Institute

Eric Baum
 PhD in Theoretical Physics, Princeton University

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

Masters degree in Biomedical Engineering

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

climate science for ten years

• James Beilman ASBOG Licensed Environmental Geologist

• Dr. Ernest Calvin Beisner Expert on the Ethics and Economics of Climate and Energy Policy,

Founder and Spokesman of The Cornwall Alliance for the Stewardship

of Creation

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

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

earth science research including flooding studies

David J. Benard
 Chemical Physicist & Co-inventor of the Oxygen-iodine Chemical Laser

Haym Benaroya Distinguished Professor of Mechanical and Aerospace Engineering,

Rutgers University

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

engineer, worked on the Space Shuttle, doing Computational Fluid

Dynamics simulations

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