

François Diaz-Maurin, Ph.D.

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Summary

I am a researcher, engineer and consultant specialized in multi-scale integrated analysis, multi-criteria evaluation methods for decision support, and uncertainty management. I have gained over 15 years of international experience in scientific and strategic advice as well as in industrial and academic research. My main areas of expertise are energy and nuclear technologies, radioactive waste management, and geological systems and infrastructures.

I have been trained in civil engineering (B.Sc./M.Sc., University of Rennes 1, 2004/2007, both with distinction), environmental and sustainability sciences (Ph.D., Universitat Autònoma de Barcelona, 2013, *summa cum laude*), and nuclear materials, geochemistry of radionuclides and nuclear security (postdoctoral training, Stanford University, 2017–2019). Before starting my Ph.D. in February 2011, I worked 4 years as a structural and mechanical engineer on various major R&D projects in the nuclear industry in France (construction of EDF's EPR nuclear reactor in Flamanville at Setec TPI, Paris) and the United States (design of US EPR at Areva NP, Boston, MA and Hanford Vitrification Plant at Areva Federal Services, Boston, MA). From August 2017 to July 2019, I was a MacArthur Nuclear Security Visiting Scholar at the Center for International Security and Cooperation (CISAC), Stanford University in California, United States and, from August 2019 to July 2020, I was a European Commission's Marie Skłodowska-Curie Fellow and senior consultant at Amphos 21 Consulting S.L. in Barcelona.

I am now an independent researcher and consultant at Decidia Research & Consulting in Barcelona, Spain, as well as a research associate in the Geotechnical Engineering & Geosciences (ETCG) group of the Department of Civil and Environmental Engineering (DECA) at the Universitat Politècnica de Catalunya (UPC) – BarcelonaTech in Spain and a network affiliate at Stanford University's CISAC.

Besides research and consulting, I am a classical music lover and an amateur cellist.

Researcher's identification number

Google Scholar: [KujtoMQAAAAJ](#)

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Web of Science ResearcherID: [ABD-9871-2020/](#)

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Current Positions

Researcher & Consultant, Decidia Research & Consulting, Barcelona (Spain), 2020–

Research Associate, Geotechnical Engineering & Geosciences group, UPC–BarcelonaTech (Spain), 2021–

Network Affiliate, CISAC, Stanford University, CA (USA), 2019–

Previous Positions

Marie Skłodowska-Curie Fellow and Senior Consultant, Amphos 21 Consulting S.L. (Spain), 2019–2020

MacArthur Nuclear Security Visiting Scholar, CISAC, Stanford University (USA), 2017–2019

Postdoctoral Research Fellow, Department of Humanities, Universitat Pompeu Fabra (Spain), 2016–2017

Postdoctoral Research Fellow, Institute of Environmental Science and Technology (ICTA), Universitat Autònoma de Barcelona (Spain), 2013–2016

Ph.D. Candidate, ICTA, Universitat Autònoma de Barcelona (Spain), 2011–2013

Mechanical Engineer, AREVA Federal Services LLC (AFS), Boston, MA (USA), 2010

Structural Engineer, AREVA Inc. North America, Boston, MA (USA), 2009

Structural Engineer, SETEC Travaux Publics & Industriels (TPI), Paris (France), 2007–2008

Education

Ph.D. in Environmental Science and Technology (*Summa Cum Laude*), ICTA, Universitat Autònoma de Barcelona (Spain), Feb. 2011–Oct. 2013

Dissertation: The Viability and Desirability of Alternative Energy Sources: Exploring the Controversy over Nuclear Power.

Advisors: ICREA Research Prof. Mario Giampietro and Prof. Jesús Ramos Martín. The dissertation received the “Extraordinary Ph.D.” Award from the Universitat Autònoma de Barcelona in June 2017.

M.Sc. Degree in Civil Engineering (First class honors with Distinction), Department of Civil Engineering, INSA Graduate School, University of Rennes 1 (France), Sep. 2004–Jun. 2007
Dissertation: Soil-Structure Interaction of a Nuclear Reactor Building at the Flamanville EPR Power Plant. Advisors: Dr. Michel Kahan, CEO, Setec TPI, Paris, France and Prof. Samy Guezouli, Structural Engineering Research Group, INSA Graduate School, University of Rennes 1, France.

