

CURRICULUM VITAE
JAMES C. ARONSON

Born 1953, St. Louis, Missouri. USA
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PRESENT POSITIONS

Co-founder, Steering Committee member, Ecohealth Network (www.ecohealthglobal.org).
Emeritus senior scientist, Missouri Botanical Garden (since Sept 30, 2020).
Co-director, [ASSET Research](http://www.assetresearch.org.za)– *Africa's Search for Sound Economic Trajectories* (<http://www.assetresearch.org.za>).

ADDITIONAL POSITIONS

2002 – present: Editor-in-chief, *Science and Practice of Ecological Restoration* book series, Island Press, and the Society for Ecological Restoration (www.islandpress.org/ser).
2005 – 2020: Cofounder, Restoring Natural Capital Alliance (www.rncalliance.org) now part of the EcoHealth Network.

PREVIOUS POSITIONS and WORK EXPERIENCE

2014 - 2020: Senior Scientist, Center for Conservation and Sustainable Development, Missouri Botanical Garden, St. Louis, Missouri.
2012-2020 Board member, Society for Ecological Restoration (<http://www.ser.org/>).
1992-2016 : Restoration Ecology Group, *Centre d'Ecologie Fonctionnelle et Evolutive, Centre National de la Recherche Scientifique*, Montpellier, France.
2014-2016: Elected member, *Comité scientifique français de la désertification* (CSFD).
2011-2012: Member, Scientific Advisory Board, National Museum of Natural History, Paris.
2008-2010. Visiting professor, MSc/PhD Program in Biodiversity Conservation and Management in the Tropics. Univ. International Menendez Pelayo, Madrid & Universidad Indo-Andina, Quito, Ecuador (<http://www.uimp.es/posgrado/posgrado.html#tropicales>).
1985-1986. Interim Director, Desert Run-off Farms Unit, Hebrew Univ. of Jerusalem & Ben-Gurion University of the Negev, Israel.
1980-1987. Plant Genetic Resources Officer, Boyko Institute for Agriculture & Applied Biology, Ben-Gurion University, Beer Sheva, Israel.
1978-1979. Co-organizer, with John Maurice, of a proposed international Network of Tree Nurseries with special focus on developing countries.
1977-Jan. 1980. Field work coordinator, Flora of Peru project. Missouri Botanical Garden.
1975-1977. Research assistant, Herbarium, Ecological Services, Missouri Botanical Garden.,
1974-1975: Orchard, field crops, and greenhouse worker, Kibbutz Nahshon, Israel.

1973-1974: Kibbutz Hazorea. Studied fruit tree micro-propagation techniques with John Maurice. Subsequently (1978-1979) we attempted to create an international tree nursery network based on John's innovations in fruit and nut tree propagation for developing countries.

FORMAL EDUCATION

1969-1970 SchoolYear Abroad, Rennes, France.
1970-1971 Phillips Exeter Academy, New Hampshire. Languages, Humanities.
1971-1973 Columbia University, New York; Anthropology, biology
1975-1977 University of California, Davis; Botany, Paleobotany, Plant sciences
1978 B.Sc., Washington University in St. Louis, St. Louis, Missouri; Biology
1990 Ph.D., Hebrew Univ. of Jerusalem, Israel; Plant ecology, Biogeography
2002 *Habilitation de Diriger des Recherches (HDR)* Université de Toulouse, France

LANGUAGES

Mother tongue English. Very comfortable in French, Spanish & conversational Hebrew. Comfortable in Portuguese and Italian.

RECENT & CURRENT INVOLVEMENT IN INTERDISCIPLINARY PROGRAMS

International Scientific Advisory Board, MERCES (Marine Ecosystem Restoration in Changing European Seas), EC-funded project. 2016-present.
Occasional advisor, Atlantic Forest Restoration Pact, Brazil.
The Economics of Ecosystems and Biodiversity (TEEB), an initiative of the G8, UNEP and the European Commission (www.teebweb.org) (2009-2013).
DRIVER, Ecological Restoration of fish nurseries in coastal Mediterranean ecosystems. An initiative of Université de Perpignan, and Ecocéan, LLD (2012-2016).
Interdisciplinary Oversight Committee, GEMCADD, Pôle Mer PACA, France (2011 – 2013).
EU Action FA0901: Putting Halophytes to Work - From Genes to Ecosystems (2009-2013).

EDITORIAL BOARD MEMBERSHIP & REVIEW SERVICES

- *BioScience* (since 2015)
- *Conservation Letters* (2007-2015)
- *Restoration Ecology* (1993 to present)
- *Ecological Restoration* (2007 to present)
- *International Journal of Biodiversity, Ecosystem Services and Management* (since 2009)
- *Revista Árvore (Brazil)* (since 2010)
- *Revista CEDAMAZ (Centro de Estudios y Desarrollo de la Amazonia)* (Ecuador) (2011-2015)
- *Arid Land Research and Management* (1995-2013)
- *Ecologia Méditerranea* (2004-2014)

EXTERNAL REVIEWS

Oxford University Press, Cambridge University Press, Wiley-Blackwell, Francis & Taylor, the University of California Press, The Norwegian Foreign Aid Agency, three encyclopaedias, and peer reviewer for Science, Science Express, Nature, BioScience, Current Biology, and other scientific journals, mostly on manuscripts dealing with ecological restoration, desert and Mediterranean climate regions biogeography, landscape ecology, combatting desertification, conservation, ecosystem services, and sustainability.

PROFESSIONAL MEMBERSHIPS

- SER (Society for Ecological Restoration); Science and Policy Committee.
- SIACRE, *Sociedad Ibero-Americana y del Caribe de la Restauración Ecológica* (the Ibero-American and Caribbean Society for Ecological Restoration).

FIELD EXPERIENCE

Botanical exploration, consulting, and ecological restoration work, for over 40 years, in several dozen countries.

AWARDS AND ACCOLADES

2015. Appointed member of BioScience Editorial Board for manuscripts in restoration ecology.
2014. Le Floch, E. & J. Aronson 2013. *Les Arbres des Déserts. Enjeux et promesses*. Actes Sud, awarded the Paul Bourdarie Prize from the French *Académie des Sciences d'Outre-Mer*.
2013. ASSET Research awarded prestigious "Human Capacity Building Award" from the South African Water Resources Commission for its Restoring Natural Capital projects.
2011. A new species of Araceae, *Anthurium jamesii* Croat, endemic to Peru, dedicated in recognition of my work in applied tropical botany and ecological restoration.
2007. Soc. for Ecological Restoration's Award for "Communications in Restoration Ecology".

