

CURRICULUM VITAE

January 2025

1. NAME: **BERGER André**

date of birth: 30 July 1942, Acoz

nationality: Belgian

Ennobled by His Majesty Albert II, King of the Belgians, with the title of Chevalier (Sir) in July 1996. Device : « *Lux Scientia et Labora* ».

Office: Earth and Life Institute
Earth and Climate Research Center
(formerly Institut d'Astronomie et de Géophysique G. Lemaître)
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2. EDUCATION:

- Doctor of sciences, UCL (1973) "*La théorie astronomique des paléoclimats*"
- Master of Sciences in Meteorology, MIT, USA (1971) "*Investigation of anomalies of minimum and of maximum temperature for winter and summer at Omaha, Nebraska*"
- Lieutenant, Belgian Army (1966) and Belgian Air Force (1967)
- Agrégé (education) enseignement secondaire supérieur, UCL (1965)
- Licence (Master degree) in mathematical science, Université Catholique de Louvain (1964)

3. AWARDS-HONORS:

3.1. Academies

- 2017 - Directeur de la Classe des Sciences de l'Académie royale de Belgique
- 2015 - vice-Directeur de la Classe des Sciences de l'Académie Royale de Belgique
- 2007 – Membre étranger de l'Académie des Sciences de la Société royale du Canada (MSRC-FRSC)
- 2006 – Foreign Member of the Serbian Academy of Sciences and Arts
- 2004 – Membre de l'Académie Royale des Sciences, des Lettres et des Beaux Arts de Belgique – Classe des Sciences
- 2003 – Membre titulaire de l'Académie Nationale de l'Air et de l'Espace en France
- 2003 – Associate of The Royal Astronomical Society, London, "in recognition of inspiring leadership within the Geophysical Community"
- 2002 – Membre correspondant de l'Académie Royale des Sciences, des Lettres et des Beaux Arts de Belgique – Classe des Sciences
- 2000 – Membre titulaire de la Société Philomatique de Paris
- 2000 - Associate Foreign member of « Académie des Sciences », Paris
- 1997 - Foreign Member of the Koninklijke Nederlandse Akademie van Wetenschappen.
- 1996 - Corresponding Member of Société royale des Sciences de Liège
- 1993 - Member of the New York Academy of Sciences (1993-1996)
- 1989 - Member of Academia Europaea; Member of the Council, 1993-1999.

3.2. Universities

- 2014 – Honorary Distinguished Professor of Yunnan Normal University at Kunming

- 2014 – Southwest Associate University Forum, China, keynote speaker Tenth Conference.
- 2013 – Honorary doctorate of Science, University of Massachusetts, Amherst, in recognition of "significant contributions to the Astronomical Theory of Paleoclimates and for groundbreaking research on global warming".
- 2008 – The André Berger named symposium: "*Climate Change: from the geological past to the uncertainfuture*". European Geosciences Union and Université catholique de Louvain, Louvain-la-Neuve, Belgium, May 2008.
- 2008 – Gallery of Geniuses of Coimbra Group Universities at University of Jena (Université catholique de Louvain)
- 2007 – Emeritus professor and Senior Scientist Université catholique de Louvain
- 2004 - Docteur *honoris causa* de la Faculté Polytechnique de Mons.
- 2001 – Slichter Lecture 2001 – University of California Los Angeles (UCLA) (IGPP)
- 1999 - Docteur *honoris causa* de l'Université Paul Sabatier, Toulouse
- 1989 - Docteur *honoris causa* de l'Université Aix-Marseille III.
- 1989 - Titulaire de la Chaire Francqui à l'Université de Liège, à titre belge.
- 1989 – Professeur Ordinaire à l'Université catholique de Louvain.
- 1970-71 Fellow of the Belgian American Educational Foundation-CRB. MIT-MS 1971
- 1964-1965 - Boursier IRSIA. Théorie de la persistance ; statistique des jours secs et pluvieux

3.3. Prizes

- 2019 – Golden Milutin Milankovitch Medal of the Cultural and Scientific Center “Milutin Milankovitch”, Dalj, Croatia
- 2010 – Prix Lemaître of Amis et Anciens de Louvain and Fondation Louvain
- 2008 – Advanced Investigators Grant of the European Research Council
- 2001 – European Latsis Prize 2001 of European Science Foundation
- 1995 - Prix quinquennal Docteur A. De Leeuw-Damry-Bourlart du Fonds National de la Recherche Scientifique en Belgique. *For his fundamental contribution to climatic research. He has made accurate computations of the time variations of the Earth's orbital parameters. With these data, he has developed a theory of the long term climatic variations. His works have had a major influence on the climate theory and modeling, allowing the reconstruction of past climate, creating a systematic framework for the interpretation of the marine sediments and other paleontological data*
- 1994 - Norbert Gerbier-Mumm International Award, World Meteorological Organization.
- 1984 - Prix Charles Lagrange de la Classe des Sciences de l'Académie Royale des Sciences, des Lettres et des Beaux-Arts de Belgique (20e période quadriennale 1980-1984).
- 1980 - Prix de la première biennale 1979-80 de la Societa Italiana di Fisica (section Géophysique).
- 1975 - Lauréat du Concours des bourses de voyage du Ministère de l'Education Nationale et de la Culture Française.

