

CURRICULUM VITAE

Robert Costanza, Ph.D.



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I. PERSONAL

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II. EDUCATION

- 1974-1979 **Ph.D.** University of Florida, Gainesville, FL, Systems Ecology, Environmental Engineering Sciences (minor in Economics) – Dissertation advisor: Howard T. Odum
- 1973-1974 **MA** University of Florida, Gainesville, FL, Architecture/Urban and Regional Planning
- 1971-1973 **BA** (with honors) University of Florida, Gainesville, FL, Architecture
- 1968-1970 Purdue University, West Lafayette, IN, Aerospace Engineering

III. PROFESSIONAL BACKGROUND

- 2022- Present** Professor of Ecological Economics, Institute for Global Prosperity, University College London
- 2022-Present** Adjunct Professor, College of Business and Economics, University of Tasmania, Australia.
- 2022-Present** Honorary Professor, Crawford School of Public Policy, Australian National University, Canberra, Australia.
- 2019-Present** Member of the Research Strategy Group, Leverhulme Centre for Anthropocene Biodiversity, University of York, UK
- 2013-Present** deTao Master of Ecological Economics, deTao Masters Academy, Shanghai, China.
- 2010-Present:** Affiliate Fellow, Gund Institute for Environment, Rubenstein School of Environment and Natural Resources, The University of Vermont, Burlington, VT, 05405.
- 2009-Present:** Senior Research Fellow, Stockholm Resilience Center, Stockholm, Sweden.
- 2013-2021** Professor and Vice Chancellor's Chair in Public Policy, Crawford School of Public Policy, Australian National University, Canberra, Australia.
- 2013-2016** Distinguished Visiting Professor, Lincoln University, Christchurch, New Zealand.
- 2012** Visiting Fellow, Crawford School of Public Policy, Australian National University, Canberra, Australia.
- 2010-2016:** Senior Fellow, National Center for Science and the Environment (NCSE), Washington, DC.
- 2010-2012:** Distinguished University Professor of Sustainability, Institute for Sustainable Solutions, Portland State University, Portland OR
- 2010-2012:** Distinguished Research Fellow, Ecological Economics Research Centre New Zealand (EERNZ), Massey University, Palmerston North, New Zealand.
- 2010-2011:** Director, Institute for Sustainable Solutions, Portland State University, Portland OR
- 2002-2010:** Gordon and Lulie Gund Professor of Ecological Economics and Founding Director, Gund Institute of Ecological Economics, Rubenstein School of Environment and Natural Resources, The University of Vermont, Burlington, VT, 05405.
- 1994-2002:** Professor, Department of Biology, University of Maryland at College Park, College Park, MD 20742.
- 1991-2002:** Professor, University of Maryland Center for Environmental Science (Chesapeake Biological Laboratory) Solomons, MD 20688.
- 1991-2002:** Founding Director, University of Maryland Institute for Ecological Economics, Center for Environmental Science and College of Life Sciences, University of Maryland, Solomons and College Park, MD.
- 1999-2002:** Affiliate Professor, School of Public Affairs, University of Maryland at College Park, College Park, MD 20742.
- 1996:** Visiting Scientist, Beijer International Institute of Ecological Economics, The Royal Swedish Academy of Sciences, Stockholm, Sweden.
- 1992-1994:** Research Program Director, Complex Ecological Economic Systems Modeling Research Program, Beijer International Institute of Ecological Economics, The Royal Swedish Academy of Sciences, Stockholm, Sweden.
- 1988-1991:** Associate Professor, Coastal and Environmental Policy Program, Chesapeake Biological Laboratory, University of Maryland, Center for Environmental and Estuarine Studies, Solomons, MD.
- 1983-1991:** Affiliate Professional Scientist, Illinois Natural History Survey, University of Illinois, Urbana, IL.
- 1984-1988:** Associate Professor, Coastal Ecology Laboratory and Department of Marine Sciences, Center for Wetland Resources, Louisiana State University, Baton Rouge, LA.
- 1982:** Visiting Assistant Professor, Illinois Natural History Survey, University of Illinois, Urbana, IL.
- 1981-1984:** Assistant Professor, Coastal Ecology Laboratory and Dept. of Marine Sciences, Louisiana State University, Baton Rouge, LA.
- 1980-1981:** Postdoctoral Research Associate, Center for Wetland Resources, Louisiana State University, Baton Rouge, LA.
- 1979:** Energy Analyst, Florida Governor's Energy Office, Tallahassee, FL.

IV. RESEARCH

A. Areas of Professional Expertise:

Transdisciplinary integration, ecological economics, ecosystem services, landscape ecology, integrated ecological and socioeconomic modelling, energy and material flow analysis, environmental policy, social traps and addictions, incentive structures and institutions.

B. Academic Publications (727 total, 649 refereed)

Summary:

Refereed Journal Articles	323
Books.....	30
Monographs	11
Special Issues of Journals	18
Refereed Book Chapters and Encyclopedia Entries	206
Book Reviews, Letters, Editorials, & Short Correspondence	61
Subtotal Refereed	649

Non-Refereed Book Chapters, Reports, and Conference Proceedings,	28
Technical Reports.....	50
Total.....	727

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Web of Science (Clarivate) citations (Core collection) > 52,000; h-index = 83

ResearcherID: [A-4912-2008](https://orcid.org/0000-0001-6348-8734)

SCOPUS citations > 63,000; h-index = 90

Author ID: [7005761060](https://orcid.org/0000-0001-6348-8734)

Research Gate citations > 115,000, h-index = 124, Research Interest Score > 64,000

https://www.researchgate.net/profile/Robert_Costanza

Google Scholar citations > 160,000; h-index = 143, i10 index = 467

<https://scholar.google.com.au/citations?user=EQ-mkaAAAAAJ&hl=en>

1. Refereed Journal Articles (323)

in review or revision

- Day, J. W. Jr., E. Anthony, **R. Costanza**, D. Edmonds, J. Gunn, C. Hopkinson, M. Mann, J. Morris, M. Osland, T. Quirk, A. Rovai, J. Rybczyk, T. Spencer, J. Syvitski, R. Twilley, J. Visser, J. White, and J. Stephens. A Review of Major Issues Related to Coastal Wetlands in the Anthropocene. (in revision with *Annual Review of Environment and Resources*.)
- Han, H., X. Bai, **R. Costanza**, and L. Dong. The effects of COVID-19 on the resilience of urban life in China. (in revision with *Urban Sustainability*),
- Kibria, ASMG, **R. Costanza**; C. Groves; T. Farrell, and A. Behie. Potentials of flagship wildlife conservation for achieving human wellbeing of indigenous communities around the national park in Cambodia. (in review with *Environmental Management*).
- Kibria, ASMG, **R. Costanza**, A. Gasparatos, and J. Soto. A composite human wellbeing index for ecosystem-dependent communities: a case study in the Sundarbans, Bangladesh (in revision with *Ecosystem Services*)
- Kubiszewski, I., V. Adams, R. Baird, A. Boothroyd, **R. Costanza**, D. Hatton MacDonald, G. Finau, E.A. Fulton, C.K. King, M.A. King, D. Lannuzel, E. Leane, J. Melbourne-Thomas, C.-S. Ooi, M. Raghavan, V. Senigaglia, N. Stoeckl, J. Tian, and S. Yamazaki. Cascading Antarctic Tipping Points. (in review with *Global Environmental Change*)
- Xi, J., X. Long, G. Wu, P. Su, X. Luo, and **R. Costanza**. A new index reveals widening decoupling between growth and development in China. (in revision with *Nature*).

In press

1. Sangha, K. K., Y. Dinku, **R. Costanza**, and A. Poelina. A comprehensive analysis of wellbeing frameworks applied in Australia and their suitability for Indigenous peoples. 2024. *International Journal of Qualitative Studies on Health and Well-being* (in press).
2. Sangha, K. K., I. J. Gordon, and **R. Costanza**. 2024. Ecosystem Services, Policy, and Human Well-being. *Frontiers in Ecology and Evolution*. (in press)
3. Sangha, K. K., R. Ahammad, J. Russell-Smith, and **R. Costanza**. Payments for Ecosystem Services Opportunities for Emerging Nature-based Solutions: Integrating Indigenous Perspectives from Australia. 2024. *Ecosystem Services* (in press)
4. Stoeckl, N., V. Adams, R. Baird, A. Boothroyd, **R. Costanza**, D. Hatton MacDonald, G. Finau, E.A. Fulton, M.A. King, I. Kubiszewski, D. Lannuzel, E. Leane, J. Melbourne-Thomas, C.-S. Ooi, M. Raghavan, V. Senigaglia, J. Tian, and S. Yamazaki. 2024. The value of Antarctic and Southern Ocean ecosystem services. *Nature Reviews Earth and Environment* (in press)
5. Chen, H., **R. Costanza** and I. Kubiszewski. 2024. Legitimacy and limitations of valuing the oxygen production of ecosystems. *Ecosystem Services* (in press)

Published

2024

6. Chen, H. and **R. Costanza**. 2024. [Valuation and management of desert ecosystems and their services](#). *Ecosystem Services* 66:101607
7. Chen, H., **R. Costanza**, I. Kubiszewski, M. Sloggy, L. Wu, and T. Zhang. 2024. [Integrating online deliberation into ecosystem service valuation](#) *Journal of Environmental Management* 351:119796
8. Hernández-Blanco, M., **R. Costanza**, T. Agardy, J. Farley, E. Fulton, I. Kubiszewski, and R. Rasheed. 2024. [Common Asset Trusts for blue commons stewardship](#). *Marine Policy* 159:105957

2023

9. **Costanza, R.** 2023. [To build a better world, stop chasing economic growth](#). *Nature*. 624:519-521
10. Cork, S., C. Alexandra, J. G. Alvarez-Romero, E. M. Bennett, M. Berbés-Blázquez, E. Bohensky, B. Bok, **R. Costanza**, S. Hashimoto, R. Hill, S. Inayatullah, K. Kok, J. Kuiper, M. Moglia, L. Pereira, G. Peterson, R. Weeks, and C. Wyborn. 2023. [Exploring Alternative Futures in the Anthropocene](#). *Annual Review of Environment and Resources* 48:25-54.
11. **Costanza R.**, B. Fath, B. Fu, A. Hastings, B. Larry Li, B. Mackey, O. Meynecke, M. Maloney, W. J. Mitsch, Z. Ouyang, S. Petrovskiy, A. Stokes, J. Thinley, and O. Zhiyun. 2023. [EcoSummit 2023 Conference Declaration: Building a Sustainable Wellbeing Future](#). *Ecological Engineering*. 194:107052
12. Kubiszewski, I., C. Ward, K. Pickett and **R. Costanza**, 2024. [The complex relationships between inequality and biodiversity: A scoping review](#). *The Anthropocene Review*. DOI: 10.1177/20530196231158080
13. Ward, C., B. Brockett, **R. Costanza**, J. Hatfield, I. Kubiszewski, P. Langford, K. Pickett, and C. Willis. 2023. [Access to greenspaces during and after COVID-19 lockdown: a case study in Leeds, England](#). *People and Nature*. 00:1–15. DOI: 10.1002/pan3.10507
14. Donohue, I., L. Coscieme, G. Gellner, Q. Yang, A. Jackson, I. Kubiszewski, **R. Costanza**, and K. McCann. 2023. [Accelerated economic recovery in countries powered by renewables](#). *Ecological Economics* 107916
15. Webb, R., T. O'Donnell, K. Auty, X. Bai, G. Barnett, **R. Costanza**, J. Dodson, P. Newman, P. Newton, E. Robson, C. Ryan, M. Stafford Smith. 2023. [Enabling urban systems transformations: Co-developing national and local strategies](#) *Urban Transformations* 5:1-31. <https://doi.org/10.1186/s42854-023-00049-9>
16. Chen, H., T. Zhang, **R. Costanza**, and I. Kubiszewski. 2023. [Review of the approaches for protected areas' effectiveness](#). *Environmental Impact Assessment Review* 98: 106929
17. Kubiszewski, I., L. Concollato, **R. Costanza**, and D. Stern. 2023. [Changes in the Authorship, Networks, and Research Topics in Ecosystem Services](#). *Ecosystem Services* 59:101501

2022

18. Hernández-Blanco, M., **R. Costanza**, H. Chen, R. deGroot, D. Jarvis, I. Kubiszewski, J. Montoya, K. Sangha, N. Stoeckl, R.K. Turner, and V. van't Hoff. 2022. [Ecosystem health, ecosystem services, and the well-being of humans and the rest of nature](#). *Global Change Biology* 00, 1–14. <https://doi.org/10.1111/gcb.16281>
19. Karatopoulis, A., A. A Voinov, I. Kubiszewski, F. Taghikah, **R. Costanza**, and D. Kenny. 2022. [Estimating the Genuine Progress Indicator \(GPI\) before and during the COVID pandemic in Australia](#). *Ecological Indicators* 141: 109025
20. Chen, H., **R. Costanza**, and I. Kubiszewski. 2022. [Land use trade-offs in China's protected areas from the perspective of accounting values of ecosystem services](#). *Journal of Environmental Management*. 315:115178
21. Sangha, K.K., I. J. Gordon, and **R. Costanza**. 2022. [Ecosystem services and human wellbeing-based approaches can help transform our economies](#). *Frontiers in Ecology and Evolution*. <https://doi.org/10.3389/fevo.2022.841215>.
22. Taghikah, F., J. Borevitz, **R. Costanza**, and A. Voinov. 2022. [DAESim: A dynamic agro-ecosystem simulation model for natural capital assessment](#). *Ecological Modelling* 468:109930

23. Kibria, ASMG, **R. Costanza**, A. Gasparatos, and J. Soto. 2022. [A composite human wellbeing index for ecosystem-dependent communities: a case study in the Sundarbans, Bangladesh](#). *Ecosystem Services* 53:101389
24. Kubiszewski, I., K. Muthee, A. R. Rasheed, M. Suzuki, **R. Costanza**, S. Noel, and M. Schauer. 2022. [The costs of increasing precision for ecosystem services valuation studies](#). *Ecological Indicators* 135: 108551.
25. Kibria, ASMG, **R. Costanza**, and J. Soto. 2022. [Modelling the complex associations of human wellbeing dimensions in a coupled human-natural system: in contexts of marginalized communities](#). *Ecological Modelling* 466:109883.
26. Fioramonti, L., L. Coscieme, **R. Costanza**, I. Kubiszewski, K. Trebeck, S. Wallis, D. Roberts, L. F. Mortensen, K. E. Pickett, R. Wilkinson, K. V. Ragnarsdóttir, J. McGlade, H. Lovins, R. De Voglil and E. Giovannini. 2022. [Wellbeing economy: an effective paradigm to mainstream post-growth policies?](#) *Ecological Economics* 192:107261
27. Kubiszewski, I., K. Mulder, D. Jarvis, and **R. Costanza**. 2022. [Toward better measurement of sustainable development and wellbeing: A small number of SDG indicators reliably predict life satisfaction](#). *Sustainable Development* 30:139-148 <https://doi.org/10.1002/sd.2234>

2021

28. **Costanza, R.**, S. Anderson, P. Sutton, K. Mulder, O. Mulder, I. Kubiszewski, X. Wang, X. Liu, O. Pérez-Maqueo, M. L. Martínez, D. Jarvis, and G. Dee. 2021. [The global value of coastal wetlands for storm protection](#). *Global Environmental Change* 70:102328
29. McAfee, D., **R. Costanza**, and S. D. Connell. 2021. [Valuing marine restoration beyond the ‘too small and too expensive’](#) *Trends in Ecology and Evolution* 36: 968-971
30. **Costanza, R.**, I. Kubiszewski, and R. Rasheed. 2021. [The Future of Changes in Global Ecosystem Services](#). *Global Environmental Change*. 71:102399.
31. Feagin, R. A., T. S. Bridges, B. Bledsoe, E. Losos, S. Ferreira, E. Corwin, Q. Lodder, M. W. Beck, B. Reguero, A. Sutton-Grier, J. Figlus, R. Palmer, D. Nelson, C. Smith, L. Olander, B. Silliman, H. Pietersen, **R. Costanza**, R. K. Gittman, S. Narayan, N. Pontee, M. Donahue, D. McNeill, and T. Guidry. 2021. [Infrastructure investment must incorporate Nature’s lessons in a rapidly changing world](#). *One Earth* 4:1361-1364
32. Sangha, K.K., J. Evans, A. Edwards, R. Fisher, C. Yates, J. Russell-Smith, and **R. Costanza**. 2021. [Assessing the value of ecosystem services from prescribed fire management in Australian tropical savannas](#). *Ecosystem Services* 51:101343
33. Canning, A.D., D. Jarvis, **R. Costanza**, S. Hasan, J.C.R. Smart, J. Finisdore, C. Lovelock, S. Greenhalgh, H. Marr, M. Beck, K. Stephenson, C. Gillies, P. Wilson, and N. Waltham. 2021. [Financial incentives for wetland restoration: beyond markets to common asset trusts](#). *One Earth* 4:937-950
34. **Costanza, R.**, I. Kubiszewski, T. Kompas, and P. Sutton. 2021. [A Global MetaUniversity to Lead by Design to a Sustainable Wellbeing Future](#). *Frontiers in Sustainability*. 2:653721 <https://doi.org/10.3389/frsus.2021.653721>
35. O’Donoghue, S., M. Lehmann, D. Major, G. Major, C. Sutherland, A. Motau, N. Haddaden, A. Kibria, **R. Costanza**, C. Groves, A. Behie, and K. Johnson. 2021. [Adaptation to Climate Change in Small Coastal Cities: The influence of development status on adaptation response](#). *Ocean and Coastal Management* 211:105788
36. Kibria, ASMG, A. Behie, **R. Costanza**, C. Groves, and T. Farrell. 2021. [Potentials of community-based-ecotourism to improve human wellbeing in Cambodia: an application of millennium ecosystem assessment framework](#). *International Journal of Sustainable Development & World Ecology*, 28:461-472
37. Costanza-van den Belt, M., T. O’Donnell, R. Webb, E. Robson, **R. Costanza**, J. Ling, S. Crowe, and H. Han. 2021. [Community Preferences for Urban Systems Transformation in Australia](#). *Sustainability* 13:4749. <https://doi.org/10.3390/su13094749>
38. Hernández-Blanco, M., **R. Costanza**, and M. Cifuentes-Jara. 2021. [Economic Valuation of the Ecosystem Services Provided by the Mangroves of the Gulf of Nicoya using a hybrid methodology](#). *Ecosystem Services*. 49:101258
39. Folke, C., A. Gren, J. Larsson, and **R. Costanza**. 2021. [Cities and the Biosphere](#). *Ambio*.
40. **Costanza, R.**, I. Kubiszewski, N. Stoeckl, and T. Kompas. 2021. [Pluralistic discounting recognizing different capital contributions: an example estimating the net present value of global ecosystem services](#). *Ecological Economics* 183:106961
41. **Costanza, R.**, P.W.B. Atkins, M. Hernandez-Blanco, and I. Kubiszewski. 2021. [Common Asset Trusts to Effectively Steward Natural Capital and Ecosystem Services at Multiple Scales](#). *Journal of Environmental Management*. 280:111801

2020

42. **Costanza, R.** [Science, Belief, and Democracy](#). 2020, *Solutions* 11(4).
43. Ward, J., S. Mohr, **R. Costanza**, P. Sutton, and L. Coscieme. [Renewable Energy Equivalent Footprint \(REEF\): A method for envisioning a sustainable energy future](#). 2020. *Energies* 13:6160
44. Kibria, ASMG, A. Behie, **R. Costanza**, T. Farrell, and C. Groves [Potentials of community-based-ecotourism to improve human wellbeing in Cambodia: an application of millennium ecosystem assessment framework](#). 2020. *International Journal of Sustainable Development and World Ecology*. DOI: 10.1080/13504509.2020.1855606
45. Mulder, O., K. Mulder, I. Kubiszewski, S. Anderson, **R. Costanza**, and P. Sutton. 2020. [The value of coastal wetlands for storm protection in Australia](#). *Ecosystem Services* 46:101205

46. **Costanza, R.**, L. Fioramonti, E. Giovannini, I. Kubiszewski, H. Lovins, J. McGlade, L. F. Mortensen, K. Pickett, K. V. Ragnarsdóttir, D. Roberts, K. Trebeck, R. de Vogli, S. Wallis, and R. Wilkinson. 2020. [After the crisis: two possible futures](#). *Solutions* 11(3):112-117.
47. Kubiszewski, I., N. Zakariyya, **R. Costanza**, and D. Jarvis. [Resilience of Self-Reported Life Satisfaction: A case study of who conforms to set-point theory in Australia](#). *PLoS ONE*. 15(8): e0237161
48. Hernández-Blanco, M., **R. Costanza**, S. Anderson, I. Kubiszewski, and P. Sutton 2020. [Future scenarios for the value of Ecosystem Services in Latin America and the Caribbean to 2050](#). *Current Research in Environmental Sustainability* 2:100008
49. González-Chang, M., S.D. Wratten, M.W. Shields, **R. Costanza**, M. Dainese, G. Gurr, J. Johnson, D. S. Karp, J. W. Ketelaar, J. Nboyine, J. Pretty, R. Rayl, H. Sandhu, M. Walker, and W. Zhou. 2020. [Understanding the Pathways from Biodiversity to Agro-Ecological Outcomes: A New, Interactive Approach](#). *Agriculture, Ecosystems and Environment* 301:107053.
50. Palahí, M., M. Pansar, **R. Costanza**, I. Kubiszewski, J. Potočník, M. Stuchtey, R. Nasi, H. Lovins, E. Giovannini, L. Fioramonti, S. Dixon-Declève, J. McGlade, K. Pickett, R. Wilkinson, J. Holmgren, S. Wallis, M. Ramage, G. Berndes, F. Akinnifesi, G. Safonov, A. Nobre, C. Nobre, B. Muys, K. Trebeck, K. V. Ragnarsdóttir, D. Ibañez, A. Wijkman, J. Snape and L. Bas. 2020. [Investing in Nature to Transform the Post COVID-19 Economy: A 10-point Action Plan to create a circular bioeconomy devoted to sustainable wellbeing](#). *Solutions* 11(2).
51. **Costanza, R.** 2020. [COVID-19 and the transition to a sustainable wellbeing economy](#). *Solutions* 11(2).
52. Verkerk, P.J., **R. Costanza**, L. Hetemäki, I. Kubiszewski, P. Leskinen, M. Palahí, G.J. Nabuurs, and J. Potočník. 2020. [Climate-Smart Forestry: the missing link](#). *Forest Policy and Economics* 115:102164.
53. **Costanza, R.** 2020. [Valuing natural capital and ecosystem services toward the goals of efficiency, fairness, and sustainability](#). *Ecosystem Services*.43:101096.
54. **Costanza, R.** 2020. [Ecological Economics in 2049: Getting Beyond the Argument Culture To The World We All Want](#). *Ecological Economics* 168:106482.
55. **Costanza, R.** 2020. [Happy new year 2030](#). *Solutions* 11(1):88-89.

2019

56. Coscieme, L., P. Sutton, L. Fogh Mortensen, I. Kubiszewski, **R. Costanza**, F.M. Pulselli, B. F. Giannetti, and L. Fioramonti. 2019. [Overcoming the myths of mainstream economics to enable a new wellbeing economics](#). *Sustainability* 11:4374.
57. Liu, X., Y. Wang, **R. Costanza**, I. Kubiszewski, N. Xu, Z. Gao, M. Yuan, R. Geng, H. Chen, and X. Hu. 2019. [Rice paddy fields' hidden value for typhoon protection in coastal areas](#). *Ecological Indicators*. 107:105610.
58. **Costanza, R.** 2019. [Science, uncertainty, and society: getting beyond the argument culture to shared visions](#). *Ecology, Economy and Society – the INSEE journal*. 2:9-20.
59. Sangha, K. K., N. Stoeckl, N. Crossman, and **R. Costanza**. 2019. [A state-wide economic assessment of coastal and marine ecosystem services to inform sustainable development policies in the Northern Territory, Australia](#). *Marine Policy* 107:103595.
60. Sangha, K. K., J. Russell-Smith, and **R. Costanza**. 2019. [Mainstreaming Indigenous and local communities' connections with nature for policy decision-making](#). *Global Ecology and Conservation* 19:e00668.
61. Kibria ASMG, **R. Costanza**, and A. Behie. [Does higher access ensure greater wellbeing? – In the perspective of forest ecosystem services of the Sundarbans mangrove forest, Bangladesh](#). 2019 *Ocean and Coastal Management* 177:22-30
62. Liu, X., Y. Wang, **R. Costanza**, I. Kubiszewski, M. Yuan, and L. Feng. 2019. [The value of China's coastal wetlands and seawalls for storm protection](#). *Ecosystem Services* 36:100905
63. Chambers, I., **R. Costanza**, L. Zingus, S. Cork, M. Hernandez, A. Sofiullah, T. Z. Htwe, D. Kenny, P. Atkins, T. Kasser, I. Kubiszewski, Y. Liao, A. C. Maung, K. Yuan, D. Finnigan, and S. Harte. 2019. [A public opinion survey of four future scenarios for Australia in 2050](#). *Futures*. 107:119-132
64. Kenny, D.C., **R. Costanza**, T. Dowsley, N. Jackson, J. Josol, I. Kubiszewski, H. Narulla, S. Sese, A. Sutanto, & J. Thompson. 2019. [Australia's Genuine Progress Indicator Revisited \(1962-2013\)](#) *Ecological Economics* 158:1-10
65. Liu, X. Y. Wang, **R. Costanza**, I. Kubiszewski, N. Xue, Z. Gao, M. Liu, R. Geng, and M. Yuand. 2019. [Is China's coastal engineered defences valuable for storm protection?](#) *Science of the Total Environment*. 657:103–107.