B.Sc. Degree in Civil Engineering (First class honors with Distinction), Department of Civil Engineering, University of Rennes 1 (France), Sep. 2002–Jun. 2004

Language Skills

I read, write and speak fluently four languages: French, English, Spanish, and Catalan.

Awards, Mentions and Distinctions

Accreditation of research, issued by the Catalan University Quality Assurance Agency (AQU), 2019

MEP-Scientist Pairing Scheme, European Parliament, 2017–

Among the 15 MSCA Fellows selected by the European Commission's Joint Research Center (JRC) to be part of the MEP-Scientist Pairing Scheme which aims at establishing a long-term, cooperation between Members of the European Parliament and 85 European researchers. I was among the 18 MEP-Scientist pairs established in 2017.

“Extraordinary Ph.D.” Award, UAB, 2017

Received from the School for Doctoral Studies together with the UAB Alumni Association of the Universitat Autònoma de Barcelona. The award consists of a competitive call among the researchers whose doctoral thesis received the qualification of excellence “Cum Laude” from the tribunal.

ELEEP Founding Member, Emerging Leaders in Environmental and Energy Policy (ELEEP), 2011–2014
Organized by the Atlantic Council (Washington DC, USA) and the Ecologic Institute (Berlin, Germany)

“Synergy in Education” Award (shared with ICREA Research Prof. Mario Giampietro), 2011

Received from the Board of Trustees of the Universitat Autònoma de Barcelona for our project “Our Energy Futures” with 11 Catalan high-schools. The jury has valued the originality in the project's approach, the current nature of the subject matter, as well as the impact of the project's results and dissemination through a dedicated web platform.

Consulting and Scientific Advising Experience

Senior consultant, Amphos 21 Consulting S.L., Barcelona (Spain), 2019–2020

Client: ORANO, France.

Scientific advisor, Benedek Jávör, Member of the European Parliament, Hungary, 2017–2019 (Pro bono)

Scientific advisor, David M. Klaus, former Deputy Under Secretary for Management and Performance at the U.S. Department of Energy. 2018–2019 (Pro bono)

Scientific advisor, Andrés Arauz, Vice Minister of Planning and Development for Well Living at the Ecuadorian Ministry for Planning and Development (SENPLADES). 2013–2014 (Contracted)

Scientific advisor, Olivier Dubois, Leader Energy Team of the Climate, Energy and Tenure Division (NRC) of the Food and Agriculture Organization of the United Nations (FAO), Rome. 2012–2013 (Contracted)

Consultant, Liphe4 Scientific Association, Barcelona (Spain), 2012–2016

Clients: UN Food and Agriculture Organization (FAO); German Federal Enterprise for International Cooperation (GIZ); Government of Ecuador.

Industrial R&D Experience

Mechanical Engineer, AREVA Federal Services LLC (AFS), Boston, MA (USA), Jan.–Nov. 2010

Project: Hanford Vitrification Plant (Hanford Site, WA), the world's largest radioactive waste treatment plant, used for vitrifying Hanford's tank waste for the U.S. Department of Energy (DOE)

Structural Engineer, AREVA Inc. North America, Boston, MA, USA, Jan.–Dec. 2009

Project: Civil/structural engineering support to the Probabilistic Risk Assessment unit for the Design Certification Licensing of the US EPR™, a generation III+ nuclear reactor, by the Nuclear Regulatory Commission (NRC)

Structural Engineer and Assistant to the Project Director, SETEC Travaux Publics & Industriels (TPI), Paris (France), Feb. 2007–Dec. 2008

Project: Structural design for BOUYGUES Construction of the reactor buildings of the EPR™ generation III+ nuclear power plant under construction in France (Flamanville3) for Electricité de France (EDF) (Taken part in the supervision team (5 pers.) to manage 150 pers., 5000 drawings, €11 million)

Academic Research Experience

Principal Investigator, ENTRUST, “Building Trust in Nuclear Waste Management through Participatory Quantitative Story Telling”, 2017–2020 (Web: <http://www.fdiazmaurin.eu/projects/entrust/>)

Project: The research project is coordinated by Amphos21 Consulting S.L. located in Barcelona, Spain, in collaboration with Stanford University’s Center for International Security and Cooperation (CISAC). It seeks to develop a new approach to the long-term management of the growing stocks of spent nuclear fuel (SNF) and high-level radioactive waste (HLW) produced at commercial power plants in a context of uncertain transitions and persisting societal concerns over nuclear energy technologies.