3.4. Civil Awards

- 2016 – Grand Officier de l'Ordre de Léopold
- 2010 – Officier de la Légion d'Honneur, République Française.
- 2007 - Belgian stamp of Berger effigy in "This is Belgium 2007"
- 2007 – Grand Officier de l'Ordre de la Couronne
- 2004 – Lauréat du diplôme de reconnaissance du Conseil Culturel Mondial
- 2004 – Chevalier de la Légion d'Honneur, République française.
- 1997 - Commandeur de l'Ordre de la Couronne.
- 1996 – Ennobled Chevalier (Sir) by His Majesty Albert II, king of the Belgians.
Motto: *Lux Scientia et Labora*
- 1989 – Officier de l'Ordre de Léopold
- 1979 - Médaille d'Argent de Sa Sainteté le Pape Paul VI.
- 1970 - Lieutenant Honoraire du Wing Météorologique de la Force Aérienne Belge.

3.5. Societies

2017 – Emeritus member of the International Climate Commission of IAMA-IUGG.
 2017 - The 2017 Mary B. Ansari Best Geoscience Research Resource Work Award to the Encyclopedia of Marine Geosciences (2016, eds Jan Harff, Martin Meschede, Sven Petersen and Jörn Thiede), shared with co-authors, for major reference work on marine geosciences
 2012 – Honorary Life Fellowship of the International Union for Quaternary Research.
 2012 - Award (shared with all the co-authors) of the Atmospheric Science Librarians International (ASLI) to The Future of the World's Climate (A. Henderson-Sellers and K. McGuffie, eds. Elsevier, 2012) for the broad scientific context that it provides for current efforts to model and predict climate change.
 2003 - Membre honoraire du Conseil d'administration de WWF Belgium
 2003 - Fellow of the Royal Meteorological Society
 2002 - Honorary President of the European Geosciences Union (EGU)
 1999 – co-Founding member of the International Polar Foundation (with Alain Hubert and Hugho Declair). Member of the Administrative Council and of the Scientific Committee.
 1999 - European Geophysical Society (EGS), President 2000 – 2002
 1999 - Fellow of the American Geophysical Union
 1994 - Milutin Milankovitch Medal, European Geophysical Society.
 1994 - Society Lecture, European Geophysical Society
 1992 - Member of the World Institute of Science.
 1989 - Honorary member of the European Geophysical Society.
 1988 - Golden Award of the European Geophysical Society.
 1987 - Union Lecture of the International Union of Geodesy and Geophysics.
 1987-1995 – President of the Paleoclimate Commission of INQUA
 1987-1993 – President of the International Climate Commission of IAMAS-IUGG
 1974 - Foreign Member of the Royal Meteorological Society

4. APPOINTMENTS

4.1. Permanent academic and research positions

Emeritus Professor and Senior Researcher, Université catholique de Louvain, 2007- .
 Professeur Ordinaire, Université catholique de Louvain, 1989-2007.
 Responsable de l'Unité ASTR, Université catholique de Louvain-la-Neuve (Directeur de l'Institut d'Astronomie et de Géophysique Georges Lemaître, UCL), 1978 - 2001.
 Maître de Conférences à l'Université de Liège (Maîtrise en Géologie des Terrains Superficiels, 1985 - 1993).
 Visiting Professor at the Vrije Universiteit Brussel (International Post Graduate training Course on Fundamental and Applied Quaternary Geology, 1982 - 1992).
 Professeur, Université Catholique de Louvain, 1984 - 1989.
 Chargé de Cours, Université Catholique de Louvain, 1976-1984.
 Suppléant, Université Catholique de Louvain, 1973-1976.
 Fellow of the Belgian American Educational Foundation (Herbert Hoover Commission for Relief in Belgium), 1970-1971.
 Assistant, Université Catholique de Louvain, 1965-1973.
 Service Militaire, Officier instructeur à la section recherche et enseignement du Wing Météorologique de la Force Aérienne Belge, 1966.
 Bourse de spécialisation IRSIA (Institut d'Enseignement pour la Recherche Scientifique dans l'Industrie et l'Agronomie), Université catholique de Louvain, 1965.
 Professeur Enseignement Secondaire. Collège St-Augustin, Gerpinnes, 1964.