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5. Technical Reports (50)

1. Palahí, M., Pansar, M., **Costanza, R.**, Kubiszewski, I., Potočník, J., Stuchtey, M., Nasi, R., Lovins, H., Giovannini, E., Fioramonti, L., Dixon-Declève, S., McGlade, J., Pickett, K., Wilkinson, R., Holmgren, J., Trebeck, K., Wallis, S., Ramage, M., Berndes, G., Akinnifesi, F.K., Ragnarsdóttir, K.V., Muys, B., Safonov, G., Nobre, A.D., Nobre, C., Ibañez, D., Wijkman, A., Snape, J., Bas, L. 2020. [Investing in Nature as the true engine of our economy: A 10-point Action Plan for a Circular Bioeconomy of Wellbeing](#). Knowledge to Action 02, European Forest Institute.
2. Harrison, A.J., W. C. Glamore, and **R. Costanza**. 2019. Cost benefit analysis of Big Swamp Restoration Project. Water Research Laboratory, University of New South Wales, Sydney, Australia
3. Dittmann, S., L. Mosley, K. Beaumont, B. Clarke, E. Bestland, H. Guan, H. Sandhu, M. Clanahan, R. Baring, J. Quinn, R. Seaman, P. Sutton, S. M. Thomson, **R. Costanza**, G. Shepherd, M. Whalen, J. Stangoulis, P. Marschner, and M. Townsend. 2019. [From Salt to C; carbon sequestration through ecological restoration at the Dry Creek Salt Field](#). Goyder Institute for Water Research, Technical Report Series.
4. Crossman, N.D., N. Stoeckl, K. Sangha, and **R. Costanza**. 2018. [Economic Values of the Northern Territory Marine and Coastal Environments](#). Australian Marine Conservation Society, Darwin, Australia.
5. Roberts, L. A. Brower, G. Kerr, S. Lambert, W. McWilliam, K. Moore, J. Quinn, D. Simmons, S. Thrush, M. Townsend, P. Blaschke, **R. Costanza**, R. Cullen, K. Hughey and S. Wratten 2015. The nature of wellbeing: how nature's ecosystem services contribute to the wellbeing of New Zealand and New Zealanders. Department of Conservation, Wellington. 145 p. <http://www.doc.govt.nz/about-us/science-publications/books-posters-and-factsheets/reports-and-books/>
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7. Turner, K. G., S. Anderson, M. G. Chang, **R. Costanza**, S. Courville, E. Dominati, I. Kubiszewski, S. Ogilvy, L. Porfirio, N. Ratna, H. Sandhu, P. C. Sutton, G. M. Turner, Y-D Varennes, A. Voinov, and S. Wratten. 2014. Toward an Integrated Ecology and Economics of Land Degradation and Restoration: Methods, Data, and Models. Report to the ELD Project, GIZ, Berlin, Germany.
8. **Costanza, R.**, I. Kubiszewski, P. Paquet, J. King, S. Halimi, H. Sanguanngoi, N.L. Bach, R. Frankel, J. Ganaseni, A. Intralawan, and D. Morell. 2011. Planning Approaches for Hydropower Development in the Lower Mekong Basin. Institute for Sustainable Solutions, Portland State University, Portland, OR. <http://www.pdx.edu/sustainability/lower-mekong-report>
9. Batker, D. P., I. de la Torre, **R. Costanza**, P. Swedeen, J. W. Day, Jr., R. Boumans, and K. Bagstad. 2010. [Gaining Ground - Wetlands, Hurricanes and the Economy: The Value of Restoring the Mississippi River Delta](#). Earth Economics, Tacoma, WA

10. Batker, D., P. Swedeen, **R. Costanza**, I. de la Torre, R. Boumans, and K. Bagstad. 2008. A new view of the Puget Sound Economy: the economic value of nature's services in the Puget Sound basin. Earth Economics, Tacoma, WA. <http://www.earthecconomics.org/projects/PugetSound/index.html>
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12. **Costanza**, R. 2000. The valuation of ecosystem services from an ecological economics perspective. Report to the "F4" Panel of Commissioners United Nations Compensation Commission Geneva, Switzerland. 31 pp.
13. **Costanza**, R., A. Voinov, R. Boumans, T. Maxwell, F. Villa, L. Wainger, and H. Voinov. 1999. Integrated ecological economic modeling of the Patuxent River watershed, Maryland. Final report to EPA. University of Maryland Institute for Ecological Economics, Center for Environmental and Estuarine Studies, University of Maryland, Box 38, Solomons, MD 20688-0038.
14. Cornwell, L.L. and **R. Costanza**. 1997. A Futures Outlook of the Banff-Bow Valley: A Modelling Approach to Ecological, Economic and Social Issues. Chapter 10 in: Green, J., C. Pacas, S. Bayley and L. Cornwell (eds.), Ecological Outlooks Project. A Cumulative Effects Assessment and Futures Outlook of the Banff-Bow Valley. Prepared for the Banff-Bow Valley Study. Department of Canadian Heritage, Ottawa, ON.
15. **Costanza**, R. N. Bockstael, C. Binder, R. Boumans, T. Maxwell, F. Villa, A. Voinov, H. Voinov, L. Wainger, and S. Walters. 1997. Integrated Ecological Economic Modeling and Valuation of Watersheds: Year 2 Progress Report to EPA. USEPA, Washington, DC.
16. Wainger, L., T. Maxwell and **R. Costanza**. 1996. Development of a Landscape Model to Evaluate the Effects of Land Conversion on Hydrology in Sawmill Creek Watershed, Anne Arundel County, Maryland. Final Report to Maryland Department of Natural Resources.
17. Fitz, H.C., A. Voinov, and **R. Costanza**. 1995. The Everglades Landscape Model: Final Report. Report to the Everglades Systems Research Division, South Florida Water Management District, 3301 Gun Club Road, West Palm Beach, FL 33416.
18. Fitz, H.C., A. Voinov, and **R. Costanza**. 1995. The Everglades Landscape Model: Verification Analysis Report. Report to the Everglades Systems Research Division, South Florida Water Management District, 3301 Gun Club Road, West Palm Beach, FL 33416. 16 pages.
19. Fitz, H.C., A. Voinov, and **R. Costanza**. 1995. The Everglades Landscape Model: Calibration Analysis Report. Report to the Everglades Systems Research Division, South Florida Water Management District, 3301 Gun Club Road, West Palm Beach, FL 33416. 13 pages and binary files.
20. Fitz, H.C., A. Voinov, and **R. Costanza**. 1995. The Everglades Landscape Model: Multiscale Sensitivity Analysis. Report to the Everglades Systems Research Division, South Florida Water Management District, 3301 Gun Club Road, West Palm Beach, FL 33416. 88 pages.
21. **Costanza**, R., H. C. Fitz, T. Maxwell, A. Voinov, H. Voinov, and L. A. Wainger. 1995. Patuxent Landscape Model: Sensitivity Analysis and Nutrient Management Scenarios. Interim Report for U.S. EPA Cooperative Agreement #CR 821925010. University of Maryland Institute for Ecological Economics, Center for Environmental and Estuarine Studies, University of Maryland, Box 38, Solomons, MD 20688-0038.
22. Fitz, H.C., **R. Costanza**, and E. Reyes. 1994. The Everglades Landscape Model (ELM): Compilation of Verification Data. Report to the Everglades Systems Research Division, South Florida Water Management District, 3301 Gun Club Road, West Palm Beach, FL 33416. 2 pages and 57 Mb binary files.
23. Fitz, H.C., **R. Costanza**, and E. Reyes. 1994. The Everglades Landscape Model (ELM): Compilation of Calibration Data. Report to the Everglades Systems Research Division, South Florida Water Management District, 3301 Gun Club Road, West Palm Beach, FL 33416. 7 pages and 48 Mb binary files.
24. **Costanza**, R., E. DeBellevue, T. Maxwell and M. Jacobsen, 1993. Development of the Patuxent Landscape Model (PLM) Phase I. Report of the Ecological Landscape Models for Evaluating the Interactive Dynamics of the Patuxent River Watershed and Estuary Project. The Chesapeake Bay Research & Monitoring Division, Tidewater Administration, Maryland Department of Natural Resources. Maryland International Institute for Ecological Economics, Center for Environmental and Estuarine Studies, University of Maryland, Solomons, MD.
25. Fitz, H.C., **R. Costanza**, and E. Reyes. 1993. The Everglades Landscape Model (ELM): Summary Report of Task 2, Model Development. Report to the Everglades Systems Research Division, South Florida Water Management District, 3301 Gun Club Road, West Palm Beach, FL 33416, 109 pages.
26. **Costanza**, R., H. C. Fitz, J. A. Bartholomew, and E. DeBellevue. 1992. The Everglades Landscape Model (ELM): Summary Report of Task I Model Feasibility Assessment. Center for Environmental and Estuarine Studies, University of Maryland, Solomons, MD.
27. **Costanza**, R. and E. B. DeBellevue. 1990. Environmental Evaluation of the CAR Proposal for Integrated Wastewater Treatment, Irrigation, and Conservation Projects in the Bogota, Colombia region. Report to the Interamerican Development Bank, Washington, DC.
28. Day, J. W. Jr., **R. Costanza**, K. Teague, N. Taylor, G. P. Kemp, R. Day, and R. E. Becker. 1986. Wetland Impoundments: A Global Survey for Comparison with the Louisiana Coastal Zone. Final Report to the Geological Survey Division, Louisiana Department of Natural Resources, Baton Rouge, LA 70803.

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30. **Costanza, R.** and S. C. Farber. 1985. The Economic Value of Coastal Wetlands in Louisiana. Final Report to the Louisiana Department of Natural Resources. Center for Wetland Resources, Louisiana State University, Baton Rouge, LA 70803.
31. **Costanza, R.** and S. C. Farber. 1985. The Economic Value of Wetlands in Terrebonne Parish, Louisiana. Final Report to the Louisiana Universities Marine Consortium. Center for Wetland Resources, Louisiana State University, Baton Rouge, LA 70803.
32. Turner, R. E., I. A. Mendelsohn, **R. Costanza**, K. L. McKee, C. Neill, J. P. Sikora, W. B. Sikora, and E. Swenson. 1984. Evaluation of Backfilling Canals as a Means of Mitigating the Environmental Impact of Canals. Final Report, Coastal Management Section, Louisiana Department of Natural Resources, Baton Rouge, LA 70808.
33. **Costanza, R.** and C. J. Cleveland. 1983. Ultimate Recoverable Hydrocarbons in Louisiana: A Net Energy Approach. Contract Report to LSU Center for Energy Studies, Baton Rouge, LA 70803.
34. **Costanza, R.** 1982. Cross-Sectional Analysis of Embodied Energy Contribution to Economic Activity in the United States. Subcontract Report to Cornell University for NSF project PRA-8003845. Center for Environmental Research and Dept. of Environmental Engineering, Cornell University, Ithaca, NY 14853.
35. **Costanza, R.** 1981. Environmental Impacts and Costs of OCS Natural Gas Activities on the State of Louisiana. Prepared for the First Use Tax Defense Legal Team, State of Louisiana. Gulf South Research Institute, Baton Rouge, LA 70808.
36. **Costanza, R.** 1981. Discussion of: A Case for the Systems Approach to Improving the Energy Efficiency of Fisheries. Fishing Industry Energy Conservation Conference. Oct. 25-27, Seattle, WA.
37. **Costanza, R.** 1981. Integrating Economics and Ecology for Improved Evaluation of Alternative Technologies. pp. 62-63 in: Research Needs for a Basic Science of the System of Humanity and Nature and Appropriate Technology for the Future: Results Of A Workshop At Gainesville, Fla. May 14-16, 1981. M. T. Brown and H. T. Odum (eds.), Energy Analysis Workshop, Center for Wetlands of Florida at Gainesville.
38. Day, J. W., **R. Costanza**, and L. A. Deegan. 1980. The Use of a Systems Approach for Quantifying Environmental Impacts. Prepared for U.S. Fish and Wildlife Service. Coastal Ecology Lab. Louisiana State University, Baton Rouge, LA 70803.
39. **Costanza, R.** 1979. Embodied Energy in Goods and Services Calculated from the 1967 Input-Output Data Including Labor and Government Service Feedbacks and Solar Energy Inputs. pp. 209-254 in: Energy Basis for the United States. H. T. Odum (ed.), Annual Report to the Department of Energy. Contract No. EY-76-5-05-4398. Energy Analysis and Systems Ecology Group, Department of Environmental Engineering Sciences. University of Florida, Gainesville, FL 32611.
40. **Costanza, R.** 1979. Power-Maximizing Energy Exchange Simulation Model with Applications to the U.S. Economy-Environment and the South Florida Region. pp. 259-319 in: Energy Basis for the United States. H. T. Odum (ed.), Annual Report to the Department of Energy. Contract No. EY-76-5-05-4398. Energy Analysis and Systems Ecology Group, Department of Environmental Engineering Sciences. University of Florida, Gainesville, FL 32611.
41. **Costanza, R.**, and D. Hornbeck. 1979. Input-Output Analysis as a Tool for Evaluating the Economic Effects of Supply Constraints. Report to Florida Governor's Energy Office. 301 Bryant Bldg. Tallahassee, FL 32301.
42. **Costanza, R.** and D. Hornbeck. 1979. An Energy Data Base System for Florida: Preliminary System Design and Implementation. Report to Florida Governor's Energy Office. 301 Bryant Bldg. Tallahassee, FL 32301.
43. Wang, F. C., H. T. Odum, and **R. Costanza**. 1978. Concepts for Assessment of Energy Related Impacts of Water. American Society of Civil Engineers Spring Convention. Reprint #3246. Pittsburgh, PA.
44. **Costanza, R.** 1978. Energy Costs of Goods and Services in 1967 Including Solar Energy Inputs and Labor and Government Service Feedbacks. Document No. 262, Center for Advanced Computation, University of Illinois at Urbana-Champaign.
45. **Costanza, R.** 1977. Energy Models of Exchange with Simulation of the Role of Exchange in Spatial Organization. In: Energy Analysis of Models of the United States. H.T. Odum and J. Alexander (eds.), Annual Report to the Department of Energy. Contract No. EY-76-5-05-4398. Systems Ecology and Energy Analysis Group. Department of Environmental Engineering Sciences. University of Florida, Gainesville, FL.
46. Odum, H. T., C. Kylstra, J. Alexander, N. Sipe, P. Lem, M. Brown, S. Brown, M. Kemp, M. Sell, W. Mitsch, E. DeBellevue, T. Ballentine, T. Fontaine, S. Bayley, J. Zucchetto, **R. Costanza**, G. Gardner, T. Dolan, A. March, W. Boynton, M. Gilliland, and D. Young. 1976. Net Energy Analysis of Alternatives for the United States. pp. 254-304. In: Middle and Long-Term Energy Policies and Alternatives. 94th Congress 2nd Session Committee Print. Prepared for the Subcommittee on Energy and Power of the Committee on Interstate and Foreign Commerce of the U.S. House of Representatives. Serial No. 94-63. U.S. Gov. Printing Office.
47. Bayley, S., **R. Costanza**, T. Dolan, R. Gutierrez, and D. Barile. 1975. A Comparison of Energetics vs. Economic Cost-Benefit Analysis for the Upper St. Johns River. Contract No. DACW17-75-C-0073, U. S. Army Corps of Engineers.
48. Brown, M., S. Brown, **R. Costanza**, E. DeBellevue, K. Ewell, R. Gutierrez, D. Layland, W. Mitch, H. Odum, and M. Sell. 1975. Natural Systems and Carrying Capacity of the Green Swamp. Report to Florida Department of

Administration, Division of State Planning. Contract No. M74-30317. Center for Wetlands. Univ. of Florida, 336 pp.

49. Brown, M., **R. Costanza**, and C. Wojick. 1975. Construction and Evaluation of Housing in Cypress Wetlands. In: Cypress Wetlands for Water Management, Recycling and Conservation. Second Annual Report to the National Science Foundation, Grant AEN 73-07823 AOI, and the Rockefeller Foundation, Grant RF-73029. H. T. Odum and K. C. Ewel, Principal Investigators.
50. **Costanza, R.** 1975. The Spatial Distribution of Land Use Subsystems, Incoming Energy and Energy Use in South Florida from 1900 to 1973. Master's Research Project. Department of Architecture, University of Florida, Gainesville, FL, 204pp.

C. Contracts and Grants (AU\$ and US\$)

Active: 4 project as principal or co-principal investigator:	US\$ 1,583,453
Completed: 57 projects as principal or co-principal investigator:	US\$ <u>25,131,861</u>
Total	US\$ 26,715,314

1. Active (4)

1. Measuring what matters: Improving usability and accessibility of policy frameworks and indicators for multidimensional well-being through collaboration (MERGE). European Union Horizon 2020 program. Project partner and CI. €187,500 (£161,000). 2024-2026.
2. Agrifood for Net Zero Network+. Champion, 2023. £40,000.
3. ARC Linkage Project, LP190101060: Integrated Farm Modelling to Improve Resilience and Sustainable Prosperity (AU\$ 1,659,757 (US\$ 1,120,927)), PI, 0.1 FTE, 1/2021-12/2024\.
4. Centre for Anthropocene Biodiversity, Leverhulme Trust. (£173,000 (US\$ 210,000) to ANU). 5/2019 – 2029

2. Completed (57)

1. Economics of Land Degradation (ELD) Initiative. Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH. AU\$ 540,000 (US\$ 384,000) 2014 – 2021.
2. Solutions Journal and research. DeTao Group, Hong Kong, China. 1/7/2015-30/12/2017. AU\$707,861.
3. Participatory Dynamic Systems Modelling of an Agricultural System. Mulloon Institute, Australia.. AU\$25,000 (~US \$19,000). 2016-2017
4. Organizing agriculture systems workshop. National Australian Bank (NAB).. AU \$40,909.09 (~US \$38,000). 2014-2015.
5. Keck Futures Initiative Award. Interactive games to value ecosystem services, \$75,000 6/12-6/14.
6. National Socio-Environmental Synthesis Center (SESYNC). Workshop on Interactive games to value ecosystem services, US\$25,000 1/12-6/14.
7. Special issue of *Solutions* on Resilience, USEPA \$20,000. 1/13-1/14.
8. 2012. Support for 5th annual Ecosystem Services Partnership conference, Portland OR, USEPA, USGS, USDA Forest Service, UNEP, US\$45,000.
9. 2009-2012. *Solutions* Journal start-up. Lewis Foundation. \$575,000. .
10. 2011-2012. Special issue of *Solutions* on Ecosystem Services, USEPA and USGS \$60,000.
11. 2011. Assessment of economic costs and benefits of hydropower development in the lower Mekong Basin. Subcontract from AECOM to USAID, Principal Investigator, \$80,000. 6.8% time
12. 2011. Cascadia Ecosystem Services Partnership. Bullitt Foundation, \$40,000. .
13. 2008-2009, Working group on “Integrated History and future of People on Earth (IHOPE): Building a community database and testing the resilience - sustainability hypothesis across scales” (with Lisa Graumlich and Sander van der Leeuw). National Center for Ecological Analysis and Synthesis (NCEAS), University of California at Santa Barbara,. \$100,000. .
14. 1997-2009. Human Settlements as Ecosystems: Metropolitan Baltimore from 1797-2100. NSF Long Term Ecological Research (LTER) project. Co-Principal Investigator (with Steward Pickett and 11 others) funding for our component (subcontract with the Institute for Ecosystem Studies): \$850,000 over 12 years. 5% time.
15. 2006-2008. Ecosystem Services: Dynamics, Modeling and Valuation to Facilitate Conservation. Gordon and Betty Moore Foundation. Principal Investigator, \$813,005. 16.6% time
16. 2005-2008. Ecological Economics: Integrative Graduate Education and Research Project. USAID/Mexico TIES program. Principal Investigator. \$490,692, 8.3% time.
17. 2006-2007. Payment for Ecosystem Services (PES): An International Atelier Workshop. Blue Moon Fund. Principal Investigator. \$108,874, 8% time
18. 2007. Transforming the University of Vermont: Leading by design for a sustainable and desirable future. Lewis Foundation. Co-Principle Investigator (with Don DeHayes). 1/1/07 – 12/31/07. \$100,000
19. 2004-2006. Valuing New Jersey’s Natural Capital and Ecosystem Services. New Jersey Department of Environmental Protection. Principal Investigator (with Matt Wilson and Austin Troy) 6/1/04-8/31/06. \$190,000, 8.3% time

20. 2002-2005. Assessing the Social and Economic Value of Ecosystem Services in the Northern Forest: A Geographic Information System (GIS) Approach to Landscape Valuation, Northeastern States Research Cooperative.. \$135,000, 2% time.
21. 2002-2005. Designing a New Model for Sustainable Ecological Tourism in the Northern Forest Region: an Atelier Course, Northeastern States Research Cooperative. \$57,000, .
22. 2001-2005. A web-accessible knowledge base for the integrated analysis and valuation of ecosystem services.. NSF. Co-Principal Investigator (with Ferdinando Villa) \$750,000. 1.
23. 2003-2004. Earth Shareholder's Report. Gund Foundation, \$30,000,
24. 1999-2002. Whole watershed health and restoration: Applying the Patuxent and Gwynns Falls landscape models to designing a sustainable balance between humans and the rest of nature. EPA. Principal Investigator. \$699,916. 15% time.
25. 1998-2002. An Open Spatial Modeling Environment. NSF (subcontract with the University of Illinois). \$425,000 over 5 years. Co-Principal Investigator (with Tom Maxwell).
26. 1992-2000. Multiscale Experimental Ecosystem Research Center, EPA, \$10,000,000, Co-Principal Investigator (with 18 others. (An additional grant of \$58,900 worth of computer equipment from Apple Computer Inc. was made to support this project.)
27. 1993-2002. Developing Ecological Economics at the Maryland International Institute for Ecological Economics. Ford Foundation. \$1,100,000. Principal Investigator.
28. 1995-1999. Integrated Ecological Economic Modeling and Valuation of Watersheds. NSF/EPA. \$1,000,000. Principal Investigator (with 10 additional participants). 15% time.
29. 1998-1999. Integration of Process-Based & Agent Based Modeling Paradigms. US Army. Principle Investigator (with Tom Maxwell). \$25,508
30. 1993-1999. Fellowships and Ecological Economics Certificate Program. MacArthur Foundation. \$600,000. Principal Investigator.
31. 1992-1997. Ecological Economic Modelling and Valuation of Ecosystems. Cooperative Agreement with EPA No. 07-5-25196-3734, \$345,624. Nancy Bockstael (AREC) and Robert Costanza, Project managers.
32. 1994-1997. Multiscale Modeling of Coastal Landscape Dynamics. NOAA, Estuarine Habitat Program, \$315,782. J. C. Stevenson and **R. Costanza**, Co-Principal Investigators.
33. 1996-1997. Distributed Modular Spatial Ecosystem Modeling. NSF, \$219,000. Co-Principal Investigator (with Tom Maxwell).
34. 1993-1996. Pew Scholarship in Conservation and the Environment. Pew Charitable Trusts. \$150,000. Recipient
35. 1991-1996. Ecosystem Valuation and Restoration and Their Impacts on Environmental Accounting and Concepts of Sustainable Development. Cooperative Agreement with EPA, \$583,452. Robert Costanza and Dennis King, Project managers.
36. 1991-1996. Modeling Landscape Dynamics in the Everglades Basin. Cooperative Agreement with the South Florida Water Management District, \$455,501. Principal Investigator.
37. 1988-1994. Responses of a Major Land Margin Ecosystem to Changes in Terrestrial Nutrient Input, Internal Nutrient Cycling, Production and Export. NSF, \$2,500,000. Co-Principal Investigator (with M. Kemp, and 12 others).
38. 1992-1994. Ecological Landscape Models for Evaluating the Interactive Dynamics of the Patuxent River Watershed and Estuary. Maryland DNR, \$80,000, Principal Investigator.
39. 1992-1993. A Land Use-Based Spatial Hydrologic Modeling System for Use in Small Watersheds: With an Application for the Sawmill Creek Watershed, Maryland. Maryland DNR, \$20,000. Principal Investigator.
40. 1989-1992. Landscape Modeling: the Synthesis of Ecological Processes over Large Geographic Regions and Long Time Scales, NSF, \$536,364, co-Principal Investigator (with F. Sklar, SFWMD), 4.15% time.
41. 1990-91. Workshop on Ecosystem Health and Environmental Management. 1990. MD Sea Grant (\$7,000) and US EPA (\$10,000). Co-Principal Investigator (with M. Sagoff, UMD). .
42. 1989-1991. An International Workshop on The Ecological Economics of Sustainability: Making Local, Short-Term and Global, Long-Term Goals Consistent. 1989-91. The Pew Charitable Trusts, \$70,000, The Jessie Smith Noyes Foundation, \$15,000, US AID, \$10,000. Principal Investigator. 8.3% time.
43. 1988-1990. A Flexible Environmental Cost Charging and Assurance Bonding System for Improved Economic Efficiency . EPA, \$80,472. Co-Principal Investigator (with S. Farber, LSU).
44. 1988. A Solomon's Forum on Sediment Control in the Chesapeake Bay Watershed. \$10,050. Principal Investigator. 4.15% time.
45. 1984-1988. Development and Application of Community/Succession Models for the Wetland Complex of the Lower Atchafalaya River Drainage. U. S. Fish and Wildlife Service, \$225,000. Co-Principal Investigator (with J. W. Day and F. H. Sklar, LSU).
46. 1985-1987. Spatial Simulation Modeling: A Synthesis of Atchafalaya Delta and Terrebonne Marsh Projects. NOAA, Sea Grant, \$67,655. Co-Principal Investigator (with F. H. Sklar, LSU).
47. 1985-1986. Factors Affecting the Cost/Effectiveness of Impoundments in the Louisiana Coastal Zone. Louisiana Department of Natural Resources, \$57,677. Co-Principal Investigator (with J. W. Day, LSU).
48. 1984-1985. The Value of Terrebonne Parish Wetlands. Louisiana Universities Marine Consortium, \$20,000. Co-Principal Investigator (with S. Farber, LSU Economics Dept.).

49. 1983-1985. Benefits and Costs of Environmental Enhancement Projects in Louisiana. Louisiana Dept. of Natural Resources, \$73,808, Co-Principal Investigator (with S. Farber, LSU Economics Dept.).
50. 1983-1984. A Low Level Aerial Imagery System for Analyzing the Effects of Backfilling Canals on Water Movement and Plant Productivity. Louisiana Dept. of Natural Resources, \$21,199. Principal Investigator.
51. 1983-1984. Measurement of Ground and Surface Water Movement in Marshes. Louisiana Dept. of Natural Resources, \$15,733. Co-Principal Investigator (with E. Swenson, LSU).
52. 1983-1984. Estimation of Total Recovery of Hydrocarbons in Louisiana Through the Use of Net Energy Techniques. LSU Center for Energy Studies, \$16,829, Principal Investigator.
53. 1981-1982. Improved Energy Analysis Methodology and Applications to Louisiana Energy Resources. LSU Mining and Mineral Resources Research Institute, \$9,000. Principal Investigator.
54. 1980-1982. Mississippi Deltaic Plain Region Ecosystem Models and Narrative Report. US Fish & Wildlife Service #14-16-009-80-073, \$172,603. Co-Principal Investigator (with L. M. Bahr, LSU).
55. 1980-1982. Energy Analysis Tools for Incorporating Environmental Analysis Findings in Federal Decision Making. Co-Principal Investigator (with M. J. Lavine, Cornell).
56. 1982. Modeling of Economic and Ecological Systems. Illinois Dept. of Energy and Natural Resources, ENR-80.260, \$55,092. Co-Principal Investigator (with R. Gorden, U. of Illinois).
57. 1981. Environmental Impacts and Costs of OCS Related Gas Activities in Louisiana. Subcontract with Gulf South Research Institute, \$30,000. Principal Investigator.

D. Invited Seminars and Presentations (804)

2023

1. Jean Monnet Excellence Center on Sustainability. After Development Lectures 2023. Invited speaker: Overcoming our societal addiction to growth. Clermont, France, December 11, 2023 (via zoom).
2. 4th Ecosystem Services Partnership (ESP) Latin American International Conference. Invited plenary speaker: "Misconceptions about the valuation of ecosystem services" LaSerena, Chile, November 9, 2023 (via internet)
3. Burntwood Lecture. Institution of Environmental Sciences (IES). "[Societal Therapy for a Sustainable Wellbeing Future](#)" London, UK, November 7, 2023.
4. Regeneration of historic villages in the circular economy perspective. Invited plenary talk: "Beyond mainstream economics for the evolutionary redesign of human settlements" Naples, Italy, October 31, 2023 (via zoom).
5. Progress to Achieve the Green Economy (PAGE) Global Academy on the Green Economy. Invited plenary speaker: "Changing Our Economic Paradigm: Societal Therapy for a Sustainable Wellbeing Future." Turin, Italy. October 12, 2023.
6. The International Conference on Economics, Law, and Government: Accelerating inclusive Green Transition in Developing Countries. Invited plenary speaker: "Addicted to Growth: Societal Therapy for a Sustainable Wellbeing Future." Ho Chi Minh University, Ho Chi Minh City, Vietnam. Sept 28, 2023 (via zoom).
7. Norwegian Business School (BI) Conference: The Future We Choose. Invited plenary speaker: "Addicted to Growth: Societal Therapy for a Sustainable Wellbeing Future" Oslo, Norway. Sept 20, 2023
8. Australian Earth Laws Alliance online webinar. "[The future of ecological economics](#)." Sept. 14, 2023
9. 6th International Ecosummit. Invited plenary speaker: "Societal therapy for a sustainable wellbeing future" Gold Coast, Australia. June 16, 2023
10. 6th International Ecosummit. Invited symposium speaker: "Emerging new methods to implement sustainable governance in the Anthropocene" Gold Coast, Australia. June 16, 2023
11. Australian National University, book launch seminar for "Toward an Integrated Science of Wellbeing." Invited speaker: "Societal Wellbeing". Canberra, Australia, June 6, 2023.
12. University of Tasmania, College of Business and Economics. Invited panel discussion: "Things that contribute to good research grant applications". Hobart, Australia, June 1, 2023.
13. ETH Zurich. Invited seminar. "Addicted to growth: societal therapy for a sustainable wellbeing future" Zurich, Switzerland, May 23, 2023
14. EU Parliament [Beyond Growth Conference](#). Invited plenary panelist: "The power of economic models on decision-making and society at large". Brussels, Belgium, May 17, 2023.
15. University of Oxford, Biodiversity Network. Invited seminar: "[Overcoming our societal addiction to growth to build a sustainable wellbeing future](#)." Oxford, UK. Feb. 17, 2023
16. University of Oxford, Biodiversity Network. Invited panel discussion: "[Monetary valuation of nature: pragmatic conservation or unhelpful commodification?](#)" Oxford, UK. Feb. 17, 2023
17. Hansraj Economics Society, invited lecture "Ecological Economics: Why we need to take the whole Earth into account. New Delhi, India, Feb. 5, 2023 (online via Teams)

2022

18. Celebration of 50 Years of the Limits to Growth – 1972-2022 Invited plenary speaker: "Addicted to Growth: Societal Therapy for a Sustainable Wellbeing Future" Clermont-Ferrand, France Dec. 2, 2022 (via zoom).

