

## CURRICULUM VITAE

HENRY TULKENS

Born: May 7, 1938

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### Current Position

*Professor emeritus* at Université Catholique de Louvain, Louvain-La-Neuve, 2003 to date.

*Member* of the Center for Operations Research and Econometrics (CORE), Université Catholique de Louvain (a research center devoted to the application of mathematics and statistics to economics, engineering and business administration) 1966 to date.

### Past Positions

- Post-Doctoral Fellow, University of Chicago, Graduate School of Business, 1963-1964.
- Post-Graduate Research Economist, University of California, Berkeley, Center for Research in Management Science, September 1964-March 1965.
- Assistant Chargé d'enseignement (1965-1967), Chargé de cours (1967-1972), Professeur extraordinaire (1972-1978), Facultés Universitaires Saint-Louis, Brussels.
- Chargé de cours associé (1967-1972), Professeur (1972-1978), Université Catholique de Louvain.
- Professeur ordinaire (1978-2003), joint appointment at Université Catholique de Louvain and Facultés Universitaires Saint-Louis, Brussels.
- Professeur Civil at *École des Administrateurs Militaires*, Ministry of Defense, Brussels (1982-1995).

### Administrative appointments (academic)

- Dean, Faculté des Sciences Economiques, Sociales et Politiques, at Facultés Universitaires Saint-Louis, Brussels (1970-1974).
- Chairman, Institut des Sciences Economiques, Université Catholique de Louvain (1978-1981).
- Director of the Doctoral Program, Département des Sciences Economiques, Université Catholique de Louvain (1988-1991).
- Secretary, European Economic Association, 1997-2003.

### Visiting Appointments (academic)

- Université d'Aix-Marseille II (Centre Universitaire de Luminy), France:  
Maître de Conférences; January-April 1971  
*Course*: "Economie politique" (undergraduate course). (**Book # 2**)
- Université Libre de Bruxelles, Faculté des Sciences Economiques et Sociales:  
Professeur visiteur ; academic years 1971-72 and 1973-74.  
*Course*: "Questions approfondies de Finances Publiques" (advanced undergraduate course).
- Princeton University, U.S.A., Department of Economics and Woodrow Wilson School of Public and International Affairs: Visiting Lecturer, with rank of Associate Professor ; February-June 1973.  
*Courses*: "Macroeconomics" and "Workshop in Microeconomics" (graduate courses).
- Stanford University, U.S.A., Institute for Mathematical Studies in the Social Sciences:  
Visiting Scholar; June-September 1973. Research on dynamic methods in Public Economics.
- Facultés Universitaires Notre-Dame de la Paix, Namur, Belgium. Professeur visiteur ; academic year 1975-76.  
*Research seminars* on economic analysis of international negotiations relating to transfrontier pollution.
- Hebrew University, Jerusalem, Israël, Center for Research in Mathematical Economics and Game Theory:  
guest researcher; march-april 1976. Research on game theory and public goods.