4.2. Invited lecturer (1982-present)

A. Berger has been invited to lecture at University of Geosciences-Wuhan (2017), South-West China University-Chongqing (2015), Yunnan Normal University (2014), Southwest Associate

University Forum (2014), University of Hawaii (2012), Institute of Earth and Environment of CAS, Xian (2012), University Joseph Fourier, Grenoble (1993, 1994, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012), Tokyo University-Hongo (2010), IGGCAS (2010), Institute of Geography and Limnology, Nanjing (2010), University of Amsterdam (2009), University of Concepcion (Chili) (2008), Institute of Geology and Geophysics of the Chinese Academy of sciences in Beijing (2006), University of Tongji – Shanghai (2005), Faculté Polytechnique de Mons (2005), Universitat Autònoma de Barcelona (2005), Ghent University (2004), McGill University (2004), Université des Sciences et Techniques de Lille (2003), Université de Bordeaux (2003), Universität Bremen (2002), Université Louis Pasteur – Strasbourg (2002), University of California – Los Angeles (2001), University of Copenhagen (1993, 1997), University of Napoli (1997), Université Pierre et Marie Curie (1997), Université de Lyon (1996), University of Montreal (1996), Ponts et Chaussées Paris (1996), Frei Universität Berlin (1994), Faculté Polytechnique de Mons (1993, 1998), Institute of Atmospheric Physics in Prague (1993), University of Reading (1993), Faculté Notre Dame de la Paix de Namur (1993, 1997), University of Bremen (1992), NATO ASI Siena (1992), Physikzentrum Bad Honnef (1992), Universiteit Instelling Antwerpen (1992, 1995), Université Libre de Bruxelles (1990, 1993, 1997), European School CEC, Arles (1990), Université Aix-Marseille III (1990), Université de Liège (1990). Universidad de Alcalá de Henares (1988), Università di Firenze (1988), Universität Kiel (1987), Ettore Majorana Center for Scientific Culture (1986, 1983, 1982, 1980), Université de Bujumbura (1982).

4.3. *Members of Dr Sc. Jury*

From 1973 to 2007, A. Berger has been the supervisor of 22 doctoral degrees and member of 36 boards of examiners at the Université catholique de Louvain and of 23 abroad. He was member of 20 Commissions for the nomination of scientists and academics

5. **SCIENTIFIC COMMITTEES IN BELGIUM**

5.1. *National Committees*

Ad Hoc Belgian National Coordination Committee for the International Polar Year 2007. Royal Academy of Sciences, member 2003-present.

Comité National Belge de Géodésie et de Géophysique, *membre coopté* 1972, *associé* 1974, *effectif* 1984, *secrétaire adjoint* 1988-1996, *vice-président*, 1996-1999. *Président* 2000-2004. *Délégué belge* auprès de IAMAS-IUGG, 1988-présent. *Membre honoraire*, 2008.

Comité National Belge des Relations Soleil-Terre, *membre effectif* 1993-2002, *secrétaire adjoint* 1993.

Comité National Belge International Geosphere Biosphere Programme sur les Changements Globaux, *membre* 1988-1991, *membre effectif* 1991.

Comité National Belge d'Etudes du Quaternaire (BELGUA), *membre coopté* 1975, *associé* 1982, *effectif* 1983-2006.

Comité National Belge pour les Recherches dans l'Antarctique (SCAR), *membre effectif* 1984-présent.

Comité National Belge de Recherches Spatiales, *membre associé* 1986-2002. Membre du SCOSTEP (Scientific Committee on Solar Terrestrial Physics).

Comité National Belge du Special Committee on Problems of the Environment (SCOPE), *membre coopté* 1975, *membre associé* 1984. Membre 1985. Membre Honoraire 2006- .

Comité National Belge de la Coopération Géophysique Internationale, *membre associé* 1982, *membre effectif* 1984-1993, *secrétaire adjoint* 1984-1993.

Comité Belge Archéométrie, *membre* 1983-1993.

5.2. *Working groups (1990-present)*

A. Berger is a current member of working groups dealing with paleoclimates, climate modelling, remote sensing, nuclear energy, and environment.

