



Sen. Patty L'Abbate

Ecological Economist, PhD

Curriculum Vitae

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EDUCATION AND TRAINING

2015: **PhD International in “ The Economics and Management of Natural Resources, XXVI Cycle**, final grade: outstanding with honor, LUM Jean Monnet University, Italy.

1 September-1 December 2013: **Visiting Researcher** c/o CML - Faculty of Science - Leiden University, The Netherlands. Advanced Course on Life Cycle Assessment.

Master’ s degree of Sustainable Development and Management of Territory. University of Pisa, faculty of Economics. Awarded December 2, 2010 with 110/110 cum laude.

Thesis in Ecological Economics : “The relationship between economy and nature through the lens of accounting in physical terms.”

Bachelor degree of Environmental Economics. University of Bari, Faculty of Economics and Commerce, 2009.

Master: Environmental economics and instrument for sustainable development, Institute of management studies CEIDA,2008. “Environmental accounting, matrix NAMEA, the method CLEAR”.

Bachelor degree of Business Administration. University of Bari .

RINA INDUSTRY, course for ISO 14000 and Environmental Management Systems (EMS). Tecnopolis, Bari. Solution Quality srl, ISO 9000 Course, "Auditors of Quality Management Systems", Bari.

ABAP Association of Biological Environmentalists of Puglia BARI, Corso di aggiornamento teorico/pratico di 40 ore sui “Processi di depurazione e implicazioni igienico/sanitarie.

Chemical Expert, ITIS Luigi Dell’Erba Castellana Grotte 56/60

Summer school

10-14 July 2017: International Summer LIPHE4, A Critical Appraisal of Current Narratives of Sustainability through Quantitative Storytelling , University of Naples Federico II, Naples, Italy.

7-11 July 2014: International Summer School 3rd edition "Life-Cycle Approaches to Sustainable Regional Development", Social Life Cycle Assessment, University Salento , S. Maria di Leuca, Italy.

8-12 July 2013: International Summer School 2nd edition "Life-Cycle Approaches to Sustainable Regional Development", University Salento , S. Maria di Leuca, Italy.

28-31 August 2012: International Summer School "Life-Cycle Approaches to Sustainable Regional Development", University Salento , Lecce, Italy.

12-15 July 2012: Scuola estiva Eco-giornalista "Ambiente e legalità", Legambiente e La Nuova Ecologia, Pollica Italia.

11-17 June 2011: Summer School on Ecological Economics at Bogazici University, Istanbul. International Conference on Ecological Economics ESEE 2011. Methods and tools for moving towards sustainable development and to improved management of natural resources.

21-26 June 2011: Summer School in Antropologia Applicata presso Studi Jacques Maritain Center di Portogruaro, Venezia, Italia. Studio della società contemporanea, la gestione dei ritmi di vita

24-27 July 2009: Summer school: "Conoscere la finanza per cambiare il sistema", Riccardo Petrella Università del bene comune.

MEMBER ASSOCIATION

Member of ISEE/ESEE (International Society for Ecological Economics)

Member Rete Italiana Life Cycle Assessment: Working Group Energy and Sustainable Technologies and Working Group Social LCA.

Member of Covenant of Mayors

CONFERENCES

9 -13 December 2019: COP 25 MADRID, United Nations Climate Change Conference, In representation of the Senate of the Italian Republic, Spain.

3-14 June 2019: XIII Convegno della Rete Italiana LCA,, " Il Life Cycle Thinking a supporto delle strategie di mitigazione e adattamento ai cambiamenti climatici", Università degli Studi Roma Tre, Dipartimento di Economia Aziendale, Roma. P. L'Abbate "Carne coltivata in laboratorio e climate change:un'analisi critica."

11-14 December 2018 : COP 24 CATOWICE, United Nations Climate Change Conference, In representation of the Senate of the Italian Republic, Poland.

17-18 October, 2018: 50Th Anniversary Conference of The Club of Rome, In representation of the Senate of the Italian Republic, Roma.

11-12 June 2018: The 12th Italian LCA Network Conference, Life Cycle Thinking in decision-making for sustainability: from public policies to private businesses, University of Messina, Department of Economics, Messina (Italy)

7-10 November 2018: ECOMONDO Green & Circular Economy, Stati Generali della Green Economy: Green Economy e nuova occupazione. Le priorità per il rilancio dell'Italia; Le priorità della green Economy per XIII legislatura, evento di apertura., Rimini, Italy, In representation of the Senate of the Italian Republic

8 November 2016: ECOMONDO Efficient circular industry, *Carbon footprint in the management of operations of emergency for disasters flood: case study Apulia Region*, Pasqua L'Abbate , Michele Dassisti. Rimini, Italy.

30 August 2 September 2016: 5th International Degrowth Conference, *Can technologies help to reduce the physical and human degradation, in transition towards a degrowth society?*, Pasqua L'Abbate , Maurizio Pallante, Michele Dassisti, Budapest, Hungary.