19. International Workshop on Ecological Protection Compensation in the Yellow River Basin. Invited Plenary Speaker: "From Payment for Ecosystem Services to Eco-Compensation to Common Asset Trusts". Beijing, China, Nov. 16, 2022 (via zoom).
20. The 3rd International Forum on Ecological Security in Reservoirs and the Water Source Areas. Invited Plenary Speaker: "The Importance of Natural Capital and Ecosystem Services Related to Aquatic Ecosystems and Watersheds" Beijing China Nov. 11, 2022 (via zoom).
21. University College London, Bartlett Together Festival seminar: "Overcoming Our Addiction to Growth: Societal Therapy for a Sustainable Wellbeing Future" London, UK. Sept. 28, 2022.
22. University of Tasmania, College of Business and Economics invited webinar: "Addicted to Growth: Societal Therapy for a Sustainable Wellbeing Future" Sept. 26, 2022 (via zoom).
23. 50th Anniversary of the Limits to Growth, [Panel Discussion at the European Parliament](#). June 14, 2022.
24. Economy of Francesco, Invited seminar. [Overcoming our societal addiction to growth to create a sustainable wellbeing future.](#) May 30, 2022 (via Zoom and live streamed on YouTube)
25. Invited Seminar, University of Surrey "[What is Ecological Economics: a brief history and why we need it now more than ever.](#)" Guildford, UK, May 9, 2022.
26. University of Illinois, MachSE Seminar Series. Invited seminar: "Overcoming our societal addiction to growth to create a sustainable wellbeing future." Champaign-Urbana, IL April 25, 2022 (via Zoom).
27. University of Arizona Bridging Biodiversity and Conservation Science (BBCS) Webinar: Global Prosperity in the Face of Climate Change: In Pursuit of a Sustainable Future. Invited speaker: "Overcoming Our Societal Addiction to Growth to Create a Sustainable Wellbeing Future" April 8, 2022 (via Zoom).
28. Workshop on the socio-economic values of the contribution of cetaceans to the ecosystem functioning. Invited plenary speaker: "Common asset trusts for marine stewardship" April 6, 2022 (via Zoom).
29. Wetlands International South Asia, World Wetlands Day. Invited special address: "Recognizing and integrating wetland values in development planning" New Delhi, India, Feb. 2, 2022. (via Zoom)

2021

30. NewKind Social Justice Conference. Invited panel and talk: "Overcoming Our Societal Addiction to Growth to Create a Sustainable Wellbeing Future" RMIT University, Melbourne, Australia, November 25, 2021 (via MS Meetings)
31. University of Queensland Global Change Institute, Global Change Scholars Program. Invited seminar: "Creating a Sustainable and Desirable Future." Brisbane, Australia, October 14, 2021 (via Zoom)
32. [French Sustainable Investment Forum](#). Invited seminar speaker: "Investing in Natural Capital and Ecosystem Services." Paris, France, September 20, 2021 (via Zoom)
33. International Climate Summit 2021: Powering India's Hydrogen Ecosystem. Session 5A Ecology, Agriculture & Climate Mitigation. Invited speaker: "Building a Sustainable Wellbeing Economy and Society" New Delhi, India, September 3, 2021 (via Zoom).
34. Environmental Defence Society conference: Transforming Aotearoa: The Government's Environmental Reform Agenda. Invited plenary speaker: "Systems Transition and Positive Change." Christchurch, New Zealand, August 5, 2021 (via Zoom).
35. 2nd International Forum on Ecological Security of Water Sources. Invited plenary speaker: "The Importance of Natural Capital and Ecosystem Services for Sustainable Wellbeing in an Ecological Civilization." Nanyang Normal University, Henan, China. July 24, 2021 (online).
36. ISEE-ESEE-Degrowth joint Conference. Invited Plenary Panel Speaker: "The Future of Ecological Economics" Manchester, UK, July 5, 2021 (online)
37. 16th International Peatland Congress. Invited Keynote Speaker: "The value of peatlands". Tallin, Estonia, May 3, 2021 (online)
38. First International Symposium on Coastal Ecosystems and Global Change. Invited plenary speaker: "Valuing and Managing Coastal Ecosystem Services" Xiamen, China April 16-19, 2021 (via Zoom).
39. IUCN E-Conference on promoting private investment in the Great Green Wall. Invited keynote speaker: "Values and opportunities in the Great Green Wall." March 23, 2021 (online).
40. Ostrom Workshop panel on the typology of goods. Invited panelist. Indiana University, Bloomington, IN. March 18, 2021. (via Zoom)
41. Australian Rivers Institut. Invited Seminar. The transition to a sustainable wellbeing economy Griffith University, Gold Coast, Australia. Feb. 19, 2021 (via Zoom)

2020

42. Scuola de Ecologia ed Economia (SEE) Webinar. Invited plenary speaker: "After the Crisis: Building Back Better to a Sustainable Wellbeing Economy" Asinara National Park, Sardinia, Italy, Oct 9, 2020 (via Skype)
43. Club of Rome Intergenerational Youth Summit. Invited plenary speaker: "After the Crisis: Building a Global Consensus for a Sustainable Wellbeing Economy." Penn State University, State College, PA, USA, Oct. 2, 2020 (via Zoom).
44. International Conference on Marine Science (ICMarin). Invited plenary speaker: "Valuing and Managing Marine and Coastal Ecosystem Services". Bogota, Columbia Sept. 29, 2020 (via Zoom).

45. ANU Webinar: The importance of leadership in the energy transition & Sustainable wellbeing futures. Invited speaker: "After the Crisis: Building a Global Consensus for a Sustainable Wellbeing Economy". June 24, 2020 (via Zoom)
46. The Transparency Project. Invited speaker: "The True Cost of Production and Consumption". University of South Australia, Adelaide, Australia, Feb. 21, 2008.
47. Transforming the PhD workshop. Invited speaker: "Valuation of Natural and Social Capital" University of South Australia, Adelaide, Australia, Feb. 18, 2008
48. Sustainable Prosperity Conference. Invited plenary speaker: "The Importance of Natural Capital and Ecosystem Services". University of Adelaide, Adelaide, Australia, Jan 13, 2020

2019

49. Towards the Wellbeing Economy Conference. Invited speaker: "Building a Global Consensus for a Sustainable Wellbeing Economy" Leiden University, the Netherlands (via skype), Dec. 12, 2019.
50. Invited lecture. "Ecological Economics in an Ecological Civilization." Guizhou Education University. Guizhou, China. Nov. 23, 2019
51. Ecological Economics and Ecological Civilization International Forum. Invited keynote speaker: "Ecological Economics in an Ecological Civilization." Peking University, Beijing, China, Nov. 15, 2019.
52. Invited seminar, University of Mantanzas: "Natural Capital and Ecosystem Services Valuation and Management" Mantanzas, Cuba, Nov. 4, 2019
53. Invited public seminar in celebration of the 40th Anniversary of the Centro de Investigacion en Ciencias del Mar y Limnologia (CIMAR): "Natural Capital Valuation and Management." University of Costa Rica, San Jose, Costa Rica, Oct 31, 2019.
54. Symposium on Blue Economy in Costa Rica: an Ecological Economics Perspective. Plenary speaker: "Ecological Economics and the Blue-Green Sustainable Wellbeing Economy." National University of Costa Rica, Oct. 29, 2019
55. 10th Ecosystem Services Partnership (ESP) World Conference: 10 years advancing ecosystem services science, policy, and practice for a sustainable future. Opening welcoming plenary address: "Ecosystems Services (Partnership) for a sustainable and desirable future." Hannover, Germany, Oct. 21, 2019.
56. Nature of Wonders (NOW) congress. Invited plenary speaker: "Creating a sustainable and desirable future". Delphi, Greece. Oct. 12, 2019
57. Designing for a Wellbeing Economy. Invited speaker: "Designing and measuring a wellbeing economy" Mentally Friendly, Canberra, Australia
58. New Economy for the 21st Century Conference. Invited speaker: "Overcoming our societal addiction to growth", University of Iceland, Reykjavik, Iceland. Aug. 27, 2019.
59. Invited seminar, Environmental Protection NGO Jing, "Creating an Ecological Civilization" Beijing, China, Aug. 4, 2019
60. Invited seminar, Center for Environmental Data Analysis & Application, Chinese Academy for Environmental Planning: "Ecosystem Services Valuation and PES" Beijing, China, Aug. 2, 2019
61. Invited seminar, Institute of Geochemistry, Chinese Academy of Sciences: "Creating an Ecological Civilization" Guiyang, China, July 31, 2019
62. University of Queensland Global Change Institute, Global Change Scholars Program. Invited seminar: "Creating a Sustainable and Desirable Future." Brisbane, Australia, May 27, 2019
63. Sustainable Seas webinar. Centre for Sustainability, University of Otago. "Valuing and managing marine and coastal ecosystem services" Dunedin, New Zealand. April 11, 2019.
64. Public talk, St. David's theatre. "Treating our societal addiction to growth" Dunedin, New Zealand. April 10, 2019
65. Public talk, Southern Institute of Technology, "Treating our societal addiction to growth" Invercargill, New Zealand. April 9, 2019

2018

66. A Community on Ecosystem Services (ACES) 2018 Bi-Annual Conference. Invited opening plenary speaker: "Challenges and Opportunities for Ecosystem Services". Washington, DC. Dec. 5, 2018.
67. A Community on Ecosystem Services (ACES) 2018 Bi-Annual Conference. Invited panel speaker: "Ecosystem Services and/or Nature's Contributions to People". Washington, DC. Dec. 6, 2018.
68. Florida Gulf Coast University. Invited Lecture: "The importance of including natural capital in a sustainable economic model for Southwest Florida." Naples, FL. Dec. 3, 2018
69. Florida Gulf Coast University, . Invited Lecture: "The Value of Wetlands: Past, Present, and Future." Naples, FL. Dec. 3, 2018
70. Territory Natural Resource Management 2018 Annual Conference. Invited plenary speaker: "Ecosystem Services Valuation." Darwin, Australia. Nov. 14, 2018
71. Club of Rome 50th Anniversary Conference. Invited plenary speaker: "What Economics Does a Full World Need?" Rome, Italy. Oct. 17-18, 2018
72. European Forestry Institute (EFI) 2018 Scientific Seminar: Forests: Interconnecting Sustainable Development Goals for Action. Invited plenary speaker: "Making the UN Sustainable Development Goals Work for Sustainable Wellbeing." Alghero, Sardinia, Italy. Sept. 27, 2018

73. University of Queensland Global Change Institute, Global Change Scholars Program. Invited seminar: “Creating a Sustainable and Desirable Future.” Aug. 30, 2018
74. International Association for Great Lakes Research (IAGLR) annual conference: Great science for tomorrow’s solutions. Invited plenary speaker: “Valuing and Managing Aquatic Ecosystem Services.” Toronto, Canada, June 18-22, 2018.
75. Chinese Association for Science and Technology (CAST). Frontiers Forum on Ecology and Energy. Invited plenary speaker: “Modeling and Measuring Sustainable Wellbeing in Connection with the UN Sustainable Development Goals” Beijing, China, June 12-13, 2018.
76. Economic values of the Northern Territory marine and coastal environments. Invited speaker. Darwin, Australia, June 7, 2018
77. Invited keynote speaker, Too Tokoi (Mountain Forest) Forum. Bishkek, Kyrgyzstan, April 13, 2018
78. Invited seminar. “Creating the future we want.” American University of Central Asia. Bishkek, Kyrgyzstan, April 12, 2018
79. Invited speaker. Northern Territory Ecosystems: What are they worth? Darwin, Australia, March 14, 2018
80. Invited lecture. University of Iceland: “Treating our societal addiction to growth.” Reykjavik, Iceland, Feb. 22, 2018

2017

81. BioEconomy Investment Summit. Invited keynote speaker: “The need for a new global economic paradigm as a basis for a sustainable and desirable future” Helsinki, Finland, Dec. 14, 2017
82. Opportunities and Challenges of Sustainable Forest Bioeconomy. Invited plenary: “The Circular Bioeconomy and Grand Societal Challenges.” Wanha Satama, Helsinki, Finland, Dec. 13, 2017
83. 9th Ecosystem Services Partnership (ESP) World Conference: Ecosystem Services for EcoCivilization. Opening keynote speaker: “Twenty years of ecosystem services: How far have we come and how far do we still need to go?” Shenzhen, China, Dec. 11, 2017.
84. 9th Ecosystem Services Partnership (ESP) World Conference: Ecosystem Services for EcoCivilization. Opening welcoming plenary address. Shenzhen, China, Dec. 11, 2017.
85. Hainan University. Invited seminar: “Ecosystem Services and Sustainable Ecotourism”. Haikou, China, Dec. 6, 2017.
86. Wellbeing Economy Festival (WEF): Building a movement for the new economy. Invited plenary speaker: “From unequal development to wellbeing: research and action to connect people and nature” Pretoria, South Africa. Nov. 27, 2017
87. XIV International Media Forum on the Protection of Nature: Economy and Finance in the No-Carbon Era. Invited Round Table speaker: “Degrowth to stay within the biosphere’s limits” Larderello, Italy, Nov. 2, 2017
88. XIV International Media Forum on the Protection of Nature: Economy and Finance in the No-Carbon Era. Invited Round Table speaker: “Decarbonizing Finance” Florence, Italy, Nov. 2, 2017
89. Urban Habitat and Imagination International Conference. Invited plenary speaker: “Urban and regional design using the four capital approach of Ecological Economics”. Pistoia, Italy. Oct. 28, 2017
90. Festival of New Economic Thinking. Invited Panel speaker: “Alliance for Sustainable Prosperity”. Edinburgh, Scotland, Oct 19, 2017
91. Centro Internacional de Política Económica para el Desarrollo Sostenible (CINPE). Invited seminar: “The Value of Wetland” San José, Costa Rica, Oct. 13, 2017.
92. Centro Internacional de Política Económica para el Desarrollo Sostenible (CINPE). Workshop on a new institutional framework for natural capital management in Costa Rica. Plenary presentation: “Ecosystem Services, PES, and Common Asset Trusts” San José, Costa Rica, Oct. 11, 2017
93. Centro Internacional de Política Económica para el Desarrollo Sostenible (CINPE). Workshop on the future of ecosystem services in Costa Rica. Plenary presentation: “Ecosystem Services and Scenario Planning” San José, Costa Rica, Oct. 9, 2017
94. Building a New Economy for Australia. Invited plenary speaker: “The Reforms Needed to Build an Ecological Economy.” Brisbane, Australia, Sept 1-3, 2017.
95. Creating a Sustainable and Desirable Future (in the pub). Smith’s Alternative, Canberra, Australia, July 26, 2017.
96. After Growth: reimagining economies for the Anthropocene. Invited plenary speaker: “Creating a Sustainable and Desirable Economy-in-Society-in-the-Rest-of-Nature.” University of Technology Sydney, Sydney, Australia, July 17, 2017
97. Social-Ecological Resilience of Freshwater Systems in the Anthropocene. Invited plenary speaker: “Modeling Resilience, Health, and Transformation.” Nanjing, China, July 8-10, 2017.
98. 16th Annual South African Marine Science Society (SAMSS) Conference: Unlocking the ocean’s economic potential whilst maintaining social and ecological resilience. Invited plenary speaker: “Valuing and Managing Marine and Coastal Ecosystem Services” Port Elizabeth, South Africa. July 4-7, 2017.
99. Asia Pacific Week. Invited speaker in session: Surviving the 21st Century Sustainability in the Asia Pacific. Talk titled: “Can Humanity and the Rest of Nature Thrive in the 21st Century?” Australian National University, Canberra, Australia, June 29, 2017
100. Australian Agricultural & Resource Economics Society (AARES) invited seminar: “Payment for Ecosystem Services and Common Asset Trusts” Canberra, Australia, June 20, 2017.

101. CSIRO Cutting Edge Science Symposia: Assessing Cumulative Impacts - Pitfalls, Successes and Next Steps. Invited speaker: "Resilience, Efficiency, Cumulative Impacts and the Perfect Storm." Hobart, Australia. June 13-15, 2017
102. IKnowFood launch event: Global Food Security in the 21st Century - How Resilient is our Food System? Invited speaker: "Food and other ecosystem services from sustainably managed, integrated landscapes" University of York, York, UK. June 8, 2017
103. ANU Climate Change Institute. Invited speaker: Climate Café: Can Societal Addiction Therapy transform our approach to climate change? Canberra, Australia, May 29, 2017
104. ANU/NAB/ELD workshop on Solutions for Sustaining Natural Capital. Synthesis of the workshop. Canberra, Australia, May 25-27, 2017
105. Marsico Lecture, University of Denver, Dept. of Geography and Environment: "Overcoming Societal Addictions and Creating Sustainable Futures: What can we learn from individual therapies?" Denver, CO, May 18, 2017
106. 1st Annual Regenerative Future Summit. Invited plenary lecture: "Ecological Economics: Integrating the Economy, Society, and the Rest of Nature to Create the Future We Want." Boulder, CO. May 15, 2017
107. Seminar in Ecology and Evolution, School of Natural Sciences, Trinity College. Invited speaker: "The UN Sustainable Development Goals and the Dynamics of Wellbeing: Creating the Future We Want." Dublin, Ireland, April 7, 2017
108. [Australia New Zealand Society for Ecological Economics \(ANZSEE\) biannual conference](#). Invited speaker: "What is Ecological Economics". University of South Australia, Adelaide, Australia, Jan. 9-13, 2017.

2016

109. [A Community on Ecosystem Services \(ACES\)](#) conference: Implementation Advances and Challenges. Invited plenary panel speaker: "Implementation advances and challenges", Jacksonville, FL, USA. Dec. 5-9, 2016.
110. [A Community on Ecosystem Services \(ACES\)](#) conference: Implementation Advances and Challenges. Invited speaker session on Critical gaps and challenges in the definition and implementation of ecosystem services. Talk titled: "Spatially explicit modelling an gamefication of ecosystem services", Jacksonville, FL, USA. Dec. 5-9, 2016.
111. [International Conference on Water Security and Climate Change: Challenges and Opportunities in Asia](#). Invited plenary keynote speaker: "Water and Ecosystem Services". Asian Institute of Technology, Bangkok, Thailand, Nov. 29 – Dec. 1, 2016.
112. [XIII GreenAccord International Media Forum on the Protection of Nature](#): People Building the Future: Climate Savers. Invited plenary speaker: "Building an Atmospheric Trust to Implement the Paris Agreement." Frosinone, Italy, Nov. 3-5, 2016
113. [39th T.B. Macaulay Lecture. James Hutton Institute](#). Lecture titled: "The UN Sustainable Development Goals and the Dynamics of Wellbeing. Edinburgh, Scotland, Oct. 13, 2016.
114. [Edinburgh Centre for Carbon and Innovation. Invited panel discussion](#) on "What has the concept of Ecosystem Services done for us? Taking Stock and Looking Forward?" Edinburgh, Scotland, Oct. 12, 2016.
115. University of Leeds, School of Earth and Environment. Invited panel discussion on "How can we make the transition to a sustainable and desirable future?" Leeds, UK, Oct. 10, 2016.
116. After Fossil Fuels: The Next Economy, Invited plenary speaker: "Capitalism vs. Ecological Economics," Oberlin College, Oct. 6- 8, 2016.
117. 10th INTECOL International Wetlands Conference: Hotspots of biodiversity and ecosystems services under global change. Invited keynote speaker: "The value of wetlands". Changshu, China, Sept 20, 2016.
118. IUCN World Conservation Congress: Planet at the Crossroads. Invited speaker in session: Evaluating Healthy Nature for Human Health and Wellbeing: Connecting Science, Practice and Policy. Talk titled: "Evaluating the Health and Wellbeing of Humans and the Rest of Nature." Honolulu, Hawaii, Sept. 5, 2016
119. IUCN World Conservation Congress: Planet at the Crossroads. Invited speaker in session: Economics of Land Degredation (ELD). Talk titled: "Ecosystem Services Scenarios" Honolulu, Hawaii, Sept. 5, 2016
120. IUCN World Conservation Congress: Planet at the Crossroads. Invited speaker in session: Evaluating Healthy Nature for Human Health and Wellbeing: Connecting Science, Practice and Policy. Talk titled: "Ecosystem Services Accounting: Some Context and Global Progress." Honolulu, Hawaii, Sept. 5, 2016
121. 5th International Ecosummit: Ecological sustainability: engineering change. Invited speaker in Session: Soil-Plant Interactions and Soil Ecosystem Services Delivery. Talk titled: "Soil Ecosystem Services" Montpellier, France, Aug. 31, 2016
122. 5th International Ecosummit: Ecological sustainability: engineering change. Invited speaker in Session: Ecosystem Services. Talk titled: "The Global Value of Ecosystem Services: Past, Present, and Alternative Futures" Montpellier, France, Aug. 30, 2016
123. 5th International Ecosummit: Ecological sustainability: engineering change. Invited speaker in Session: The Maximum Power of H.T. Odum. Talk titled: "Overcoming Societal Addictions: What Can We Learn From Individual Therapies?" Montpellier, France, Aug. 29, 2016
124. II Internacional Symposium of Ecology: Ecology in the Anthropocene. Invited keynote speaker: "The Global Value of Ecosystem Services: Past, Present, and Alternative Futures." São Carlos, Brazil, Aug. 17, 2016.
125. Chesapeake Biological Lab, University of Maryland Center for Environmental Science (UMCES), invited lecture: "Building a sustainable and desirable economy-in-society-in-nature." Solomons, Maryland, Aug. 10, 2016

126. Ecological Society of America (ESA) annual conference. Invited speaker in symposium: Human Ecology, Human Economy: Towards Good Governance of the Anthropocene. Talk titled: "Ecological economics for a prosperous, fair, and sustainable future" Fort Lauderdale, Florida, Aug. 9, 2016.
127. Victoria University of Wellington. Invited lecture: "Natural capital and ecosystem services" Wellington, New Zealand, July 27, 2016.
128. 2016 EcoForum Global Annual Conference. Invited session keynote speaker: "Natural Resource Asset Accounting: Building a Sustainable, Equitable and Prosperous Economy-in-Society-in-Nature." Guiyang, China. July 9, 2016
129. 2016 EcoForum Global Annual Conference. Invited participant, CCTV panel on building an ecological civilization. Guiyang, China. July 9, 2016
130. ANU Asia Pacific Week: Challenging growth: what kind of growth does Asia-Pacific need this century?. Invited panalist. Canberra, Australia, June 27, 2016
131. 6th National NRM Knowledge Conference: People, Planet and Profits. Invited Keynote speaker: "Environment driving social and economic outcomes." Coffs Harbor, Australia, June 7, 2016.
<http://www.conference.nrmregionsaustralia.com.au/program.php>
132. 2016 Asian Ecosystem Services Partnership (ESP) Conference: Ecosystem Services for Nature Based Solutions. Invited keynote talk: "Ecosystem Services for Nature-based Solutions in Korea" Ansan, South Korea. May 31, 2016.
<http://www.esconference.org/asia2016/wiki/164167/keynotes#.V00b6ZN95E4>
133. Seoul National University. Invited Seminar: "The value of coastal ecosystem services" Seoul, South Korea, May 26, 2016
134. CSIRO Land and Water Group and Team Leaders Meeting. Invited plenary talk: "Creating the future we want". Melbourne, Australia, May 25, 2016
135. Future Earth Australia Workshop. Invited plenary speaker: "Building a sustainable and desirable economy-in-society-in-nature." Canberra, Australia, April 28-29, 2016
136. Australian Government, Department of Employment. Invited seminar: "Beyond GDP: Measuring and enhancing sustainable wellbeing" Canberra, Australia, March 31, 2016
137. Economy and Environment Institute (EEI) Indonesia. International Seminar on Integrating Ecosystem Services into the Development Agenda, Invited Plenary speaker: "The Global and National Values of Ecosystem Services: Past, Present, and Alternative Futures." Jakarta, Indonesia, Feb. 29, 2016. <http://tinyurl.com/materi-sem-eeii>
138. University of Indonesia, Invited Seminar: "The Global and National Values of Ecosystem Services: Past, Present, and Alternative Futures." Jakarta, Indonesia, Feb. 29, 2016.
139. Mini-Symposium: Systems and sustainability in time and space. Invited opening keynote speaker: "Building a Sustainable and Desirable Future: Shared Goals, Integrated Models, Well-being Metrics, and Societal Therapy." University of Twente, The Netherlands (via interactive video). Feb. 18, 2016.
140. Scenario Planning Workshop: Barker Inlet and Port River Estuary. Invited plenary speaker: "Scenario Planning". Feb 8-11, 2016.
141. Chinese Academy of Sciences workshop on the value of Panda reserves. Invited plenary talk: "Ecosystem Services Valuation for Panda Reserves" Chengdu, China. Jan. 14-29, 2016.
142. The National Academies of Sciences, Engineering, and Medicine. Transition toward Sustainability after 15 Years: Where Do We Stand in Advancing the Scientific Foundation? Invited speaker: "Integrating Metrics, Models and Visions to Transition Toward Sustainability." Newport Beach, CA. Jan. 14-15, 2016

2015

143. Earth System Governance Conference. Invited session speaker: "Overcoming Societal Addictions: What Can We Learn From Individual Therapies?" Canberra, Australia, Dec. 14, 2015
144. 8th Annual Ecosystem Services Partnership (ESP) Conference. Opening welcoming address. Stellenbosch, South Africa, Nov. 9-13, 2015.
145. 8th Annual Ecosystem Services Partnership (ESP) Conference. Invited session presentation: "Global economic impacts of land degradation: Using scenarios to inform decision makers". Stellenbosch, South Africa, Nov. 9-13, 2015.
146. Australia New Zealand Society for Ecological Economics (ANZSEE) biannual conference. Invited keynote speaker: "Overcoming Societal Addictions". University of New England, Armidale, Australia, Oct. 20, 2015
147. Club of Rome annual meeting: Prosperity within limits. Invited plenary talk: "Can we create a new economic system without collapse?" Winterthur, Switzerland, Oct. 16, 2015
148. Economia e Sostenibilità. Invited lecture: "The need for an ecological economy." Milan, Italy, Oct 15, 2015
149. Bocconi University. Centre for Research on Energy and Environmental Economics and Policy. Invited lecture: "Income, welfare and happiness: the indicators beyond GDP." Milan, Italy, Oct. 15, 2015.
150. Special session at the European Parliament sponsored by "Materia Rinnovabile – Renewable Matter" magazine
Invited presentation: "Toward a Circular, Ecological Economy: a Message to COP21." Brussels, Belgium, Oct. 14, 2015.
151. Massey University. Invited seminar: "Investing in Natural Capital and Getting Returns through Ecosystem Services." Palmerston North, New Zealand, Oct. 6, 2015.
152. Strategizing for Investment in Natural Capital and Getting Returns. Invited speaker. Willeston Conference Centre, Wellington, New Zealand. Oct. 5, 2015.

153. Economics of Land Degredation (ELD) seminar at the UN: “Land Solutions: An Economics of Land Degredation Presentation” Invited opening session panel presenter. UN headquarters, New York, NY. Sept. 24, 2015.
154. Bard College. National Climate Seminar: Invited dial-in and podcast on “Claim the Sky” Sept. 23, 2015. <http://www.bard.edu/cep/programs/climateseminar/archive/index.php?year=2015>
155. Sustainable Engineering Society of Australia Conference: Dynamic EcoLibrium. Invited keynote speaker: “Creating a Sustainable and Desirable Society in Dynamic EcoLibrium” and panel discussant. Adelaide, Australia, Sept. 9-10, 2015
156. University of York. York Environmental Sustainability Institute (YESI). Invited lecture: “Creating the future we want.” York, UK. August 28, 2015
157. [Best Festival Ever](#) at the Street Theatre in Canberra. Invited post-show presentation on complex systems science. Canberra, Australia, August 22, 2015
158. Chinese Society of Ecological Economics Advanced Forum on Frontiers of Ecological Economics Research. Invited Keynote lecture: “Creating a Sustainable and Desirable Future” Beihai, Shandong, China, August 15, 2015
159. Agribusiness Today: Mixed Farming Systems of the Future Forum. Invited plenary talk “Natural Capital and the Future of Farming” Forbes, Australia, August 13, 2015.
160. Australian Marine Sciences Association annual conference. Invited plenary talk: “Valuing marine and coastal ecosystem services” Geelong, Australia, July 9, 2015.
161. Eco-Forum Global Annual Conference: Embracing a New Era of Eco-Civilization, New Agenda, New Normal, New Action. Invited panel speaker: Natural Capital Forum (live and recorded for TV broadcast). Guiyang, China, June 27, 2015. <http://tv.cntv.cn/video/C10243/0bb6c444fa4d3ddfe9be2ad0a4e5c44>
162. Governance Innovation Week, Workshop on: Beyond GDP: Alternative economic paradigms for the 21st Century. Invited plenary speaker: “Why we need an alternative economic paradigm” University of Pretoria, Pretoria, South Africa, June 2-4, 2015
163. PARSA (Postgraduate And Research Students Association) Knowledge Conference. Invited plenary speaker: “A New Development Paradigm for the Anthropocene” Canberra, Australia, May 5, 2015
164. AMLR NRM Forum on Restoration of Coastal Saltmarsh near Adelaide, South Australia: Coastal Saltmarsh: planning for restoration. Invited keynote speaker: “The Value of Saltmarshes”. Adelaide, Australia, April 15, 2015.
165. University of Cambridge Programme for Sustainability Leadership. Invited speaker: “Measuring and Creating Sustainable Human Well-Being. Werribee Park, Australia, March 2, 2015
166. deTao Masters Academy Conference on the Future New Economy: a Sustainable Model Towards and Ecological Economy. Invited plenary kickoff speaker: “Building a Sustainable, Equitable, and Prosperous Economy-in-Society-in-Nature.” Shanghai, China, Feb. 8, 2015
167. Chulalongkorn University. Invited seminar: “Beyond GDP: Building a Sustainable and Desirable Future” Bangkok, Thailand, Feb. 5, 2015
168. Economics of Land Degredation (ELD) workshop: Invited presentation: “Data and Methodology Working Group Overview” Bangkok, Thailand, Feb. 2, 2015.
169. Asian Development Bank, Greater Mekong Subregion Natural Capital Dialogue. Invited plenary speaker: “The Role of Natural Capital in Sustainable Development”. Nay Pyi Taw, Myanmar, Jan. 28, 2015.