5.3. Other Committees (1990-present)

Voting member of the Belgian American Educational Foundation (Herbert Hoover Commission for Relief in Belgium), 2001- .
Administrateur Fondation Hoover Louvain, 2008- .
Membre du Jury Prix Reine Paola pour l'Enseignement, 2007-2008.
Membre du Scientific Board of Greenfacts, Sept. 2005 - .
Membre fondateur (founding member) du Musée Arctique et Antarctique, asbl, 2004.
Membre Fondateur (founding member) de l'International Polar Foundation (with A. Hubert and H. Declair), 1999 - .
Film de Ph. Dutilleul et P. Benguet coproduit par RTBF, Zeaux Productions, France 2 AGCD et avec la soutien de la Commission Européenne, « Sale temps sur la Planète », avril 1999 ; *conseiller scientifique*.
Exposition Vivre ou Survivre de l'Institut Royal des Sciences Naturelles de Belgique; *membre d'honneur* du Comité scientifique, 1998-1999.
Centennial Symposium "BELGICA 1898-1998", Bruxelles, 14-16 mai 1998; *membre* du Comité scientifique.
Fondation Mgr Georges Lemaître, *membre du* « Comité de Patronage » 1995-1997 ; *membre* du Comité d'Administration, 1997-2015.
Prix Georges Lemaître, *membre* du Comité scientifique international, *Executive secretary*, 1994-2015 .
World Wide Fund for Nature, Belgique, Communauté Francophone, *administrateur* 1993-présent.
Fonds Léopold III pour l'Exploration et la Conservation de la Nature, *membre* 1993- .
MIT Club of Belgium, *membre* 1993- .

6. INTERNATIONAL SCIENTIFIC COMMITTEES

6.1. Scientific Societies, Committees ...

EGU – European Geosciences Union, *Co-Initiator* of its founding, 2000. *Honorary President* 2002- .
EGS - European Geophysical Society, *President elect* 1999, *President* 2000-2002, Past President 2003.
EGS-EGU instigator of the creation of Milankovitch Medal (1993) and Oeschger Medal (2002)
AGU – Instigator (1986) of the creation of the Climate Medal which was named Revelle Medal in 1992
IUGG - International Association of Geodesy, *associate member* 1995- .
IAMAP International Commission on Climate (ICCL-IUGG), *membre* 1981-1991; *President* 1987-1993.

INQUA Paleoclimate Commission, *membre* 1977-1991. *Secretary Treasurer* 1982-1987. *Président* 1987-1995.
INQUA Commission on Global Change within Quaternary. *Vice-President* of sub-Commission A on Paleoenvironmental Synthesis, 1991-1993.
INQUA Committee on Global Change, *membre* of the bureau 1987-1991.

PMIP Initiator of the creation in 1991 of the Paleoclimate Modeling Intercomparison Project as Chair of the NATO Special Programme panel on the Science of Global Environmental Change

IGBP-PAGES, First Scientific Steering Committee on Global Changes of the Past, International Geosphere-Biosphere Programme, *membre* 1988 - 1990.

IGBP - International Committee of Coordinators of National Research Programmes on Global Air Pollution and Climate Change, *membre* 1990-1993.

GAIM (Global Analysis, Integration and Modelling) Task Force of IGBP (International Geosphere-Biosphere Programme), *membre* 2003 - .

UNESCO-IOC, Paleoclimatology Panel of the Committee on Climatic Changes and the Ocean, Intergovernmental Oceanographic Commission - UNESCO, *membre* 1985- 1990.

NATO Special Programme Panel on the Science of Global Environmental Change, *membre* 1990-1995, *chairman* 1992.

NATO Special Programme Panel on Global Transport Mechanisms in Geo-Sciences (NATO Science Committee), *membre* 1982-1985.

NATO Special Programme Panel on Air-Sea Interactions (NATO Science Committee), *membre* 1979-1981. *Chairman* 1981.

NATO Programme Advisory Committee of the International Technical Meeting on Air Pollution Modeling and its Applications, *chairman* 1980-1985.

NATO/CCMS Air Pollution Pilot Study. Air Quality Management Strategies and Impact Modelling. Panel 2 "Air Quality Prediction", *expert* 1980-1985.

NATO/CCMS Modelling Panel of Air Pollution Pilot Study, *expert* 1975-1979.

6.2. Working Groups

A. Berger was a member on working groups of European Science Foundation, International Union of Geological Sciences, Commission of European Communities. Member of SPECMAP and CLIMAP Research Programmes; he is one of the leaders of the European Research Programmes on Past Climates. He was, in particular, involved in :

EURO-CLIVAR, the european contribution to the international programme on climate variability. Concerted action in the Environment and Climate Programme of the 4th Framework Programme of the European Commission. *Member* of the Scientific Steering Committee, 1995-1998.

SPECMAP (USA), *International Corresponding Member*, 1981-1984. 1984-1994.

CLIMAP (USA), *International Corresponding Member*, 1976-1980.

ESF, Member of European Paleoclimate and Man Since the Last Glaciation (EPC). *Chairman* of the working group on Modelling Paleoclimate for the Slices and Periods analysed on a continental and on a Global Scale. *Member* of the Scientific Coordinating Committee (1989 - 1990).