- Université Laval, Québec, Canada, Département d'Economique: Professeur visiteur, janvier 1977.  
*Course:* "Modèles microéconomiques de la gestion et de la qualité des eaux" (graduate course).
- Université de Paris XII (Val-de-Marne), France, U.E.R. de Sciences économiques et de gestion:  
Professeur invité; October 1978-January 1979, and February 1981.  
*Course:* "Procédures d'allocation des ressources et systèmes dynamiques" (graduate course).
- Stanford University, U.S.A., Department of Economics, and Institute for Mathematical Studies in the Social Sciences: Visiting Professor of Economics, June-August 1979.  
*Course:* "Economics 1" (undergraduate); research on game theory and dynamic processes in economics.
- Princeton University, U.S.A., Department of Economics: Visiting Professor of Economics ; January-June 1983.  
Research in public economics.
- Université de Montréal, Canada, Département des Sciences Economiques: Professeur invité, January 1985.  
*Course:* "Procédures d'allocation des ressources et systèmes dynamiques " (graduate course).
- Indian Statistical Institute, New Delhi, India: Visiting researcher ; January-February 1987.  
Research on dynamic processes of resource allocation.
- Université Libre de Bruxelles, Faculté des Sciences Economiques et Sociales: Professeur visiteur 1987-88.  
*Course:* "Systèmes dynamiques et procédures d'allocation des ressources" (graduate course).
- Université de Montréal, Canada, Département des Sciences économiques: Professeur invité, March-April 1989.  
*Course:* lectures on the measurement of productive efficiency, as part of the graduate course "Economie de l'entreprise".
- Université de Paris X-Nanterre, France, U.F.R de Sciences économiques: Professeur invité, September-January 1990.  
Faculty seminar lectures on general equilibrium theory, fiscal competition, and on the measurement of productive efficiency.
- Ecole des Hautes Etudes en Sciences Sociales, Marseilles, France: Professeur invité, November 1991.  
Seminar lectures and consulting on the measurement of productive efficiency.
- The Beijer Institute for Ecological Economics, Royal Swedish Academy of Sciences, Stockholm, Sweden:  
guest researcher, January 1992 and May 1993.  
Research on the core of economies with international environmental externalities.
- Universität München, Germany, Center for Economic Studies: guest lecturer, January 1993.  
Three lectures on "Topics in Environmental Economics"
- Fondazione ENI Enrico Mattei, Milan, Italy: guest lecturer, June and September 1993.  
Six lectures on "Topics in Environmental Economics".
- Ecole Nationale de la Statistique et de l'Administration Economique, Paris, February-April 1995  
*Course:* Economie publique et fiscalité
- Universität Mannheim, Germany, guest lecturer, May 1995.  
Four lectures on ""General equilibrium, game theory and environmental economics"
- Scuola Santa Ana, Pisa, Italy, guest lecturer, February 1996  
Four lectures in Public and Environmental Economics
- International Monetary Fund, Fiscal Affairs Department, Washington D.C., USA, January-February 1997  
Research and lecturing on efficiency measurement of public expenditure.
- University of Umeå, Sweden, Department of Economics, guest lecturer, March 2002  
Three lectures on "General equilibrium, game theory and environmental economics"

- Université de Paris 1 Panthéon-Sorbonne, France, May 2003  
*Course:* 6 lectures on “Équilibre general, Théorie des jeux et Économie de l’environnement”.
- Università Ca’ Foscari di Venezia, Italy, June 2003, guest lecturer at the Summer School in Analysis and Governance of the Centro interdepartimentale per l’analisi delle Interazioni Dinamiche tra Economia, Ambiente e Società (IDEAS)  
Two lectures on Integrated Assessment Modeling.
- University of the South Pacific and IMF Pacific Financial Technical Assistance Center (PFTAC) Suva, Fiji, February-August 2004  
*Course:* “Public Expenditure Management in Small Developing Economies” (**book #3**).
- National University of Singapore, Department of Economics, guest researcher, August 1997, August 2003, February 2004, March 2006, November 2006, November 2007.
- Università Ca’ Foscari di Venezia, Italy, April-June 2011, 2013, 2014, 2015, Visiting professor.  
*Course:* 9 lectures on “*Economic and game theoretical analysis of international environmental agreements, with special emphasis on climate change*» in the PhD program Science and Management of Climate Change. (**book #6**).

#### **Invited keynote and introductory lectures**

*Académie royale des Sciences, des Lettres et des Beaux-Arts de Belgique, Collège Belgique:* “*Le changement climatique au carrefour entre écologie, économie, théorie des jeux et diplomatie*”, Cours-conférences faits à Bruxelles, les 8 et 15 octobre 2013.

*Katholieke Universiteit Leuven,* colloquium « 35 jaar Publieke Financiën in België » in honor of Professors Wim Moesen and Paul Van Rompuy. Invited lecture: “Het federalisme, de democratie en België”, October 24, 2006.

*Société Royale d’Économie Politique de Belgique,* Bruxelles. Conférence-débat: “Le réchauffement de la planète: enjeux économiques et diplomatiques”, June 2002.

*Historical Overview session* of the Fifth European Workshop on Efficiency and Productivity Analysis held at The Royal Veterinary and Agricultural University Department of Economics and Natural Resources Copenhagen, Denmark. Plenary lecture: “Frontier or not frontier ? That is the question...”, October 9, 1997.

*Inauguration of Handelshögskolan, Göteborg University.* Introductory presentation to the Nordic Workshop in Productivity and Efficiency: "How to measure efficiency and productivity with special reference to banking", September 19-20, 1995.

