

André Berger

Curriculum vitae

March 2008

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 in July 1996. Device : « *Lux Scientia et Labora* ».

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2. Education:

- Doctor of science, UCL (1973)
- Master of Science in Meteorology, MIT, USA (1971)
- 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

- 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

- 2008 – Gallery of Geniuses of Coimbra Group Universities (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.

3.3. Prizes

- 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.
- 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

- 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.
- 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

- 2002 – Honorary President of the European Geosciences Union (EGU)
- 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 – Golden Award of the European Geophysical Society.
- 1987 – Union Lecture of the International Union of Geodesy and Geophysics.
- 1987 – Honorary member of the European Geophysical Society.

4. Appointments:

4.1. *Permanent academic and research positions*

- Professeur Émérite, 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, Gerpennes, 1964.

4.2. Invited lecturer (1990-present)*

A. Berger has been invited to lecture at University Joseph Fourier, Grenoble (1993, 1994, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008), 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).

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.

5. Scientific Committees in Belgium

5.1. National Committees

Ad Hoc Belgian National Coordination Committee for the International Polar Year 2007.
 Royal Academies of Sciences, membre 2003-présent.
 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.

* a full list is available upon request.

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)*

Membre du 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. Decleir), 1999 - .
 Fonds Léopold III pour l'Exploration et la Conservation de la Nature, *membre* 1993- .
 Fondation Mgr Georges Lemaître, *membre du* « Comité de Patronage » 1995-1997 ; *membre du Comité d'Administration*, 1997-présent.
 Prix Georges Lemaître, *membre du Comité scientifique international*, *Executive secretary*, 1994- .
 World Wide Fund for Nature, Belgique, Communauté Francophone, *administrateur* 1993-présent.
 MIT Club of Belgium, *membre* 1993- .
 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*.

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.

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.

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 is a current 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.

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.

7. Expert-Scientific Adviser

Industries

- Membre* du Conseil de l'Environnement de Electricité de France, 1998-2004, 2005- .
- Membre* du Conseil scientifique de Gaz de France, 1994-1996-1999.
- Membre* du Comité scientifique UCL - Fina Research, 1998-2000 .
- 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.

Research Institutes

- 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 consultatif auprès de Météo-France, 2001 – 2003; 2004 - .
- Membre* du Conseil scientifique de l'Institut Pierre Simon Laplace, Paris, 2001 -
- Membre* du Comité d'Orientation scientifique et stratégique du Collège de France, 2003-2006.
- Membre* du Conseil Scientifique International du Pôle Européen Universitaire et Scientifique de Grenoble, 2000-2006.
- Membre* du Conseil scientifique du Centre National de la Recherche Scientifique (France), 2003 -2004.
- 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-présent.
- 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 Comité scientifique de U.P.R. 2101, Centre des Faibles Radioactivités, Laboratoire mixte CEA/CNRS, Gif-sur-Yvette, 1990-présent.
- Membre* du Comité scientifique de U.R.A. 327, Institut des Sciences de l'Evolution, Montpellier, 1990-1994.

Peer Review (Academies, associations)

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

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

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.

Membre de "Academic Council of the Academy of Sciences of the Czech Republic", 1994-présent.

Policy-Makers

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

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

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

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 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

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

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

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

8. Editorial Responsibilities

1991-present: Associate Editor, Surveys in Geophysics.

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

1987-present: Member of Editorial Board, Atmosfera.

1986-present: Member of Editorial Board Climate Dynamics.

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

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

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

1985-1988: Editor EOS Atmospheric Sciences, American Geophysical Union.
 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 Royale Belge d'Astronomie, de Météorologie et de Physique du Globe, *Membre 1967-présent; administrateur 1984-présent.*
 Société Scientifique de Bruxelles, *Membre du Conseil 1984-présent.*
 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.

11. Current 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

A. Berger has supervised 22 doctoral dissertations. He was member of 36 boards of examiners in his university and of 23 abroad.

12.3 Diffusion of sciences

Currently 5 scientific and 20 popular conferences per year.

13. Invited Papers and Lectures (1991-present)*

Between 1974 and 2007, A. Berger has been invited to lecture at 221 symposia and workshops and to give 125 seminars at different universities and other scientific institutes.

14. Symposia Organized (27)

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.
- 100^{ième} 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.

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 has currently 20 scientists, and 1 secretary.

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

- Has published over 250 scientific papers; several ones very widely known and cited.
- Has edited 10 books, two having been considered as "milestone in Quaternary studies and a standard reference".
- Has published a book "Le Climat de la Terre". This book which considers the past as key for the future, gives an up-to-date and original synthesis of the scientific problems related to natural and man-made climatic variations.

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.

Bibliography

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1348 Louvain-la-Neuve**

- 1. Books**
- 2. Articles in journals** (with peer reviews)
- 3. Articles in books** (proceedings and others)
- 4. Other articles**
- 5. Extended Reviews of books in international journals**

FEBRUARY 2008

1. Books

- BERGER A., SANTOMAURO L. (Eds), *Proceedings of the Workshop of Advanced Mathematical Air Pollution Models*, Firenze, March 1979, Collegio degli Ingegneri della Toscana.
- BERGER A. (Ed.), *Climatic Variations and Variability : Facts and Theories*, NATO ASI, D. Reidel Publishing Company, Dordrecht, Holland, 795pp., 1981.
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- BERGER A., NICOLIS C. (Eds), *New Perspectives in Climate Modelling*. Proceedings of the EGS Symposium S14 (1982). Developments in Atmospheric Sciences, vol. 16, Elsevier Publishing Company, Holland, 403pp., 1984.
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- BERGER A., 1984. Man's Impact on Climate. In : *"The Climate of Europe : Past, Present and Future. Natural and Man-Induced Climatic Changes : A European Perspective"*. H. FLOHN and R. FANTECHI (Eds), Atmospheric Sc. Library, Reidel Publ. Company, Holland, 1984. Chap. 4, pp. 134-197. Also contribution to the whole planning of the book and discussion of each chapter.
- BERGER A. (Ed.), *The Big Bang and Georges Lemaître*, Reidel Publ. Company, Holland, 420pp., 1984.
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- BERGER A., DUPLESSY J.Cl. (Eds), 2004. *Paléoclimatologie-Paleoclimatology*. GEOSCIENCE, Comptes Rendus Académie des Sciences de Paris, Tome 336, fascicule 7-8, 597-750.
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- BERGER A., 1992. *Le Climat de la Terre, un passé pour quel avenir*. De Boeck Université, Bruxelles, 479pp.
- BERGER A., *Astronomical Theory of Climatic Variations*. (in preparation).

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