ESF, European Space Science Committee, *membre* 1994-1996.

CEC - Coordination Group on Climate Processes and Climate Change of the Commission of the European Communities Climatology and National Hazards Research Programme. *Chairman* 1988-1992.

7. EXPERT - SCIENTIFIC ADVISER

Industries

Membre du Conseil de l'Environnement de Electricité de France, 1998-2004, 2005-2009.

Membre du Comité scientifique UCL - Fina Research, 1998-2001.

Membre du Conseil scientifique de "La Cinquième", Paris, 1996-1998.

Membre du Comité scientifique du projet Planète Terre du Palais de la Découverte à Paris, 1995-1997.

Membre du Conseil scientifique de Gaz de France, 1994-1996-1999.

Research Institutes

Membre du Comité d'Évaluation du CNRM (AERES) 2012-2015

Membre du Scientific Steering Committee of the College of Global Change and Earth System Science of the Beijing Normal University, 2008 - .

Membre du "International Advisor Board of QUEST Programme" (quantifying and understanding the Earth system lead by Colin Prentice), 2005-2007- .

Membre du Scientific Advisory Committee du Département Terre-Atmosphère-Océan, Ecole Normale Supérieure de Paris, 2003 - .

Membre du Comité scientifique d'Evaluation quadriennale du GAME (URA 1357) (groupe de recherche conjoint METEO-France – CNRS), 2003 - .

Membre du Hadley Centre Science Review Group, 2003 – 2006.

Membre du Conseil scientifique du Centre National de la Recherche Scientifique (France), 2003 -2004.

Membre du Scientific Advisory Committee du Département Terre-Atmosphère-Océan, Ecole Normale Supérieure de Paris, 2003- .

Membre du Comité d'Orientation scientifique et stratégique du Collège de France, 2003-2006.

Membre du Conseil scientifique consultatif auprès de Météo-France, 2001 – 2003; 2004 - 2006 .

Membre du Conseil scientifique de l'Institut Pierre Simon Laplace, Paris, 2001 -2006 .

Membre du Conseil Scientifique International du Pôle Européen Universitaire et Scientifique de Grenoble, 2000-2006.

Mitglieder der Kommission Radiometrie/Arckäometrie, Heidelberg Akademie der Wissenschaften, 1999 - .

Membre du Conseil scientifique, Laboratoire d'Etude en Géophysique et Océanographie Spatiale de Toulouse (LEGOS) UMR 5566, 1998- .

Membre du Comité scientifique du Laboratoire de Météorologie Dynamique, CNRS, Paris, 1995-1999.

Membre du Comité scientifique du Laboratoire des Sciences du Climat et de l'Environnement (LSCE) CEA, Gif-sur-Yvette, France, 1994-2015.

Membre du Comité scientifique de U.P.R. 2101, Centre des Faibles Radioactivités, Laboratoire mixte CEA/CNRS, Gif-sur-Yvette, 1990-2010

Membre du Comité scientifique de U.R.A. 327, Institut des Sciences de l'Evolution, Montpellier, 1990-1994.

Peer Review (Academies, associations)

Member of the Interdisciplinary Committee of the World Cultural Council, Albert Einstein World Award of Science, 2013-

Expert scientifique du FNRS au Programme EUROCORES-EUROCLIMATE de la Fondation Européenne de la Science, 2002-2003.

Peer review of programme proposals, Netherlands Geosciences Foundation, Netherlands Organization for Scientific Research, 1997-présent.

Expert externe pour évaluation de projets au Conseil de la Recherche du Fonds national suisse (peer review of projects), 1997-présent.

Membre de "Evaluation Committee of the Norwegian Climate and Ozone Research Programme", Norges Forskningsråd, Oslo, 1996-1998.

Membre de "Evaluation Committee of International Geosphere-Biosphere Programme"; Chairman of Evaluation Team of its PAGES Core Project, 1994-1995.

Chair of Earth and Cosmic Sciences Section of Academia Europaea and member of the Council, 1993-1999.

Membre du Comité scientifique du "Programme National Français d'Etude de la Dynamique du Climat", 1984-1987. 1988-2000.

Policy-Makers

Member of Advisory Group for EEA 2005 State of the Environment and Outlook Report (So EOR 2005), sub-report on Climate Change, Air Quality and Sustainable Energy, 2004

Member of Advisory Group. Global Change and Ecosystems at European Commission Research Directorate General, 2002-2005.

Member of the Scientific Committee of the European Environment Agency with as area of expertise Climate Change, Atmospheric Sciences, 2002-2006, 2006-2009.