2014

170. Gund Institute for Ecological Economics. Invited seminar: “Progress Toward Creating Ecological Economies: A Multi-hemispheric Survey”. Burlington, VT. Dec. 18, 2014.
171. 2nd National South African Conference on Global Change. Invited opening keynote speaker: “Creating a sustainable and desirable future” Port Elizabeth, South Africa, Dec. 2, 2014 (via interactive video).
172. CRN Northern Australia Development Conference: A Northern Perspective. Invited plenary speaker: “What would sustainable development of Northern Australia look like? Canberra, Australia, Nov. 27, 2014.
173. IUCN World Parks Congress. Invited panel speaker in the Transforming Conservation Objectives under a Changing Climate session. Talk titled: “The Value of Parks and Protected Areas in a Changing Climate” Sydney, Australia, Nov. 14, 2014
174. Asociacion Argentina de Ecologia Annual Congress. Invited plenary speaker: “Ecosystem Services Science”. Comodoro Rivadavia, Argentina, Nov. 4, 2014 (via interactive video)
175. Beyond GDP in Africa: Innovative Ideas for a Regional Dashboard. Invited opening address: “Why it’s time to leave GDP behind” University of Pretoria, Pretoria, South Africa, Oct. 28, 2014 (via interactive video)
176. ANU Human Ecology Forum: Transforming Culture. Invited seminar: “A theory of socio-ecological system change.” Canberra, Australia, Oct 17, 2014. <http://hec-forum.anu.edu.au/index.php>
177. Australia’s Sustainability in Business Conference and Exhibition. Invited semi-plenary talk: “The state of natural capital valuation.” Melbourne, Australia, Oct. 15, 2014
178. Fenner Conference on the Environment: Addicted to Growth? How to move to a Steady State Economy in Australia. Invited plenary speaker: “Overcoming our addiction to ‘growth at all costs’” Sydney, Australia, Oct. 2-3, 2014. http://www.ies.unsw.edu.au/sites/all/files/uploads/2014_FennerConf/proceedings/audio/Prof%20Robert%20Costanza.mp3
179. Ecological Society of Australia Annual Conference. Invited opening keynote speaker: “Ecosystem Services Science” Alice Springs, Australia, 28 Sept. 2014

180. Great Green Debate 2014. Invited speaker and panelist. ANU. Canberra, Australia, 24 Sept. 2014.
181. 17th International River Symposium. Invited keynote speaker: "Challenges and opportunities for engaging the business community around Natural Capital". Canberra, Australia, 17 Sept. 2014
182. 7th International Conference of the Ecosystem Services Partnership (ESP): Local action for the common good. Invited keynote speaker: "Changes in the global value of ecosystem services" San José, Costa Rica, 8-12 Sept. 2014.
183. James Cook University. Invited public lecture: "Creating a Sustainable and Desirable Future" Cairns, Australia, 28 August, 2014
184. Center for Tropical Environmental and Sustainability Science (TEES), invited seminar: "Ecosystem Services Science" Cairns, Australia, 27 August 2014.
185. Environmental Defense Society (EDS) National Conference. Navigating Our Future: Addressing risk and building resilience. Invited keynote speaker: "Creating a sustainable and desirable future" Auckland, New Zealand (via video link), 6 Aug, 2014.
186. IUCN Science Informing Policy Symposium Series: Valuing Nature: Protected Areas & Ecosystem Services. Invited Keynote Speaker: "Ecosystem Services in Theory and Practice." Brisbane, Australia, 21-22 July 2014,
187. South African National Biodiversity Institute (SANBI). Invited seminar: "Measuring Sustainable Human Well-Being". Cape Town, South Africa. June 6, 2014. <http://www.sanbi.org/news/robert-costanza-delivers-talk-measuring-sustainable-human-well-being-sanbi>
188. Economics of Land Degradation (ELD) Initiative. Invited speaker: "Toward an Integrated Ecology and Economics of Land Degradation and Restoration: Methods, Data, and Models" Nairobi, Kenya June 3-4, 2014
189. Australian Centre for Ecological Analysis and Synthesis (ACEAS) Grand Workshop: Science Making Sense. Invited speaker and panelist. "Where to from here?" May 7-9, 2014, Canberra, Australia.
190. Environment Canterbury. Invited seminar. "Valuing Natural Capital and Ecosystem Services" April 23, 2014. Christchurch, New Zealand.
191. Food and Environmental Security: Australia's Contribution. Invited plenary speaker: "Geographically appropriate integrated agriculture" April 17, 2014, Canberra, Australia
192. Australian Fabians. Invited seminar: "Why Sustainability Matters: Rethinking Growth and GDP" April 7, 2014. Canberra, Australia
193. Indian Institute of Forest Management and National Tiger Conservation Authority workshop on Economic Valuation of Tiger Reserves in India. Invited plenary speaker: "Valuing the ecosystem services of tiger reserves." March 24, 2014, New Delhi, India (via interactive video).
194. Murray-Darling Basin Authority. Invited seminar: "Valuing our ecosystems" March 19, 2014. Canberra, Australia.
195. Victorian National Parks Association. Invited seminar: "Valuing a natural Westernport bay. March 4, 2014, Melbourne, Australia
196. Net Balance. Invited seminar: "Natural capital and human well-being" March 3, 2014. Melbourne, Australia
197. Chinese Research Academy of Environmental Sciences (CRAES). Invited talk: "Natural resources valuation" March 1, Beijing, China.
198. Peking University, College of Engineering. Invited talk: "Solutions for a sustainable and desirable future" Beijing, China, Feb. 28, 2014.
199. deTao Masters Academy. Invited talk: "Opening the Institute of Green Investment" Feb. 25, Shanghai, China
200. Sustainable Population Australia. Invited talk: "Creating a sustainable and desirable future" Feb. 22, 2014, Canberra, Australia.
201. Environment as an integral part of the post 2015 agenda. Sustainable Development Goals side event Sponsored by UNEP, the German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety, and the Finnish Ministry of the Environment. Invited panelist. Feb. 6th. 2014. UN Headquarters, New York, NY.

2013

202. International Conference on Valuation and Accounting of Natural Capital for Green Economy (VANTAGE) in Africa. Invited plenary speaker: "Building a Sustainable, Fair, and Prosperous Economy-in-Society-in-the Rest of Nature. UNEP Headquarters, Nairobi, Kenya. Dec. 3-4, 2013. <http://www.esv-valuation.org/index.php/esv-unit/44-vantage-conference/82-vantage-conference>
203. Uppsala University. Invited seminar (via skype): "Ecological Economics as a Framework for Sustainability" Nov. 20, 2013.
204. Australia 21 and Department of Agriculture FORUM: Considering the Environment in National Strategic Thinking. Invited keynote speaker: "How An Ecosystem Services Framework Can Be Used for Thinking About the Future". Canberra, Australia, Nov. 15, 2013.
205. Australia New Zealand Society for Ecological Economics (ANZSEE) annual conference. Invited keynote speaker: "Why transdisciplinary research is essential to achieving a sustainable and desirable future" Canberra, Australia, Nov. 11-14, 2013. <http://anzsee.org/anzsee-conference-2013/anzsee-2013-conference-speakers/>
206. GreenAccord X International Media Forum on the Protection of Nature: People Building the Future: A Future without waste. Invited Keynote address: "Waste, Prosperity, and Sustainability: toward a zero waste economy-in-society-in-nature. Naples, Italy, Nov. 6-9, 2013
207. Hebrew University. Invited seminar: "Sustainability Economics and Valuing Ecosystem Services" Jersusalem, Israel, Nov. 4, 2013

208. Milken Institute. Invited seminar: "Solutions for a sustainable and desirable future." Jerusalem, Israel, Nov. 4, 2013
209. Tel Aviv University, Porter School of Environmental Studies. Invited seminar: "Solutions for a sustainable and desirable future." Tel Aviv, Israel, Nov. 1, 2013.
210. Nanyang Technological University, Complexity Program. Invited seminar: "Solutions for a sustainable and desirable future." Singapore, Oct. 28, 2013.
211. Lincoln University invited lecture: "Ecosystem Services and Sustainable Human Well-Being". Lincoln, New Zealand, Oct 17, 2013
212. Auckland Conversations: invited speaker "Auckland's Natural Advantage" Auckland, New Zealand, Oct. 16, 2013.
213. Changing Currents: Water New Zealand's Annual Conference and Expo. Invited Keynote speaker: "Valuing our ecosystems." Hamilton, New Zealand, Oct. 16, 2013
214. Massey University invited seminar: "Ecosystem Services: Why valuing nature is key to New Zealand reaching its full potential" Palmerston North, New Zealand, Oct. 14, 2013
215. 16th International River Symposium: Rivers: Water-Energy-Food. Invited Keynote speaker: "Ecosystem Services of Rivers and Watersheds". Brisbane, Australia, Sept 24, 2013
216. Sustainable Engineering Society. SEng 2013 Conference. Invited Keynote speaker: "Solutions for a sustainable and desirable future" Canberra, Australia, Sept. 19, 2013
217. 15th National Conference on Volunteering. Invited Keynote speaker: "Building a sustainable and desirable economy" Adelaide, Australia, Sept. 5, 2013. <http://www.volunteeringconf2013.org.au/speakers/>
218. 6th Annual Ecosystem Services Partnership (ESP) Conference. Making Ecosystem Services Count. Opening address. Bali, Indonesia, Aug. 26-30, 2013
219. 6th Annual Ecosystem Services Partnership (ESP) Conference. Making Ecosystem Services Count. UNEP Session on Proecoserv project. Invited plenary talk: "Ecosystem Services and Sustainable Human Well-Being", Bali, Indonesia, Aug. 26-30, 2013
220. Canberra Urban and Regional Futures (CURF), Centenary Seminary Series, Invited lecture: "Solutions for a Sustainable and Desirable Future." Canberra, Australia, August 14, 2013
221. ANU Public Policy 2013. Crawford School of Public Policy. Invited speaker: "Equity, social capital, and well-being in public policy." Canberra, Australia, June 7, 2013
222. Australia in the Anthropocene: Warnings and Options. Invited plenary speaker: "Measuring sustainable human well-being." Sydney, Australia, May 13-15, 2013.
223. The Performance of Environmental Governance Systems: Comparing America and China. Invited plenary speaker: "Ecosystem Services and Environmental Governance: China, the U.S. and the Rest of the World" Nanjing, China, May 6-7, 2013
224. Invited lecture to local government officials: "Ecosystem Services and Sustainable Human Well-Being" Baotou, China, May 4, 2013.
225. Etopia. Invited workshop. Vivement 2050! Building a Sustainable and Desirable Economy-in-Society-in-Nature. April 29, 2013, Brussels, Belgium.
226. Conseil Régional Ile-de-France. Invited lecture: Vivement 2050! Building a Sustainable and Desirable Economy-in-Society-in-Nature. April 29, 2013, Paris, France.
227. Dauphine University. Invited lecture: Vivement 2050! Building a Sustainable and Desirable Economy-in-Society-in-Nature, April 26, 2013, Paris, France.
228. Institute for Sustainable Development and International Relations (IDDRI), invited lecture: Vivement 2050! Building a Sustainable and Desirable Economy-in-Society-in-Nature. April 25, 2013, Paris, France.
229. Crawford School Seminar Series, Australian National University. "Solutions for a Sustainable and Desirable Future" April 16, 2013. Canberra, Australia. <https://crawford.anu.edu.au/news/226/planting-seeds-new-world-economy>. <http://youtu.be/ROSkW1a6yA0>
230. Barbara Hardy Institute, University of South Australia, Invited Distinguished Lecture Series Speaker: "Solutions for a Sustainable and Desirable Future". April 13, 2013. Adelaide, Australia. <http://www.unisa.edu.au/Calendar/Solutions-for-a-Sustainable-and-Desirable-Future/>
231. IV Congreso Mexicano de Ecología. Invited plenary speaker: "Ecosystem Services and Sustainable Human Well-Being". March 22, 2013. Villahermosa, Mexico. <http://www.ujat.mx/interioradentro.aspx?NODO=16&ID=18012>
232. IV Congreso Mexicano de Ecología. Invited speaker in symposium Haciendo real la sustentabilidad, talk titled: "Solutions for a Sustainable and Desirable Future". March 21, 2013. Villahermosa, Mexico.
233. IV Congreso Mexicano de Ecología. Invited special session speaker and coordinator: Problemas ambientales y soluciones ecológicas para México. March 20, 2013. Villahermosa, Mexico.
234. IV Congreso Mexicano de Ecología. Invited speaker: Scientific Café. March 19, 2013. Villahermosa, Mexico.
235. XIX International Conference of the Society for Human Ecology. Invited plenary speaker: "Implementing a new economic paradigm". Feb. 8, 2013, Australian National University, Canberra, Australia.
236. Georgetown University Center for the Environment. Invited seminar: "Solutions for a sustainable and desirable future". Jan 16, 2013. Washington, DC
237. Establishing Open Access Global Science Standards for Payment for Ecosystem Services. Sponsored by the Keck Foundation. Invited plenary speaker: "The importance of getting the science and institutions right for managing ecosystem services" Jan. 15, 2013, Columbia University Earth Institute, New York, NY.

238. Resilience and Sustainability: a transdisciplinary symposium. Sponsored by USEPA. Invited plenary speaker: "Systems thinking and sustainability" Jan. 14, 2013, Washington, DC.

2012

239. Workshop on Valuing Adaptation. Invited plenary speaker: "Valuing natural and social capital" Dec. 11, 2012, Monash University, Melbourne, Australia.
240. Kirkham Conference: Exploring Frontiers in Soil Physics. Invited plenary speaker: "Soil Ecosystem Services" Nov. 28-30, 2012, Massey University, Palmerston North, New Zealand.
241. Australian Bureau of Statistics. Invited seminar: "Measuring Sustainable Human Well-Being" Nov. 23, 2012, Belconnen, Australia.
242. SEQ Catchments Ecosystem Services Project Think Tank 5. Invited speaker: "Mainstreaming ecosystem services in decision making for sustainable development" Nov. 20, 2012. Brisbane, Australia
243. University of Queensland, Global Change Institute, Invited seminar: "Ecosystem Services and Sustainable Development" Nov. 19, 2012. Brisbane, Australia
244. SEQ Catchments Staff Workshop. Invited speaker: "Ecosystem Services" Nov. 16, 2012. Brisbane, Australia
245. Sino-American Workshop on Wetlands and Protected Areas. Invited plenary speaker; "Understanding, valuing and managing wetland ecosystems and their services." Beijing, China. Nov. 5-6, 2012
246. Beijing Normal University. Invited Seminar: "Solutions for a harmonious future". Beijing, China. Nov. 1, 2012
247. Beijing Agricultural University. Invited Seminar: "Solutions for a sustainable and desirable future". Beijing, China, Oct. 29, 2012
248. Chinese Ecological Society Wetlands Conference. Invited Plenary Speaker: "Wetland ecosystem services", Beijing, China, Oct. 28, 2012
249. Whitlam Institute Symposium: Expanding the economy: perspectives on growth, well-being, and prosperity. Invited opening address: "Redesigning the economy". Sydney, Australia, Oct. 24, 2012.
250. 4th International EcoSummit: Ecological Sustainability: Restoring the Planet's Ecosystem Services. Invited closing plenary talk: "Solutions for a Sustainable and Desirable Future" Columbus, OH, Oct. 5, 2012
251. 4th International EcoSummit: Ecological Sustainability: Restoring the Planet's Ecosystem Services. Invited symposium talk: "Restoration of Ecosystem Services and Novel Ecosystems" Columbus, OH, Oct. 4, 2012
252. 4th International EcoSummit: Ecological Sustainability: Restoring the Planet's Ecosystem Services. Invited symposium talk: "Challenges in Ecosystem Services Science" Columbus, OH, Oct. 4, 2012
253. 4th International EcoSummit: Ecological Sustainability: Restoring the Planet's Ecosystem Services. Invited symposium talk: "Ecosystem Services in Urban Contexts" Columbus, OH, Oct. 1, 2012
254. European Forum for New Ideas (EFNI). Invited Panelist: "Is the Political Crisis of the EU Going to Weaken the Position of European Companies". Sopot, Poland, Sept. 28, 2012
255. European Forum for New Ideas (EFNI). Invited Panelist (with Mikhail Gorbachev, Lech Walesa, and Hans-Dietrich Genscher): "Europe's Moral and Economic Dilemma in Light of Global Climate Change", Sopot, Poland, Sept. 28, 2012
256. EcoServe and City of Poznan. Invited public lecture: "Solutions for a Sustainable and Desirable Future". Poznan, Poland, Sept. 25, 2012
257. EcoServe conference: Ecosystem Services in Transdisciplinary Approach. University Adama Mickiewicza. Invited Plenary talk: "Ecosystem Services Come of Age: Linking Science, Policy and Participation for Sustainable Human Well-Being". Poznan, Poland, Sept. 24, 2012
258. Central European University, Department of Environmental Science and Policy. Invited Seminar: "Building a Sustainable and Desirable Economy-in-Society-in-Nature". Budapest, Hungary, Sept. 18, 2012
259. LH Forum: Movement for a Positive Economy. Invited Plenary talk: "Building a Sustainable and Desirable Economy-in-Society-in-Nature". Le Havre, France, Sept. 14, 2012.
260. CSIRO expert's workshop. Ecosystem Services: Opportunities and Challenges for their Use in Water Management. Invited plenary talk: "Valuing natural capital and ecosystem services". CSIRO corporate center, Canberra, Australia, Sept. 11, 2012.
261. Happiness 2012 conference, Invited plenary talk: "Sustainability & Gross National Happiness" Seattle University, Seattle, WA, August 25, 2012. <http://www.gnhusa.org/wp-content/uploads/2012/08/Happiness2012-program.pdf>
262. 97th Annual Ecological Society of America Conference: Life on Earth: Preserving, Utilizing, and Sustaining our Ecosystems. Invited Speaker in Session titled: Population, Environment and Sustainability Issues in the U.S. and invited speaker in Symposia titled: Commodifying Nature: The Scientific Basis for Ecosystem Services Valuation in Environmental Decision Making. Talk Titled: "The Promise and Pitfalls of Ecosystem Service Valuation". Portland, OR, August 10, 2012
263. 97th Annual Ecological Society of America Conference: Life on Earth: Preserving, Utilizing, and Sustaining our Ecosystems. Invited Moderator, Organized Oral Session titled: Population, Environment and Sustainability Issues in the U.S. and invited speaker: "Population, Environment, Economy, and Sustainability: Toward an Integrated Synthesis and a Desirable Future". Portland, OR, August 7, 2012
264. 5th Annual Ecosystem Services Partnership (ESP) Conference. Ecosystem Services Come of Age: Linking Science, Policy and Participation for Sustainable Human Well-Being. Conference Opening Address and Closing Remarks. Portland, OR, July 31-Aug 3, 2012. (<http://www.esconference.org>)

265. International Society for Ecological Economics (ISEE) annual meeting. Invited closing panel moderator and discussant. Rio de Janeiro, Brazil, June 18, 2012.
266. UN Conference on Sustainable Development (Rio+20). Invited presentation in UN Division of Sustainable Development (UNDESA) side event: "Building a sustainable and desirable economy-in-society-in-nature", Rio de Janeiro, Brazil, June 17, 2012.
<http://www.uncsd2012.org/rio20/index.php?page=view&type=1000&nr=24&menu=126>
267. Ecotrust Seminar: "Measuring Sustainable Human Well-Being" Portland, OR, June 6, 2012.
268. Deep Democracy Institute International. Climate Forum. Invited Panel Discussant. Portland, OR, June 3, 2012.
269. Stockholm Resilience Center (SRC), Stockholm Seminar: "Solutions for a Sustainable and Desirable Future," Stockholm, Sweden, May 29, 2012
270. University of Southampton, Institute for Life Sciences invited seminar: "Solutions for a Sustainable and Desirable Future" Southampton, UK, May 24, 2012
271. Crawford School of Public Policy, Australian National University, invited seminar: "Ecosystem Services Come of Age: linking science, policy and participation for a sustainable human well-being". Canberra, Australia, May 15 2012. <http://publicpolicy.anu.edu.au/events/content/more.php?id=6051>
272. Australian Center for Ecological Analysis and Synthesis (ACEAS) workshop on: Ecosystem services and livelihood opportunities for Indigenous rural communities in savanna landscapes of northern Australia, eastern Indonesia, Timor Leste, and PNG. Invited plenary speaker. "Ecosystem Services and Livelihood Opportunities" Darwin, Australia, May 7-11, 2012
273. Humanists of Greater Portland, invited lecture: "Solutions for a sustainable and desirable future" Portland, OR, April 29, 2012. <http://www.portlandhumanists.org/content/dr-robert-costanza>
274. The 2012 NatureServe Conservation and Natural Heritage Conference: Biodiversity Without Borders. Invited Keynote Speaker: "Valuing Ecosystem Services and Natural Capital." Portland, OR. April 22-26, 2012
<http://vimeo.com/42375176>
275. High Level Meeting on Well-Being and Happiness: Defining a New Economic Paradigm. Hosted by the Royal Government of Bhutan. Invited plenary speaker: Panel on Ecological Sustainability. United Nations Headquarters, New York, April 2, 2012.
276. Hanse-Wissenschaftskolleg Institute for Advanced Study. Invited lecture: "Solutions for a Sustainable and Desirable Future." Delmenhorst, Germany, Feb. 20, 2012
277. Linacre Lectures 2012. Invited lecture at Linacre College, Oxford University, titled: "Solutions for a Sustainable and Desirable Future" Oxford, England, Feb. 16, 2012
278. Invited presentation to the Prime Minister of Bhutan and his cabinet on: "An initial estimates of the value of ecosystem services in Bhutan." Feb. 10, 2012.

2011

279. 21st Annual Biennial Conference of the Coastal and Estuarine Research Federation (CERF). Invited Plenary Synthesis Session moderator: "Integrated Ecosystem Assessment: the Present State-of-the-Art" Daytona Beach, FL, Nov. 8, 2011
280. 21st Annual Biennial Conference of the Coastal and Estuarine Research Federation (CERF). Invited keynote speaker: "Solutions for Sustainable Prosperity of Humans and the Rest of Nature in the Coastal Zone" Daytona Beach, FL, Nov. 6, 2011
281. Cascadia Green Building Council Transformational Lecture Series. Invited lecture: "Flourishing on a biophysically limited planet: toward an ecological economics" Seattle, WA, Nov 2, 2011
282. Cascadia Green Building Council Transformational Lecture Series. Invited lecture: "Flourishing on a biophysically limited planet: toward an ecological economics" Vancouver, BC, Canada. Nov 1, 2011
283. Heceta Head Coastal Conference. Invited keynote speaker: "Managing the oceans and coasts: linking research, policy, and new institutions". Florence, OR, Oct. 28, 2011
284. 2011 Net Impact Conference. Invited panel presenter: "Ecosystem services: measuring the value of natural systems". Portland, OR Oct. 27, 2011.
285. 2011 Net Impact Conference. Invited featured panel presenter: "Our financial footprint: transforming the economic system through finance". Portland, OR Oct. 27, 2011.
286. James Cook University. Invited Seminar: "Solutions for a Sustainable and Desirable Future", Oct. 19, 2011, Townsville, Australia.
287. 4th Ecosystem Services Partnership (ESP) Conference: Ecosystem Services: Integrating Science and Practice. Invited kickoff plenary speaker: "Ecosystem Services in Science" Oct. 4, 2011, Wageningen, The Netherlands.
288. Advancing Sustainable Solutions. Invited plenary speaker: "Sustainable Solutions" Sept 23, 2011, Lund, Sweden (via interactive video).
289. In 100 Years – starting now. Invited speaker: "Advancing sustainable societies" Sept. 21, 2011, Copenhagen, Denmark (via interactive video).
290. The 30th Jubilee Meeting of the Balaton Group: Solutions for Successful Societies Invited Plenary speaker: "An Economy of Solutions" 8-13 September, 2011, Balatonszemes, Hungary
291. 8th International Association of Landscape Ecology (IALE) World Congress. Invited keynote plenary speaker: "Landscapes for sustainable well-being of humans and the rest of nature" Beijing, China. Aug. 18-23, 2011.

292. US State Department, Invited seminar: "Planning Approaches for Water Resources Development in the Lower Mekong Basin" Washington, DC. July 18, 2011
293. Stimson Center. Invited seminar: "Planning Approaches for Water Resources Development in the Lower Mekong Basin" Washington, DC. July 18, 2011
294. Workshop on Payment for Ecosystem Services. Invited plenary speaker: Valuing Natural Capital and Ecosystem Services, Santo Domingo, Dominican Republic. July 13, 2011
295. Fundacion Global Democracia y Desarrollo (FUNGLODE). Invited seminar: "Building a Green Economy: Solutions for a Sustainable and Desirable Future." Santo Domingo, Dominican Republic. July 11, 2011
296. World Universities Network (WUN) workshop on Adapting to Climate Change: Ecosystem Services, Complexity and People. Invited plenary speaker (via interactive video). University of Southampton, Winchester, UK. July 7, 2011.
297. Intel Trendspotting Summit, Invited speaker: "Computing Contributions to Sustainable Solutions" Intel Labs, Hillsboro, OR. June 22, 2011
298. Consultative Group on Biological Diversity (CGBD). Academy Session on Ecosystem Services. Invited talk: "Ecosystem Services: International Policy and Initiatives". Whitefish Lake, MT June 6, 2011.
299. Colloquium on Following Resources Across Disciplinary Boundaries. Invited plenary talk: "Toward a Sustainable and Desirable Future" Ecole Normale Supérieure de Lyon, Lyon, France. May 29-30, 2011. <http://iuf20ans.org/>
300. University of Antwerp invited seminar: "Toward a Sustainable and Desirable Future", Antwerp, Belgium May 26, 2011
301. VITO invited Seminar: "Toward Sustainable Solutions". Mol, Belgium May 26, 2011
302. Ecosystem Services and Poverty Alleviation (ESPA) workshop on Ecosystem Service Valuation. Invited speaker: "Valuing Ecosystem Services", Imperial College, London May 24, 2011
303. Society for Environmental Toxicology and Chemistry (SETAC) Europe 21st Annual Meeting. Ecosystem Protection in a Sustainable World: a Challenge for Science and Regulation. Invited Keynote speaker: "Toward Sustainable Solutions." Milan, Italy, May 18, 2011. <http://milano.setac.eu/?contentid=291>
304. EPA Western Ecology Lab. Invited seminar: "Solutions for a sustainable and desirable future". Corvallis, OR, April 14, 2011.
305. PSU Colloquium on Social Sustainability. Invited panel speaker. Portland State University, April 8, 2011
306. US International Association for Landscape Ecology. 26th Annual Symposium. Sustainability in Dynamic Landscapes. Invited plenary speaker: "Sustainable well-being of humans and the rest of nature in dynamic landscapes" Portland, OR, April 3-7, 2011
307. Washington State University at Vancouver. Science Programs' Seminar Series, Invited speaker: "Solutions for a Sustainable and Desirable Future." Vancouver, WA. April 4th, 2011
308. Accounting for the value of natural capital and ecosystem services. Workshop sponsored by the National Statistics Bureau of Bhutan. Invited plenary speaker: "An introduction to ecological economics". Thimphu, Bhutan, March 29-30, 2011
309. Department of Engineering and Technology Management, Portland State University, invited seminar: "Sustainable Prosperity within Planetary Boundaries". Portland, OR. Feb. 15, 2011
310. AAAS 2011 Annual Meeting. Invited speaker in session titled: "If a Culture of Growth Is Unsustainable, What Should Change?." Paper titled: "Flourishing on a biophysically limited planet: creating a culture of sustainability " Washington, DC Feb. 19, 2011.