PUBLICATIONS

**Google Scholar ranked indices: citation records: 23,404; since 2016 – 11,807.
H-Index = 69; since 2016 = 48; i10-index = 175; since 2016 = 113.**

AUTHORED BOOKS

9. L'Enfant, P., A. Gudefin, J. Aronson, P. Boissery, S. Fonbonne, G. Lecaillon 2016. *Ecological Restoration of Fish Nurseries in Shallow Coastal Areas of the Mediterranean Basin. Guidelines and Principles*. CREM-IEEM Editions. Perpignan, France.

8. L'Enfant, P., A. Gudefin, S. Fonbonne, G. Lecaillon, E. Blin, S.M. Lourie, J. Aronson, P. Boissery, J.L. Loeuillard, A. Palmaro, G. Herrouin, J. Person 2015. *Restauration écologique des petits fonds côtiers de Méditerranée. Le cas des nurseries. Orientations et principes*. CREM-IEEM Editions, Perpignan (In French). 95p.
7. Le Floc'h, E. & J. Aronson 2013. *Les Arbres des Déserts. Enjeux et promesses*. Actes Sud, Arles, France.
6. Clewell, A. F. & J. Aronson 2013. *Ecological Restoration: Principles, Values, and Structure of an Emerging Profession*. 2nd Ed. Island Press, Washington, D.C.
5. Blondel, J., J. Aronson, J.-Y. Bodiou & G. Bœuf 2010. *The Mediterranean Basin - biological diversity in space and time*. Oxford University Press, Oxford, UK.
4. Clewell, A. F. & J. Aronson. 2010. *La Restauration Ecologique: Principes, Valeurs, et Structure d'une Profession Emergente*. Actes Sud. Arles, France.
3. Clewell, A. F. & J. Aronson 2007. *Ecological Restoration: Principles, Values, and Structure of an Emerging Profession*. Island Press, Washington, DC.
2. Blondel, J. & J. Aronson 1999. *Biology and Wildlife of the Mediterranean region*. Oxford University Press, Oxford, U.K.
1. Aronson, J. 1989. *HALOPH: Salt Tolerant Plants of the World*. University of Arizona Press: Tucson, AZ, USA. (From which was created eHALOPH, an interactive on-line version; See <https://www.sussex.ac.uk/affiliates/halophytes/index.php?content=news>)

EDITED VOLUMES

7. Van Andel, J. & J. Aronson, Eds. 2012. *Restoration Ecology: The New Frontier*. 2nd Edition Blackwell, Oxford, UK.
6. Bautista, S., J. Aronson & R. Vallejo, Eds. 2010. *Land Restoration to Combat Desertification: Innovative Approaches, Quality Control and Project Evaluation*. Fundación CEAM, Zaragoza, Spain.
5. Aronson, J., J.S. Pereira & J. Pausas, Eds. 2009. *Cork Oak Woodlands on the Edge: Ecology, Biogeography, and Restoration of an Ancient Mediterranean Ecosystem*. Island Press, Washington, DC.
4. Aronson, J., S.J. Milton & J. Blignaut, Eds. 2007. *Restoring Natural Capital: Science, Business and Practice*. Island Press, Washington, DC.
2. Pontanier, R., A. M'Hiri, N. Akrimi, J. Aronson & E. Le Floc'h, Eds. 1995. *L'Homme peut-il refaire ce qu'il a défait?* John Libby Eurotext, Paris.
1. Roy, J., J. Aronson & F. di Castri, Eds. 1995. *Time Scales in the Response to Water Stress: The case of the Mediterranean biota*. SPB Academic Publishers, Amsterdam.

Guest editorships

6. Adam Cross and J. Aronson 2021. *Frontiers in Ecology & Evolution*. Plant-Soil-Microbe Interactions and Drivers in Ecosystem Development and Ecological Restoration.
5. *Annals of the Missouri Botanical Garden*. 2017. Ecological Restoration in a Changing Biosphere, the 63rd Annual Systematics Symposium of the Missouri Botanical Garden. Vol. 102(2): 185-265. Guest editors: John Leighton Reid & James Aronson.

4. *Ecology & Society*, 2015-2016. [Special Feature](#) on *Ecological Restoration, Ecosystem Services and Land Use*. Guest editors: Anne Tolvanen & James Aronson.
3. *Ecological Restoration*. 2010. Special theme: Education and Outreach in Ecological Restoration (12 papers) Vol. 28 (2). Guest editor: J. Aronson.
2. *Journal of Nature Conservation*. 2006. Special issue on Restoration Ecology (10 papers) Vol. 14(2-3). Guest editors: J. Aronson & A. F. Clewell.
1. *Arid Soil Research and Rehabilitation*, 1999. Vol.13(4). Dryland Restoration and Rehabilitation. Guest editors: J. Aronson, S. Dhillion & E. Le Floc'h.

PEER-REVIEWED ARTICLES AND BOOK CHAPTERS (209)