6 November 2015: ECOMONDO Eco-innovation, Ecological footprint, ENEA, CTS Ecomondo, *Sensitivity analysis of the hot spot in the production of polyester outer cover for mattresses*, Pasqua L'Abbate , Michele Dassisti, Giulio Mario Cappelletti, Giuseppe Martino Nicoletti, Carlo Russo, Rimini, Italy.

6 November 2014: ECOMONDO Eco-innovation ,Tools for evaluating the sustainability of products/ processes: Environmental and Social LCA, Life Cycle Costing, Environmental Footprint, Carbon and Water Footprint, Emergy, MFA, *Comparative LCA of the products of the textile chain. Case study Apulia Stretch*. L'Abbate P. , De Koning A., Dassisti M., Rimini, Italy.

3 October -2 November 2014: 4nd International Symposium on Environmental and Material Flow Management, “EMFM 2014“, *Life cycle assessment of polyester fabric. Italian case study*, L'Abbate P., Dassisti M., Belgrade, Serbia.

30-31 May 2013: 3rd ISNRM International symposium Natural resources management, *Evolution of the instrument: physical units input/output analysis to the management of natural resources*, L'Abbate P., Megatrend University, Faculty of Management Zajegar, Serbia.

16-19 June 2012: Conference ISEE “Ecological Economics and Rio+20 Challenges and Contributions for a Green Economy”, *Public attitudes vs. institutional frameworks in the diffusion of wind energy: evidence from the literature and from an Italian case study*, L'Abbate P., Luzzati T., Rio de Janeiro, Brasil.

07-09 June 2012: EMFM2012, International Symposium on Environmental and Material Flow Management, University of Zenica (Serbia),University of Belgrade(Bosnia), University of Applied Sciences Trier(Germany), in Zenica, Bosnia. *Material flow management evolution of the analysis of input/output in physical units*, L'Abbate P.

20-27 November 2011: Megatrend University Beograd, Serbia. International Scientific Conference “ Serbia Facing the Challenges of Globalization and Sustainable Development.

19-22 October 2010: UAB , UNIVERSITAT AUTONOMA DE BARCELONA, ICTA(Institute of environmental science of technology). International Workshop Barcelona, “ Advances in energy studies 2010, can we break the addiction to fossil energy?” Organized by the ESEE(European Society for Ecological Economics).

PUBLICATIONS

R. Arbolino, T. Yigitcanlar, P. L'Abbate, G. Ioppolo, Effective growth policymaking: Estimating provincial territorial development potentials, *Land Use Policy* 86 (2019) 313–321

P.L'Abbate, M. Dassisti, A.G.Olabi, (2018), *Small-Size vanadium redox Flow batteries:An Environmental Sustainability Analysis via LCA*; In R.Basosi, M. Cellura, S. Iongo, M.L. Parisi: Life Cycle Assessment of Energy Systems and Sustainable Energy Technologies, pp 61-78, Springer.

L'Abbate P., Dassisti M., Cappelletti G. M., Nicoletti G.M., Russo C., Ioppolo G., *Environmental analysis of polyester fabric for ticking*, *Journal of Cleaner Production* 172 (2018) 735 e 742

Pasqua L'Abbate, F. Manfredi, Assessment of the Environmental Impact an Italian textile product with the LCA method, XXV Scientific and Professional Meeting "ECOLOGICAL TRUTH" ECO-IST'17, 12-15 June 2017, Vrnjacka Banja, Serbia, ISBN 978-86-6305-062-4.

Pasqua L'Abbate, Sustainability analysis of a photovoltaic panel recovery process, XXV Scientific and Professional Meeting "ECOLOGICAL TRUTH" ECO-IST'17, 12-15 June 2017, Vrnjacka Banja, Serbia, ISBN 978-86-6305-062-4.

M. Dassisti, G. Cozzolino, M. Chimienti, A. Rizzuti , P. Mastrorilli , P. L'Abbate, Sustainability of vanadium re-dox-flow batteries: Benchmarking electrolyte synthesis procedures, International journal of hydrogen e-nergy , 41 (2016) 16477 e 16488.

Dassisti M., Mastrorilli P., Rizzuti A., L'Abbate P., Cozzolino G., Chimienti M., LCA of in-house produced small-sized Vanadium Redox-Flow Battery, SEEP2015, Inclusion and Resilience, the Next challenge, 28 Sept-1 Oct. 2015, Virginia, USA.

L'Abbate P., Laureti L., Public attitudes vs. institutional frameworks in the diffusion of wind energy: eviden-ce from the literature and from an Italian case study , XXI Scientific and Professional Meeting "ECO-LOGICAL TRUTH" ECO-IST'13, 04-07 June 2013 ISBN 978-86-6305-007-5. 4

L'Abbate P., Evolution of the instrument: physical units input/output analysis to the management of natural re-sources, ISNRM Third International Symposium on Natural Resources Management, 30-31 May 2013, ISBN: 978-86-7747-486-7

L'Abbate P., Evolution of the 'analysis of input/output in physical units, XX International Scientific and Professional Meeting "ECOLOGICAL TRUTH" ECO-IST'12, 30 May-2 June 2012. ISBN 978-86-80987-98-9.

L'Abbate P. , Material flow management; the I/O Tables and their applications. Conference in Sibiu, Alma Mater University, "Challenges for Science and Research in the Crisis Era"29-31March 2012. ISSN 2065-2372.