Postdoctoral Research Fellow, HoNESt, “History of Nuclear Energy and Society”, 2016–2017

Project: Under the H2020-Euratom program “Nuclear developments and interaction with society” funded by the European Commission (NFRP-12-2015). HoNESt is an interdisciplinary research project on the experience of nuclear developments and its relationship to contemporary society with the aim of improving the understanding of the dynamics over the last 60 years.

Project Manager and Postdoctoral Research Fellow, PARTICIPIA, “Participatory Integrated Assessment of Energy Systems to promote Energy Access and Efficiency”, 2013–2016

Project: Under the ACP-EU Co-operation Program in Higher Education (EDULINK II) funded by EuropAid and coordinated by the European Commission.

Postdoctoral Research Fellow, NETEP, “European-Brazilian Network on Energy Planning”, 2014–2016

Project: Under the Marie Curie Action IRSES funded by the European Commission (FP7-PEOPLE-2013-IRSES). NETEP is an exchange program for interdisciplinary research and knowledge transfer on energy planning bringing together partners from Portugal, UK, Spain and Brazil.

Predoctoral Research Fellow, German GIZ-funded Nexus Assessment project, 2012–2013

Project: Application of MuSIASEM approach to three cases in the agrifood sector, commissioned by the Energy Team of the Climate, Energy and Tenure Division (NRC) of the UN Food and Agriculture Organization (FAO) and sponsored by the German Federal Enterprise for International Cooperation (GIZ).

Teaching Experience (selected)

Instructor, **Department of Geological Sciences, Stanford University**, Winter 2018/2019

Course: “Managing Nuclear Waste: Technical, Political and Organizational Challenges” (GEOLSCI 266, Geological Sciences and INTLPOL 266, International Policy). I designed and taught the course around my research lines with the support and advice of Prof. Rodney C. Ewing. (30 contact hours, 7 graduate students)

Lecturer, **ICTA, Universitat Autònoma de Barcelona (Spain)**, 2014–2015 and 2015–2016

Course: “Interdisciplinary Concepts on Environmental, Economic and Social Sustainability” (43068-M1). (15 ECTS, 50–55 graduate students)

Publications (selected)

In preparation

The socio-technical multi-criteria evaluation (STMCE) method for radioactive waste management strategies: From the U.S. experience to other applications. With R.C. Ewing

Publications in international journals

- [38] **Diaz-Maurin, F.**, J. Yu, and R.C. Ewing (2021). Socio-technical multi-criteria evaluation of long-term spent nuclear fuel management strategies: A framework and method. *Science of the Total Environment*, 777(C), 146086. doi: [10.1016/j.scitotenv.2021.146086](https://doi.org/10.1016/j.scitotenv.2021.146086).
- [37] **Diaz-Maurin, F.** and R.C. Ewing (2020). Integration of the Back-end of the Nuclear Fuel Cycle: An Overview. *MRS Advances* 5(5–6), 253–264. doi: [10.1557/adv.2020.101](https://doi.org/10.1557/adv.2020.101).
- [36] **Diaz-Maurin, F.** and R.C. Ewing (2019). Probabilistic Performance Assessment vs. the Safety Case Approach. *MRS Advances* 4, 987–992. doi: [10.1557/adv.2018.636](https://doi.org/10.1557/adv.2018.636).
- [35] **Diaz-Maurin, F.**, H.C. Sun, J. Yu, and R.C. Ewing (2019). Evolution and Structure of the Scientific Basis for Nuclear Waste Management. *MRS Advances* 4, 959–964. doi: [10.1557/adv.218.681](https://doi.org/10.1557/adv.218.681).