Chairman of the External advisory group on Global Change, Climate and Biodiversity, Commission of European Communities, Directorate General XII (Vice-Chairman ; 1998-1999, Chairman, 2000-2002).

Membre de "European Communities Greenhouse Policy Advisory Committee", Directorate General Environment, Nuclear Safety and Civil Protection (DG XII), Bruxelles, 1990-1995.

Membre expert du Comité de Gestion et de Coordination du Programme de Recherche Climatologie et Environnement des Communautés Européennes, membre expert 1985-1991.

Membre du Comité Recherche Sciences et Techniques du Conseil des Ministres de la Communauté Européenne, membre du sous-comité CREST Environnement, section Climatologie, 1983-1984.

Membre des Groupes de Contact du Programme Climat de la Commission des Communautés Européennes sur "Reconstitution of Past Climates, Climate Models and Anthropogenic Impacts on Climate", 1980-1983.

Membre du Conseil scientifique de l'Institut d'Hygiène et d'Epidémiologie, Ministère de la Santé Publique et de l'Environnement, 1995-présent.

Membre du Conseil de l'Environnement de Bruxelles-Capitale (région Bruxelloise), 1990-1993.

Membre du Comité d'experts pour analyser le passé, le présent et le futur de la décharge de Mont-Saint-Guibert. Ministre de l'Agriculture, de l'Environnement et du Logement. Exécutif Régional Wallon, décembre 1990-1998.

8. EDITORIAL RESPONSABILITIES

2010-present: Member of the First Editorial Board of Journal Earth Environment CAS.

2001-present: Membre du Comité de Rédaction des Comptes Rendus de l'Académie des Sciences de Paris, section Geosciences.

1991-2005: Associate Editor, Surveys in Geophysics.

1991-present: Member of Editorial Board, Earth and Planetary Science Letters.

1991-1995: Member of Editorial Board, Environmental Software.

1990-1996: Member of Editorial Advisory Board of The Holocene.

1987-2010: Member of Editorial Board, Atmosfera.

1986-present: Member of Editorial Board Climate Dynamics.

1985-1988: Editor EOS Atmospheric Sciences, American Geophysical Union.

1982-2000: Member of Editorial Advisory Board, Atmospheric and Oceanographic Sciences Library, Reidel, Holland.

1980-1988: Associate Editor Atmospheric Environment.

1978-1988: Member Editorial Board Il Nuovo Cimento, Part C Geophysics.

1977-1984: Associate Editor, Climatic Change.

1973-1976: Applied Mechanics Review.

1978-present: Acting occasionally as referee of International Scientific Journals as Nature, Transactionns of the American Geophysical Union, Earth and Planetary Science Letters,

Icarus, Bulletin of World Meteorological Organization, Solar Physics, Geology, Ciel et Terre.

9. MEMBERSHIP OF ACADEMIC SOCIETIES

9.1. In Belgium

Société de la Légion d'Honneur, *membre titulaire* 2010-
Société Royale Belge d'Astronomie, de Météorologie et de Physique du Globe, *Membre* 1967-
présent; administrateur 1984-2007.
Société Scientifique de Bruxelles, *Membre du Conseil* 1984-2007.
Société de l'Ordre de Léopold, *Membre* 1989-*présent*.

9.2. International

European Geosciences Union, *Member* 2002-
Société météorologique de France, *Member* 1996-
American Geophysical Union, *Member* 1970-*present*.
American Meteorological Society, *Member* 1981-*present*.
Association of European Climatologists.
European Geophysical Society, *President* 2000-2002, *Vice-President* (section Hydrospheres -
Atmospheres) 1984-1988, *Ex-officio member of the Council of EGS* 1982-84. *Member*
1976-2002.
European Union of Geosciences.
International Tree-Ring Society, *Member* 1974-*present*.
Royal Meteorological Society, *Foreign Member* 1970-*present*.
World Federation of Scientists, Ettore Majorana Center for Scientific Study, *Member* 1988-
present.

10. RESEARCH GRANTS

A. Berger has been responsible for 77 research grants between 1975 and 2007, some of them amounting more than half a million euros. These grants were provided, in particular, by Commission of European Union, Belgian Ministries, Commission for Atomic Energy and Belgian National Funds for research. In 2008, A. Berger was awarded an Advanced Investigators Grant from the European Research Council (ranked top of the list).

11. INTERNATIONAL COLLABORATIONS

Lectures and visits at numerous Universities and Research Centers in Europe, USA, Canada, Australia, China and Africa have given rise to collaborative studies with scientists, in particular, of China, France, Germany, Great Britain, The Netherlands, USA.