2010

311. ACES – A Community on Ecosystem Services. Invited Plenary Panel speaker: "Advances and Challenges in Ecosystem Services Research, Applications, and Institutions." Phoenix, AZ. Dec. 6-9, 2010
312. The Economics of Ocean Acidification: Bridging the Gap Between Ocean Acidification Impacts and Economic Valuation. Invited Plenary Keynote speaker: "The Value of Biodiversity and Ecosystem Services". Oceanographic Museum, Monaco, Nov. 16-18, 2010
313. Fourth Annual International Conference on Business and Sustainability. Invited Keynote speaker: "Sustainable prosperity within planetary boundaries." Portland State University, Portland, OR. Nov. 4-5, 2010.
314. The EcoDistricts Summit. Invited Roundtable moderator: "How does thinking at the district scale drive innovation?" Portland State University, Portland OR. Oct. 25, 2010
315. International Symposium on Sustainability Science: The Emerging Paradigm and the Urban Environment. Invited plenary speaker: "The Value of Natural and Social Capital In Our Current Full World and in a Sustainable and Desirable Future." Montclair State University, Montclair, New Jersey (via interactive video). Oct. 25, 2010
316. Portland State University Systems Science Seminar Series. Invited speaker: "Understanding, modeling, and valuing ecosystem services." Portland, OR, Oct. 21, 2010
317. Oregon Department of Environmental Quality. Invited presentation: "Using Ecosystem Services for Improved Environmental Management". Portland, OR, Oct. 20, 2010
318. VIII International Media Forum on the Protection of Nature: People Building the Future: Boundaries and values for a sustainable lifestyle. Invited Keynote: "Flourishing within planetary boundaries" Cuneo, Italy, Oct. 13-16, 2010

319. Indiana University Themester Lecture/Workshop Colloquium Series <http://themester.indiana.edu/>: Invited talk: “The Ecological Economics of Sustainability: Moving Beyond Debate to Dialogue and Problem-Solving”, Bloomington, IN. Oct. 5, 2010
320. XX Congress of the Italian Ecological Society. Invited plenary speaker: “Understanding, modeling, and valuing ecosystem services.” University of Rome, Rome, Italy. September 27-29, 2010
321. TEDxUVM: Leading and Managing for Sustainability. Invited talk: “Creating a Sustainable and Desirable Future”, University of Vermont, Burlington, VT. July 19, 2010.
322. Solutions for Sustaining Natural Capital and Ecosystem Services. International Conference and Workshop. Salza Castle and Kiel University. Invited Plenary speaker: “Challenges of sustaining natural capital and ecosystem services: economic and social aspects.” Kiel, Germany, June 7-11, 2010.
323. Gross National Happiness USA conference. Invited plenary speaker: “Progress Indicators”. Champlain College, Burlington, VT. June 1-3, 2010
324. Society for Restoration Ecology, Restoration Institute. Invited Keynote Speaker: “The Value of a Restored Earth” Victoria, BC, Canada. May 28, 2010
325. Il Monito del Giardino (the Warning from the Garden). Award ceremony and conference. Invited awardee and speaker: “Flourishing on a biophysically limited planet: lessons from ecological economics”. Florence, Italy, May 21, 2010.
326. University of Iowa, The Ida Cordelia Beam Distinguished Visiting Professorships Lecture: “Creating a sustainable and desirable future” Iowa City, Iowa, April 29, 2010
327. University of Iowa. Geography Department Invited seminar: “Modeling and Valuing Ecosystem Services”, Iowa City, Iowa, April 28, 2010
328. State University of New York, College of Environmental Science and Forestry. Shifting Paradigms seminar series. Invited speaker: “Overcoming systemic roadblocks to sustainability: The evolutionary redesign of worldviews, institutions, and technologies.” Syracuse, NY, April 19, 2010
329. Yale “Visions of a Sustainable World” speaker series. Invited speaker: “Flourishing on a biophysically limited planet: lessons from ecological economics” Yale University. New Haven, CT. March 26, 2010. <http://www.youtube.com/watch?v=PZkTIVPgqG4>
330. Office of the Parliamentary Commissioner for Future Generations. Invited speaker: Creating a sustainable and desirable future”. Budapest, Hungary, March 19, 2010.
331. The Regional Environmental Center for Central and Eastern Europe. Invited speaker: “Ecosystem Services in Climate Change Mitigation and Adaptation.” Szentendre, Hungary, March 19, 2010.
332. Hungary Roundtable: Towards a Low Carbon Economy in Hungary. Business Perspectives & Recommendations. Invited speaker: “Ecosystem Services in Climate Change Mitigation and Adaptation” Hungarian Academy of Sciences, Budapest, Hungary. March 18, 2010.
333. University of Alaska Fairbanks, Marine Ecosystem Sustainability in the Arctic and Subarctic (MESAS) program, invited seminar speaker: “Solutions for a sustainable and desirable future” Fairbanks, Alaska and three other sites via interactive video. February 15, 2010.
334. The New Green Economy: aligning science, education, and markets. 10th National Conference of the National Council on Science and the Environment. Invited symposium speaker: “Ecosystem services” Washington, DC, January 22, 2010.
335. The New Green Economy: aligning science, education, and markets. 10th National Conference of the National Council on Science and the Environment. Invited session speaker: “What is “green technology” – How do we define it? How to we achieve it?” Washington, DC, January 21, 2010.
336. The New Green Economy: aligning science, education, and markets. 10th National Conference of the National Council on Science and the Environment. Invited plenary panel speaker/moderator: “Growing the green economy or greening the grown economy?” Washington, DC, January 21, 2010. <http://ncseonline.org/conference/greeneconomy/VIDEO/NCSE2010ThurPlenaryRT1Costanza.cfm>
337. EPA conference on: Integrated Modeling and Analysis to Support the Management and Restoration of Large Aquatic Ecosystems. Invited keynote presentation: “Integrated modeling: what, why and how”. Washington, DC, January 20, 2010

2009

338. Ecological Engineering: from Concepts to Applications (EECA). Invited plenary speaker: “Ecosystem Health and Ecological Engineering”. Paris, France, Dec. 2-4, 2009
339. An economy fit for a low carbon world: the Pre-COP Earthcast. Invited panelist and presenter: “Creating a sustainable and desirable future” Online Webinar, Nov 25, 2009. Archived at: <http://www.earthscan.co.uk/Earthcasts/tabid/101760/Default.aspx>
340. Brown bag seminar. eThekweni Municipality (Durban) Development Planning, Environment and Management Unit. “Ecosystem services and human well-being” Nov. 25, 2009, Durban, South Africa.
341. A.D. Latornell Conservation Symposium: The Currency of Ecology. Invited opening plenary speaker: “Creating a Sustainable and Desirable Future”. Alliston, Ontario, Canada, Nov. 18-20, 2009. (<http://www.latornell.ca/>)

342. The Conference on Michigan's Future: Energy, Economy & Environment. Invited opening plenary speaker: "Ecological Economics: Creating a Sustainable and Desirable Future" Crystal Mountain Resort & Spa, Traverse City, MI. Nov. 13-15, 2009 (<http://futuremichigan.org/>)
343. U.S. Embassy in Vienna and BOKU University, invited talk: "Creating a Sustainable and Desirable Future" Vienna, Austria, Nov. 9, 2009.
344. Australia New Zealand Society for Ecological Economics Annual Meeting. Invited opening plenary speaker: "Green mileage in the global economy: an ecological economics way forward" Darwin, Australia, Oct. 28-30, 2009.
345. Invited seminar, James Cook University. "Ecosystem services and human well-being: creating a sustainable and desirable future" Townsville, Australia, Oct. 12, 2009
346. 16th Macalester International Roundtable: Global Environment: the Eleventh Hour? Invited opening keynote address: "Creating a Sustainable and Desirable Future". Macalester College, St. Paul, MN. Oct. 8-10, 2009.
347. 6th Brazilian Congress on Protected Areas. Invited leadoff keynote speaker: "The 21st Century Challenge: Integrating nature conservation with economic development" Curitiba, Brazil, Sept. 20-24, 2009
348. Estuarine & Coastal Sciences Association Annual Meeting: Estuarine Goods and Services. Invited opening keynote speaker: "Understanding, Modeling and Valuing Estuarine Ecosystem Services." Trinity College, Dublin, Ireland, 30th August - 4th September, 2009
349. University of Iceland invited Seminar: "The Global Recession as an Opportunity to Create a Sustainable and Desirable Future" Reykjavik, Iceland, August 26, 2009
350. Nordic Environmental Law, Governance and Science Network Workshop on Breaking down the Barriers. Invited speaker: "The University of the Future: Overcoming institutional and disciplinary barriers". University of Iceland, Reykjavik, Iceland, August 24-25, 2009
351. 2009 Convocation Keynote Speaker. St. Cloud State University. "Toward a sustainable well-being economy" St. Cloud MN, August 19, 2009.
352. Charles Darwin Foundation, Galapagos Science Symposium 2009. Invited plenary speaker: "The needs for and limits of economic valuation of biodiversity conservation" Puerto Ayora, Santa Cruz, Galapagos, Ecuador, July 20-24, 2009.
353. Incentives and the Economy Congressional Briefing. NOAA National Marine Sanctuary Program. Invited speaker: "Toward a new sustainable economy". US Capitol, Washington, DC. June 8th 2009.
354. United States Society for Ecological Economics (USSEE) 5th Biannual Conference: Science and Policy for a Sustainable Future. Invited session speaker: "Misuse of the GDP and the need for new measures of progress", American University, Washington, DC May 31 – June 3, 2009.
355. United States Society for Ecological Economics (USSEE) 5th Biannual Conference: Science and Policy for a Sustainable Future. Invited session speaker: "Celebrating Herman Daly's Contribution to Ecological Economics", American University, Washington, DC May 31 – June 3, 2009.
356. United States Society for Ecological Economics (USSEE) 5th Biannual Conference: Science and Policy for a Sustainable Future. Invited Plenary panel: "Ecological Economics: then and now", American University, Washington, DC May 31 – June 3, 2009.
357. Modeling Ecosystem Services. Invited plenary speaker "Understanding, Modeling and Valuing Ecosystem Services" Lecce, Italy, May 26-30, 2009.
358. Getting to 350: Building strategies for 21st century aspirations. Invited wrap-up discussion moderator: Middlebury College, Middlebury, VT May 2-3, 2009
359. Fairfield University. Earth Day invited speaker: "The global recession as an opportunity to create a sustainable and desirable future" Fairfield CT, April 23, 2009.
360. Society for American Archeologists 74th annual meeting. Opening plenary panel: "Archeology beyond Archeology" Invited speaker: "Sustainability or Collapse: What Can We Learn from Integrating the History of Humans and the Rest of Nature? Atlanta, GA, April 22, 2009.
361. Creating a Green Economy in Vermont: Avoiding 20th Century Responses to 21st Century Problems. Earth week 2009. Kickoff panel with audience participation. Invited panelist. University of Vermont, Burlington, VT, April 20, 2009
362. Boston University, Department of Geography. Invited seminar speaker: "The global recession as an opportunity to create a sustainable and desirable future" Cambridge, MA April 8, 2009.
363. MIT Environmental Policy and Planning Group "Green Edge" lecture series. Invited speaker: "The global recession as an opportunity to create a sustainable and desirable future" Cambridge, MA April 7, 2009.
364. World Futures Council meeting on the future of finance. Invited presentation: "Toward a new sustainable economy." Cairo, Egypt, March 29, 2009
365. Using the global recession as an opportunity to create a sustainable and desirable future. Public lecture, Massey University, Palmerston North, New Zealand, March 18, 2009
366. The Global Recession: an opportunity to create a sustainable and desirable future. Special seminar at Lincoln University, Lincoln, New Zealand, March 16, 2009
367. The Global Recession: an opportunity to create a sustainable and desirable future. Special seminar sponsored by Jeanette Fitzsimons, MP and co-leader of the New Zealand Green Party. Wellington, New Zealand, March 13, 2009 <http://blog.greens.org.nz/index.php?p=3762>)

368. Modeling and Valuing Ecosystem Services. Invited seminar, New Zealand Center of Ecological Economics, Massey University and Landcare Research. Palmerston North, New Zealand, March 6, 2009
369. 5th EGU Alexander von Humboldt International Conference. Iphakade: Climate Changes and African Earth Systems – past, present and future. Invited plenary speaker: “Climate change and ecosystem services” Cape Town, South Africa, January 14, 2009 (via interactive video).

2008

370. Florida Fish and Wildlife Research Institute. Invited seminar speaker: “Ecological Economics and Sustainable Management” December 10, 2008.
371. A Conference on Ecosystem Services. Plenary panel speaker: “Future Research Directions in Ecosystem Services” Naples, FL, December 9, 2008
372. University of Miami, Rosenstiel School of Marine and Atmospheric Sciences. Invited seminar speaker: “Ecological Economics and Sustainable Management” December 8, 2008.
373. Florida Institute of Technology. Invited seminar: “Ecological economics and sustainable management” Melbourne, FL, December 5, 2008
374. University of Florida Water Institute. Invited speaker, Smallwood UF Water Institute Distinguished Scholar Seminar Series. “Understanding, modeling and valuing ecosystem services” Gainesville, FL, December 4, 2008
375. 16th Annual Public Lands Acquisition and Management Partnership Conference. Invited session speaker: session on: Valuing Ecosystem Services on Public Lands. Talk titled: “Understanding, modeling and valuing ecosystem services” Jacksonville, FL, December 4, 2008
376. 16th Annual Public Lands Acquisition and Management Partnership Conference. Invited Keynote speaker: “Paying for themselves: proving the worth of conservation lands with ecosystem services values” Jacksonville, FL, December 4, 2008
377. 4th Annual Connecticut Forest Conservation and Research Forum: Public Benefits of Forests: What are they worth? Invited Plenary speaker: “Estimating and Quantifying Forest Ecosystem Services.” University of Connecticut, Storrs, CN, November 24, 2008 (via interactive video)
378. Green Mountain College. Invited speaker: “The Twin Crises of the Economy and the Environment and the Need for an Ecological Economics” Poughkeepsie, VT Nov. 17, 2008
379. Conference on Ecosystem Services in China and the U.S. Invited keynote speaker: “Understanding, Valuing, and Modeling Ecosystem Services” Beijing, China, Oct. 12-19, 2008.
380. 2008 ISEE User Conference, “Making Connections”. Invited Breakout session leader: “Applications of STELLA in Integrated Modeling”. Burlington, VT, Oct. 9-10 2008
381. John Pesek Colloquium on Sustainable Agriculture. Invited Speaker: “Ecological Economics: Creating a Sustainable and Desirable Future. Iowa State University, Ames, Iowa, Sept. 11, 2008
382. Towers Perrin Client Ideas and Networking Forum for Public Entity Pool Executives. Invited after dinner speaker: “Ecological Economics, Common Asset Management, and the Role for Interlocal Pools” Stowe, VT, Sept 2-4, 2008.
383. Sustainable Management of Deltaic Ecosystems: Integration of Theory and Practice. Invited plenary speaker: “Integration of Humans and the Rest of Nature for Understanding and Managing Deltaic Ecosystems”. Louisiana State University, School of the Coast and Environment. August 25-26, 2008.
384. Oak Ridge National Lab. Invited seminar speaker. “Understanding, modeling and valuing ecosystem services” Oak Ridge TN, August 15, 2008
385. EPA Ecosystem Services Science Workshop. Invited plenary speaker “Understanding, modeling and valuing ecosystem services” Portland, OR, August 12-14, 2008.
386. Challenge of Sustainability. First annual meeting of the Cross Border Sustainable Energy Partnership (CBSEP). Invited keynote speaker: “Stewardship for a full world”. Dundalk, Ireland, June 20, 2008.
387. Conflict in Paradise: the Transformation of rural New Zealand. Invited Keynote speaker: “Sustainability or collapse: creating a sustainable and desirable future.” Auckland, New Zealand, June 11, 2008 (via interactive video)
388. Society of Wetland Scientists 2008 Annual Meeting. Invited plenary speaker: “New directions for valuing wetlands” Washington, DC, May 27-29, 2008
389. Ecosystem Services: Solution for a problem or a problem that needs solutions? Invited keynote plenary speaker: “Understanding, modeling, and valuing ecosystem services” Salzgau Castle, Germany, May 13-15, 2008.
390. University of Cape Town. Invited seminar: “An Integrated History and future of People on Earth” Cape Town, South Africa, May 9, 2008.
391. Sustainability Institute, Soil Soul and Society Seminar Series. Invited speaker: “Toward an Ecological Economy: creating a sustainable and desirable future”. Stellenbosch, South Africa, May 8, 2008
392. The Funder’s Workgroup for Sustainable Production and Consumption. 2008 Annual Meeting. Invited plenary speaker: “Toward an Ecological Economy: creating a sustainable and desirable future”. Washington, DC. April 30-May 1, 2008
393. Université du Québec à Rimouski, invited seminar: “Ecological Economics: Creating a Sustainable and Desirable Future”. Rimouski, Quebec, Canada, April 7, 2008.
394. Antioch College of New England, invited seminar: “Ecological Economics: Creating a Sustainable and Desirable Future” Keene, NH, March 28, 2008.

395. 18th Annual National Association of Environmental Law Societies (NAELS) Conference: Picking up the pieces: reclaiming global environmental leadership. Invited speaker: Post-Kyoto Era: Global Opportunities.. University of Vermont/Vermont Law School. Burlington VT. March 20-22, 2008.
396. University of Arkansas, Applied Sustainability Center. Sustainability Speaker Series Invited speaker: "Toward an Ecological Economy: Creating a Sustainable and Desirable Future" Fayetteville, AK. Feb 7, 2008.
397. Global Climate Change and Sea-level Rise in Florida: a conversation between scientists and the media. Invited speaker: "Economic Impacts". University of South Florida, St. Petersburg, FL, Feb 6, 2008.
398. Invited seminar. IBM Deep Computing Systems/Big Green Innovations group. "Multiscale Integrated Modeling of Ecosystem Services" IBM T.J. Watson Research Center. Yorktown Heights, NY. Jan. 28, 2008.
399. 2008 Environmental Health Lecture Series: Seeking Solutions: Connecting Economics with Health and Environment. Seattle Biotech Legacy Foundation. Invited speaker: "Principles of Ecological Economics: Guidance for a Sustainable Society". Seattle Town Hall, Seattle WA, Jan. 23, 2008.
<http://www.seattlechannel.org:80/videos/video.asp?ID=5010803>
400. National Conference on Science, Policy and the Environment: Climate change: Science and solutions. Invited speaker in the session on Forests and Markets for Ecosystem Services. Talk titled: "Payment for Ecosystem Services". Washington, DC. Jan. 16-18, 2008.

2007

401. The Ontario Business Cluster Policy Secretariat & the Ministry of Natural Resources invited seminar: "Valuation of Natural Capital: understanding and solving environmental problems in the 21st century. Toronto, Canada, Dec. 10, 2007.
402. Eight Annual Edward and Nancy Dodge Lecture: "Protecting the commons". Center for a Livable Future. Johns Hopkins Bloomberg School of Public Health. Baltimore, Maryland, Nov 29, 2007.
403. Royal Geographical Society and Institute of British Geographers. UK Human Dimensions of Environmental Change Launch event. Invited Plenary speaker: "Toward an Integrated, Transdisciplinary Science of Humans-in-Nature" London, England Nov. 16, 2007.
404. University of East Anglia, CSERGE Invited Seminar: "What is the economy and what is it for?" Norwich, UK, Nov 15, 2007.
405. Oxford University Centre for the Environment, Environmental Change Institute. Invited Seminar: "What is the economy and what is it for?" Oxford, UK, Nov 13, 2007
406. University of Lecce, Dept. of Biological and Environmental Sciences and Technologies, Invited Seminar: "Toward an Integrated, Transdisciplinary Science of Humans-in-Nature", Lecce, Italy, Nov. 12, 2007
407. Fifth International Media Forum on the Protection of Nature: Capitalizing on the Environment. Invited plenary speaker: "Investing in natural and social capital for a sustainable and desirable future" Rome, Italy, Nov. 7-10, 2007.
408. Community Matters 07: Growth and Character: Having it All. Invited speaker in Symposium: "Measure for measure: taking stock of intangible assets"; talk titled: "Sustainable Quality of Life". Burlington, VT Oct 23-25, 2007
409. Ecological Economics and Sustainable Forest Management in the Ukrainian Carpathians: Invited plenary speaker: "The paradigm of ecological economics", Ukrainian National Forestry University (UNFU), Lviv, Ukraine, Sept 22 – Oct 1, 2007
410. BONUS Seminar: Integrating Ecosystems and Society: Experiences from Across the Ocean. Invited plenary speaker: "Modeling and valuation of ecosystem services as a key link between ecological and social systems". Helsinki, Finland, Sept 21, 2007.
411. Italian Society of Ecology, Annual Meeting, Invited plenary speaker: "Toward an Integrated, Transdisciplinary Science of Humans-in-Nature". Ancona, Italy, Sept. 17-20, 2007
412. Ecosystem Services: Dynamics, Modeling, and Valuation at Multiple Scales. Invited seminar. Washington State Department of Ecology. Olympia, WA, July 27, 2007
413. Puget Sound's Ecosystem Services: Dynamics, Modeling, and Valuation at Multiple Scales. Invited seminar Seattle BioTech Legacy Foundation. Seattle, WA, July 26, 2007
414. United States Society for Ecological Economics. 2007 Biannual Conference: Creating Sustainability Within our Midst. Invited Plenary panel speaker: "The future of ecological economics" Pace University, New York, NY. June 23-27, 2007.
415. United States Society for Ecological Economics. 2007 Biannual Conference: Creating Sustainability Within our Midst. Invited Workshop speaker: "Use of ecosystem service valuations to inform local and regional land use decisions" Pace University, New York, NY. June 23-27, 2007.
416. United States Society for Ecological Economics. 2007 Biannual Conference: Creating Sustainability Within our Midst. Invited Plenary speaker: "Modeling integrated human and natural systems dynamics over multiple time and space scales" Pace University, New York, NY. June 23-27, 2007.
417. North American Benthological Society (NABS) 2007 Annual Meeting. Invited plenary speaker: "Toward an Integrated, Transdisciplinary Science of Humans-in-Nature" Columbia, SC, June 3-6, 2007.
418. Peking University, College of Environmental Sciences. Invited seminar: "Toward an Integrated, Transdisciplinary Science of Humans-in-Nature" Beijing, China, May 26, 2007

419. EcoSummit 2007: Ecological Complexity and Sustainability. Invited Symposium speaker: "Ecosystem Services: Dynamics, Modeling, and Valuation at Multiple Scales" Beijing, China, May 22-26, 2007.
420. EcoSummit 2007: Ecological Complexity and Sustainability. Invited Symposium speaker: "Ecosystem Services and Biodiversity in Agricultural Landscapes" Beijing, China, May 22-26, 2007.
421. EcoSummit 2007: Ecological Complexity and Sustainability. Invited Keynote plenary speaker: "Toward an Integrated, Transdisciplinary Science of Humans-in-Nature" Beijing, China, May 22-26, 2007.
422. International Forum on Innovation for Sustainable Development. Invited speaker: "Toward an ecological economy" Tongji University, Shanghai, China, May 18-20, 2007
423. Greater Burlington Industrial Corporation (GBIC) and Lake Champlain Chamber of Commerce, Government Affairs Committee. Invited speaker: "Ecological Economics" Burlington, VT. April 4, 2007
424. Payments for Ecosystem Services: from local to global. Invited plenary speaker. "What are ecosystem services" Heredia, Costa Rica, March 8-9, 2007
425. Sustainable Business Conference: Money Talks. Invited plenary speaker. "Ecological Economics" Concordia University, Montreal, Canada. March 2, 2007
426. Invited Symposium speaker, AAAS Annual Meeting: Science and Technology for Sustainable Well-Being. Symposium on: "Advances in Modeling Coupled Human-Natural Systems for Sustainability" Talk titled: "Modeling ecosystem services and sustainability across scales." San Francisco, CA, Feb. 15-19, 2007
427. Invited Seminar, Lehigh University Environmental Initiative: "Ecological Economics: Creating a Sustainable and Desirable Future." Bethlehem PA, January 26, 2007.

2006

428. Ninth Biennial Conference of the International Society for Ecological Economics. "Ecological Sustainability and Human Well-Being" Invited symposium speaker: "Integrated History and future of People on Earth (IHOPE)" Delhi, India, December 15-18, 2006
429. Ninth Biennial Conference of the International Society for Ecological Economics. "Ecological Sustainability and Human Well-Being" Invited symposium speaker: "The Value of Coastal Wetlands for Storm Protection" Delhi, India, December 15-18, 2006
430. Ninth Biennial Conference of the International Society for Ecological Economics. "Ecological Sustainability and Human Well-Being" Invited opening session speaker. Delhi, India, December 15-18, 2006
431. Partners in Environmental Technology Technical Symposium and Workshop: Meeting DoD's Environmental Challenges. Invited keynote speaker: "Ecosystem services: dynamics, modeling, and valuation" Washington, DC, Nov 28-30, 2006
432. Universitat Politècnica de Catalunya. Invited seminar: "Coastal Ecosystem Services: Valuation and Sustainability", Barcelona, Spain, Nov. 17, 2006
433. International Conference on Sustainability Measurement and Modeling. Invited keynote speaker: "Defining, Measuring, and Modeling Sustainability" Terrassa, Spain, Nov. 16-17, 2006.
434. Chinese Academy of Sciences, Institute of Geographic Sciences and Natural Resources Research. Invited seminar: "Integrated Modeling and Valuation of Ecosystem Services" Beijing, China, Nov. 13, 2006.
435. Chinese Society for Sustainable Development Conference. Invited plenary speaker: "Ecosystem Services Valuation and Sustainability" Beijing, China, Nov. 9, 2006.
436. SUNY Plattsburg, Invited Seminar. "Ecological Economics" Plattsburg, NY Nov. 2, 2006
437. Society for Environmental Journalists 16th Annual Conference. Invited Panelist: Invasives: Global Trade Brings Local Costs. Burlington VT. Oct. 25-29, 2006.
438. Society for Environmental Journalists 16th Annual Conference. Invited Panelist: Money Talks: But what price sustainability? Burlington VT. Oct. 25-29, 2006.
439. Renewable Energy Vermont, 5th Annual Conference. Renewable Energy: Beyond Peak Oil. Invited Symposium Speaker: "The Path from Vermont to Kyoto in a Full World" Burlington, VT, Oct. 19, 2006.
440. Instituto de Ecología, A.C. (INECOL) at Xalapa, Veracruz, Mexico. Invited seminar: "Ecosystem Services: Dynamics, Modeling and Valuation to Facilitate Conservation" Xalapa, Mexico, Oct 18, 2006 (via interactive video)
441. Burlington's Energy Future: Beyond the Oil Crisis. Invited panel speaker., Burlington, VT Oct. 5, 2006
442. World Wildlife Fund. Invited Seminar: "Linking ecology and economics for ecosystem management" Washington, DC, Sept. 7, 2006.
443. Independent First Nations Alliance Conference. Invited plenary speaker: "Ecological economics: creating a sustainable and desirable future" Sioux Lookout, Ontario, Canada, Aug22-23, 2006.
444. Ecological Society of America 91st Annual Meeting. Invited speaker, symposium on Integrating Ecosystem Services into the Policy Realm. Talk titled: "Linking ecology and economics for ecosystem management". Memphis TN Aug. 6-11, 2006
445. 3rd Biennial meeting of the International Environmental Modeling and Software Society. Invited Plenary speaker: "Integrated modeling of humans in natural systems over multiple time and space scales: understanding history to create a better future." Burlington, VT, July 9-13, 2006.
446. Ecosystems, infrastructure and the environment: reconciling law, policy and nature. 34th National ABA spring conference on the environment. Invited plenary speaker in panel on: "Thinking outside the box: Strengthening our

infrastructure by enhancing and using ecosystem services. University of Maryland School of Law, Baltimore, MD. June 9 2006.