1. Aronson, J. & M. Forti 1983. The Development of New Crops for the Negev Desert. *Genetika*, Suppl. 3: 265-277.
2. Pasternak, D., A. Danon & J. Aronson 1985. Developing the Seawater Agriculture Concept. *Plant and Soil* 89: 337-348.
3. Aronson, J. 1985. Economic Halophytes - A Global Review. In: G.E. Wickens, J.R. Goodin & D.V. Field (eds.) *Plants for Arid Lands*. George Allen & Unwin. London. Pp. 177-188.
4. Shmida, A. & J. Aronson 1986. Sudanian Elements in the Flora of Israel. *Annals Missouri Botanical Garden* 73: 1-28.
5. Pasternak, D., J. Aronson, J. Ben-Dov, A. Danon, M. Forti, S. Mendlinger, A. Nerd & D. Sitton 1986. Development of New Arid Zone Crops for the Negev Desert of Israel. *Journal of Arid Environments* 11: 37-59.
6. Aronson, J., H. Lovenstein & Y. Zohar 1987. Arid zone fuelwood plantations as a third world energy source. *Water & Irrigation Review* 7: 18-21.
7. Zohar, Y., H. Lovenstein & J. Aronson 1988. Cultivation of Multipurpose Trees in Rainwater Harvesting Systems in the arid region of Israel. *Commonwealth Forestry Review* 67: 339-349.
8. Aronson, J., D. Pasternak & A. Danon 1988. Introduction and first evaluation of 120 halophytes under seawater irrigation. In: E.E. Whitehead, C.F. Hutchinson, B.N. Timmermann & R.G. Varady (eds.) *Arid Lands: Today and Tomorrow*. Westview, Boulder, Colorado. Pp.737-746.
9. Yagil, R., C. Van Creveld, T. Oren, A. Rogel & J. Aronson 1988. Responses of Awassi sheep and black goats to grazing in summer. *Internat. J. Animal Science* 3: 181-189.
10. Aronson J., & R. J. Nash 1989. Infrequent cyanogenesis in *Acacia caven* and general notes on cyanogenic glycoside data in subgenus *Acacia*. *Bulletin International Group for the Study of Mimosoideae* 17: 97-110.
11. Aronson J. & C. Ovalle 1989. Report on a study of the natural variability, biogeography and potential for genetic improvement of *Acacia caven*. *Bulletin of the International Group for the Study of Mimosoideae* 17: 111-121.
12. Nerd, A., J. Aronson & Y. Mizrahi. 1990. Introduction and domestication of rare and wild fruit and nut trees for desert areas. In: Janick, J. and J.E. Simon (eds.) *Advances in New Crops*. Timber Press, Portland, Oregon. Pp. 355-363.
13. Aronson J., J. Kigel, & A. Shmida 1990. Comparative variability in desert and Mediterranean populations of annual plants in Israel. *Israel Journal of Botany* 39: 413-430.
14. Ovalle C., J. Aronson, A. Del Pozo, & J. Avendaño 1990. The Espinal: Agroforestry systems in the Mediterranean-Type climate region of Chile. *Agroforestry Systems* 10: 213-239.
15. Aronson J. 1991. Description and distribution of *Acacia macracantha* Humb. & Bonpl. ex Willd. (Leguminosae, Mimosoideae) in northern Chile. *Gayana, Bot.* 48: 81-87.

16. Aronson J., G.E. Wickens & E. Birnbaum 1991. An Experimental Technique for Long-Distance Transport of Cuttings under Tropical Conditions. *FAO/IBGPR Plant Genetic Resources Newsletter* 81/82: 47-48.
17. Aronson J. 1991. The present and future roles of salt-tolerant trees and their associated microsymbionts in arid lands. In: R. Choukr-Allah (Ed.) *Plant Salinity Research: New Challenges*. Institut Agronomique et Vétérinaire Hassan II, Agadir, Morocco. Pp. 363-376.
18. Aronson J. 1992. Evolutionary Biology of *Acacia caven* (Leguminosae, Mimosoideae). Intraspecific variation in fruits and seeds *Annals of the Missouri Botanical Garden* 79:558-569.
19. Aronson J., J. Kigel, A. Shmida & J. Klein 1992. Adaptive phenology of desert and Mediterranean populations of annual plants grown with and without water stress. *Oecologia* 89: 17-28.
20. Aronson, J., C. Ovalle & J. Avendaño 1992. Early growth rate and nitrogen fixation potential in 44 multipurpose legumes grown in an acid and a neutral soil in central Chile. *Forest Ecology and Management* 47: 225-244.
21. Aronson, J. & C. Saravia Toledo 1992. *Caesalpinia paraguariensis*: forage tree for all seasons. *Economic Botany* 46: 121-132.
22. Aronson J. & A. Shmida 1992. Diversity along a Mediterranean-desert gradient in response to interannual fluctuations in rainfall. *Journal of Arid Environments* 23: 235-247.
23. Aronson J., C. Floret, E. Le Floc'h, C. Ovalle & R. Pontanier 1993a. Restoration and rehabilitation of degraded ecosystems. I. A view from the South. *Restoration Ecology* 1: 8-17.
24. Aronson J, C. Floret, E. Le Floc'h, C. Ovalle & R. Pontanier 1993b. Restoration and rehabilitation of degraded ecosystems. II. Case studies in Chile, Tunisia and Cameroon. *Restoration Ecology* 1: 168-187.
25. Aronson J., J. Kigel & A. Shmida 1993. Reproductive allocation strategies of desert and Mediterranean populations of annual plants grown with and without water stress. *Oecologia* 93: 336-342.
26. Aronson J., C. Ovalle & J. Avendaño 1993. Ecological & economic rehabilitation of degraded "Espinales" in the subhumid mediterranean-climate region of central Chile. *Landscape and Urban Planning* 24: 15-21.
27. Ovalle C., J. Aronson, J. Avendaño & H. Alvarez 1993. Tagasaste (*Chamaecytisus proliferus* subsp. *palmensis*), un árbol forrajero leguminoso con potencial para sistemas agrosilvopastorales en Chile mediterráneo. *Agricultura Técnica (Chile)* 53: 264-271.
28. Ovalle C., J. Aronson, J. Avendaño, R. Meneses & R. Moreno 1993. Rehabilitation of degraded 'Espinales' in subhumid central Chile and its relevance for the arid 'norte chico'. *Revista Chilena de Historia Natural* 66: 291-303.
29. Aronson J., C. Ovalle, P. Leon & L. Aguilera 1994. Phenology of the cold-deciduous *Acacia caven* in the mediterranean climate zone of Chile. *Journal of Arid Environments* 27: 55-70.
30. Blondel J. & J. Aronson 1995. Biodiversity and ecosystem function in the Mediterranean Basin. Non-human and human determinants. In: Davis, G. and D.M. Richardson, editors, *Biodiversity and ecosystem function in mediterranean-type ecosystems*. Springer Verlag, Berlin. Pp. 43-119.
31. Aronson J., S. Dhillion & E. Le Floc'h 1995. On the need to select an ecosystem of reference, however imperfect: A reply to Pickett & Parker. *Restoration Ecology* 3: 1-3.
32. Ovalle C., J. Aronson, J. Avendaño & A. Del Pozo 1995. Amélioration de l'espinal: système agro-sylvo-pastoral du Chili central. *Cahiers Options méditerranéennes* 12: 169-171.