*Sixth meeting of the European Association of Environmental and Resource Economists,* Umeå, Sweden. Keynote lecture: “Cooperation vs. free riding in international environmental affairs: two approaches”, June 22, 1995.

*IIIe Journées de Microéconomie Appliquée,* Nantes, France. Plenary session speaker: “La performance productive d’un service public: définition, méthode de mesure et application à la Régie des Postes en Belgique” , May 1985.

## Other Academic Activities

- Principal supervision of doctoral dissertations at Université Catholique de Louvain:  
Jean-Pierre CLOSON, promoted in January 1976; Françoise SCHOUMAKER, promoted in December 1977; TomasiKila KIONI KIABANTU, promoted in June 1980; Serge WIBAUT, promoted in March 1986; Ping Yuan YEN, promoted in September 1991; Francisco DE SOUSA RAMOS, promoted in November 1992; Guillaume-Pierre WUNSCH, promoted in March 1996; Philippe VANDEN EECKAUT, promoted in July 1997; Ms. SHAW, promoted in September 1999; Sergio CURRARINI, promoted in September 1999, Philippe CATTOIR, promoted in May 2000; Vincent VAN STEENBERGHE, promoted in May 2003, Magali VERDONCK, promoted in May 2006.
- Member of thesis committees:
  - *at Louvain*: Camille BRONSARD (1971, Economics, Louvain); Maurice MARCHAND (1972, Economics, Louvain); Philippe DESCHAMPS (1976, Economics, Louvain); Frederico de CARVALHO (1979, Economics, Louvain); Antoinette d'ASPREMONT (1984, Management, Louvain); Bruno VAN DER LINDEN (1987, Applied Mathematics, Louvain); Helmut CREMER (1987, Economics, Louvain); Dominique DEPRINS (1989, Economics, Louvain); Salvador LOPEZ GARCIA (1990, Economics, Louvain); Roland GILLET (1991, Economics, Louvain); Bernard LEBRUN (1991, Economics, Louvain); Tanguy van YPERSELE (1996, Economics, Louvain), Lisa GRAZZINI (2001, Economics, Louvain), .
  - *as external examiner for other universities*: Guy CARRIN (1979, Economics, K.U. Leuven); André DECOSTER (1988, Economics, K.U. Leuven); Charles MALLORY (1990, Economics, Université de Montréal, Canada); Ali BAYAR (1992, Economics, Université Libre de Bruxelles); Jens Leth HOUGAARD (1994, Economics, University of Copengagen, Denmark); Torben HOLVAD (1994, Economics, European University Institute, Florence); Kristiaan KERSTENS (1994, Economics, K.U. Brussel); Tarik TAZDAIT (1995, Sciences Economiques, Université de Paris X Nanterre, France); Véronique ALLIAUME (1997, Institut des Sciences Politiques, Paris, France); Sverre KITTELSEN (1998, Economics, University of Oslo, Norway); Johan EYCKMANS (1998, Economics, KU Leuven); Martin KOLMAR (2002, Economics, University of Konstanz, Germany), Frédéric GHERSI (2003, Ecole des Hautes Etudes en Sciences Sociales, Paris); Florent PRATLONG (2005, Economics, Université Paris 1 Panthéon-Sorbonne); Basak BAYRAMOGLU (2006, Economics, Université Paris 1 Panthéon-Sorbonne).