- 447. Food Systems Leadership Institute: Building a Sustainable System in a Global Economy. Invited plenary speaker: "Ecological Economics" Shelburne Farms, Shelburne, VT. June 4-9 2006.
- 448. Sustainable Energy Fourm 2006: Peak Oil and the Environment. Invited Plenary speaker: "A Framework for Understanding Future Energy Options and Opportunities" Marvin Center, Washington, DC, May 7-9, 2006
- 449. Architectural League of New York. Invited Talk: "Integrating Ecology, Economics and Design to Create a Sustainable and Desirable Future" New York Public Library Auditorium, NYC, April 26th, 2006
- 450. St. Michael's College Earth Week Seminar Series. Invited speaker: "Ecological Economics: Creating a Sustainable and Desirable Future". St. Michael's College, Colchester, VT, April 18, 2006
- 451. Carolina Environmental Program, Environmental Seminar Series. Invited speaker: "Ecological Economics: Creating a Sustainable and Desirable Future" University of North Carolina, Chapel Hill, NC, April 11, 2006
- 452. Rotorua Lakes 2006 Symposium. Invited keynote speaker: "The Value of Ecosystem Services in the Rotorua Lakes Region" Rotorua, New Zealand (via interactive video) March 6, 2006.
- 453. Dempsey Lecture. Willamette University. "Ecological economics: creating a sustainable and desirable future" Salem, Oregon, February 16, 2006.
- 454. Elder Education Enrichment program, Invited speaker: "Creating a sustainable and desirable future" South Burlington, VT, Feb 10, 2006
- 455. Rubenstein School of Environment and Natural Resources Spring Seminar Series. Invited speaker: "Envisioning a sustainable and desirable future" University of Vermont, Burlington, VT Jan 19, 2006
- 456. Stockholm Seminars, Royal Swedish Academy of Sciences. Seminar title: "Developing an Integrated History and future Of People on Earth (IHOPE)". Stockholm, Sweden, Jan. 11, 2006
- 457. Lund University Centre for Sustainability Studies (LUCSUS), Invited Seminar: "Ecological economics: designing a sustainable and desirable future" Lund, Sweden, Jan. 10, 2006
- 458. KTH/Royal Institute of Technology, Invited Seminar: "Ecological economics: designing a sustainable and desirable future" Stockholm, Sweden, Jan. 9, 2006
- 459. Cogito (think tank connected with the Swedish Parliament), Invited Seminar: "Ecological economics: designing a sustainable and desirable future" Stockholm, Sweden, Jan. 9, 2006
- 460. Institute of Water and Environment, Cranfield University, Invited Seminar.: "Ecological economics: designing a sustainable and desirable future" Silsoe, UK, Jan 4, 2006

2005

- 461. Catholic Social Teaching and Ecology. Invited Keynote speaker: "Transdisciplinary Systems Science: Toward a Science of Connection, Integration and Synthesis". Villanova University, Villanova, PA, Nov. 10-11, 2005.
- 462. Henry A. Wallace/CATIE Inter-American Scientific Conference: Integrated Management of Environmental Services in Human-Dominated Tropical Landscapes. Invited Plenary speaker: "Ecosystem Services: if they're so important, why do we continue to abuse them?" CATIE, Turrialba, Costa Rica, November 1-3, 2005
- 463. Ethics, Spirituality and the Environment: an Interdisciplinary Symposium. Invited speaker: "Transdisciplinary systems science: toward a science of connection, integration, and synthesis. St. Michael's College, Colchester, VT. Oct 25-27, 2005
- 464. Joint Sino-US symposium on Ecological Complexity and Ecosystem Services. Invited plenary speaker: "Ecosystem Services and Natural Capital". Burlington, VT Oct. 21, 2005
- 465. World Conference on Ecological Restoration. Invited inaugural plenary speaker: "The value of a restored earth and its contribution to a sustainable and desirable future" Zaragoza, Spain, Sept. 12-18, 2005
- 466. SEATAC North Atlantic Chapter. 2005 Annual Meeting. Invited plenary speaker, session on Emerging Issues, talk titled: "Ecological Economics: Assessing the True Costs of Alternatives. Burlington, VT, June 9, 2005
- 467. New Jersey Department of Environmental Protection, Division of Science, Research and Technology Seminar Series: "Valuing New Jersey's Natural Capital and Ecosystem Services" Trenton, NJ, June 7, 2005
- 468. University of Nebraska, College of Agriculture and Natural Resources, Invited lecture: "Ecological Economics: Reintegrating the study of humans and the rest of nature". Lincoln, NB April 25, 2005
- 469. Ohio Agricultural Research and Development Center Annual Conference on: "Adding value to the ecological paradigm" Invited plenary speaker, talk titled: "Ecological economics" Ohio State University, Columbus, OH April 21, 2005.
- 470. New York Academy of Sciences. Invited speaker: Ecological Economics: Reintegrating the study of humans and the rest of nature." New York, NY, April 14, 2005.
- 471. USEPA Region 2. Invited speaker: Ecological economics and EPA. New York, NY, April 14, 2005
- 472. Seattle Department of Planning and Development, 2005 Urban Sustainability Forum, Invited Speaker, talk titled: "The local politics of global sustainability" Seattle, WA April 4, 2005.
(http://www.seattle.gov/dpd/Sustainable_Building/COS_004334.asp)
- 473. AAAS Annual Meeting. Invited speaker in symposium "New Developments in Human and Social Dynamics: Social Science for Public Policy." Talk titled: "Modeling Integrated Human and Natural Systems Dynamics" Washington, DC, Feb. 19, 2005

474. 3rd Annual Northeastern Climate Conference. Invited plenary speaker: "Perspectives from Academia Land"
University of Vermont, Burlington, VT Feb 18, 2005
475. 26th Annual Darwin Festival. Salem State College. Invited plenary speaker: "Ecological Economics: Reintegrating the study of humans and the rest of nature to create a sustainable and desirable future". Salem, MA, Feb. 15, 2005

2004

476. Vermont Law School. Invited lecture: "Ecological economics, sustainability, and the law" South Royalton, VT, Oct 21, 2004
477. Land Conservancy of West Michigan, Fifth Annual Korth Conservation Speaker: "Valuing nature: integrating ecology and economics for a sustainable future". Grand Rapids, MI, October 20, 2004.
478. Renewable Energy Vermont Conference: "Renewable Energy Here and Now" Invited panel speaker "Renewable Energy and the Vermont Economy" South Burlington, VT, Oct 14, 2004.
479. Vermont Biodiesel Workshop: Nurturing a Sustainable Biodiesel Industry in Vermont. Invited panel speaker: "Environmental Issues Roundtable" Montpelier, VT Sept. 22, 2004.
480. 21st Pan-American Congress of Appraisal. Invited Plenary speaker "Valuing the Environment" Cartagena, Columbia, Sept. 20-23, 2004 (via interactive video).
481. Sustainable Communities 2004. Invited plenary speaker: Conference synthesis. Burlington, VT July 14-18, 2004
482. Sustainable Communities 2004. Invited speaker: Introducing local currency. Burlington, VT July 14-18, 2004
483. Sustainable Communities 2004. Invited focus area coordinator: New measures of community well-being. Burlington, VT July 14-18, 2004
484. Eighth Biennial Conference of the International Society for Ecological Economics. "Challenging Boundaries: Economics, Ecology, and Governance." Invited opening plenary speaker: "Ecosystem Health, Ecosystem Services, and Sustainable Human Well-Being" Montreal, Canada, July 11-14, 2004.
485. Ecology in a Cost-Benefit Society. Invited Keynote speaker: "Thinking Broadly About Costs and Benefits." Roskilde University, Roskilde, Denmark, June 17-18, 2004.
486. 11th Annual Conference on the Adirondacks. Invited Keynote speaker: "Ecological Economics: Reintegrating the study of humans and the rest of nature to create a sustainable and desirable future". Saranac Lake NY, May 26, 2004
487. Vermont Businesses for Social Responsibility Conference: Common Business Challenges, Socially Responsible Solutions. Invited speaker: "Burlington Bread: Improving local sustainable economic welfare". Burlington, VT May 18, 2004.
488. Middlebury College Environmental Science Colloquium series: "Ecological Economics: Reintegrating the study of humans and the rest of nature to create a sustainable and desirable future". Middlebury College, Middlebury, VT, April 1, 2004
489. Environmental Science and Engineering Institute 2004 Environmental Lecture Series. Invited Seminar: "Ecological economics: reintegrating the study of humans and the rest of nature." Purdue University, West Lafayette, IN, March 26, 2004.
490. Rubenstein School of Environment and Natural Resources Spring Seminar Series: Ecosystem Health. "Ecosystem health and ecosystem services," University of Vermont, Burlington, VT, March 11, 2004.
491. The Center for Research on Vermont. Research in Progress Seminar #177. "Measuring quality of life in Vermont" (with Jon Erickson). University of Vermont, Burlington, VT, March 8, 2004
492. 5th Annual Ecological Integration Symposium: Demonstrating Ecological Value: Promoting Conservation & Sustainability. Invited plenary speaker: "Visions, values, valuation, and the need for an ecological economics." Texas A&M University, College Station TX, February 20, 2004.
493. Rensselaer Polytechnic Institute. Invited seminar speaker: "Visions, values, valuation, and the need for an ecological economics." Troy, NY. February 3, 2004.

2003

494. Chaire Tractebel-Environment. Inaugural Plenary Speaker. "The Ecological Economics of Sustainability"
Université Catholique de Louvain. Louvain-la-Neuve, Belgium, December 16, 2003.
495. University of New Hampshire, Natural Resources and Earth System Science Departments invited seminar: "Ecological economics: reintegrating the study of humans and the rest of nature." Durham, NH November 10, 2003.
496. Alterra – Wageningen University and Research Centre. Invited seminar: "Ecological Economics and Climate Change" Wageningen, Netherlands, October 24, 2003.
497. Andres Marcelo Sada Chair in Conservation and Sustainable Development. Invited Keynote Lecture: "Ecological economics, ecosystem services, and natural capital" Tec de Monterrey, Monterrey, Mexico. October 13, 2003
498. Renewable Energy Vermont's 2nd Annual Conference: Power for a new economy. Invited Opening Keynote Speaker: "Energy and Ecological Economics" Burlington, Vermont, October 8, 2003
499. Vermont Sierra Club annual meeting. Invited Luncheon Speaker: "The importance of envisioning a sustainable and desirable future" Fairlee, Vermont, October 4, 2003.
500. Green Mountain Summit on Investor Responsibility. Invited Luncheon speaker: "Ecological Economics: Accounting for Human-Made and Natural Capital". Stowe, Vermont, Sept. 14-17 2003.

501. Inaugural Zuckerman Lecture. Zuckerman Institute for Connective Environmental Research. University of East Anglia. "Ecological Economics: a transdisciplinary approach to reintegrating the study of humans and nature." Norwich, UK Sept. 8, 2003.
502. The Stockholm Seminars: Frontiers in Sustainability Science and Policy. "Integrated History and future of the Planet Earth (IHOPE): a proposed research activity of the Earth System Science Partnership (ESSP). Stockholm, Sweden, August 13, 2003.
503. United States Society for Ecological Economics (USSEE) 2nd Biannual Conference. Invited Plenary Speaker "Ecosystem health and ecosystem services: quantifying, modeling, and valuing an essential interrelationship" Saratoga Springs, NY, May 22-24, 2003
504. Rhode Island Natural History Survey. 8th Annual Conference. Invited Keynote speaker: "Ecological economics: reintegrating the study of humans and the rest of nature." Cranston, RI March 7, 2003.
505. College of Environmental Science and Forestry, State University of New York, Invited seminar: "Human Dominated Ecosystems: Understanding the Anthroposphere in the Anthropocene." Syracuse, NY, Feb. 26, 2003.
506. Cornell University. Department of Natural Resources. Invited seminar: "Human Dominated Ecosystems: Understanding the Anthroposphere in the Anthropocene." Ithaca, NY, Feb. 25, 2003.
507. University of Washington. Walker Ames Lecture: "Human Dominated Ecosystems: Understanding the Anthroposphere in the Anthropocene." Seattle, WA, Feb. 12, 2003
508. University of Texas, Center for Sustainable Development. Invited seminar: "Ecological Economics: Reintegrating the Study of Humans and the Rest of Nature" Austin, TX, Feb. 6, 2003 (via interactive video).
509. University of Vermont, School of Natural Resources Seminar: "Ecological Economics: Reintegrating the Study of Humans and the Rest of Nature" Burlington, VT. Jan. 23, 2003

2002

510. Putney Mountain Association. Invited seminar: "Ecological Economics" Brattleboro, VT, December 8, 2002.
511. University of Michigan, Program in the Environment, Distinguished Speaker Series invited seminar: "Human Dominated Ecosystems: Understanding the Anthroposphere in the Anthropocene." Ann Arbor, MI, December 3, 2002.
512. University of Vermont, Department of Environmental Pathology. Invited Seminar: "Ecological Economics and Ecosystem Health.", Burlington, VT, Dec. 2, 2002.
513. IndoPacific Ecosystem Health Conference. Invited Keynote Speaker: "Ecosystem Health and Ecosystem Services." Perth, Australia, November 24 - 27 2002 (via interactive video)
514. University of Vermont, Department of Economics. Invited Seminar: "Ecological Economics." Burlington, VT, November 6, 2002
515. Society for American Military Engineers Conference: Engineering a Better Infrastructure and Environment for Our Communities. Invited Technical Session speaker: "Ecosystem modeling and ecological economics". St. Paul, MN, October 2-4, 2002.
516. After Oil: a symposium on the future of personal transportation. University of Vermont George Aiken Lectures. Invited plenary panel speaker. "Social costs of fossil fuel use in transportation" Burlington, VT, September 28, 2002.
517. 3rd International Canopy Conference. Invited plenary speaker: "Canopy ecosystem functions, health, and services: quantifying, modeling and valuing essential interrelationships" Cairns, Queensland, Australia (via Interactive Video), June 23-28, 2002
518. Healthy Ecosystems, Healthy People: Linkages between biodiversity, ecosystem health, and human health. Invited session speaker: "Ecosystem health and ecosystem services: quantifying, modeling and valuing an essential relationship" Washington, DC, June 6-11, 2002.
519. LOICZ Synthesis and Futures Meeting: Coastal Change and the Anthropocene. Invited plenary speaker: "Socio-economic aspects of coastal change" Miami, FL May 29-June 1, 2002.
520. Commencement address. School of Natural Resources, University of Vermont, "The Biggest Challenge: Envisioning a Sustainable and Desirable America (SDA)" Burlington, VT. May 19, 2002.
521. Workshop on Sustainability and Industry: Energy, material consumption, and human behavior. Sponsored by USEPA and duPont. Invited plenary speaker: "Sustainability and Human Behavior: Integrating the Study of Humans and the Rest of Nature" Cincinnati, OH March 26-27, 2002
522. US DOE and Oak Ridge National Lab Conference on Estimating the Benefits of Government-Sponsored Energy R&D. Invited panel speaker: "Environmental benefits of energy R&D" Washington, DC, March 5, 2002.

2001

523. Visionary Vermont. Invited plenary speaker: "Envisioning a sustainable and desirable future". Burlington, VT, Oct. 12, 2001
524. Bates College. Invited seminar: "Ecological Economics: Reintegrating the Study of Humans and the Rest of Nature" Lewiston, ME, Oct. 10, 2001
525. Congressional briefing on the National Forest Protection and Restoration Act (NFPRA) organized by the Forest Conservation Council. Invited speaker: "Ecosystem services from forests". Longworth House Office Building, Washington, DC. July 25, 2001.

- 526.IGBP Global Change Open Science Conference: Challenges of a Changing Earth. Invited Symposium speaker in session Titled: Human Interactions in the Coastal Zone. Presentation titled: “The coastal zone – earth’s most important boundary” Amsterdam, The Netherlands, July 10-13, 2001
- 527.Chesapeake Bay Foundation. Invited panel speaker: “How can we save the Chesapeake Bay?”. Annapolis, MD, June 15, 2001.
- 528.Estuaries: Where Catchments meet Coast – an Envirolinx Features Forum. Invited plenary speaker: “What are catchments, waterways and estuaries worth?” Bairnsdale, Australia (and 15 other locations in Australia and New Zealand via interactive video link with over 600 participants) May 22, 2001
- 529.NOAA Coastal Services Center, Human Dimensions Initiative. Invited seminar: “Ecological Economics and the Human Dimension of Coastal Zone Management” Charleston, SC, May 16, 2001
- 530.University of Southern California, Sustainable Cities Program. Invited speaker: “Reintegrating the study of humans and the rest of nature.” Los Angeles, CA April 16, 2001.
- 531.University of North Carolina at Greensboro. Symposium on: Open Spaces in an Urban Setting. Invited plenary speaker: “ Ecological economic modeling and valuation of urban ecosystems: the Baltimore ecosystem study”. Greensboro, NC April 12, 2001
- 532.Columbia University. Invited seminar. “Ecological Economics: Reintegrating the study of humans and the rest of nature” New York, NY, March 20, 2001
- 533.Champions of Sustainability 2001 Lecture Series, sponsored by Sustainable Pittsburgh. Invited lecture titled: “Designing a Sustainable and Desirable America” Pittsburgh, PA, March 14, 2001.
- 534.Linacre Lectures 2001. Invited lecture at Linacre College, Oxford University, titled: “Valuing the Earth: Reintegrating the Study of Humans and the Rest of Nature” Oxford, England, Feb. 26, 2001.

2000

- 535.Virginia Institute of Marine Sciences, Invited seminar: “Reintegrating the study of humans and the rest of nature” Gloucester Point, VA, Dec. 1, 2000
- 536.Society of American Foresters. 2000 National Convention, Science Colloquium on “What is good science? What is its role?” Invited speaker: “Visions, values, valuation, and the need for an ecological economics” Washington, DC, Nov. 16-20, 2000
- 537.Lowell Lecture series on Ecological Economics. Invited speaker: “The ecology-economy interface” New England Aquarium, Boston, MA, November 9, 2000
- 538.Symposium on Systems-oriented Ecotoxicological Research. Invited opening plenary speaker: “Ecosystem health, ecosystem services, and sustainability: the influence of non-point source pollution at the watershed scale.” Wageningen, The Netherlands, October 12, 2000.
- 539.The Stockholm Seminar: Frontiers in Sustainability Science. Sponsored by the Beijer Institute for Ecological Economics, Stockholm University Center for Natural Resources Management, the IGBP, the Stockholm Environment Institute and the Stockholm International Water Institute. “The Future of Science: the Reintegration of the Study of Humans and the Rest of Nature”. Swedish Academy of Sciences, Stockholm, Sweden, Sept. 27, 2000.
- 540.4th International Conference on Integrating Geographic Information Systems (GIS) and Environmental Modeling. Invited Opening Plenary speaker: “Humans as subjects and participants in landscape modeling”. Banff, Alberta, Canada, Sept. 2-8, 2000.
- 541.4th International Conference on Integrating Geographic Information Systems (GIS) and Environmental Modeling. Invited panel speaker: “Using the Spatial Modeling Environment (SME) for Integrated Ecological Economic Modeling”. Banff, Alberta, Canada, Sept. 2-8, 2000.
- 542.Defying Nature’s End. Workshop sponsored by Conservation International. Invited session chair and plenary speaker: “Biodiversity, Ecosystem Services, and Human Health” Pasadena, CA Aug. 22-26, 2000.
- 543.Environment Canada, Policy Research Seminar Series, Invited speaker: “Natural Capital and Sustainable Development” Hull, Ontario, Canada, July 14, 2000
- 544.US Forest Service and Wilderness Society National Wilderness Values Workshop. Invited opening speaker: “The role and value of ecosystems and natural capital.” Washington, DC, July 11-12, 2000
- 545.EPA STAR Graduate Fellowship Conference 2000. Invited opening keynote speaker: “Developing a shared vision of the future”. Washington, DC, July 10, 2000.
- 546.Ecosummit 2000: Integrating the Sciences. Invited plenary address. “Quality of life and the distribution of wealth and resources.” Halifax, Canada, June 19-22, 2000
- 547.Ecosummit 2000: Integrating the Sciences. Invited opening plenary address. “Understanding and solving environmental problems in the 21st century”. Halifax, Canada, June 19-22, 2000
- 548.4th International Conference of Science and Management of Protected Areas (SAMPA IV). Invited opening plenary: “Globalization and the prospects for a sustainable human presence in the biosphere” University of Waterloo, Waterloo, Ontario, Canada, May 14-19, 2000.
- 549.University of Venice. Invited seminar: “Ecological economics”, Venice, Italy, May 3, 2000.
- 550.Consorzio Venezia Nuova. Invited seminar: “Integrated ecological and economic modeling of watersheds”, Venice, Italy, May 2, 2000.

551. University of Vermont Aiken Lectures 2000: Vermont watersheds: sustaining ecological and economic vitality. Invited plenary speaker: "Integrated ecological and economic modeling of watersheds" Burlington, VT, May 1, 2000.
552. 15th Annual Symposium of the US Regional Association of the International Association for Landscape Ecology: Integration of Societal and Landscape Heterogeneity: Problems and Solutions. Invited special session speaker: "Integrated ecological economic modeling of the Patuxent river watershed, Maryland." Ft. Lauderdale, FL, April 15-19, 2000.
553. 15th Annual Symposium of the US Regional Association of the International Association for Landscape Ecology: Integration of Societal and Landscape Heterogeneity: Problems and Solutions. Invited plenary speaker: "Landscape models as tools in integrated, adaptive management of regional ecological economic systems." Ft. Lauderdale, FL, April 15-19, 2000.
554. University of Alberta, Invited campus-wide seminar: "Ecological economics: reintegrating the study of humans and the rest of nature." University of Alberta, Edmonton, Alberta, Canada, March 16, 2000
555. Sustainable Design Forum. Invited plenary speaker: "Are we spending our natural capital?" University of Maryland School of Architecture. College Park, MD, Feb. 16, 2000.
556. First Lancaster Environmental Symposium: "Human Impact on Natural Resources: a Regional Perspective". Invited keynote speaker: "Dynamics and Economic Value of Ecosystem Services." Millersville University, Millersville, PA, Feb. 12, 2000.
557. University of the West Indies. Conference on the Economics of Natural Resources, the Environment, and Sustainable Development. Invited Featured Address: Reintegrating the Study of the Human Household (Economics) with Nature's Household (Ecology). Port of Spain, Trinidad and Tobago, Jan. 14-15, 2000

1999

558. University of Aalborg invited seminar: "Using envisioning to design a sustainable and desirable world in the presence of irreducible uncertainty. Aalborg, Denmark, Dec. 6, 1999.
559. ELOISE 3rd Open Science Meeting. Invited Keynote speaker: "Bridging the gap between research and management." Noordwijkerhout, the Netherlands, Dec. 1-4, 1999.
560. Society for Environmental Toxicology and Chemistry (SETAC) 20th Annual Meeting. Invited Panel discussant in the session titled: "Risk assessment vs. the precautionary principle". Philadelphia, PA, Nov. 14-18, 1999.
561. Society for Environmental Toxicology and Chemistry (SETAC) 20th Annual Meeting. Invited Platform speaker in the session titled: "Global Sustainability: Linking Environmental Science, Economic Realities and Cultural Priorities". Talk titled: "Using envisioning to design a sustainable and desirable world in the presence of irreducible uncertainty. Philadelphia, PA, Nov. 14-18, 1999.
562. Association of Ecosystem Research Centers (AERC) Symposium: Biocomplexity and Ecosystem Research: Necessities for the 21st Century. Invited Plenary Speaker: "Human systems, Ecosystems, and Biocomplexity. Washington, DC, Nov. 4, 1999.
563. Greening the Campus III: Theory and Reality. Ball State University. Invited plenary speaker: "Integrating Ecology and Economics to Design a Sustainable World and a Sustainable Campus" Ball State University, Muncie, IN, Sept. 30 – Oct. 1, 1999.
564. Estuarine Research Federation (ERF) 15th Biennial International Conference: Where the River Meets the Sea. Invited parallel session speaker in session titled "Ecological Economics." Talk titled: "Valuation of Ecosystem Services in Coastal and Estuarine Ecosystems" New Orleans, LA Sept. 27-30, 1999.
565. UIC Great Cities/Illinois-Indiana Sea Grant Urban Water Resources Conference: Improved Decision-Making for Water Resources: the Key to Sustainable Development for Metropolitan Regions. Invited plenary speaker: "Integrated Ecological Economic Modeling of Water Resources" University of Illinois at Chicago, Chicago, IL, September 16-17, 1999. (talk given from Maryland via Interactive Video)
566. Canadian Society for Ecological Economics (CANSEE) Conference: Nature, Wealth and the Human Economy in the Next Millennium. Invited Keynote Speaker: "Four visions of the century ahead: will it be Star Trek, Ecotopia, Big Government, or Mad Max?" University of Regina, Regina, Saskatchewan, Canada, August 28-29, 1999.
567. Canadian International Development Agency (CIDA) Millennium Lecture Series – Issues for the 21st Century. Invited Speaker: "The Economy of Nature: What Should Development Agencies Be Doing to Help Integrate Ecology and Economics?" Ottawa, Canada, August 27, 1999.
568. Natural Resources Policy and Issues Seminar. Invited Plenary Speaker: "Natural Capital and Ecosystem Services". Eastern Management Development Center, Shepherdstown, WV, August 23, 1999.
569. Town Hall Meeting on "Environmental Health on the Ag/Urban Frontier." Invited plenary speaker: "Ecological economics and sustainable agriculture" and panelist (with K. Olden, Director, NIEHS and R. Rominger, Deputy Director, USDA). Sacramento, CA August 17, 1999.
570. International Congress on Ecosystem Health: Managing for Ecosystem Health. Invited symposium speaker: "Whole watershed health and restoration: Applying the Patuxent and Gwynns Falls landscape models to designing a sustainable balance between humans and the rest of nature". Sacramento CA, August 15-20, 1999.
571. Asia Pacific Environmental Exchange. Invited seminar speaker: "Ecological Economics and Ecosystem Health" Seattle, WA, August 13, 1999.

572. Ecological Society of America 84th Annual Meeting. Invited symposium speaker in the symposium titled: "Scientific objectivity, values and policies". Talk titled: "Visions, values, valuation and the need for an ecological economics." Spokane, WA, August 8-12, 1999.
573. University of Chicago. Environmental Studies Panel Discussion: "Economic Sustainability vs. Environmental Sustainability: Can environmental and neo-classical paradigms be reconciled?" Invited speaker., Chicago, IL May 11, 1999.
574. Council of Scientific Society Presidents Annual Meeting. Invited plenary speaker: "Four Visions of the 21st Century" Washington, DC, May 1, 1999.
575. Maastricht University, ICSC. Invited seminar: "Ecological Economics" Maastricht, The Netherlands, April 26, 1999.
576. Intergovernmental Panel on Climate Change (IPCC) Expert Meeting on "Development, Equity, and Sustainability." Invited plenary speaker: "Ecological Sustainability, Indicators, and Climate Change." Colombo, Sri Lanka, April 27-29, 1999.
577. Stockholm University. Invited Seminar: "Envisioning the future environment" Stockholm, Sweden, April 21, 1999
578. Swedish University of Agricultural Sciences. Keynotes in Natural Resources Lecture: "Using envisioning to design a sustainable and desirable world in the presence of irreducible uncertainty". Uppsala, Sweden, April 20, 1999
579. Fundació Caixa. Invited Seminar: "Frontiers of Ecological Economics". Valencia, Spain, April 13, 1999.
580. Universitat Autònoma de Barcelona. Invited Seminar: "Frontiers of Ecological Economics". Barcelona, Spain, April 12, 1999.
581. Royal Swedish Academy of Sciences. Problems of Scale: a Conference in Honor of Professor Emeritus Bengt-Owe Jansson. Invited plenary speaker: "Spatial modeling of coastal systems" Stockholm, Sweden, March 22-23, 1999 (talk given from Maryland via Interactive Video)
582. University of Vermont, School of Natural Resources. Invited seminar: "Ecological Economics" Burlington, VT February 25, 1999
583. James Madison University. Invited seminar: "What is Ecological Economics" Harrisonburg, VA, February 15, 1999.

1998

584. USEPA Mid-Atlantic Integrated Assessment (MAIA) Working Conference. Invited panel speaker: "Integrated Ecological Economic Modeling and Valuation of Watersheds" Baltimore, MD. November 30 – December 2, 1998.
585. "The Economic Value of the Natural Environment" Seminar sponsored by the Brazilian Business Council on Sustainable Development (BNDES) and the Brazilian National Bank for Economic and Social Development (BNDES). Invited Keynote speaker. Rio de Janeiro, Brazil, November 20, 1998.
586. Fifth Biennial Conference of the International Society for Ecological Economics: "Beyond Growth: Policies and Institutions for Sustainability". Invited panelist: "Ecosystem Health and Sustainable Development: Are They Compatible?". Santiago, Chile, November 15-19, 1998.
587. Fifth Biennial Conference of the International Society for Ecological Economics: "Beyond Growth: Policies and Institutions for Sustainability". Invited panelist: "Measuring sustainability and well-being: ethical and political implications". Santiago, Chile, November 15-19, 1998.
588. Fifth Biennial Conference of the International Society for Ecological Economics: "Beyond Growth: Policies and Institutions for Sustainability". Invited opening address: "Beyond the Argument Culture". Santiago, Chile, November 15-19, 1998.
589. Ocean Ecology, Governance, and Global Change. Invited Plenary Speaker: "Ocean Ecology in the Balance" Luso-American Development Foundation (FLAD), Lisbon, Portugal, June 25-26, 1998.
590. Year of the Ocean National Ocean Conference, National Aquarium in Baltimore. Invited Panelist. Baltimore, MD June 12, 1998.
591. Natural Resources Forum '98: Linkages in Ecosystem Science, Management & Restoration. University of Florida Center for Natural Resources. Invited Plenary Speaker: "A Transdisciplinary Approach to Ecosystem Management." Gainesville, FL, June 9-10, 1998
592. York Distinguished Lecture, University of Florida. "Ecological Economics and the Valuation of Ecosystem Services." Gainesville, FL June 8, 1998.
593. International Association for Great Lakes Research (IAGLR) 41st Annual Conference. Invited Plenary Speaker: "Integrated Ecological Economic Modeling and Valuation of Watersheds" McMaster University, Hamilton, Ontario, Canada, May 19-22, 1998 (~600 attendees)
594. Inaugural meeting of the Massachusetts Chapter of the Society for Conservation Biology. Boston University. Invited Plenary speaker: "Ecological Economics." Boston MA April 29, 1998.
595. University of Massachusetts at Boston. Biology Dept. Invited seminar: "Ecological Economics and Sustainable Development." Boston MA April 29, 1998.
596. Western Kentucky University, Dept of Biology. Invited seminar: "Ecological Economics." Bowling Green Kentucky April 24, 1998.
597. Cornell University. Dept. of Ecology and Systematics. Invited seminar: "Modeling Ecological and Economic Systems." Ithaca NY April 15, 1998.
598. Arizona State University. Department of Biology. Invited seminar: "Modeling, valuing, and managing regional ecological economic systems." Tempe, AZ March 24, 1998.

599. Tulane Environmental Law Society Conference on: Louisiana Environment 98: Law, Science, and the Public Interest. Invited keynote speaker: "Ecological economics." New Orleans, LA March 6-8, 1998.
600. Tulane Environmental Law Society Conference on: Louisiana Environment 98: Law, Science, and the Public Interest. Invited panel presentation: "The economics of coastal wetland loss." New Orleans, LA March 6-8, 1998.
601. Wartburg College invited convocation speaker: "Using Envisioning to Design a Sustainable and Desirable World in the Presence of Irreducible Uncertainty." Waverly, IA Jan 27, 1998.
602. Wingspread workshop on implementing the precautionary principle. Invited participant and speaker: "Assurance bonds." Racine, WI Jan 23-25, 1998.