L'Abbate P. ,2011, Environmental accounting, with physical flow analysis tool: PIOTs (Physical Input - Output tables). 19th Int. Scientific and Professional Meeting "ECOLOGICAL TRUTH" Eco-Ist'11 , Bor, SERBIA, 01 – 04 Ju-ne 2011. ISBN 978-86-80987-84-2.

L'Abbate P., Lagioia M., 2009, Uno strumento per la contabilità fisica: Le Physical input-output tables, Economia e Ambiente N.6 Nov-Dic 2009 ISSN 1593-9499.

Petruzzelli D., Notarnicola M., A. Dell'Erba, L'Abbate P., pre-trattamento del percolato di discarica industriale per ossidazione di Fenton, globale NEST Journal, vol. 9, n ° 1, pp 51-56, 2007.

D. Petruzzelli, G. Boghetich, M. Putrella, A. Dell'Erba, P. L'Abbate, S.Sanarica, "ossidazione avanzata come pre-trattamento del percolato di discarica industriale", Conferenza Internazionale sulla Scienza e

Tecnologia Ambientale, 9 ° Conf .. su "Environmental Science and Technology" di Rodi, in Grecia, Sept.1-3,2005, p.B723-728.

Petruzzelli D., Notarnicola M., Dell'Erba A., L'Abbate P., "recupero coagulanti dal chiarificatore acqua fanghi. Proc. Int. Conferenza CIWEM su "Gestione di Wasters dal trattamento dell'acqua potabile", Proc. Int. Conferenza CIWEM su "Gestione dei rifiuti da trattamento dell'acqua potabile". Londra, Regno Unito, Sept.12-13,2002. p.205-209.

Petruzzelli D., De Florio L., Dell'Erba A., Notarnicola M., L. Liberti, L'Abbate P., Un Nuovo Materiale adsorbente selettivo per la rimozione degli Ioni fosfato Dalle Acque reflue. Proc. 6° Congresso Nazionale AIMAT, Modena, 8-11 Settembre 2002, p.160

EMPLOYMENT

2018-2020: Senator of the Italian Republic, Movimento 5 stelle group, XVIII legislature. Group leader 13rd Standing Committee (Territory, Environment, Environmental Assets) and Parliamentary committee for general guidance and supervision of radio and television services.

2012-2018: Teaching Assistant and Tutor in Economic Policy, University of Bari, Faculty Political Science.

2014-2018: Teaching assistant and tutor : Continuous improvement of sustainable processes. Faculty of Engineering Management, Polytechnic of Bari.

9 June 2017: Professor at the Seminar: *Natural Resource and environmental economics*, University Tirana, Faculty of Economics.

2017: Co-tutor in Management of industrial production thesis: *Valutazione economic-ambientale dei processi innovative di bonifica dell'amianto: il caso ex Firbonet*

2017: Co-tutor in Management engineering thesis: *Analisi statistica della sensitività del LCA*, Polytechnic of Bari.

2017: Co-tutor in Management engineering thesis: *Analisi della qualità dei dati di LCA*, Polytechnic of Bari.

2016: Co-tutor in Management engineering thesis: *Comparative LCA of material recovery processes (silicon) by a photovoltaic panel at the end of life*, Polytechnic of Bari.

2015: Co-tutor in Merceologia, thesis: *L'Economia della Decrescita: il ruolo delle risorse naturali*, Dipartimento di economia, Università degli Studi di Foggia

2014-2015 : Professor Master Excellere: *Continuous improvement and innovation of sustainability processes*, Faculty of Engineering Management, Polytechnic of Bari.

2015 :Lecturer Summer School , *Bioeconomy and Circular Economy*, Energia Buona e Giusta, Centro Ricerche Creta, Faculty of Economics, University of Pisa, Italy.

2015: Co-tutor in Management engineering thesis: *LCA of Fluid Pump*, Polytechnic of Bari.

2012-2013: Teaching Assistant and Tutor: political economy, macroeconomics, microeconomics, prof. Dominik Salvatore, LUM University, Bari.

2013: Co-tutor Management engineering thesis: *Quality assessment of the sustainability of production processes, LCA: Energy Appia*, Polytechnic of Bari.

2012: Professor at the Seminar: *Water Management in the Green Economy, UE Blueprint Project, water footprint*, University G. D'Annunzio Chieti-Pescara, Department of Economics.

2012: Professor at the Seminar: *Management of natural resources, environmental accounting, material flow*, Department of Economics, University G. D'Annunzio Chieti-Pescara.

2001- 2009: Coordination and management of the laboratories of the Department of Engineering for the Environment and Sustainable Development. Quality Manager of the Salvati Laboratory. Politecnico di Bari.

2000: Consulting for ANSALDO Group, Gioia del Colle, Bari, Research and development of the energy sector

1997: Consulting consultant for a European project No.AVI-CT940010, “Advanced disinfection and health-care aspects of wastewater reclamation and reuse in agriculture in Mediterranean regions.”

1985 -1995: Breda group EFIM Research and development of the energy and environmental sector