## Direction of Research Projects (grants or contracts)

- Ministère de la Politique Scientifique, Bruxelles. Programme National de Recherche et de Développement sur l'Environnement - Director of project CB1: "*Analyse économique de la lutte contre la pollution des eaux* ", October 1972-June 1974.
- Fonds de la Recherche Fondamentale Collective, Bruxelles: "*Méthodes analytiques en Economie publique*", principal investigator of convention n° 10.278, January 1973-December 1976.
- Ford Foundation, New York, Program of Research in International Economic Order: "*Dynamic and Strategic Stability Analyses of International Negotiations on Transfrontier Pollution*", (with Claude d'Aspremont), July 1975-December 1976.
- Fonds de la Recherche Fondamentale Collective, Bruxelles: "*Constitution d'un Fonds de Documentation statistique et économique sur les Services Publics Belges*", principal investigator of convention n° 2.4544.80, January 1980 - December 1983.
- Ministère de la Politique Scientifique, Bruxelles: Programme d'Actions de recherche Concertées (PAC): "*Applications de la théorie des décisions économiques*", investigator in charge of project b.4: "Exploitation de modèles de la théorie des jeux pour l'étude de problèmes d'économie publique", 1980-1985.
- Fonds de la Recherche Fondamentale Collective, Bruxelles: "*Les critères de performance des entreprises et services publics en Belgique*", co-promotor of convention n° 2.4512.84, January 1984-December 1987.
- Ministère de la Politique Scientifique, Bruxelles: Programme d'Actions de recherche Concertées (PAC): "*Emploi et production: analyse et modélisation*", investigator in charge of project I.B: "Mesure de l'efficacité productive et implications managériales", 1987-1991.
- Fonds de la Recherche Fondamentale Collective, Bruxelles, "*Performance des entreprises et incitations managériales dans le secteur public*", co-promotor of convention n° 2.4528.88, 1988-1991.
- Secrétariat d'Etat à la Région Bruxelloise, Bruxelles: "*Indicateurs de performance économique pour la Société des transports Intercommunaux de Bruxelles (STIB)*", November 1990-March 1995.
- Ministère de la Politique Scientifique, Bruxelles: Pôles d'Attraction Interuniversitaire *Politique économique et théorie de l'équilibre: méthodes et applications*' co-promotor (sous-projet 1.2.c.2: Economie Publique)
- Fonds de la Recherche Fondamentale Collective, Bruxelles, "*Econométrie appliquée à la mesure de l'efficacité productive*", co-promotor of convention n° 2.4505.91, 1991-1994.

- Ministère Wallon des Transports (through CIRIEC, Liège): "*Indicateurs de performance économique pour les Sociétés de Transport en Commun (TEC) wallonnes*" February-December 1994.
- Fonds de la Recherche Fondamentale Collective (FRFC), Bruxelles "*Logical Foundations of International Cooperation in Transfrontier Pollution Treaties*" (1992 - 1993). (Co-promotor: C. d'Aspremont)
- Université Catholique de Louvain, Fonds de Développement Scientifique (FDS): "*Caractère adéquat des engagements et application conjointe: deux modalités-clés de la mise en oeuvre de la Convention de Rio sur les changements climatiques*" (Co-promoters: C. d'Aspremont and J.-P. van Ypersele).
- European Union (DG XII): "Environmental Policy, International Agreements and International Trade" 1992-1994 (Co-promotor: professor A. Ulph).
- Belgian Ministry of Scientific Policy, SSTC, Brussels : "CLIMNEG : Négociations climatiques internationales et stratégies de la Belgique", 1996-2001.
- Belgian Ministry of Scientific Policy, SSTC, Brussels : "CLIMBEL : Négociations climatiques et instruments politique environnementale pour la Belgique", 1998-2001
- Université Catholique de Louvain -- Groupe AVENIR, a Louvain University funded project on *Financial and fiscal solidarity within the Belgian federation*, (1998-2000).
- Ministère de la Région de Bruxelles Capitale (Minister Grijp), "*Modes alternatifs de financement de Bruxelles*" (Co-promotor: Professor J.P. Lambert).
- Ministère de la Région de Bruxelles Capitale (Minister Hasquin), "*La détermination des frontières d'une ville*". (Co-promotor: professor Isabelle. Thomas).
- Vlaams Ministerie van Financiën, Begroting en Gezondheidsbeleid (Minister Wivina Demeester), "*Perequatiemechanismen en aansporingen tot hervorming*", January-June 2000.
- Ministère des Finances et du Budget de la Région de Bruxelles Capitale (Minister Vanhengel), "*Simulation des recettes fiscales de la Région de Bruxelles-Capitale pour 2002*", sept.—dec. 2001 (Co-promotor: Professor J.P. Lambert).
- Ministère de la Région de Bruxelles Capitale, Présidence (Minister François-Xavier de Donnea), "Les conséquences des accords du Lambertmont sur la fiscalité régionale bruxelloise : état des lieux et perspectives », sept.—dec. 2001 (Co-promotor: Professor J.P. Lambert).