1997

603. Society for Environmental Toxicology and Chemistry (SETAC) 18th annual meeting: Bridging the global environment: technology, communication, and education. Invited Plenary speaker: "Sustaining the Global Environment: Bridging Production and Development with Environmental Quality." San Francisco, CA Nov. 16-20, 1997.
604. USDA Fund for Rural America, Environment Panel/Workshop. Invited Keynote presentation: "The environment-economy interface." Snowbird, UT October 6-8, 1997.
605. Edwin Way Teal Lecture Series, University of Connecticut. Invited speaker: "Economics and Ecology: the Value of Ecosystem Services." Storrs, CT Sept. 24, 1997.
606. 8th National Urban Forest Conference: "Cities by Nature's Design," invited keynote speaker: "Pricing the world's natural capital," Atlanta, GA September 17-20, 1997.
607. Congressional Hearing on "the value of plant, animal, and microbial species to human health." Plenary speaker. US Senate Rm SC-5. Sept. 8, 1997.
608. UNDP/Costa Rican Ministry of Planning, Conference on: "Sustainable human development: beyond globalization." Invited plenary speaker: "Looking to the future: globalization and the sustainable development challenge." San Jose, Costa Rica August 28-29, 1997.
609. 7th Stockholm Water Symposium/ 3rd. EMECS conference, invited speaker: "The ecological, economic, and social importance of coastal and marine systems." Stockholm, Sweden August 10-14, 1997.
610. Economic Policy Institute, Sustainable Economics Seminar Series, invited speaker: "The value of the world's ecosystems services and natural capital." Washington, DC July 24, 1997.
611. Luso-American Development Foundation and Independent World Commission on the Oceans workshop on The Ecological Economics and Sustainable Governance of the Oceans, workshop organizer and plenary speaker: "The ecological, economic and social importance of the oceans." Lisbon, Portugal July 7-9, 1997.
612. RIKZ, NIOO, & RIZA Workshop on Coastal Eutrophication, invited plenary speaker: "What is a healthy ecosystem?" Renesse, The Netherlands June 15-19, 1997.
613. Corporate Symposium on Sustainable Development, University of Guelph and Sustainable Systems Associates, invited plenary speaker: "Applying Ecological Economics to Business." Toronto, Canada June 5, 1997.
614. Appalachian Environmental Laboratory, invited seminar: "Ecological economics and adaptive regional management." Frostburg, MD April 17, 1997.
615. Johns Hopkins University, Department of Geography and Environmental Engineering, invited seminar: "Ecological economics and adaptive regional and global management." Baltimore, MD April 15, 1997.
616. US EPA, Science Advisory Board, Valuation Subcommittee of the Integrated Risk Project. Invited presenter, "Additional valuation approaches" and "The decision context of valuation." Baltimore, MD April 2-4, 1997.
617. Biosphere 2 Center. Invited Seminar: "Ecological economics." Oracle, AZ March 25, 1997.
618. University of Arizona, Institute for the Study of Planet Earth, Global Change in the Americas Seminar Series. Invited Seminar: "Ecological economics and adaptive regional management." Tucson, AZ March 24, 1997.
619. Michigan State University, Institute of Environmental Toxicology, Invited Seminar: "Ecological economics." East Lansing, MI March 17, 1997.
620. De Lange - Woodlands Conference on Sustainable Development: Managing the Transition. Invited Plenary Speaker: "Designing a Sustainable and Desirable World in the Presence of Irreducible Uncertainty." Rice University, Houston, TX March 3-5, 1997.
621. Independent World Commission on the Oceans, Working group on Economic Uses of the Oceans. Invited participant, Lisbon, Portugal Feb. 17-19, 1997.
622. Patuxent Wildlife Research Center. Invited Seminar: "Ecological economics, landscape ecology, and watershed management." Laurel, MD Feb. 13, 1997.
623. International Joint Commission of the United States and Canada. Invited seminar: "Ecological Economics." Windsor, Ontario Canada Feb. 12, 1997.
624. NATO/CCMS Workshop on Environment and Security in an International Context. Invited speaker: "Methodology for Integrating Ecological Sciences with Economics and Policy." Washington, DC January 22, 1997.
625. Louisiana State University, Department of Oceanography and Coastal Sciences and Coastal Ecology Institute. Invited Seminar: "Landscape modeling and management: the Patuxent watershed, MD." Baton Rouge, LA January 6, 1997.
626. American Economics Association Annual Meeting. Invited parallel session speaker: "What is ecological economics and why do we need it?" New Orleans, LA Jan. 4-6, 1997.

1996

627. U.S. Global Change Research Program. Invited Seminar. "The economics of climate change impacts and mitigation: the importance of values and assumptions." Rayburn House Office Building, Washington, DC December 9, 1996.
628. Synthesis in Ecology: Applications, Opportunities, and Challenges. Invited Plenary speaker: "The value of the world's ecosystem services and natural capital." National Center for Ecological Analysis and Synthesis. Santa Barbara, CA November 18-20, 1996.
629. NSF/EPA Water and Watersheds symposium. Invited plenary speaker: "Integrated ecological economic modeling and valuation of watersheds: progress in the Patuxent watershed, Maryland." Arlington, VA November 14-15, 1996.
630. Sustainable Agriculture in Palm Beach County and South Florida Conference. Invited Plenary speaker: "The value of a sustainable agriculture in dollars and sense." West Palm Beach, FL October 30, 1996.
631. South Florida Water Management District, invited seminar: "Ecological economics and adaptive regional management." West Palm Beach, FL October 28, 1996.
632. Ecological Summit 96. Joint meeting of the International Societies of Ecological Economics, Ecological Modelling, Ecological Engineering and Ecosystem Health. Invited speaker in the session on Recent Developments in Ecological Modeling: "Discrete Modeling in a Continuous World: Surprises and Algorithms." Copenhagen, Denmark August 19-23, 1996.
633. Ecological Summit 96. Joint meeting of the International Societies of Ecological Economics, Ecological Modelling, Ecological Engineering and Ecosystem Health. Invited plenary speaker: "The Ecology of Systems Including Humans." Copenhagen, Denmark August 19-23, 1996.
634. 1996 Annual Meeting of the Ecological Society of America (jointly with the Society for Conservation Biology). Symposium on: "Ecological Economics: Valuation of species, ecosystems, and natural resources." Invited keynote speaker: "Overview of Ecological Economics." Providence, RI August 10-14, 1996.
635. Fourth International Conference of the International Society for Ecological Economics. "Designing Sustainability: Building Partnerships Among Society, Business, and the Environment." Invited panel presentation: "Beyond the First Stage: Programs and Course Concentrations in Ecological Economics." Boston, MA August 4-7, 1996.
636. Fourth International Conference of the International Society for Ecological Economics. "Designing Sustainability: Building Partnerships Among Society, Business, and the Environment." Invited panel presentation: "Assessing the Role of Human Capital and Natural Capital in Economic Production." Boston, MA August 4-7, 1996.
637. Fourth International Conference of the International Society for Ecological Economics. "Designing Sustainability: Building Partnerships Among Society, Business, and the Environment." Invited panel presentation: "Valuation Methods for National Accounting." Boston, MA August 4-7, 1996.
638. Fourth International Conference of the International Society for Ecological Economics. "Designing Sustainability: Building Partnerships Among Society, Business, and the Environment." Invited panel presentation: "Ecosystem Valuation." Boston, MA August 4-7, 1996.
639. Fourth International Conference of the International Society for Ecological Economics. "Designing Sustainability: Building Partnerships Among Society, Business, and the Environment." Invited panel presentation: "Ecological Tax Reform." Boston, MA August 4-7, 1996.
640. Fourth International Conference of the International Society for Ecological Economics. "Designing Sustainability: Building Partnerships Among Society, Business, and the Environment." Invited panel presentation: "Integrated, Adaptive, Ecological Economic Modeling and Assessment." Boston, MA, August 4-7, 1996.
641. Fourth International Conference of the International Society for Ecological Economics. "Designing Sustainability: Building Partnerships Among Society, Business, and the Environment." Plenary Opening Address, Boston, MA August 4-7, 1996.
642. Colloquium: New Dimensions in Environmental Policy. Department of Economics, Sveriges Lantbruksuniversitet. Invited speaker: "Dynamic systems modeling for scoping and consensus building." Uppsala, Sweden June 7, 1996.
643. Global Changes and Human Health: Possible Causes, Effects, and Preventive Measures. Seminar at the Royal Swedish Academy of Sciences. Invited Plenary Speaker: "An eco-economic perspective on global changes and their consequences." Stockholm, Sweden May 29, 1996.
644. Ecology, Society, Economy: In Pursuit of Sustainable Development, inaugural conference of the European Chapter of the International Society for Ecological Economics. Invited parallel session speaker: "Dynamic Modeling for Scoping and Consensus Building." Université de Versailles, Paris, France May 23-25, 1996.
645. Ecology, Society, Economy: In Pursuit of Sustainable Development, inaugural conference of the European Chapter of the International Society for Ecological Economics. Invited plenary speaker: "Co-Evolving Preferences and the Valuation of Ecosystem Services." Université de Versailles, Paris, France May 23-25, 1996.
646. Facultad de Agronomía, University of Buenos Aires, invited seminar: "The ecological economics perspective." Buenos Aires, Argentina April 8, 1996.
647. Fundación Patagonia Natural, workshop on Coastal Zone Management in Patagonia, invited speaker: "Ecological economics." Puerto Madryn, Argentina March 28, 1996.
648. Banff Bow Valley Study, Ecological Outlook Workshop #2, invited plenary speaker: "Re-integrating ecology and economics for sustainability." Banff, Canada March 7, 1996.
649. Mt. Holyoke College, invited seminar: "International Trade and the Environment." Mt. Holyoke, MA March 4, 1996.

650. Lund University, invited seminar: "Integrated Ecological Economic Modeling," Lund, Sweden February 15, 1996.
651. Swedish Collegium for Advanced Study in the Social Sciences (SCASSS). Invited seminar: "Envisioning a sustainable and desirable society." Uppsala, Sweden February 8, 1996.
652. Swedish University of Agricultural Sciences, Department of Economics invited seminar: "Integrated Ecological Economic Modeling." Uppsala, Sweden February 8, 1996.
653. National Center for Geographic Information and Analysis (NCGIA) conference on Linking GIS and Environmental Modeling. Invited speaker: "The future of spatial modeling for understanding and predicting landscape transformations." Santa Fe, NM January 21-25, 1996.

1995

654. University of York, Department of Environmental Economics and Environmental Management, Invited seminar: "Integrated ecological economic modeling at the regional level." York, England December 14, 1995.
655. Beijer International Institute of Ecological Economics, Invited seminar: "Integrated ecological economic modeling." Stockholm, Sweden December 13, 1995.
656. Australian Institute of Marine Sciences, Invited seminar: "Ecological Economics." Townsville, Australia December 7, 1995.
657. Great Barrier Reef Marine Park Authority, Invited seminar: "Ecological Economics." Townsville, Australia December 7, 1995.
658. The Other Economic Summit, University of Adelaide, invited plenary speaker: "Envisioning a sustainable and desirable society." Adelaide, Australia December 1, 1995.
659. University of Melbourne invited special seminar: "Ecological economics: transdisciplinary education and research." Melbourne, Australia November 30, 1995
660. Victoria Department of Conservation and Natural Resources, Flora, Fauna, and Fisheries Division and Environmental Policy Branch, invited special seminar: Ecological Economics: The Policy Dimensions. Melbourne, Australia November 30, 1995.
661. Australian Parliamentary Library Vital Issues Seminar, invited speaker: "Paths to a Sustainable Economy." Parliament House, Canberra, Australia November 29, 1995.
662. CSIRO invited special seminar, Division of Wildlife and Ecology: "Integrated ecological economic modeling." Canberra, Australia November 28, 1995.
663. Economics for the Global Good Conference. Invited plenary speaker. "Alternative Futures." Sydney, Australia November 25, 1995.
664. Inaugural Ecological Economics Conference of the Australia New Zealand Society for Ecological Economics. Invited plenary speaker: "Ecological economics: the policy dimensions." Coffs Harbor, Australia November 19-23, 1995.
665. Universidade Católica Dom Bosco. Ecological Economics Seminar. Plenary opening address: "Ecological economics and integrated assessment." Campo Grande, Brazil November 9-10, 1995.
666. Maryland Sierra Club seminar series. Invited speaker: "Ecological economics and sustainable development in a regional context." Prince Frederick, MD October 25, 1995.
667. Swedish Collegium for Advanced Study in the Social Sciences (SCASSS) workshop on economics, ethics, and the environment. Invited plenary speaker, "The evolution of preferences." Friihergh, Sweden August 25-27, 1995.
668. NOAA/NMFS/EPA Symposium on The Gulf of Mexico: a Large Marine Ecosystem. Invited plenary speaker, "Ecological and economic system health and social decision making for large marine ecosystems." St. Petersburg Beach, FL August 23-25, 1995.
669. Natal Parks Board. Invited seminar: "Ecological Economics and Sustainability." Pietermaritzburg, South Africa July 31, 1995.
670. University of Cape Town. Invited seminar: "Ecological Economics and Sustainability." Cape Town, South Africa July 27, 1995.
671. Ecological Outlook Workshop: Cumulative Effects Assessment and Futures Modeling Workshop. Invited Speaker: "Integrated Ecological Economic Modeling." Banff, Canada June 6-8, 1995.
672. International Association for the Study of Common Property, 5th International Conference: Reinventing the Commons. Invited speaker in session titled: "Ecological and Institutional Linkages." Paper titled: "Integrated ecological economic modeling and adaptive management of complex systems." Bodø, Norway May 24-28, 1995.
673. Universidad Austral, Invited Seminar: "Ecological Economics." Valdivia, Chile March 28, 1995
674. Universidad de Chile, Sustainable Development Program and Department of Economics, 2 invited seminars: "Ecological Economics." Santiago, Chile March 22-23, 1995.
675. SCOPE workshop on Estuarine Synthesis. Invited plenary speaker, "Integrated Modeling of Coastal Landscapes." Beckman Center, Irvine, CA Feb 23-25, 1995.
676. Emory University, Human and Natural Ecology Program, invited seminar. Atlanta, GA Feb 22, 1995.
677. Georgia Institute of Technology, School of Social Sciences, invited seminar: "Integrated ecological economic modeling and adaptive management of complex systems." Atlanta, GA Feb 22, 1995.
678. University of Georgia, Institute of Ecology, invited seminar: "Ecological economics." Athens, GA Feb. 21, 1995.
679. AAAS 1995 Annual Meeting. Invited topical lecture, "Integrated ecological economic modeling and adaptive management of complex systems." Atlanta, GA Feb. 16-21, 1995.

680. AAAS 1995 Annual Meeting. Invited speaker in session titled: "Interface disciplines: the mismatch between traditional disciplines and global problems." Paper titled: "The economics-ecology interface." Atlanta, GA Feb. 16-21, 1995.
681. University of the West Indies, Center for Environmental Studies. Invited Seminar: "Environmental degradation: the costs to society." Port of Spain, Trinidad and Tobago, February 15, 1995.
682. University of Michigan, School of Natural Resources. Invited Seminar: "New Perspectives Provided by Ecological Economics." January 17, 1995.

1994

683. International Conference on Biodiversity, Ecosystem Health, and Sustainable Development, Organized by Tulane University, Smithsonian Institution, and Conservation International. Invited Plenary Speaker, Opening Plenary Session. New Orleans, LA December 11-14, 1994.
684. Fundação Luso-Americana. Roundtable on Sustainable Development Principles and Actions Needed. Invited Plenary Speaker: "What is Sustainable Development?" Lisbon, Portugal November 30, 1994.
685. New University of Lisbon. Invited seminars on integrated ecological economic modeling. Lisbon, Portugal November 28-29, 1994.
686. Third International Conference of the International Society for Ecological Economics. "Down to Earth: Practical Applications of Ecological Economics." Invited plenary opening and closing remarks. San José, Costa Rica October 24-28, 1994.
687. 45th Annual American Institute of Biological Sciences/Ecological Society of America meeting. Invited symposium speaker: "Ecological Economics: integrating the study of humans and nature." Knoxville, TN August 7-11, 1994.
688. Massey University, Department of Ecology, Invited seminar: "Ecological economics and sustainable development." Palmerston North, New Zealand August 8, 1994.
689. Lincoln University, Department of Agricultural Engineering, Invited seminar: "Integrated ecological economic modeling for watershed management." Christchurch, New Zealand August 4, 1994.
690. Canterbury University, Department of Chemical and Process Engineering, 2 Invited seminars: "Ecological Tax Reform" and "Ecological Economics and Sustainable Development." Christchurch, New Zealand August 2-3, 1994.
691. International Experts Meeting on Operationalizing the Economics of Sustainable Development. Invited plenary speaker: "Ecological economics and sustainable development." Manila, Philippines, July 28-30, 1994.
692. USDA Forest Service National Research Assessment Workshop: Fish and Wildlife Valuation. Invited plenary keynote speaker, Aspen Lodge, Estes Park, CO June 27-30, 1994.
693. 1st International Symposium on Ecosystem Health and Medicine: Integrating science, policy, and management." Invited plenary speaker and panel participant, Ottawa Congress Center, Ottawa, Canada June 19-23, 1994.
694. Massachusetts Institute of Technology, Department of Civil and Environmental Engineering, Invited seminar: "Integrated ecological economic modeling of regional landscapes." Cambridge, MA May 2, 1994.
695. National Academy of Engineering, Workshop on Engineering within ecological constraints. Invited participant and speaker: "Ecological approaches to engineering and economics." National Research Council, Washington, DC April 19-21, 1994.
696. Society for International Development 21st World Conference: People's rights and security: sustainable development strategies for the 21st century; Invited plenary speaker: "Employment, livelihoods and environmental balance." Mexico City, Mexico April 6-9, 1994.
697. University of Pittsburgh, Environmental Policy Studies Group invited seminar: "Ecological economics: the science and management of sustainability." Pittsburgh, PA March 24, 1994.
698. Heinz Endowment colloquium on Industrial Ecology, invited plenary speaker: "Ecological economics." Pittsburgh, PA March 23, 1994.
699. Eastern Economics Association Meeting. Invited speaker: "Modeling complex ecological economic systems." Boston, MA. March 18-20, 1994.
700. University of Minnesota. Invited special seminar, Department of Ecology and Conservation Biology Program. "Ecological Economics." St. Paul, MN March 4, 1994.
701. Gothenberg University. Invited special seminar, Department of Economics, Environmental Economics program. "Modeling complex ecological economic systems." Gothenberg, Sweden Feb. 4, 1994.
702. Free University of Amsterdam, Invited special seminar, Institute for Environmental Studies. "Modeling complex ecological economic systems." Amsterdam, Netherlands January 26, 1994.
703. National Institute of Public Health and Environmental Protection (RIVM). Invited special seminar, "Ecological Economics." Bilthoven, Netherlands January 25, 1994.

1993

704. Workshop on Integrated Quantitative Analysis and Coastal Zone Management. Invited plenary speaker: "Integrated ecological economic modeling of coastal systems." Universidad de Costa Rica, San José, Costa Rica November 22-28, 1993.
705. The Harrison Program on the Future Global Agenda: Footsteps to Sustainability. Invited plenary speaker: "Ecological economics and protection of the environment." University of Maryland College Park, October 28-30, 1993.

706. NATO Advanced Research Workshop: Evaluating and Monitoring the Health of Large-Scale Ecosystems. Invited plenary speaker: "Using indices and quantification of ecosystem health in social decision making." Montebello, Quebec, Canada October 10-15, 1993.
707. The 10th Annual Hazardous Waste Law and Management Conference: Economic Considerations in Managing Hazardous Waste. Invited plenary speaker: "Environmental/Ecological Economics in Practice and in Theory." Northwestern School of Law of Lewis and Clark College, Portland, OR October 7-8, 1993.
708. LTER all-scientists meeting. Invited plenary speaker: "New directions for LTER: ecological economics." Estes Park, Colorado, Sept 19-23, 1993.
709. Beijer International Institute of Ecological Economics. Workshop on Property Rights and the Environment. Invited participant. Stockholm, Sweden, September 2-4, 1993.
710. 12th Annual meeting of the Balaton Group. Invited plenary speaker: "Sustainable trade." Csopak, Hungary August 27-Sept 1, 1993.
711. Course on Ecosystem Theory, Invited Plenary Lecture. Royal Danish School of Pharmacy, Copenhagen, Denmark August 16-20, 1993.
712. Bauman Foundation workshop on New England's Economy, Environment, and Democracy. Invited plenary panel participant. Westford MA June 24-25, 1993.
713. Social Costing: towards a new decision-making framework. Invited Plenary Keynote Speaker: "Maintaining natural capital to ensure sustainability." Whistler Center for Business and the Arts, Whistler, BC, Canada June 20-22, 1993.
714. Environmental Technology and Sustainability in Business. Invited Plenary Speaker: "Valuation of Ecosystem Services: Methods and Training Needs." Miami University of Ohio, Oxford, OH May 20-22, 1993.
715. National Center for Supercomputer Applications 1993 Conference on Computing for the Social Sciences. Invited Plenary Keynote Speaker: "Modeling complex ecological economic systems: toward an evolutionary, dynamic, understanding of humans and nature." University of Illinois, Champaign, IL May 18-21, 1993.
716. US National Committee for SCOPE workshop: Ecological Engineering: an approach to restoration, biodiversity, and sustainability. Invited plenary panel participant, "The feasibility of ecological engineering and ecosystem restoration as an international SCOPE project." National Academy of Sciences, Washington, DC May 17, 1993.
717. Resource Policy Consortium Symposium: Integrating economic and ecological indicators. Invited Plenary Speaker: "Modeling ecological economic systems." The World Bank, Washington, DC May 17-18, 1993.
718. University of Maryland Geography Department seminar series: "Ecological economic modeling at multiple scales." May 3, 1993.
719. University of Missouri at St. Louis: Conference titled: Linking Economics and the Environment. Plenary Keynote speaker: "What is Ecological Economics?" March 26, 1993.
720. NSF Workshop on National Needs for Controlled Environments in Ecology and Environmental Sciences. Invited Plenary Speaker: "The future for controlled environment facilities in aquatic ecology and ecological toxicology." Incline Village, Nevada February 21-25, 1993.
721. Biodiversity Support Program Seminar Series: "Ecological economics: striking a sustainable balance of humans in nature." World Wildlife Fund, Washington, DC February 17, 1993.
722. AAAS 1993 Annual Meeting. Invited speaker in session titled: "Ecosystem Valuation: assigning economic values to ecosystem damage." Paper titled: "Ecological economic approaches to valuation." Boston, MA Feb. 11-16, 1993.
723. IICA invited seminar: "Ecological economics in a developing country context." San José, Costa Rica Feb. 1, 1993.

1992

724. Estuarine Coastal Sciences Association/Estuarine Research Federation Joint Conference. Changes in Fluxes in Estuaries, Plenary Speaker: "Ecological economics and managing the coastal zone for sustainability." Plymouth, England, September 13-19, 1992.
725. International Society for Ecological Economics, Second International Conference: Investing in Natural Capital, Invited plenary speaker: "Three things we can do to achieve sustainability," Stockholm, Sweden, August 3-6, 1992.
726. National Carrying Capacity Issues Conference, Carrying Capacity Network, Invited speaker: "Towards a new economics." Washington DC 6/19/92-6/21/92.
727. EcoWorld: American Society of Mechanical Engineers, Invited speaker: "Ecological Economics." Washington DC 6/14/92-6/19/92.
728. EcoTech: International symposium and exhibition of environmental technologies. Invited speaker: "Natural resources accounting." Rio de Janeiro, Brazil 5/29/92-6/6/92.
729. UNESCO/Government of Brazil Scientific Programme on Environment and Development, Invited plenary speaker: "Ecological Economics." Rio de Janeiro, Brazil 6/1/92-6/6/92.
730. Second International Workshop on Ecological Physical Chemistry. Invited Plenary presentation: "The limits of ecological economics." Milan, Italy 5/25/92-5/29/92.
731. College of the Atlantic, Invited seminar: "Ecological Economics." Bar Harbor, ME 5/11/92.
732. Council on Foundations Annual Meeting. Invited speaker: "Ecological Economics." Miami, FL 4/27/92.
733. NOAA workshop on Ecosystem Health. Invited speaker: "Toward and operational definition of ecosystem health." Narragansett, RI 4/24/92.
734. Scientific Committee On Problems of the Environment (SCOPE) VIIIth General Assembly. Invited plenary speaker: "Ecological economics: the science and management of sustainability." Seville, Spain 1/19/92-1/26/92.

1991

735. NOAA workshop on the Barataria/Terrebonne Estuary Program. Invited plenary speaker: "Modeling applications and the importance of scale." Thibodeaux, LA 10/29/91.
736. University of Washington, School of Marine Affairs. Invited seminar: "What is ecological economics?" Seattle, WA 10/28/91.
737. University of Illinois, Allerton Park Conference Center. Workshop on Ecosystem Health, invited participant. 10/20/91-10/23/91. National Center for Supercomputer Applications. Invited seminar. "Spatial Ecosystem Modeling using Parallel Processors." 10/25/91
738. Beijer International Institute of Ecological Economics. Workshop on Biodiversity. Invited participant. Stockholm, Sweden 9/16/91-9/20/91.
739. International Network of Resource Information Centers. 10th Annual Balaton Group Meeting. Invited plenary speaker, "Economic Diversity." Csopak, Hungary 9/3/91-9/8/91.
740. Aspen Global Change Institute, workshop on biodiversity. Invited participant. Aspen CO 8/11/91-8/16/91.
741. Ecological Society of America. 1991 Annual Meeting. Invited speaker, session: "Ecological economics," paper titled: "Ecological economics: creating a new transdisciplinary science." Invited speaker, session: "New Horizons in Ecological Simulation," paper titled: "Spatial ecosystem simulation modeling and parallel processing." San Antonio, TX 8/4/91-8/8/91.
742. International Council of Scientific Unions. International Conference on an Agenda of Science for Environment and Development into the 21st Century (ASCEND 21). Invited participant and author, "Primary factors affecting population and natural resource use." Vienna, Austria 7/1/91-7/5/91 and 11/25/91-11/29/91.
743. International Conference on Human Ecology. Invited plenary speaker: "Goals, agenda, and policy recommendations for Ecological Economics," University of Göteborg, Göteborg, Sweden, 6/9/91-6/14/91.
744. CATIE Workshop on the Methodology of Economic Evaluation of Tropical Wetlands. Invited participant. Turrialba, Costa Rica, 5/29/91-6/4/91.
745. WIDER workshop: The Economics of the Transnational Commons. Invited discussant. University of Siena, Siena, Italy, 4/25/91-4/27/91.
746. Stockholm Environment Institute conference on the Principles of Clean Production. Invited plenary speaker: "Developing sustainable, non-polluting ecological economic systems." Stockholm, Sweden, 4/23-24/91.
747. Johns Hopkins University, Applied Physics Lab, Invited Seminar: "Ecological Economics." Rockville, MD 3/22/91.
748. AAAS 1991 Annual Meeting. Three invited talks in three different sessions: "Toward an Operational Definition of Ecosystem Health," "Ecological Economics: Creating a New Transdisciplinary Science," and "Policies for Sustainable Development of Coastal Regions." Washington DC Feb. 14-19, 1991.
749. CATIE International Workshop on Ecology and Economics. Invited plenary presentation: "Economic Evaluation and Management of Wetlands." Turrialba, Costa Rica, Jan. 29-30, 1991.

1990

750. Maryland House of Delegates Seminar for New Legislators. Invited presentation, "Status of the Chesapeake Bay and Related Issues." Dec. 10, 1990.
751. University of Florida. Special Seminar in Zoology and Ecology "From populations to landscapes: scaling issues in ecology." Gainesville, FL Nov. 27, 1990.
752. University of Siena. Workshop on Ecological Physical Chemistry. Invited plenary presentation: "Energy, Uncertainty, and Ecological Economics." Siena, Italy, November 8-12, 1990.
753. National Advisory Council for Environmental Policy and Technology. Invited presentation to the full council, "Accounting for the Environment: reaching a common framework." Oct 24, 1990.
754. US EPA International Symposium on Ecological Indicators. Invited Plenary presentation, "Ecological economic issues and considerations of indicator development." Ft. Lauderdale, FL Oct. 16-19, 1990.
755. Southwestern University Global Issues Forum: The Biodiversity Crisis. One of 6 invited lectures for 1990, "Pricing Diversity: Economic and Philosophical Perspectives." Southwestern University, Georgetown, TX Oct. 11, 1990.
756. The Ecological Economics of Sustainability: Making Local, Short-Term and Global, Long-Term Goals Consistent. Plenary presentation "Assuring sustainability of ecological economic systems." The World Bank, Washington, DC May 21-23, 1990.
757. NSF Workshop: Mathematics and Biology: The Interface, Challenges, and Opportunities. Washington, DC 4/29/90-5/1/90.
758. U.S. Forest Service workshop: Ecological Economics: Its Implications for Forest Management and Research. Plenary presentation: "Natural capital and sustainable forest management." St. Paul, MN 4/2/90-4/5/90.
759. Canadian Environmental Assessment Research Council (CEARC) workshop on Natural Capital. Keynote presentation: "Natural capital and sustainable development." Vancouver, Canada 3/15/90-3/16/90.
760. Policy seminar: Towards an ecologically sustainable economy. Keynote presentation: "The Interface Between Ecology and Economy." Swedish Council for Planning and Coordination of Research and the Swedish Ministry of Environment and Energy. Stockholm, Sweden 1/3/90-1/4/90.

1989

- 761. EcoBermuda. Invited special seminar: "Ecological Economics." Hamilton, Bermuda 12/8/89.
- 762. University of Virginia, Department of Environmental Sciences invited seminar: "Modeling coastal landscape dynamics." Charlottesville, VA 11/10/89.
- 763. Metropolitan Washington Chapter, Ecological Society of America. "Ecological Economics." Washington, DC 10/16/89.
- 764. Improving the Environment Through Forest Products Research; Forest Products Research Conference. "The Ecological Economics of World Forest Resources" (plenary talk). Forest Products Laboratory, Madison, WI 10/3/89-10/5/89.
- 765. 40th AIBS Annual Meeting, "Modeling Landscape Dynamics" Toronto, Canada 8/6/89-8/10/89.
- 766. Rethinking the Curriculum: a Conference on Integrated Interdisciplinary Education. "The Overspecialization Trap" (plenary talk). San Diego, CA 6/19/89-6/23/89.
- 767. Arbeitsgruppe Theoretische Oekologie, PROSPERO workshop on human aspects of fisheries management. "Uncertainty and data quality in environmental management." Juelich, Federal Republic of Germany 5/16/89-5/19/89.
- 768. Fourth Annual Landscape Ecology Symposium. "The Predictability of Landscapes." Fort Collins, CO 3/15/89-3/18/89.
- 769. Global Tomorrow Coalition. Global Issues Forum on the Economics of Sustainability. Washington, DC 3/8/89.
- 770. Arbeitsgruppe Theoretische Oekologie, PROSPERO workshop on ecological accounting systems. "Dealing with the 'mixed units' problem in ecosystem network analysis." Juelich, Federal Republic of Germany 1/9/89-1/13/89.