12. TEACHING (1974-2007)

12.1 Lectures at Université Catholique de Louvain

Physique des fluides I
Météorologie et Physique du Globe I (introduction à la climatologie)
Météorologie et Physique du Globe II (climatographie)
Introduction à la modélisation du système climatique
Météorologie
Géographie Mathématique
Questions Spéciales de Climatologie
Séminaire d'Astronomie et de Géophysique
Questions spéciales de modélisation du système climatique

12. 2 Research students supervised

Between 1992 and 2002, A. Berger has supervised 22 doctoral dissertations and 33 master degree theses.

12.3 *Diffusion of sciences*

Up to 2025 109 scientific and 209 popular conferences.

13. INVITED PAPERS AND LECTURES

Between 1974 and 2025, A. Berger has been invited to lecture at 338 symposia and workshops and to give 148 seminars at different universities and other scientific institutes.

14. SYMPOSIA ORGANISED (28)

6th Meeting of the Working Group and Expert Panels on Assessment Methodology and Modelling, NATO/CCMS Air Pollution Pilot Study. Louvain-la-Neuve, September 1977.

8th NATO/CCMS International Technical Meeting on Air Pollution Modelling. Louvain-la-Neuve, September 1977. Chairman.

Workshop of Advanced Mathematical Air Pollution Models. Collegio degli Ingegneri della Toscana. Firenze 19-20 March 1979. Co-organizer with L. Santomauro; introduction and conclusions.

1st International School of Climatology : Climatic Variations and Variability : Facts and Theories (NATO ASI). Ettore Majorana Center. Erice, Sicily, 9-21 March 1980. Director (2 lectures).

2nd International School of Climatology : Climate and Energy : Carbon Dioxide. Ettore Majorana Center, Erice, Italy, 16-26 July 1982. Associate Director to W. Bach.

New Perspectives in Climate Modelling, Convenor with C. Nicolis, Symposium S.14, EGS, Leeds, 26-27 Aug. 1982.

Milankovitch and Climate, Co-chairman with J. Imbrie, Lamont-Doherty Geological Observatory, Palisades, N.Y., 30 Nov. - 3 Dec. 1982. (3 papers)

NATO Advanced Workshop "Climatic Variations at the Astronomical Frequencies", Lamont-Doherty Geological Observatory, Palisades, N.Y., 4 Dec. 1982. Chairman.

International Symposium G. Lemaître. On the occasion of the 50th Anniversary of his theory on the expansion of the Universe. Under the Auspices of His Majesty the King of Belgium. Louvain-la-Neuve, October 10-13, 1983. Chairman of the Organizing Committee.

10th General Assembly of the European Geophysical Society. Louvain-la-Neuve, 30 July - 4 August 1984. -Chairman- of the Local Organizing Committee.

5th International School of Climatology : Physically Based Modelling and Simulation of Climate and Climatic Change. Ettore Majorana Center, Erice, Sicily, 11-23 May 1986. Co-Director with M. Schlesinger.

IUGG Symposium n°15, Contribution of Geophysical Sciences to Climate Change Studies. Invited convenor with Drs J. Kidson and A. Dickinson, Vancouver, August 1987.

Climate and Geo-Sciences, a Challenge for Science and Society of the XXI Century. Special Programme on Global Transport Mechanisms of the NATO Science Committee. Chairman of the Organizing Committee. Louvain-la-Neuve, May 1988.

Les Changements Climatiques - De Klimaatsverandering, Scientific Seminar organised by the State Secretary of Environment, on the occasion of the UNEP World Environment Day, Palais d'Egmont, Bruxelles, 5 juin 1989. Chairman of the seminar.