#### Other Scientific Activities

- Referee on papers submitted to *Management Science, Review of Economic Studies, Recherches Economiques de Louvain, Econometrica, Journal of Public Economics, European Economic Review, Journal of Industrial Economics, Canadian Journal of Economics, Public Finance/Finances Publiques, Cahiers Economiques de Bruxelles, International Economic Review, International Journal of Industrial Organization, Annals of the Public, Social and Co-operative Economy; Economic journal; Computers and Operations Research; European Journal of Operations Research; American Economic Review; Journal of Political Economy; Journal of Environmental Economics and Management; Environmental and Resource Economics; Economica*.
- Referee on research projects submitted to: -Fonds de la Recherche Fondamentale Collective, Bruxelles; - Conseil des Arts, Ottawa, Canada ; - Ford Foundation, New York, U.S.A. - Commission of the European Communities (SPES, HCM, TMR Programmes).
- Associate Editor of *Public Finance/Finances Publiques* (1977-1991); of *Recherches Economiques de Louvain* (1988 - 1997).- Member of the Editorial Board of *Annals of the Public, Social and Co-operative Economy* (1989-1995); of *Ricerche Economica* (1992-1997); of *Journal of Productivity Analysis* (1993-1998); of *International Tax and Public Finance* (1995-2000).
- Member of the Comité de Direction of the *Centre Interuniversitaire d'Etude du Fédéralisme*, Bruxelles (1989-1996).
- Member of the Program Committee of the *European Doctoral Program in Quantitative Economics*, organized by the London School of Economics, the Rheinische Friedrich-Wilhelms Universität Bonn, the Université Catholique de Louvain and the Ecole des Hautes Etudes en Sciences Sociales, Paris (1978 to 1995).
- Jury member for the scientific prizes awarded by the Fondation GUTT, Bruxelles (1981-1995).
- Rapporteur général for the *Sixième Congrès des Economistes Belges de Langue Française* (3ème commission), Bruxelles, November 1984.
- Secretary of the Groupe de contact F.N.R.S. "Finances et Economie publiques/Openbare Financiën en Economie", sponsored by the Fonds National belge de la Recherche Scientifique, Bruxelles (1985-1990).
- President of the *Institut Belge de Finances Publiques*, Bruxelles (since 1995; member of the Comité Directeur since 1974 and Vice-President 1981-1995).
- Member of the Board of Management of the *International Institute of Public Finance*, Saarbrücken (1994-1998).
- Vice President, *International Institute of Public Finance*, Saarbrücken (1998-2000).

- Member and Vice-President of the Comité Scientifique of the research program *Gestion des Impacts du Changement Climatique*", Ministère de l'Environnement et du Développement Durable (MEDD), Paris (1999 to 2016).
- Member of the Comité d'orientation of the *Chaire Développement Durable*, Electricité de France (EDF) and École Polytechnique, Paris (2004 to date).
- Member of the Comité d'orientation of the *Chaire Finance Durable et Investissement Responsable*, IDEI, Toulouse, École Polytechnique, Paris et Association FDIR, Paris (2008 to date).

#### **Non academic appointments**

- Chairman of the *Commission de l'Indice des Prix du Royaume de Belgique*, Ministère des Affaires Economiques, Brussels (January 1993-December 1994)
- Member of the *Commission de Réforme de la Comptabilité Publique*, Ministère des Finances, Brussels (1992-1993).
- President of the *Conseil Consultatif pour les Services Postaux*, Institut Belge des Postes et Telecommunications, Ministère des Entreprises publiques, Brussels (March 1995-July 1998)

#### **Consulting**

- Administration des Postes, Ministère des Postes, Télégraphes et Téléphones, Bruxelles, 1966-1967.
- General Post Office, London, November 1968 and March 1970.
- Ministère des Travaux Publics, Bruxelles, January-September 1981.
- Ministère des Affaires Economiques et Secrétariats d'Etat à l'Energie et à l'Environnement, Bruxelles, October 1983-January 1984.
- Union Economique BENELUX, Secrétariat Général, Bruxelles, November 1984-December 1985.
- Secrétariat d'Etat à la Modernisation et l'Informatisation des Services Publics, Bruxelles, April-December 1987.
- Secrétariat d'Etat à la Région Bruxelloise, Bruxelles, January 1988-June 1989.
- Intercommunale des Eaux du Centre du Brabant Wallon, January 1991.
- PETERCAM Securities, Bruxelles, January-March 1991 and November 1991-March 1992
- FEBIAC, Bruxelles, April-December 1993.
- European Union, Commission, September 1996-May 1999 ; September 1999-December 2001.
- Hellenic Republic and GEFYRA, Athens, July 1999-2004.