33. Aronson, J. & E. Le Floch 1995. Restoration ecology of salt-affected arid and semi-arid lands. In R. Choukr-Allah, C. V. Malcolm and A. Hamdy, editors. *Halophytes and Biosaline Agriculture*. Marcel Dekker, New York. Pp. 55-71.
34. Aronson, J., C. Floret, E. Le Floch, C. Ovalle & R. Pontaner 1995. Restauration et réhabilitation des écosystèmes dégradés en zones arides et semi-arides. Le vocabulaire et les concepts. In : R. Pontanier, A. M'Hiri, N. Akrimi, J. Aronson & E. Le Floch, editors. *L'Homme peut-il refaire ce qu'il a défait?* John Libby, Paris. Pp. 11-30.
35. Ovalle, C., A. Del Pozo, J. Avendaño, J. Aronson 1995. Restauration et réhabilitation d'agroécosystèmes du *secano interior* au Chili central. In : R. Pontanier, A. M'Hiri, N. Akrimi, J. Aronson & E. Le Floch, editors. *L'Homme peut-il refaire ce qu'il a défait?* John Libby, Paris. Pp. 211-230.
36. Roy, J., J. Aronson & F. di Castri 1995. Water constraints and mediterranean biota response: towards an integrated multi-scale understanding. In: Roy, J., J. Aronson, F. & F. di Castri, editors. *Time Scales in the Response to Water Stress: the case of the mediterranean biota*. SPB Academic Publishers, Amsterdam. Pp. 1-4.
37. Le Floch, E. & J. Aronson 1995. L'Ecologie de la restauration. Définition de quelques concepts de base. *Natures, Sciences, Sociétés* 3, Hors série, 29-35.
38. Ovalle C., L. Longeri, J. Aronson, A. Herrera, J. Avendaño. 1996. N₂-fixation, nodule efficiency and biomass accumulation after two years in three Chilean legume trees and Tagasaste (*Chamaecytisus proliferus* subsp. *palmensis*). *Plant and Soil* 179: 131-140.
39. Aronson J. & E. Le Floch 1996a. Que faire de tant de notions du paysage? *Natures, Sciences, Sociétés* 4: 264-266.
40. Aronson J. & E. Le Floch 1996b. Vital landscape attributes: missing tools for restoration ecology. *Restoration Ecology* 4: 377-387.
41. Aronson J. & E. Le Floch 1996c. Hierarchies and landscape history: dialoging with Hobbs and Norton. *Restoration Ecology* 4: 327-333.
42. Ovalle C., J. Avendaño, A. Del Pozo & J. Aronson 1996. Land occupation patterns and vegetation structure in the anthropogenic savannas (espinales) in the subhumid region of central Chile. *Forest Ecology & Management* 86: 129-139.
43. Etienne, M., J. Aronson & E. Le Floch 1998. Abandoned lands and land use conflicts in southern France. Piloting ecosystem trajectories and redesigning outmoded landscapes in the 21st century. In: P. W. Rundel, G. Montenegro & F. Jaksic, editors. *Landscape degradation and biodiversity in mediterranean-type ecosystems*. Ecological Studies Series N°. 136. Springer, Berlin. Pp. 127-140.
44. Aronson, J., A. Del Pozo, C. Ovalle, J. Avendaño, A. Lavin & M. Etienne 1998. Land use changes and conflicts in central Chile. In: P. W. Rundel, G. Montenegro & F. Jaksic, editors. *Landscape degradation and biodiversity in mediterranean-type ecosystems*. Ecological Studies Series N°. 136. Springer, Berlin. Pp. 155-168.
45. Aronson J., E. Le Floch, J.F. David, S. Dhillion, M. Abrams, J.L., Guillermin & A. Grossmann 1998. Restoration ecology studies at Cazarils (southern France). *Landscape & Urban Planning* 41: 273-283.
46. Garnier E. & J. Aronson 1998. Nitrogen use efficiency from leaf to stand level: clarifying the concept. In: H. Lambers, H. Poorter, H. & M.M.I. van Vuuren, editors. *Inherent variation in plant growth. Physiological mechanisms and ecological consequences*. Backhuys Publishers, Leiden. Pp. 515-538.
47. Arredondo S., J. Aronson, C. Ovalle, A. del Pozo & J. Avendaño 1998. Screening multipurpose legume trees in central Chile. Sixth-year results. *Forest Ecology and Management* 109: 221-230.

48. Le Floch E., J. Aronson, S.S. Dhillon, J.L. Guillermin, A. Grossmann & E. Cunge 1998. Biodiversity and ecosystem trajectories: first results from a new LTER in southern France. *Acta Oecologica* 19: 283-293.
49. Ovalle C., A. Del Pozo, J. Avendaño & J. Aronson 1998. Características fenológicas y productivas de 34 accesiones de hualputra (*Medicago polymorpha*) colectadas en la zona mediterránea de Chile. *Agricultura Técnica (Chile)* 57: 261-271.
50. Aronson, J., S. Dhillon & E. Le Floch 1999. Dryland restoration and rehabilitation. *Arid Land Research and Management* 13: 315-318.
51. Ovalle C., J. Aronson, A. Del Pozo & J. Avendaño 1999. Restoration and rehabilitation of mixed espinales in central Chile: 10-year report and appraisal. *Arid Land Research and Management* 13: 369-381.
52. Del Pozo A., E. Garnier & J. Aronson 2000. Contrasted nitrogen utilization in annual C₃ grasses and legume crops: physiological explorations and ecological consequences. *Acta Oecologica* 21: 79-89.
53. Del Pozo, A., J. Aronson, C. Ovalle & J. Avendaño 2000. Ecotypic differentiation in *Medicago polymorpha* L. along an environmental gradient in central Chile. Developmental responses to temperature and photoperiod. *Annals of Botany* 85: 809-814.
54. Aronson, J. & E. Le Floch 2000. Restoration of Natural Capital: Pros and Problems. *Restoration Ecology* 8: 214-216.
55. Aronson, J., R.J. Hobbs, E. Le Floch & D. Tongway 2000. Is Ecological Restoration a journal for North American readers only? *Ecological Restoration* 18: 146-147.
56. Vallauri, D., J. Aronson & C. Chauvin 2000. A 120 year-old forest restoration program on badlands in the southwestern Alps (France). *Journal of Forestry* 98: 1-2.
57. Gondard, H., J. Aronson, M. Grandjanny, E. Le Floch, A. Renaux, F. Romane & Z. Shater 2000. Plant species richness responses to management practices in chestnut (*Castanea sativa* Miller) forests and coppice stands in the Cévennes Mountains (southern France). *Ecologia mediterranea* 26:143-154.
58. Aronson, J., H. Gondard, M. Grandjanny & F. Romane 2000. Indicators and constraints for autogenic return to original forest vegetation in the Cévennes. In: White P.S., Mučina L. & J. Lepš, editors. *Vegetation science in retrospective and perspective*. Proc. 41st IAVS Symposium in Uppsala, 26.7-1.8. 1988 (ISBN 918871650-3). Opulus Press, Uppsala. Pp. 51-54.
59. Aronson, J., J. Li, E. Le Floch, F. Romane & D. Vallauri 2000. Combining Conservation, Management and Ecological Restoration: a new approach for the Arid and Semiarid Lands of China. In: J. Jianming, editor. *The Conservation and Utilization of Biodiversity*. CBHT, Beijing. Pp. 279-301.
60. Gondard, H., F. Romane, M. Grandjanny, J. Li & J. Aronson 2001. Plant species diversity changes in abandoned chestnut (*Castanea sativa* Miller) groves in southern France. *Biodiversity and Conservation* 10: 189-207.
61. Vallauri D., J. Aronson & M. Barbéro 2002. An analysis of forest restoration 120 years after reforestation on badlands in the southwestern Alps. *Restoration Ecology* 10: 16-26.
62. Del Pozo, A., C. Ovalle, J. Aronson & J. Avendaño 2002. Ecotypic differentiation in *Medicago polymorpha* L. along an environmental gradient in central Chile. I. Phenology, reproductive patterns and winter vigour. *Plant Ecology* 159: 119-130.
63. Del Pozo, A., C. Ovalle, J. Aronson & J. Avendaño 2002. Ecotypic differentiation in *Medicago polymorpha* L. along an environmental gradient in central Chile. II. Winter growth as related to phenology and temperature regime. *Plant Ecology* 160: 53-59.

