



30th Anniversary of the Montreal Protocol

From the safeguard of the ozone layer to the protection of the Earth Climate

Tuesday 19 September 2017

08 :30 *Welcome coffee*

09 :30 Welcome addresses

Ms Marie-Laure Métayer, *French Ministry of Ecological and Solidarity Transition*

Dr Marie-Lise Chanin, *French Academy of Science*

Dr Hervé Le Treut, *Institut Pierre Simon Laplace*

Dr Jian Liu, *United Nations Environment Programme*

10 :00 Atmospheric Ozone: An Historical Perspective

Prof. G. Brasseur, *Max Planck Institute for Meteorology, Germany*

10 :30 The science of the ozone hole and its recovery

Prof. S. Solomon, *Massachusetts Institute of Technology, USA*

11 :15 The discovery of the ozone hole

Dr P.K. Bhartia, *NASA Goddard Space Flight Center, USA*

11 :45 Ozone depletion and the European Arctic, some personal reflections

Prof. J. Pyle, *National Centre for Atmospheric Science and University of Cambridge, UK*

Prof. N. Harris, *Center for Atmospheric Informatics and Emissions Technology, Cranfield University, UK*

12 :15 *Lunch Break*

13 :30 European campaigns on stratospheric ozone

Dr J-P. Pommereau, *LATMOS, CNRS, UVSQ, UPMC, France*

13 :45 Two Decades of Polar Ozone Research via Airborne Science Investigations

Dr M. Kurylo, *Universities Space Research Association / Goddard Earth Science, Technology and Research, USA*

14 :00 The SBUV and TOMS Satellite Instruments and the Montreal Protocol

Dr R. Stolarski, *Earth & Planetary Science Johns Hopkins University, USA*

14 :15 The contribution of GOME and Envisat to ozone research

Prof J. Burrows, *Faculty of Physics and Electrical Engineering, University of Bremen, Germany*

14 :30 Quantifying and confirming our understanding of stratospheric ozone: Insights from UARS and Aura MLS

Dr M. Santee, *Jet Propulsion Laboratory, California Institute of Technology, USA*

19 – 20 September 2017
Fondation Del Duca, Paris, France



30th Anniversary of the Montreal Protocol

From the safeguard of the ozone layer to the protection of the Earth Climate

14 :45 The role and performances of ground-based networks in tracking the evolution of the ozone layer

Prof J. Stähelin, *Institute for Atmospheric and Climate Science, Switzerland*

Dr I. Petropavloskikh, *CIRES, National Oceanic and Atmospheric Administration, USA*

Prof M. De Mazière, *Belgian Institute for Space Aeronomy, Belgium*

Dr S. Godin-Beekmann, *Laboratoire Atmosphère Milieux Observations Spatiales, CNRS, UVSQ, UPMC, France*

15 :15 *Coffee Break*

15 :45 Is global ozone recovering ?

Dr M. Heggelin, *Atmospheric Chemistry, University of Reading, UK*

Dr W. Steinbrecht, *Deutscher Wetterdienst Met. Obs. Hohenpeissenberg, Germany*

Prof N. Harris, *Center for Atmospheric Informatics and Emissions Technology, Cranfield University, UK*

16 :15 Impact of changes in water vapour and aerosols on stratospheric ozone

Dr K. Rosenlof, *National Oceanic & Atmospheric Admin, Earth System Research Lab, USA*

16 :30 Evolution and observations of ozone depleting substances

Dr S. Reimann, *EMPA, Switzerland*

16 :45 The impact of laboratory photochemistry on the Montreal Protocol

Dr J. Burkholder, *National Oceanic and Atmospheric Administration, USA*

17 :00 Solar UV-B radiation and the environmental effects of the ozone depletion

Prof C. Zerefos, *Research Center for Atmospheric Physics and Climatology, Academy of Athens, Greece*

Dr A. Bais, *Aristotle University of Thessaloniki, Greece*

17 :30 *Adjourn*

19 :00 *Dinner*



30th Anniversary of the Montreal Protocol

From the safeguard of the ozone layer to the protection of the Earth Climate

Wednesday 20 September 2017

- 09 :00 The world avoided by the Montreal Protocol
Prof M. Chipperfield, *Institute for Climate and Atmospheric Science, University of Leeds, UK*
- 09:15 Future ozone in a changing climate
Prof. Ulrike Langematz, *Institut für Meteorologie, Freie Universität Berlin, Germany*
- 09 :30 Impact of stratospheric ozone changes on climate
Prof. Darryn Waugh, *Earth & Planetary Sciences Johns Hopkins University, USA*
- 09 :45 The development of the Montreal Protocol and its governance
Dr T. Birmpili, *Ozone Secretariat UNEP*
- 10 :00 Climate impact of the Montreal Protocol & the new Kigali Amendment
Dr G. Velders, *National Institute for Public Health and the Environment (RIVM, The Netherlands)*
Dr D. Fahey and Dr J. Daniel, *NOAA, USA*
Dr S. Andersen, *Institute for Governance & Sustainable Development, USA*
- 10 :15 *Coffee Break*
- 10 :45 The search for substitutes of ozone depleting substances
Dr S. Andersen, *Institute for Governance & Sustainable Development*
Dr S. Carvalho, *Centro Mario Molina-Chile, Chili*
Mr M. Gonzalez, *Senior TEAP member*
- 11 :15 The role of industry in the Montreal Protocol
Dr K. Fay, *Executive Director, The Alliance for Responsible Atmospheric Policy*
- 11 :30 OzonAction
Dr S. Nair-Bedouelle, *OzonAction*
- 11 :45 Challenges of GAW ozone and UV measurement programme
Dr G. Braathen, *WMO*
- 12 :00 Contribution of the European Space Agency to ozone research and monitoring
Dr T. Wehr, *ESA*
- 12 :15 NASA's contribution to ozone research and monitoring
Dr. K. Jucks, *Upper Atmosphere Research Program NASA, USA*

12 :30 *Lunch Break*

19 – 20 September 2017
Fondation Del Duca, Paris, France



30th Anniversary of the Montreal Protocol

From the safeguard of the ozone layer to the protection of the Earth Climate

- 13 :30 Geoengineering and the future ozone layer
Dr S. Tilmes, *National Center for Atmospheric Research, Boulder CO, USA*
- 13 :45 From the Ozone Scientific Assessments to IPCC
Dr V. Masson-Delmotte, *Laboratoire des Sciences du Climat et de l'Environnement, UVSQ, CEA, CNRS, France*
- 14 :15 Science and politics in ozone and climate
Prof R. Grundmann, *University of Nottingham, UK*

14 :45 *Coffee Break*

- 15 :15 Round-table
What lessons can be drawn from the Montreal Protocol for the Paris Agreement ?
With
Prof. G. Brasseur, *Max Planck Institute for Meteorology, Germany*
Dr G. Velders, *National Institute for Public Health and the Environment (RIVM, The Netherlands)*
Dr T. Birmpili, *Ozone Secretariat UNEP*
Dr S. Andersen, *Institute for Governance & Sustainable Development, USA*
Prof R. Grundmann, *University of Nottingham, UK*
Moderator
Dr V. Masson-Delmotte, *Laboratoire des Sciences du Climat et de l'Environnement, UVSQ, CEA, CNRS, France*
- 16 :30 The way forward
Dr P. Newman, *NASA Goddard Space Flight Center, USA*

17 :00 *Adjourn*