- [34] **Diaz-Maurin, F.** and R.C. Ewing (2018). Mission Impossible? Socio-technical Integration of Nuclear Waste Geological Disposal Systems. *Sustainability* 10(12): 4390. doi: [10.3390/su10124390](https://doi.org/10.3390/su10124390).
- [33] **Diaz-Maurin, F.** (2018). Chronic long-term risk of low-level radiation exposure: Bridging the lay-expert divide. *Bulletin of the Atomic Scientists* 74(5): 335–339. doi: [10.1080/00963402.2018.1507792](https://doi.org/10.1080/00963402.2018.1507792).
- [32] **Diaz-Maurin, F.,** Z. Chiguvare, and G. Gope (2018). Scarcity in abundance: the challenges of promoting energy access in the Southern African region. *Energy Policy* 120, 110–120. doi: [10.1016/j.enpol.2018.05.023](https://doi.org/10.1016/j.enpol.2018.05.023).
- [31] Kiravu C.*, **F. Diaz-Maurin***, M. Giampietro, A.C. Brent, S.G.F. Bukkens, Z. Chiguvare, A.M. Gasennelwe-Jeffrey, G. Gope, Z. Kovacic, L. Magole, J.K. Musango, U. Ruiz-Rivas Hernando, S. Smith, A. Vázquez Barquero, and F. Yunta Mezquita (2018). Proposing a Master's Programme on Participatory Integrated Assessment of Energy Systems to Promote Energy Access and Energy Efficiency in Southern Africa. *International Journal of Sustainability in Higher Education* 19(3), 622–641. doi: [10.1108/IJSHE-04-2017-0048](https://doi.org/10.1108/IJSHE-04-2017-0048).
- * C.K. and F.D.M. contributed equally to this work as first authors.
- [30] **Diaz-Maurin, F.** (2016). Power capacity: A key element in sustainability assessment. *Ecological Indicators* 66(C), 467–480. doi: [10.1016/j.ecolind.2016.01.044](https://doi.org/10.1016/j.ecolind.2016.01.044).
- [29] **Diaz-Maurin, F.** and Z. Kovacic (2015). The unresolved controversy over nuclear power: a new approach from complexity theory. *Global Environmental Change* 31, 207–216. doi: [10.1016/j.gloenvcha.2015.01.014](https://doi.org/10.1016/j.gloenvcha.2015.01.014).
- [28] **Diaz-Maurin, F.** (2014). Going beyond the nuclear controversy. *Environmental Science & Technology* 48(1), 25–26. doi: [10.1021/es405282z](https://doi.org/10.1021/es405282z).
- [27] **Diaz-Maurin, F.** and M. Giampietro (2013). A “grammar” for assessing the performance of power-supply systems: comparing nuclear energy to fossil energy. *Energy* 49, 162–177. doi: [10.1016/j.energy.2012.11.014](https://doi.org/10.1016/j.energy.2012.11.014).
- [26] **Diaz-Maurin, F.** (2013). “Towards an Integrated Paradigm in Heterodox Economics: Alternative Approaches to the Current Eco-social Crises”, Julien-François Gerber, Rolf Steppacher (Eds.). Palgrave Macmillan, London (2012). *Ecological Economics* 88c, 178–179. doi: [10.1016/j.ecolecon.2013.01.002](https://doi.org/10.1016/j.ecolecon.2013.01.002).
- [25] **Diaz-Maurin, F.** (2010). “Farewell to Growth” by Serge Latouche, Polity Press, 2010, 180pp, ISBN: 0745646174. *Sustainability: Science, Practice, & Policy* 6(2), 77–78. doi: [10.1080/15487733.2010.11908056](https://doi.org/10.1080/15487733.2010.11908056).