64. Paredes, M., V. Becerra, C. Rojo, A. Del Pozo & C. Ovalle & J. Aronson 2002. Ecotypic differentiation in *Medicago polymorpha* L. along an environmental gradient in central Chile. IV. RAPDs studies show little genetic variation. *Euphytica* 123: 431-439.
65. Aronson, J., E. Le Floch, & C. Ovalle 2002. Semi-arid woodlands and desert fringes. In: M.R. Perrow and A.J. Davy, editors. *Handbook of Ecological Restoration*. Vol. 2. Cambridge University Press, Cambridge, U.K. Pp. 466-485.
66. Aronson, J., C. Ovalle, J. Avendaño, L. Longeri & A. Del Pozo 2002. Agroforestry tree selection in central Chile: biological nitrogen fixation and plant growth in six dryland species. *Agroforestry Systems* 56:155-166.
67. Aronson J., E. Le Floch, H. Gondard & F. Romane 2002. Gestion environnementale en région méditerranéenne : références et indicateurs liés à la biodiversité végétale. *Revue d'Ecologie (Terre et Vie). Supplément* 9: 225-240.
68. Aronson, J. 2003. What is effective in restoration ecology and how to measure it. In: G. Ausenda, editor. *On Effectiveness*. The Boydell Press, Woodbridge, U.K. Pp. 59-75.
69. Gondard, H., F. Romane, J. Aronson & Z. Shater 2003. Impact of soil surface disturbances on functional group diversity after clear-cutting in Aleppo pine (*Pinus halepensis*) forests in southern France. *Forest Ecology & Management* 180: 165-174.
70. Gondard, H., S. Jauffret, J. Aronson & S. Lavorel 2003. Plant functional types: A promising tool for management and restoration of degraded lands. *Applied Vegetation Science* 6: 223- 234.
71. Winterhalder K., A. Clewell & J. Aronson 2004. Values and Science in Ecological Restoration - a Response to Davis and Slobodkin. *Restoration Ecology* 12:4-7.
72. Chepstow-Lusty, A., M.R. Frogley, M.B. Bush & J. Aronson 2005. 80,000 yr of vegetation and climate change on the Bolivian Altiplano prior to the Last Glacial Maximum. *Quaternary Research* 63:90-98.
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212. Danovaro, R., Aronson, J., Cimino, R., Gambi, C., Snelgrove, P.V.R., Van Dover, C. (in prep.) Marine ecosystem restoration in a changing ocean. (For *Restoration Ecology*).
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33. Aronson, J. 2015. Restauración de qué, por qué, y para quién? In: M. Aguilar-Garavito & W. Ramírez, Editors. *Monitoreo a Procesos de Restauración Ecológica aplicado a*

- ecosistemas Terrestres Tropicales. Instituto de Investigación Alexander von Humboldt. Bogotá, D.C., Colombia. (In Spanish). Pp. 9-12. ISBN 978-958-8889-29-0
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 24. Aronson, J. 2010. Restauration, réhabilitation, réaffectation. Ce que cachent les mots. *Espaces Naturelles* 29: 22-23.
 23. Lacombe, M. & J. Aronson 2009. *Restoring Natural Capital in Arid and Semiarid Regions. Combining ecosystem health with human wellbeing*. Les dossiers thématiques du CSFD. N°7. CSFD/Agropolis International, Montpellier, France. 36 pp.
 22. Lacombe, M. & J. Aronson 2008. *La restauration du capital naturel en zones arides et semi-arides. Allier santé des écosystèmes et bien-être des populations*. Les dossiers thématiques du CSFD. N°7. CSFD/Agropolis International, Montpellier, France. 36 pp.
 21. Aronson, J. 2008a. Las Tres Hermanas: La Restauración, La Ingeniería y La Economía Ecológica. *Boletín divulgativo de la Red Iberoamericana y del Caribe de Restauración Ecológica* 2 (4):1-2.
 20. Aronson, J. 2008b. Protection de la Nature - La restauration écologique. General text edited by R. Barbault. In *Encyclopaedia Universalis France S.A.*, Paris. Volume 19, Pp. 890-893.
 19. Ovalle, C.M., J.R. Avendaño, A.L. Del Pozo, E.V. Zagal, J. Aronson & S. Urquiaga 2008. The effect of legume trees and pastures on the N contribution and productivity of an agroforestry system in Mediterranean Central Chile. In: Management of agroforestry systems for enhancing resource use efficiency and crop productivity. IAEA, Vienna. IAEA-TECDOC-1606. Pp. 157-166. ISBN 978-92-0-110908-8.
 18. Aronson, J. 2003. *Restauration Ecologique: Concepts et Pratiques*. In: *Restauration des Paysages Forestiers en Afrique du Nord*. Actes de l'Atelier, Alakhawayan University, Ifrane, Morocco. Pp. 103-113.