- International Workshop on Supercomputers in Climatology-Meteorology and Fluid Dynamics. Louvain-la-Neuve, 21-23 May 1990. Organizing Committee: M. Deville, Th. Fichefet, R. Keunings, J.P. van Ypersele de Strihou. Chairman of the Workshop with M. Crochet.
- 100ième Anniversaire de la naissance de Georges Lemaître. Journée scientifique, Université catholique de Louvain, Louvain-la-Neuve, 7 octobre 1994. Organisateur. Orateurs : P. Macq, J.P. Luminet, J. Demaret, A. Deprit, J. Kovalevsky, R. Sadourny, J.Cl. Pecker.
- Symposium on Milankovitch and Quaternary Climate History, XIV International INQUA Congress, Berlin, 3-10 August 1995. Convenor.
- Climate and Ozone at the dawn of the third millennium, Bruxelles, 13-14 mai 1996. Chairman of the organizing committee.
- Mediterranean Challenges : Ecological and Climatic Aspects. Symposium organised during the Annual Scientific Assembly of Academia Europaea, Barcelona, 28 June 1996. Co-Chairman with J. Albaiges.
- Climate and Health. Symposium organised during the Annual Scientific Assembly of Academia Europaea by the Earth and Cosmic Sciences Section, Basel, 2 October 1998. Chairman of the Organisation Committee.
- European Geophysical Society, Nice, France, 26-27 April 2000. Workshop on Earth Models of Intermediate Complexity. Co-Chairman with M. Claussen, R. Bates and V. Alexeev.
- International Commission on Climate. International Association of Meteorology and Atmospheric Sciences, General Assembly, Innsbruck, 10-18 July 2001. Climate variability over the geological record. Co-convenor with K. Taylor.
- Milutin Milankovitch Anniversary Symposium: Paleoclimate and the Earth Climate System. Serbian Academy of Sciences and Arts, Belgrade, 30 August – 2 September 2004. Chairman of International Program.
- Working Group during the State Visit of Their Majesties King Albert II and Queen Paola to the P.R. of China. Energy and Climate, 7 June 2005, Guest House Diaoyutai, Beijing.
- Premier Colloque à l'Etranger du Collège de France, en partenariat avec l'Académie royale de Belgique, l'Université libre de Bruxelles et l'Université catholique de Louvain, Palais des Académies, Bruxelles, 8-9 mars 2006. Co-Président avec J. Reisse et J.P. Changeux.
- Colloque de séminaires organisé par la Chaire de l'Evolution du Climat et de l'Océan du Collège de France en partenariat avec l'Université catholique de Louvain, Collège de France, Paris, 25 mai 2007. Co-organisateur avec E. Bard.
- 3rd von Humboldt International Conference on East Asian Monsoon, Past, Present and Future. Organised by Institute of Geology and Geophysics of the Chinese Academy of Sciences, European Geo-Sciences Union, Beijing, 24-30 August 2007. Co-chair with Z. Ding and Z. Guo.
- Milutin Milankovitch 130th Anniversary Symposium: Climate Change at the Eve of the Second Decade of the Century, Inferences from paleoclimate, and regional aspects, Belgrade 22-25 September 2009. (Chair with A. Navara, F. Mesinger and D. Sijacki).
- Milutin Milankovitch 135th Anniversary Symposium: Past climate: a lesson for the future. Regional climate change aspects. Serbian Academy of Sciences, Belgrade. 3-5 September 2014. (Chair with F. Mesinger).
- IUGG 2015: Session M18 – Past climate changes: a key for the future. Prague, June 22-July 2, 2015. (Chair with A. Haywood, Q. Yin, M. MacCracken).

15. UNIVERSITY ADMINISTRATION

Former head of the Institute of Astronomy and Geophysics G. Lemaître, Université catholique de Louvain, Louvain-la-Neuve (1978-2001). This Institute had currently 20 scientists, and 2 secretary.

Up to 2007, Ex officio member of the Department of Physics and Department of Geology-Geography.

Member of several ad-hoc committees related to scientific policy and appointments at the University.

16. PUBLICATION RECORD

Andre Berger has published 327 papers, 167 in journals and 160 in books and proceedings. He has written the book "Le Climat de la Terre" which considers the past as key for the future, and was providing in 1992 an up-to-date and original synthesis of the scientific problems related to natural and man-made climatic variations. He edited 15 books, two having been considered as milestones in Quaternary research and serve as standard references. He is among the geophysicists with the largest citation index as first or single author. In January 2025, according to Google scholar citations, his total citations were 34414 with H-factor of 70. Among his 54 papers cited more than 100 times, 12 are single-author with 12462 citations. His two 1978 papers as single author are cited respectively 3031(daily insolation) and 1779 (caloric insolation) times, and his updated solution of 1991(two authors) is cited 4978 times. Since his official retirement in 2007, André Berger published 48 papers, among which 9 as first author (2 as single author).

André Berger is a Highly Ranked Scholar #1 in Paleoclimatology by ScholarGPS (<https://scholargps.com/scholars/33916696533560/andre-berger>). This ranking allows to assess more objectively the personal contribution of a scientist in a list of publications with many authors.

For a full list of publications, see “Full list of publications” at <https://www.elic.ucl.ac.be/modx/index.php?id=53>.

17. BIOGRAPHICAL RECORD

Listed in Who's Who in the World, Who's Who in Sciences, Who's Who in Europe, Qui est Qui en Belgique Francophone, International Book of Honor (American Biographical Institute), American Biographical Institute (Honorary Advisor on the Research Board of Advisors), Dictionary of International Biography (Cambridge, UK), International Register of Profiles (International Biographical Centre, Cambridge, UK, 1993-1994, p. 24), Le nouveau dictionnaire des Belges (Le Cri/Legrain, RTBF édition), Dictionnaire biographique européen.