#### **Organization of scientific meetings**

- Organizer of the colloquium "*Finances Publiques et Régionalisation*" held by the Institut Belge de Finances Publiques at Louvain-La-Neuve, December 12, 1980.
- Organizer and chairman of the program committee of the international Symposium "*Research and Decision Making in Economics, Management and Engineering*" held in Louvain-la Neuve on January 19 - 21, 1987 to celebrate the XXth anniversary of the foundation of the Center for Operations Research and Econometrics (CORE).
- Organizer and chairman of the 5th Commission of the *Huitième Congrès des Economistes Belges de Langue Française*, Liège, November 1988.
- Organizer of the colloquium "*European Workshop on Productivity and Efficiency Measurement in the Service Industries*" held at CORE (Center for Operations research and Econometrics), Louvain-La-Neuve October 20-21, 1989
- Organizer of the colloquium "*Second European Workshop on Productivity and Efficiency Measurement: Methodology and Applications*" held at CORE (Center for Operations research and Econometrics), Louvain-La-Neuve October 25-26, 1991.
- Organizer of the colloquium "*Third European Workshop on Productivity and Efficiency Measurement: Methodology and Applications*" held at CORE (Center for Operations research and Econometrics), Louvain-La-Neuve October 21-23, 1993.
- Organizer of the Second Summer School of the European Economic Association on "*Tax reforms in market economies: theory, policy and empirical evaluation*" held at Ridracoli (Bologna), Italy, July 1-13, 1991
- Organizer of three "*Summer Graduate Courses on Efficiency Analysis*" at the request of FORMEZ, Napoli, and held at CORE, Louvain-la-Neuve, July 22-27, 1991; July 20-31, 1992; and July 19-30, 1993.
- Organizer of the "*Seminar on Efficiency Analysis*" under the ACE programme of the Commission of the European Communities, held at CERGE, Charles University, Prague, October 1992.
- Organizer of the "*Workshop on coalition formation*" held at CORE with the support of the Fondazione ENI Enrico Mattei, Université Catholique de Louvain, Louvain-la-Neuve, March 1995.

- Organizer of the colloquium "*Fourth European Workshop on Productivity and Efficiency Measurement: Methodology and Applications*" held at CORE (Center for Operations research and Econometrics), Louvain-La-Neuve October 26-28, 1995.
- Member of the Program Committee for the *European Meetings of the Econometric Society* at Helsinki (1976), Vienna (1977), Geneva (1978), Munich (1989).
- Member of the Program Committee for the Second Congress of the *European Association of Environmental and Resource Economists*, Stockholm (1991).
- Member of the Program Committee for the XXXIIIrd International Conference *Econometrics of Environment of the Applied Econometrics Association*, Geneva (1992).
- Member of the Program Committee (as chairman in charge of the session on Public Finance) for the *World Congress of the International Economic Association*, Moscow (1992).
- Member of the Program Committee for the (yearly) *Journées de Microéconomie Appliquée* (1991 to 1998).

### **Education**

- Docteur en Sciences Economiques, Université Catholique de Louvain, 1968.
- Doctor in de Rechten, Katholieke Universiteit te Leuven, 1960.

### **Fellowships**

- Boursier du gouvernement français (courses taken at Ecole d'Application de l'I.N.S.E.E. - today E.N.S.A.E. - and Institut de Statistique de l'Université de Paris), 1960-1961.
- Aspirant du Fonds National Belge de la Recherche Scientifique (doctoral fellowship), 1962-1965.

**Languages** (spoken fluently): French - English - Dutch.

### **Major Fields of Interest:**

Public Economics (both theoretical and empirical, including cost-benefit analysis, with emphasis in environmental economics, fiscal federalism and efficiency measurement). - Microeconomics, General Equilibrium, Welfare, and Game Theory. - Principles of Economics.