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15. Society for Ecological Restoration International Science & Policy Working Group. 2004. *The SER International Primer on Ecological Restoration*. www.ser.org & Tucson, AZ: Society for Ecological Restoration International. Principal authors A. Clewell, J. Aronson & K. Winterhalder.
14. Ovalle C., S. Arredondo, J. Aronson, L. Longeri & J. Avendaño 1998. Biological nitrogen fixation in four dryland tree species in central Chile. IAEA-TECDOC-1053. International Atomic Energy Agency, Vienna, Austria. Pp. 23-32.
13. Aronson, J. & E. Le Floch 1995. Restoration and rehabilitation of degraded ecosystems and landscapes: which way Alicante Province? In: A. Pasto-López & E. Seva-Román, editors. *Restauración de la cubierta vegetal en ecosistemas mediterráneos*. Instituto de Cultura Juan Gil-Albert, Alicante, Spain. Pp. 37-52 (in Spanish).
12. Ovalle, C., Aronson, J., Avendaño, J., Meneses, R., Moreno, R. and Villaflor, L., 1991. Dryland fodder legume trees, shrubs and associated rhizobacteria for central Chile. Establishment and preliminary field evaluation. Vol. 1. *Proc. IVth International Rangeland Congress*, CIRAD, Montpellier, France. Pp. 401-404.
11. Aronson J. 1990. Preliminary observations on the cyanogenic properties of five populations of *Acacia caven* and four additional American members of subgenus *Acacia*. *Bulletin of the International Group for the Study of Mimosoideae* 18: 87-97.
10. Aronson J. 1990. Desert plants of use and charm from northern Chile. *Desert Plants* 10: 65-74, 85-91.
9. Aronson, J. & H. Thompson 1987. Desert Plants of Use and Charm from Southwestern Africa. *Desert Plants* 8: 125-134.
8. Aronson, J. 1987a. More than a choice of which tree to plant. *Jerusalem Post*, April 22, 1987. Page 10.
7. Aronson, J. 1987b. A little less green, please. *Jerusalem Post*. June 14, 1987. P. 8.
6. Aronson, J. 1987c. A hard look at the land. A case against afforestation. *Jerusalem Post* International edition. June 27, 1987. Page 10.
5. Aronson, J. 1987d. The meaning of Wilderness. *The Jerusalem Post*. July 2, 1987. P. 8.
4. Aronson, J. 1987e. Pining for change. *Jerusalem Post*. July 17, 1987. P. 8.
3. Aronson, J. 1980c. Major shifts in agricultural practices critical to survival of tropical forests. *Journal of Commerce*. May 28, 1980, P. 6.
2. Aronson, J. 1980b. Population growth key factor in tropical forest destruction. *Journal of Commerce*. May 28, 1980. P. 7.
1. Aronson, J. 1980a. Tropical rain forests being destroyed at rapid rate; consequences unknown. *Journal of Commerce*. May 28, 1980. P. 6.
0. Aronson, J. 1978. I may be bald but I still have rights. *J. Clinical Child Psychology* 7(3) 181-184.

SELECTED CONSULTING EXPERIENCE

22-25 May, 2019. MERCES (Marine Ecosystem Restoration in Changing European Seas), Third annual meeting. Paris, France.

22-25 May, 2018. MERCES (Marine Ecosystem Restoration in Changing European Seas), Second annual meeting. Barcelona, Spain.

19-24 June, 2017. Invited International Advisory Board member, Second meeting MERCES (Marine Ecosystem Restoration in Changing European Seas), an EC-funded H2020 project. 2016-2020; Heraklion, Crete.

6-10 Feb. 2016, Co-organizer and co-leader, with James Blignaut, Partnership for a Sustainable Region Workshop for Nahal Taninim Watershed, Ramat HaNadiv, Israel.

26 Feb.- 06 March, 2015. Grupo de Ecología y Conservación de Islas. Baja California, Mexico.

February, 2015. National Workshop on Ecological Restoration. Missouri Botanical Garden – Madagascar.

January 20 - 25, 2014. Koniambo Nickel Society, Northern Province, New Caledonia.

2013 - 2015. Sustainable Region Plan for the Taninim Watershed, Ramat HaNadiv, Israel.

October, 2013. Invited consultant of the Ministry of the Environment, São Paulo state, Brasil, on the subject of new legislation concerning ecological restoration.

March 2013. External reviewer for SRK Consulting (U.S.), Inc. Review Draft Reforestation Index developed for SURALCO LLC regarding a bauxite mine project in Suriname.

2007-2013. Member of the Restoration and Rehabilitation team, Task Force of Independent Reviewers advising on the U.N. Commission for Compensation-funded effort for ecological restoration in Kuwait, in collaboration with Kuwait's National Focal Point.

2010 - 2014. Ecocean, S.A. Montpellier, France. On Marine and coastal restoration work.

2010. Scenic Hudson Trust, Inc. and the New York Department of Environmental Conservation. Rethinking the Restoration program for the Hudson River estuary.

2009-2010. Restoration, Rehabilitation, and Reintegration of the Berre and Bolmon lagoons and the Rove Canal. GIPREB (Groupement d'Intérêt Public pour la Réhabilitation de l'Étang de Berre) and the Grand Port Maritime de Marseille, France.

January, 2008. Consultation with Doug Tompkins, on the Restoration and Rehabilitation program, The Conservation Land Trust, Parque Pumalin, Patagonia, Chile.

September, 2007. Advisor to Cement Sustainability Initiative, World Business Council for Sustainable Development, on behalf of the IUCN.

2007. Environmental restoration consultant to Riga Association, Lerab Ling, Lodève, France.

September-October, 2005. Restoring and Reintegrating Ambohilero Forest, Madagascar, following illegal logging and road-building operation. U.S. A.I.D.

2000-2003. Restoration, re-design and re-integration of a 40 ha Ecological Park in coordination with CECRV (an NGO), and the Conservatoire du Littoral. Bayonne-Anglet-Biarritz (France).

1998-1999. Ministry of Foreign Affairs, France; French Consul Général, Fès. Use of trees and shrubs in the Fight against Desertification in Morocco.