Book chapters

- [24] Bruno, J.*, L. Duro*, & **F. Diaz-Maurin*** (2020). Spent fuel storage and disposal. In: Piro M. (Ed.), *Advances in Nuclear Fuel Chemistry 1st Edition* (pp. 527–553). Woodhead Publishing. doi: [10.1016/B978-0-08-102571-0.00014-8](https://doi.org/10.1016/B978-0-08-102571-0.00014-8).
- * J.B., L.D. and F.D.M. contributed equally to this work as first authors.
- [23] Giampietro, M., & **F. Diaz-Maurin** (2014). The Energy Grammar. In Giampietro, M. et al. (Eds.), *Resource Accounting for Sustainability: The Nexus between Energy, Food, Water and Land Use* (pp. 90–115). London: Routledge. ISBN: [978-0-415-72059-5](https://doi.org/978-0-415-72059-5).
- [22] Serrano-Tovar T., J. Cadillo Benalcazar, **F. Diaz-Maurin**, Z. Kovacic, C. Madrid, M. Giampietro, R.J. Aspinall, J. Ramos-Martin, & S. Bukkens (2014). The Republic of Mauritius. In Giampietro, M. et al. (Eds.), *Resource Accounting for Sustainability: The Nexus between Energy, Food, Water and Land Use* (pp. 163–180). London: Routledge. ISBN: [978-0-415-72059-5](https://doi.org/978-0-415-72059-5).
- [21] Madrid-Lopez, C., J. Cadillo-Benalcazar, **F. Diaz-Maurin**, Z. Kovacic, T. Serrano-Tovar, T. Gomiero, M. Giampietro, R.J. Aspinall, J. Ramos-Martin, & S. Bukkens (2014). Punjab State. In Giampietro, M. et al. (Eds.), *Resource Accounting for Sustainability: The Nexus between Energy, Food, Water and Land Use* (pp. 181–193). London: Routledge. ISBN: [978-0-415-72059-5](https://doi.org/978-0-415-72059-5).
- [20] **Diaz-Maurin, F.,** J. Cadillo Benalcazar, Z. Kovacic, C. Madrid, T. Serrano-Tovar, M. Giampietro, R.J. Aspinall, & J. Ramos-Martin (2014). The Republic of South Africa. In Giampietro, M. et al. (Eds.), *Resource Accounting for Sustainability: The Nexus between Energy, Food, Water and Land Use* (pp. 194–213). London: Routledge. ISBN: [978-0-415-72059-5](https://doi.org/978-0-415-72059-5).
- [19] **Diaz-Maurin, F.,** & M. Giampietro (2013). Complex Systems and Energy. In *Reference Module in Earth Systems and Environmental Sciences*. Elsevier. doi: [10.1016/B978-0-12-409548-9.01549-9](https://doi.org/10.1016/B978-0-12-409548-9.01549-9).

Conferences, Workshops and Invited Talks (selected)

- [--] “A socio-technical multi-criteria evaluation method for comparison of nuclear waste repositories in different geologic settings”. With R.C. Ewing. **3rd DAEF Conference on Key Topics in Deep Geological Disposal (Cologne, Germany)**. Organized by the German association for repository research (DAEF). Postponed to 21–23 March 2022. Oral presentation (first author). Submitted.
- [40] “The socio-technical multi-criteria evaluation (STMCE) method for radioactive waste management strategies: From the U.S. experience to other applications”. With R.C. Ewing. **International Conference on Radioactive Waste Management. International Atomic Energy Agency (Vienna, Austria)**. 1-5 November 2021. Poster presentation (first author). Accepted.
- [39] “Intégration sociotechnique des systèmes de stockage géologique des déchets radioactifs : mission impossible ?” **Colloque café-scientifique organized by the Subatech laboratory – UMR 6457 (Nantes, France)**. 12 December 2020. Invited talk (virtual). Invited by B. Grambow (Subatech).
- [--] **DECOVALEX Coupled Processes Symposium 2019. University of Applied Sciences and Arts Northwestern Switzerland. (Brugg-Windisch, Switzerland)**. 4–5 November 2019. (No contribution)
- [38] “Integration of the Back-end of the Nuclear Fuel Cycle: An Overview”. With R.C. Ewing. **43rd Symposium on the Scientific Basis for Nuclear Waste Management. Materials Research Society and International Atomic Energy Agency (Vienna, Austria)**. 21–24 October 2019. Invited oral presentation (first author).
- [37] “Multi-scale, multi-criteria evaluation of nuclear waste repositories in different geologic settings”. With R.C. Ewing. **Goldschmidt Annual International Conference. Geochemical Society and European Association of Geochemistry (Barcelona, Spain)**. 18–23 August 2019. Poster presentation (first author). Session: 05o: Geochemical and Mineralogical Investigations Relevant to The Nuclear Fuel Cycle: Insights from Experiment, Theory, and Modelling. Chairs: R. Tinnacher (California State University East Bay), J. Luetzenkirchen (Karlsruhe Institute of Technology), F. Heberling (Karlsruhe Institute of Technology), D. Sassani (Sandia National Laboratories).
- [36] “Integration of the Back-end of the Nuclear Fuel Cycle: An Overview”. **Office of National Security and International Studies, Los Alamos Laboratory (Los Alamos, New Mexico)**. 15 May 2019. Invited talk.
- [35] “Multi-scale, multi-criteria evaluation of nuclear waste repositories in different geologic settings”. **Center for Global Security & Cooperation, Sandia National Laboratories (Albuquerque, New Mexico)**. 14 May 2019. Invited talk.
- [--] **Workshop on Recent Advances in Repository Science and Operations from International Underground Research Laboratory Collaborations, U.S. Nuclear Waste Technical Review Board (NWTRB). (Burlingame, CA)**. 24–25 April 2019. (No contribution)
- [34] “What Has Been the Evolution and Structure of the Scientific Basis for Nuclear Waste Management?”. With H.C. Sun, J. Yu, and R.C. Ewing. **42nd Symposium on the Scientific Basis for Nuclear Waste Management, 2018 MRS Fall Meeting and Exhibit of the Materials Research Society (Boston, MA)**. 25–30 November 2018. Oral presentation (first author). Session: ET15.01 – Perspectives on Strategy, Risk and Uncertainty in Radioactive Waste Management. Chairs: John McCloy (Washington State University, USA) and Wooyong Um (Pohang University of Science and Technology, South Korea)
- [33] “Uncertainty in Safety Assessments of Geological Repositories—Quantitative Performance Assessment vs the Safety Case Approach”. With R.C. Ewing. **42nd Symposium on the Scientific Basis for Nuclear Waste Management, 2018 MRS Fall Meeting and Exhibit of the Materials Research Society (Boston, MA)**. 25–30 November 2018. Oral presentation (first author). Session: ET15.01 – Perspectives on Strategy, Risk and Uncertainty in Radioactive Waste Management. Chairs: John McCloy (Washington State University, USA) and Wooyong Um (Pohang University of Science and Technology, South Korea)
- [--] **Goldschmidt Annual International Conference. Geochemical Society and European Association of Geochemistry (Boston, MA)**. 12–17 August 2018. (No contribution)
- [32] “Trust and the Ethical Imperative of the U.S. Nuclear Waste Management Program”. **International Studies Association (ISA) Annual Convention 2018 (San Francisco, CA, USA)**. 4–7 April 2018. Oral presentation. Chair: Scott Sagan (Stanford University). Discussant: Steve Miller (Harvard Kennedy School).