## Publications

### a) *BOOKS as author or co-author*

1. *Programming Analysis of the Postal Service: A Study in Public Enterprise Economics*, Collection de la Faculté des Sciences économiques, sociales et politiques n° 34, Louvain: Librairie Universitaire, 1968 (316 pp.).
2. *Fondements d'Economie Politique*, 1st edition, La Renaissance du Livre, Bruxelles, 1970 (250 pp.); 2nd edition 1986, De Boeck Université and Editions Universitaires, Bruxelles-Paris (420 pp.); 3d edition 2001, same publisher, 530 pp.). (with Alexis Jacquemin and Philippe Mercier).
3. *Public Expenditure Management in Small Developing Economies*, Pacific Technical Assistance Centre, IMF and the University of the South Pacific, Suva, Fiji, 2004 (with Anne Morant and Luc Leruth).
4. *Public goods, environmental externalities and fiscal competition: 22 selected papers in public economics by Henry Tulkens*, edited and introduced by Parkash Chander, Jacques Drèze, C. Knox Lovell and Jack Mintz, Springer, Boston 2006 (588 pp.).
5. “*Le changement climatique au carrefour entre écologie, économie, théorie des jeux et diplomatie*”, Cours-conférences faits à l'Académie royale des Sciences, des Lettres et des Beaux-Arts de Belgique, Collège Belgique, Bruxelles, les 8 et 15 octobre 2013.  
<http://www.academieroyale.be/cgi?lg=fr&pag=919&tab=111&rec=1264&frm=0> and  
<http://www.academieroyale.be/cgi?lg=fr&pag=919&tab=111&rec=1265&frm=0>
6. *Economics, Game Theory and International Environmental Agreements: The Ca' Foscari Lectures*, a course taught at the University of Venice, Italy, published by World Scientific Publishing Company, Singapore and London, 2019.
7. In preparation: *Environmental Negotiations Models: Numerical Implementation of Economic and Game theoretic Concepts*, (with Marco Rogna).

### b) *BOOKS as editor or co-editor*

1. *Economie Publique*, French edition of the proceedings of the Joint Conference held by the International Economic Association and the Centre National de la Recherche Scientifique (C.N.R.S.) at Biarritz, France, September 1966, published by C.N.R.S., Paris, 1968 (599 pp.) (with Henri Guitton).
2. *Finances Publiques et Régionalisation*, Proceedings of the Conference held at Louvain-La-Neuve by the Institut Belge de Finances Publiques, Cabay, Louvain-La-Neuve, 1982 (252 pp.)
3. *The Performance of Public Enterprises Concepts and Measurement*, North-Holland Publ. Co., Amsterdam, 1984 (296 pp.) (with Maurice Marchand and Pierre Pestieau).
4. *La performance économique des sociétés de transports urbains*, Centre international de recherche et d'information sur l'économie publique, sociale et coopérative (C.I.R.I.E.C.), Liège, 1988 (371 pp.) (with Bernard Thiry). This book has obtained the "**Prix Ferdinand de Lesseps**", awarded by the Fédération Française des Travaux Publics, on the 24th of April, 1990.
5. *Efficacité et Management*, Proceedings of the 5th Commission of the Huitième Congrès des Economistes Belges de Langue française, Centre Interuniversitaire de Formation permanente (CIFOP), Charleroi, Belgium, 1989 (293 pp.).
6. *Contributions to Operations Research and Economics: the Twentieth Anniversary of CORE*, proceedings of the international symposium held at Louvain-la Neuve, The M.I.T. Press, Cambridge, MA, 1989 (560 pp.) (with Bernard Cornet).



7. *Modélisation et Décisions économiques*, collection Ouvertures Economiques, De Boeck-Université, Bruxelles, 1990 (228pp.) (with Bernard Cornet).
8. Guest editor of *Journal of Productivity Analysis* vol. 10 n° 1, July 1998. (Special issue devoted to the Fourth European Workshop on Productivity and Efficiency Analysis held at CORE, November 1997).
9. *The Design of Climate Policy*, CESifo Seminar Series, The MIT Press, Cambridge, MA, 2009 396 pp. (with Roger Guesnerie).

**c) ARTICLES and chapters in collective books**

*Boldfaced items are reprinted in book #4.*

97. "COP 21 and Economic Theory: Taking Stock", *Revue d'Économie Politique* 126 (4), 471-486 (2016).
96. "Climate policies: a burden, or a gain?", *The Energy Journal* 36, (3), (2015) (with Thierry Bréchet).
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