February, 1999. Impact of Guanaco on livestock and forestry in Sector Russfin, Tierra del Fuego, Magallenes, Chile. Contractor: Regional Council, XII Region, Chile.

March, 1997. Revegetation of the SNIM Railway, Mauritania. Contractor: Institut Géographique National-International, Paris. (With Charles Rosetti).

1995. Rehabilitation of degraded lands with multipurpose trees for agroforestry in the region of Libreville, Gabon. Ministry of Agriculture, Animal husbandry, and rural development.

January, 1988. Chairman, Section on Physical Infrastructure, Workshop on National Strategies for Development of the Arid and Semi-Arid Areas of Kenya; Institute for African Development, Cornell University, USA.

1987. Member FAO/ UNDP team, National Forestry Action Plan for dry forests, Dominican Republic. Contractor: Dominican Republic Government Ministry of the Environment.

1986-87. PAM'A, Inc. Rehabilitation following oil shale pit-mining in the Negev, Israel.

RECENT THESIS & CAREER EVALUATIONS

- January-February, 2018. External Evaluation PhD Thesis, Marius Van der Vyver, Nelson Mandela University, Department of Science. South Africa.
- June, 2016. Prof. Klaus Kellner, South Africa, on behalf of South Africa's National Research Foundation (NRF).
- September - October, 2012. Career Evaluation Prof. Dave Richardson, University of Pretoria, on behalf of South Africa's National Research Foundation (NRF).
- September - October, 2012. Career Evaluation Prof. James Blignaut, University of Pretoria, on behalf of South Africa's National Research Foundation (NRF).
- June-July, 2012. Career Evaluation Prof. R. Van Aarde, University of Pretoria, on behalf of South Africa's National Research Foundation (NRF).
- September, 2006. External Review Committee, Tour du Valat Biological Research station, Camargue, France.
- Jan. – Feb. 2006. External Review Committee, Center for Conservation and Sustainable Development, Missouri Botanical Garden, St. Louis, Missouri, USA.

CURRENT AND RECENT GRADUATE STUDENTS

- Aviv Avisar. "After the removal of eucalyptus groves: Steps toward effective restoration of coastal dune ecosystems in central Israel." » Co-directed with Prof. Tamar Dayan, Tel Aviv University, Israel. Defense planned for November, 2021.
- Estefania Rodriguez Barrancos. "Integrating epiphytes in tropical forest restoration", co-directed with Dr. Leighton Reid, Missouri Botanical Garden, and Rakan (Zak) Zahawi, Las Cruces Biological Research Station; Organization of Tropical Studies, Las Cruces, Costa Rica. Begun in January, 2015. First article for peer-reviewed journal published in 2017.
- Felipe Marauê Marques Tieppo. "Testing the applied nucleation approach for restoring a naturally patchy coastal Restingas shrubland, Rio de Janeiro State, Brazil". Successfully defended in Montpellier, France, February 2015. co-directed with Dr. Pedro Brancalion, Universidad de São Paulo, ESALQ, Piracicaba, Brazil.
- Pierre Schemama, Committee member for PhD dissertation, Université de la Mer, Brest.
Thesis director Dr. Harold Levrel, IFREMER, Brest, France. Thesis defense, June, 2014.
- Jeanne Lavialle, Université de Rennes. "Vers la Restauration du Capital Naturel autour de l'aire protégée d'Analalava, région Atsinanana, Madagascar". April-Oct., 2013, co-directed with Dr. Chris Birkinshaw (Missouri Botanical Garden, Madagascar), MSc program "*Ingénierie écologique pour les écosystèmes tropicaux*", SUPAGRO-ENGREF Montpellier, France.
- Alice Gouzerh, Agroforestry systems with *Euterpe edulis* as a strategy to involve local small farmers in the process of restoring the Brazilian Atlantic Forest April-October, 2013. Co-directed with Dr. Pedro Brancalion, Universidad de São Paulo, ESALQ, Piracicaba, Brazil, and Pierre-Marie AUBERT (SUPAGRO-ENGREF) within the MSc program "*Ingénierie écologique pour les écosystèmes tropicaux*" SUPAGRO-ENGREF, Montpellier, France.

- Julia Derolles, How to organize a program of payments for water-related ecosystem services in agricultural landscapes? Lessons from the Brazilian Atlantic Forest Region. April-October, 2013. Co-directed with Dr. Pedro Brancalion, Universidad de São Paulo, ESALQ, Piracicaba, Brazil, and Pierre-Marie AUBERT (SUPAGRO-ENGREF) within the MSc program "*Ingénierie écologique pour les écosystèmes tropicaux*" SUPAGRO-ENGREF, Montpellier, France.
- Cyprien Miandrimanana, 2013. Steps toward eradication of the invasive tree *Melaleuca quinquinervia* in SE Madagascar, Co-directed with Dr. Chris Birkinshaw, Missouri Botanical Garden, Madagascar,
- Francisco Román-Dañobeytia, Colegio de la Frontera, San Cristobal de las Casas, Chiapas, Mexico. Director, Dr. Samuel Levy-Tacher. PhD successfully defended March 2012.
- Nestor Mandjo Boré: Université de Montpellier II & UNESCO M.Sc. program, in collaboration with Dr. Claude GRISON (CEFE/CNRS). In search of keystone plants for ecological restoration and bioremediation in the Pic de Fon classified forest of SE Guinea, with special emphasis on the Rio Tinto Simandou mining area. (Completed April 2012).
- Angélica Maria Cogollo Calderón: co-director, with Prof. N. Aguirre, of a M.Sc thesis, in "Biodiversidad en Áreas Tropicales y su Conservación" program, Universidad Menendez Pelayo, Spain and Univ. Indo-Americana, Ecuador. Defended February, 2012.
- Duval Cueva, co-director of MSc thesis project, "Biodiversidad en Áreas Tropicales y su Conservación" program, Universidad Menendez Pelayo, Spain and Univ. Indo-Americana, Ecuador. Successfully defended, December, 2011.
- Florian Claeys. Co-director, Ecole Normale Supérieure, Paris. "Restoration, Rehabilitation and Reintegration of the Berre and Bolmon Landscape". In coll. with GIPREB (Groupement d'Intérêt Public pour la Réhabilitation de l'Etang de Berre). June-Nov., 2010.
- Thomas Viot (MSc). 2004-2005. Director. "Etude des processus écologiques liant la structure d'une forêt à l'Est de Madagascar et les actions humaines pour la gestion durable de la forêt et sa restauration". Ecole Polytechnique, Diplôme de Master, I.N.A.-P.G. Paris, September, 2005.