- [31] “The Use of Complexity in Sustainability Assessment: Origins, Principles and Applications”. **Energy Systems and Modeling Group (ESMG), School of Earth, Energy & Environmental Sciences, Stanford University (USA)**. 7 February 2018. Oral presentation. Invited by Prof. Sally Benson (Stanford University).
- [30] “A New Perspective on Nuclear Waste Management: Facing the Technical and Social Challenges of a Complex Science-Policy Issue”. **CISAC Science Seminar series, Center for International Security and Cooperation (CISAC), Stanford University (USA)**. 4 December 2017. Oral presentation. Invited by Prof. Rodney C. Ewing (Stanford University).
- [29] “Building trust in nuclear waste management through participatory quantitative story telling”. **Science Meets Parliament and “Brussels Week”, Science and Technology Options Assessment (STOA), European Parliament (Brussels, Belgium)**. 28–30 November 2017. Oral presentation. Invited by Wolfgang Hiller (European Parliament)
- [28] “The Use of Complexity in Sustainability Assessment: Origins, Principles and Applications”. **Stanford Complexity Symposium, Stanford University (USA)**. 14 November 2017. Oral presentation.
- [27] “Building trust in the scientific basis for long-term nuclear waste management through quantitative story telling”. **3rd International Conference on Risk Perception, Communication and Ethics of Exposures to Ionising Radiation (RICOMET), International Atomic Energy Agency (IAEA) (Vienna, Austria)**. 27–29 June 2017. Oral presentation. Session: Social and ethical aspects in, and of, long-term exposure situations. Chairs: Pascal Crouail (CEPN, France), Michiel Van Oudhesden (SCK-CEN, Belgium) and Marie Simon Cornu (IRSN, France)

Scientific Societies and Professional Affiliations

Active member: American Nuclear Society (ANS), Materials Research Society (MRS), European Association of Geochemistry (EAG), European Geosciences Union (EGU), European Association for the Study of Science and Technology (EASST)

Alumni: Emerging Leaders in Environmental and Energy Policy (ELEEP), Marie Curie Alumni Association (MCAA), Association INSA Alumni Rennes (France)

Past member: Liphe4 Scientific Association (Barcelona, Spain), International Society for Ecological Economics (ISEE)

References available upon request.