GRADUATE STUDENT COMMITTEES & EXTERNAL EXAMINATIONS (EE)

9. Maria Emilia RODRIGUEZ ARAUJO. National University of Comahue, CONICET. Laboratory of Rehabilitation and Ecological Restoration of Arid and Semiarid Ecosystems (LARREA), Neuquén 8300, Argentina. *Siembra directa de semillas peletizadas de especies nativas: avances hacia un "enfoque de especies fundantes" apto para la restauración ecológica de zonas áridas*. Co-Director of a 2-year Post-doc along with Dr. Daniel Pérez. April 2021-April 2023.
8. Laura L.B. GRAHAM, Dep't of Geography, University of Leicester, UK. December, 2012. *Restoration from within: an interdisciplinary methodology for tropical peat swamp forest restoration in Indonesia*. Thesis supervisors: S. Page & J. Pickerill. (EE).
7. Phumza NTSHOTSHO, Faculty of AgriScience, Stellenbosch University, South Africa. October, 2012. *Towards evidence-based ecological restoration in South Africa*. Thesis supervisors: B. Reyers & K.J. Esler (EE).
6. Matthew M. McMONNACHIE, Rhodes University, South Africa. September, 2012. On the implementation effectiveness and efficiency of ecological interventions in operation contexts: the case of Working for Water. Thesis supervisors: C. Shackleton, R.C. Cowling.

5. Stephen M. BENIGNO, School of Plant Biology, University of Western Australia. July, 2012. *Restoration in a postmine environment: Using ecophysiological techniques to improve the establishment of framework Banksia woodland seedlings*. Thesis supervisor: K. Dixon (EE).
4. Eva-Tere'zia VESELY, Dep't of Geography and Environmental Science, Univ. of Auckland, New Zealand, *Natural Capital Restoration and Economic Efficiency*. (EE) PhD awarded May 2010.
3. Elise BUISSON, University of Aix-en-Provence, France. September, 2005. *Restauration écologique de communautés végétales herbacées méditerranéennes : exemples dans le sud-est de la France et sur la côte californienne (USA)*.
2. José Antonio CABELLO MEDINA, ENGREF, Centre de Nancy, France. January, 2005. *Bases méthodologiques pour la préparation des outils écologiques et dynamiques nécessaires pour l'aménagement forestier au Chili*.
1. Marie-Pierre VECRIN, Université de Metz, France. May, 2003. *Mécanismes de restauration de la biodiversité végétale dans les prairies alluviales après une phase de culture*.

RECENT TALKS AND PARTICIPATION IN SYMPOSIA AND WORKSHOPS (2016-2021)

- 16 June, 2021. SER2021. Virtual World Conference
- 28 April, 2021. Co-presenter with James Blignaut at a Webinar in the series "From the Anthropocene to the Ecozoic", *Leadership for the Ecozoic* ([L4E](#)) consortium of the University of Vermont, McGill, and York University. "When it is broken, let's fix it".
- 16 April 2021. 5th Congreso Nacional de Ciencias Agrarias. On-line Keynote speaker. "Las ciencias, las prácticas y la ética de la restauración ecológica en los paisajes productivos, en los países en desarrollo." Asunción, Paraguay.
- 19-20 February, 2020. Co-organizer – Four Islands EcoHealth Network workshop. The first regional network of EcoHealth Network. Royal Tasmanian Botanical Garden. Hobart, Tasmania.
- 30 September, 2019. Ecological Restoration Alliance of Botanic Gardens, Stellenbosch Botanical Garden, Cape Town, South Africa.
- 20-24 September, 2019. Co-organizer symposium on EcoHealth and Human Health, on behalf of the EcoHealth Network. 8th SER World Congress on Ecological Restoration, Cape Town, South Africa.
- 22-25 May, 2019. Advisory Board member. Third annual meeting of MERCES (Marine Ecosystem Restoration in Changing European Seas). La Sorbonne, Jussieu. Paris, France.
- 13-15 May, 2019. Co-organizer and speaker, 1st International meeting of EcoHealth Network, Missouri Botanical Garden, St. Louis, Missouri, USA.
- 11-13 December, 2018. Invited Speaker. Non-GMO Supply Working Group, Midwest Grains meeting, Sustainability Solutions, Green America. St. Louis, MO. USA.
- 9-13 September, 2018, Organizer and speaker in a symposium on the Need for Standards in Ecological Restoration. SER2017: 8th World Congress of Ecological Restoration, Reykjavik Iceland.
- 23-25 May, 2018. Invited speaker, Advisory Board member. 2nd annual meeting. MERCES Ecosystem Restoration in Changing European Seas). Barcelona, Spain.

26- 31 August, 2017, SER2017: 7th World SER Congress of Ecological Restoration, Iguassu, Brazil. Invited speaker in three symposia on scaling up to landscape and higher spatial scales.

26-30, June, 2017. Speaker and Representative of CCSD, Missouri Botanical Garden, VIth Global Botanic Gardens Congress, Geneva, Switzerland.

20-24 March. 2017. Invited Speaker & Rapporteur, FAO & CBD Workshop on Monitoring Forest Landscape Restoration, Fifth Annual Mediterranean Forest Week. Agadir, Morocco.

29 November – 03 December, 2016. Speaker and MBG Representative at 4th Meeting of the Ecological Restoration Alliance of Botanic Gardens, *Instituto de Ecologia*, Xalapa, Mexico.

6-8 July, 2016. Plenary speaker, “Current state, and future perspectives for ecological restoration & RNC”. Kick-off meeting of MERCES (Marine Ecosystem Restoration in Changing European Seas), an EC-funded H2020 project. 2016-2020.

28-30 June, 2016. Invited speaker. “Getting serious about plant conservation and about sustainability”. A Workshop Meeting of the Global Partnership for Plant Conservation. Missouri Botanical Garden, St. Louis, Missouri, USA.

January 14-17, 2013. U.N. Commission of Compensations Independent Reviewers - Kuwait National Focal Group. Kuwait City, Kuwait.

April 1987. Member FAO/ UNDP team, National Forestry Action Plan for dry forests, Dominican Republic. Contractor: Dominican Republic Government Ministry of the Environment.

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