1988

- 771. NSF Workshop on Predicting Across Scales, workshop participant, Oak Ridge, TN 11/8/88-11/12/88.
- 772. European Centre for Research and Documentation in Social Sciences workshop on Environmental Training of Economists. "Ecosystem Valuation and Management." La Valletta, Malta, 4/10/88-4/15/88.
- 773. Third Annual Landscape Ecology Symposium: "Multiple resolution procedures for determining the predictability of landscape patterns." University of New Mexico, Albuquerque, NM 3/16/88-3/19/88.

1987

- 774. Ninth Biennial International Estuarine Research Conference. "Model Goodness-of-Fit: a Multiple Scale Procedure." New Orleans, LA October 25-29, 1987.
- 775. European Centre for Research and Documentation in Social Sciences symposium on Ecological Economics. "Wetland Ecosystems Valuation and Management." Barcelona, Spain 9/23/87-9/28/87.
- 776. International Society for Ecological Modeling 6th International Conference on The State of the Art of Ecological Modeling. "Modeling Landscape Dynamics." Venice, Italy 6/22/87-6/26/87.
- 777. Coastal Zone 87: Fifth Symposium on Coastal and Ocean Management. "Using the Coastal Ecological Landscape Spatial Simulation Model for Wetland Management." Westin Hotel, Seattle, WA 5/26/87 - 5/29/87.

1986

- 778. SCOPE Workshop on Network Analysis in Oceanography. "Commodity by Process Network Analysis." University of California at Santa Cruz, Santa Cruz, CA 12/1/86-12/5/86.
- 779. Meadowcreek Project on the Linkages Between Environmental Studies and Peace Studies. "Social Traps, Ecological Destruction, and the Arms Race: Some Examples of Optimization Gone Awry." Meadowcreek Conference Center, Fox, AK 10/16/86-10/19/86.
- 780. The Coastal Society Tenth National Conference: Estuarine and Coastal Management: Tools of the Trade. "A Dynamic Spatial Simulation Model of Coastal Ecosystem Succession in the Mississippi Deltaic Plain as a Tool for Management." International Hotel, New Orleans, LA 10/12/86-10/15/86.
- 781. National Wetland Symposium. "Valuation of Wetlands." International Hotel, New Orleans, LA 10/8/86-10/10/86.
- 782. NSF Workshop on Array and Parallel Computation in Landscape Dynamics. "Applications in Coastal Wetland Systems." Colorado State University, Fort Collins, CO 9/14/86-9/19/86.
- 783. International Congress of Ecology. "Dynamic Spatial Modeling of Coastal Wetland Succession in Coastal Louisiana." Syracuse University, Syracuse, NY 8/10/86-8/16/86.
- 784. Society for Computer Simulation Eastern Simulation Conferences. "A Dynamic Spatial Model of Long-term Changes in a Coastal Wetlands System in South Louisiana." Omni International Hotel, Norfolk, VA 3/10/86.
- 785. First International Conference on Conflict Resolution and Peace Studies. "Understanding and Controlling the Conflict Escalation Process and the Nuclear Arms Race: Experiments with the Dollar Auction Game." University of the South Pacific, Suva, Fiji, 1/1/86.

1985

- 786. Estuarine Management Practices Symposium. "Economic Valuation of Wetlands." Prince Murat Hotel, Baton Rouge, LA 11/11/85.

787. International Society for Ecological Modeling Annual Meeting. "Articulation, Accuracy, and Effectiveness of Mathematical Models: What is the Optimal Modeling Effort Under Time and Cost Constraints?" University of Florida, Gainesville, FL 8/13/85.
788. International Society for Ecological Modeling Annual Meeting. "Ecological Modeling and Public Policy: Seeing, Avoiding, and Escaping from Traps." University of Florida, Gainesville, FL 8/13/85.
789. The 20th Intersociety Energy Conversion Engineering Conference. "Energy Economics." Panel discussion in plenary session on the National Energy Plan. Fontainebleau Hilton Hotel, Miami Beach, FL 8/21/85.
790. Estuarine Research Federation Annual Meeting. "Modeling Spatial and Temporal Succession in the Atachafalya/Terrebonne Marsh/Estuarine Complex in South Louisiana." University of New Hampshire, Durham, NH 7/31/85.

1978-84

791. SCOPE-UNEP Conference on Freshwater Wetlands. "Mathematical Models of Freshwater Wetlands and Shallow Water Ecosystems: An Articulated Review." Tallinn, USSR, 8/3/83. (Talk was not given at Tallinn because visa problems prevented attendance. Paper presented at the International Institute for Applied Systems Analysis in Laxenburg, Austria instead).
792. Center for Energy Studies Energy Forum. "Ultimate Recoverable Hydrocarbons: A Net Energy Approach." Louisiana State University, Baton Rouge, LA 10/7/83.
793. International Society for Ecological Modeling Annual Meeting. "Factors Contributing to Marsh Land Loss in Louisiana's Coastal Zone." Colorado State University, Fort Collins, CO 8/82.
794. International Society for Ecological Modeling Annual Meeting. "The Mississippi Deltaic Plain Region (MDPR) Study: An Application of Ecological Models to the Analysis and Management of a Complex Coastal Region." Colorado State University, Fort Collins, CO 8/82.
795. Wallenberg Symposium. "Natural Resource Valuation and Management: Toward an Ecological Economics." Stockholm, Sweden 9/1/82.
796. Students for Safe Energy Panel Discussion. "Current Major Issues in the Struggle Against Nuclear Power." Louisiana State University, Baton Rouge, LA 10/28/81.
797. Economics Department Fall Seminar. "Energy, Ecology, and Economic Modeling." Louisiana State University, Baton Rouge, LA 11/20/81.
798. International Society for Ecological Modeling Annual Meeting. "The Energy Embodied in the Products of the Biosphere". University of Louisville, Louisville, KY. 4/20-23/81.
799. International Society for Ecological Modeling Annual Meeting. "The Energy Embodied in the Products of Ecological Systems: A Linear Programming Approach". University of Louisville, Louisville, KY 4/20-23/81.
800. Fish & Wildlife Service Workshop on Environmental Impact Assessment. "The Use of a Systems Approach for Quantifying Environmental Impacts." North Carolina State University, Raleigh, NC 10/80.
801. Illinois Natural History Survey Special Seminar. "Valuing Natural Resources: A Comprehensive Approach." University of Illinois, Champaign, Illinois 6/17/80.
802. AAAS Annual Conference: Symposium on Energetic and Ecological Economics. invited speaker: "Embodied Energy, Energy Analysis, and Economics." San Francisco, CA 1/80.
803. Special seminar on dynamic optimization models in ecology and economics. Savannah River Ecology Lab, Aiken, SC 9/79.
804. American Institute of Biological Sciences Annual Meeting. "Predictability of Energy Sources as an Index of Ecosystem Production Potential." University of Georgia, Athens, GA 10/78.

E. Symposia, Workshops, and Conferences Organized/Chaired (42)

1. [Ecosummit 2023](#). Building a sustainable and desirable future. Organizing committee co-chair. Gold Coast, Australia, June 13-17, 2023
2. Territory Natural Resource Management Conference Workshop: Ecosystem services valuations in the Territory – what, why, and how? Darwin, Australia, 15 Nov. 2018
3. 7th International Conference of the Ecosystem Services Partnership (ESP): Global action for the common good. Co-Chair and member of the international organizing committee. San José, Costa Rica, 8-12 Sept. 2014
4. Workshop on "Interactive Games to Value and Manage Ecosystem Services" National Center for Ecological Analysis and Synthesis (NCEAS). Workshop chair and organizer, Santa Barbara, CA, July 7-11, 2014
5. Workshop on "Interactive Games to Value and Manage Ecosystem Services" Australian Center for Ecological Analysis and Synthesis. Workshop chair and organizer, Brisbane, Australia, Dec. 9-13, 2013. <http://www.tern.org.au/Newsletter-2013-Dec-ACEAS-Gaming-pg27601.html>
6. 6th Annual Ecosystem Services Partnership (ESP) Conference. Making Ecosystem Services Count. Co-Chair, Conference Organizing Committee. Bali, Indonesia, Aug 26-30, 2013 (<http://www.esconference.org>)
7. Workshop on "Using Human Interactions with Games to Value Ecosystem Services" (with Lisa Wainger). National Socio-Environmental Synthesis Center (SESYNC), Annapolis, MD. June 25-28, 2013. <http://www.sesync.org/representing-in-game-environments>

8. 5th Annual Ecosystem Services Partnership (ESP) Conference. Ecosystem Services Come of Age: Linking Science, Policy and Participation for Sustainable Human Well-Being. Main Conference Organizer and Chair of the Planning Committee. Portland, OR, July 31-Aug 3, 2012 (<http://www.esconference.org>)
9. Working group on "Integrated History and future of People on Earth (IHOPE): Building a community data base and testing the resilience - sustainability hypothesis across scales" (with Lisa Graumlich and Sander van der Leeuw). National Center for Ecological Analysis and Synthesis (NCEAS), University of California at Santa Barbara, Nov 2008; March, 2009; Sept. 2009.
10. The Planet in 2050. Conference co-chair. Lund, Sweden, Oct. 27-31, 2008
11. Conference on Ecosystem Services in China and the U.S. Conference co-chair. Beijing, China, Oct. 12-19, 2008
12. Payment for Ecosystem Services: from local to global. An international conference and atelier workshop. Conference and workshop co-organizer and chair. Universidad Nacional Costa Rica, Heredia, Costa Rica, March 8-16, 2007.
13. Working group on "Understanding, valuing, and managing dynamic ecosystem services under stress: Synthesizing across the LTER Network" (with Steve Farber). National Center for Ecological Analysis and Synthesis (NCEAS), University of California at Santa Barbara, June 25-July 4, 2004; June 20-25, 2005
14. Healthy Ecosystems, Healthy People: Linkages between biodiversity, ecosystem health, and human health. Organizing committee chair. Sponsored by the International Society for Ecosystem Health and the Center for Applied Biodiversity Science at Conservation International. Washington, DC, June 6-11, 2002.
15. Ecosummit 2000: Integrating the Sciences. Organizing committee chair. Halifax, Canada, June 19-22, 2000
16. Working group on "The Value of the World's Ecosystem Services: Toward a Dynamic, Integrated Approach". National Center for Ecological Analysis and Synthesis (NCEAS), University of California at Santa Barbara, June 11-15, 2000.
17. Working group on "The Value of the World's Ecosystem Services: Toward a Dynamic, Integrated Approach". National Center for Ecological Analysis and Synthesis (NCEAS), University of California at Santa Barbara, June 1-5, 1999.
18. Fifth Biennial Conference of the International Society for Ecological Economics: "Beyond Growth: Policies and Institutions for Sustainability". Conference Organizing Committee. Santiago, Chile, November 15-19, 1998.
19. Working group on "The Value of the World's Ecosystem Services: Toward a Dynamic, Integrated Approach". National Center for Ecological Analysis and Synthesis (NCEAS), University of California at Santa Barbara, June 1-5, 1998.
20. "The Ecological Economics and Sustainable Governance of the Oceans," Workshop sponsored by the Luso-American Foundation and the Independent World Commission on the Oceans. Lisbon, Portugal July 7-9, 1997.
21. "Ecological Economics: what have we learned?" Symposium at the American Economics Association Annual Meeting. New Orleans, LA Jan. 4-6, 1997.
22. "Ecological Summit 96," Joint meeting of the International Societies of Ecological Economics, Ecological Modelling, Ecological Engineering and Ecosystem Health. International Organizing Committee. Copenhagen, Denmark August 19-23, 1996.
23. "Designing Sustainability: Building Partnerships Between Business, Society, and the Environment," Fourth International Conference of the International Society for Ecological Economics. Conference co-organizer (with Cutler Cleveland). Boston, MA August 4-7, 1996
24. National Center for Ecological Analysis and Synthesis (NCEAS) Workshop on "The Total Value of the World's Ecosystem Services and Natural Capital." Workshop organizer and chair. University of California, Santa Barbara CA June 17-21, 1996.
25. "A Practical Guide to Valuation in Green National Accounting," ISEE/World Bank/MacArthur Foundation Workshop. Workshop co-chair (with J. Dixon). World Bank, Washington, DC March 20-23, 1996.
26. "Ecological Tax Reform," ISEE/MacArthur Foundation Workshop. Workshop chair. College Park, MD March 18-19, 1996.
27. SCOPE/UNEP workshop on "Integrated Adaptive Ecological Economic Modeling and Assessment." Workshop chair. Fazenda Rio Negro, Pantanal, Brazil November 4-7, 1995.
28. "Approaches to the Health of the Ecosystem," session at the NOAA/NMFS/EPA Symposium on The Gulf of Mexico: a Large Marine Ecosystem. Session organizer and co-chair (with David Rapport). St. Petersburg Beach, FL August 23-25, 1995.
29. "Down to Earth: Practical Applications of Ecological Economics," Third International Conference of the International Society for Ecological Economics. International organizing committee with Olman Segura and 7 others. San José, Costa Rica. October 24-28, 1994.
30. "Ecological Economics: Building a new paradigm for sustainability." Symposium at the 45th Annual American Institute of Biological Sciences/Ecological Society of America meeting (co-organized with Robert O'Neill). Knoxville, TN August 7-11, 1994. .
31. "1st. International Symposium on Ecosystem Health and Medicine: Integrating science, policy, and management," conference Co-Chair (with David Rapport). Ottawa Congress Center, Ottawa, Canada June 19-23, 1994.
32. "Ecological Economics and Management Decisions," session at the International Conference: Environmental Management of Enclosed Coastal Seas: EMECS '93. Baltimore, MD November 10-13, 1993.

33. "Ecological Economics: a New Approach," session at EcoWorld: American Society of Mechanical Engineers, Washington DC June 14-19, 1992.
34. "Complex Ecological Economic Systems Modeling," workshop sponsored by the Beijer International Institute for Ecological Economics, Royal Swedish Academy of Sciences, Stockholm, Sweden July 27-29, 1992.
35. "State of the Art of Estuarine Modeling," session at: the Estuarine Coastal Sciences Association/Estuarine Research Federation Joint Conference. Plymouth, England September 13-19, 1992.
36. "Ecosystem Health and Environmental Management," workshop sponsored by Maryland Sea Grant and US EPA. Aspen Wye Conference Center, MD Oct. 28-30, 1990.
37. "Modeling with Large Scale Computers," session at: 40th AIBS Annual Meeting. Toronto, Canada August 6-10, 1989.
38. "The Ecological Economics of Sustainability: Making Local, Short-Term and Global, Long-Term Goals Consistent." 1st meeting of the International Society for Ecological Economics. Main conference organizer. The World Bank, Washington, DC May 21-23, 1990.
39. "Natural Capital and Sustainable Development," session at: The Other Economic Summit. Houston, TX July 6-8, 1990.
40. "Emerging Modeling Techniques for Ecosystems," session at: Ninth Biennial International Estuarine Research Conference. New Orleans, LA October 25-29, 1987.
41. "Spatial Modeling," session at: American Institute of Biological Sciences/ International Society for Ecological Modeling Joint Meeting. Ft. Collins, CO 8/6-8/10, 1984.
42. "Energy Economics," session at: International Conference on Energy and Ecological Modeling. Louisville, KY 4/20-4/23, 1981.

F. Memberships in Professional Societies

[Ecosystem Services Partnership](#) (ESP) co-founder and co-chair of the Executive Committee. 2011-Present.

[Club of Rome](#). Full Member. 2015 – present

[World Economics Association](#) Full Member. 2013 - present

[Society for Human Ecology](#), Full Member. 2015 - present

International Society for Ecological Economics (co-founder, Chairman of the Board 1988-1998, and President, 1988-1998)

Ecological Society of America (Vice-Chair Washington Area chapter, 1989; Chair, Washington Area chapter, 1990, Certified Senior Ecologist, 2001-present)

International Society for Ecological Modeling (Vice President, North American Chapter, 1987-1992)

International Society for Ecosystem Health (co-founder and Vice-President, 1994-2000; President 2000-2001)

American Association for the Advancement of Science

American Institute of Biological Sciences

Estuarine Research Federation

Society for Conservation Biology

American Water Resources Association

Union of Concerned Scientists

G. Other Professional Recognition

1. Editorships

Active

Annual Review of Environment and Resources, Editorial Board, 2021-present

Ecological Economics Book Series, Series co-Editor, 2019-present

The Anthropocene Review, Editor in Chief, 2018 - present

Solutions, Founding Editor in Chief, 2008 – present

Ecological Economics Founding Chief Editor, 1989-2002, Editorial Board, 2002 – present

Ecosystem Services, Associate Editor 2019 – present. Editorial Board, 2012-present

Ecology and Society, Editorial Board, 2002-present

PeerJ, Editorial Board, 2013-present

Environmental Research: Ecology, Executive Editorial Board, 2022-present

Ecological Civilization, Editorial Board, 2022-present

Rethinking Ecology, Editorial Board, 2016-present

Environmental Management. Editorial Board. 2000 – present

Environmental Innovation and Societal Transitions, Editorial Board . 2011 – present

Journal of Resources and Ecology, Editorial Board, 2010 - present

Living Reviews in Landscape Research, Editors-in-Chief, 2006-present

Environmental Economics, Editorial Board, 2010 – present

Previous

Ecological Informatics, Editorial Board 1/2005-9/2021

Ecological Engineering Editorial Board. 3/1991-2017
Ecological Modelling Editorial Board. 1986-2017
Environmental Development, Editorial Board 4/2011 – 4/2014
EcoHealth, Editorial Board. 1/2004 – 1/2013
Journal of Industrial Ecology, Editorial Board. 1996-2016
Ecological Processes, 4/2011 – 2016
Impact Assessment and Project Appraisal (IAPA), 5/2011 - 2016
Regional Environmental Change. Editorial Board 1999-2015
Wetlands Ecology and Management, Editorial Board, 10/2008-2017
Reviews in Ecological Economics, Founding co-Editor (with Karin Limburg and Ida Kubiszewski), 9/2008 - 2012
Global Environmental Change, Editorial Board 1/04-12/06
Environment and Development Economics Advisory Board. 1/95-1/01
Ecosystem Health Editorial Board. 6/94-1/01; Associate Editor 1/01-1/03
Journal of Environmental Conservation. Editorial Board 1/99-1/01
Ecosystems Editorial Board. 12/96-12/98
Ecological Applications, Editorial Board. 4/93-4/96
Trends in Ecology and Evolution, Editorial Advisory Board. 1/92-1/97
 Book Series Editor: *Advances in Ecological Economics*, Edward Elgar Publishers, 6/96-9/02
 Associate Editor. *Encyclopedia of Energy*, Elsevier, Amsterdam, 1/02-4/04

2. Awards and Other Recognition

2023 Distinguished Ecologist Award. Ecosummit Foundation.
 2019 Elected Fellow, Academy of the Social Sciences in Australia (ASSA)
 2019 Appointed Overseas Expert, Chinese Academy of Sciences (CAS)
 2016 Elected Fellow, Royal Society of Arts ([RSA](#))
 2011 Doctor of Philosophy *honoris causa*, Ecole Normale Supérieure de Lyon, Awarded May 31, 2011.
 2011 The (En)Rich List: top 100 inspirational individuals whose contributions enrich paths to sustainable futures (#54).
<http://enrichlist.org/the-list/>
 2010 Il Monito del Giardino (The Warning from the Garden) award. 2010. Fondazione Parchi Monumentali Bardini e Peyron. Florence, Italy.
 2004-present Web of Science [Highly Cited Researcher](#)
 2004-present Certified Senior Ecologist, Ecological Society of America
 2004 University of Vermont Outstanding Service Learning Faculty Award for 2004 (\$500)
 2000 Doctor of Philosophy *honoris causa*, Stockholm University, Faculty of Mathematics and Natural Science, Awarded Sept. 29, 2000.
 1998 Kenneth Boulding Memorial Award for Outstanding Contributions in Ecological Economics, 1998. Awarded by the International Society for Ecological Economics.
 1993 Pew Scholar in Conservation and the Environment, 1993-1996 (\$150,000). Awarded by the Pew Foundation.
 1992 Society for Conservation Biology, 1992 Distinguished Achievement Award
 1988 German Marshall Fund travel award 1988 (\$1,000)
 1985 National Wildlife Federation Outstanding Publication Award for 1985-86 (with C. Cleveland, C. A. S. Hall, and R. Kaufmann, \$2,000)
 1982 Kellogg National Fellowship 1982-85 (\$30,000). Awarded by the Kellogg Foundation

3. Peer Review Activities

a. Proposals Reviewed

American Society of Testing and Materials (1), Austrian NSF (1), NASA (1), National Science Foundation (17), NOAA Sea Grant (5), U.S. Environmental Protection Agency (26), U.S. Fish and Wildlife Service (2), US Man and the Biosphere Program (3), University of British Columbia (1), Wisconsin Sea Grant (1)

b. Articles Reviewed

Agriculture and Human Values (1), Ambio (6), American Economic Review (1), American Naturalist (2), Aquaculture Economics and Management (1), American Journal of Agricultural Economics (1); Behavioral Science (1), Biological Conservation (1), BioScience (10), Coastal Management (2), Conservation Biology (3), Current Anthropology (1), Ecology (4), Ecological Applications (16), Ecological Economics (30), Ecological Engineering (8), Ecological Modelling (57), Ecological Monographs (1), Ecosystems (3), Ecosystem Health (4), Ecosystem Services (8), Energy Systems and Policy (2), Environmental Conservation (4), Environment and Planning B (1), Environmental Management (20), Environmental Science and Technology (1), Frontiers in Ecology and the Environment (1), Global Environmental Change (1); Human Ecology (1), Industrial Ecology (2), Journal of Environmental Management (10), Journal of Planning, Education, and Research (1); Journal of Theoretical Biology (3), Marine Ecology Progress Series (1), Nature (26), Regional Environmental Change (1), Restoration Ecology (1), Science (12), Structural Change and Economic Dynamics (1), Theoretical Population Biology (1), Trends in Ecology and Evolution (2), U.S. Fish and Wildlife Service (2), Wetlands Ecology and Management (1)

c. Books Reviewed

Blackwell (1), Cambridge University Press (1), Columbia University Press (2), Edward Elgar (5), Elsevier (1), Island Press (4), Sierra Books (1), Simon and Schuster (1), Sinauer (1) Wiley (1), Yale University Press (1),

4. Scientific Boards, Committees and Panels:

Integrated History and future Of People on Earth (IHOPE), Future Earth core project. Senior Fellow 1/15-present
Analysis and Integrated Modeling of the Earth System (AIMES) Task Force (AIMES is a core project of IGBP). 11/05 – 11/09.
EPA Science Advisory Board (SAB), Committee on Valuing the Protection of Ecological Systems and Services. 10/03 – 6/09
Global Analysis, Integration and Modeling (GAIM) Task Force (GIAM is a core project of IGBP). 1/03 – 11/05.
Committee for the Assessment of Knowledge Projects under ICES/KIS, Netherlands Academy of Sciences, 2003.
National Academy of Sciences, Committee on Materials Flow Accounting of Natural Resources, Products, and Residuals. 7/02 – 7/03
National Center for Ecological Analysis and Synthesis (NCEAS) Scientific Advisory Board. 3/01 – 3/04.
Scientific Steering Committee and Focus 4 leader, Land-Ocean Interactions in the Coastal Zone (LOICZ) core project of the International Geosphere-Biosphere Programme (IGBP). 1/00 – 12/05
Scientific Committee on Oceanic Research (SCOR) Ocean Futures Planning Committee, 4/00-4/02
NOAA, National Marine Fisheries Service (NMFS) Ecosystem Principles Advisory Panel. 5/97-5/99
Review Committee for the Environmental Assessment Division, Argonne National Lab. 5/99.
National Research Council, Board on Sustainable Development, Committee on Global Change Research. 5/30/95-5/30/98
EPA Science to Achieve Results (STAR) Fellowships for Graduate Environmental Study. Member of review panel in Ecology and Ecosystems. 2/10/98 - 2/13/98
NSF-funded Center for the Study of Institutions, Population and Environmental Change (CIPEC) at Indiana University. Member of External Advisory Committee. 2/96-2/99
US EPA National Advisory Council for Environmental Policy and Technology (NACEPT). 9/94-9/95
National Research Council, Board on Global Change. 1/1/93-12/31/95
US National Committee for the Man and the Biosphere Program. 5/93-12/96
National Research Council, National Academy of Sciences. Panel on Economics of Biodiversity. 3/89
EPA Biotechnology Science Advisory Committee, Subcommittee on Ecoregions. 7/24/90
Chesapeake Research Consortium, Economics Scientific and Technical Advisory Subcommittee, Remote Sensing Workgroup, GIS Workgroup. 8/88-8/93
University of Maryland ad hoc committee on land use, agriculture and natural resources. 11/89-6/90
Maryland Power Plant Topical Research Program's Science Advisory Board. 11/89-11/95
NSF Workshop on Biological Computation. Washington DC 12/13/89-12/15/89
Sierra Club National Economics Committee 3/91-3/95
Coastal Seas Governance Executive Committee. 1/86-1/88
National Association of State Universities and Land Grant Colleges, America's People: an Imperiled Resource, National Urban Policy Issues for a New Federal Administration. 1/87-12/88

5. Governing and Advisory Boards:

Trucost, LLC, Chairman of Advisory Panel, 12/01 – present
Earth Inc. Co-founder and Board Member, 7/06-present
University of Texas, Center for Sustainable Development, Advisory Board, 1/03 – 1/10
BioERA, Inc., Board of Advisors, 1/03 – 1/10
EcoStructure, Inc., Board of Advisors, 6/02 – 1/10
Burlington Environmental and Energy Coordinating Committee, 7/07 – 9/10
Conservation International, Advisory Council, 1/03 – 8/09
Burlington Legacy Project Steering Committee, 1/02 – 9/09
Burlington Currency Project, Board of Directors, 3/04 – 4/07 (Chair, 3/04-12/05)
Earth Council, Policy Advisory Board, Economic Incentives for Sustainable Development, 5/96-5/00
International Society for Ecological Economics, Chair, Board of Directors, 1/89-11/98
Ecological Economics Research and Applications, Chair, Board of Directors, 2/94-2/00
Carrying Capacity Network, National Board of Advisors, 8/90-8/98
Oikos Foundation for Ecological Economics, Siena, Italy, Scientific Advisory Board, 8/90-8/94
Coastal Society, Board of Directors, 4/89 - 4/93

6. Consulting and Expert Witness Activities

The United Nations Environment Program, Chapter for UNEP Global Environmental Outlook 3
The United Nations Compensation Commission, Geneva, Switzerland, 2000. Report on the value of ecosystem services in relation to claims for environmental damages resulting from the Gulf war.
The Gray Law Firm, Lake Charles, LA, 2000. Expert testimony on the value of ecosystem services of coastal wetlands in Louisiana.

U.S. Office of Technology Assessment, 1993-94
 U.S. Fish and Wildlife Service 10/89-10/91.
 Optima Corporation, Arlington, VA, 1990, Environmental evaluation of Interamerican Development Bank loan to Columbia for waste treatment, irrigation and conservation projects.
 Expert Witness, Environmental Economics, Louisiana Environmental Control Commission, 4/83.
 U.S. Environmental Protection Agency, Office of Strategic Assessment. 6/80-6/82.
 Urban Systems Research Institute, Washington, D.C. 3/80-5/80.
 Sverdrup and Parcel and Associates, Inc., Engineers, Gainesville, FL. 1/74-3/74.

V. TEACHING AND TRAINING

A. University College London

Prototyping Planetary Prosperity (BGLP0017) term 2, 2023
 Pathways to Prosperity 3: Reeneration and Ecology (BGLP0016) term 2, 2023

B. Australian National University

Environment and Development in the Anthropocene (EMDV8013), Semester 1, 2019-2021
 Environmental Assessment (EMDV8103) Semester 2, 2017, Semester 1, 2018-2021
 Ecological Economics and Policy (EMDV 8012) Semester 2, 2014, Semester 1 2015-2020
 Research in Climate Change Policy (EMDV8014) Semester 1 2020
 Solutions Focused Workshop (EMDV 8126) Surveying Alternative Future Scenarios for Australia. Semester 1, 2016
 Special Topics in Environmental Management and Development: Measuring Sustainable Human Well-Being (EMDV 8041), Semester 1, 2015
 Crawford School of Public Policy Executive Education Course: Measuring societal wellbeing: insights for policy-makers. April 13, 2015.
 Special Topics in Environmental Management and Development: Scenario Planning and Analysis for Australia (EMDV 8041), Semester 2, 2013-2014

C. Portland State University:

Sustainable Solutions Seminar (ARCH 407/507) 1-2 credits, Fall 2010, Spring 2011, Fall 2011
 Applied Sustainable Solutions: Integrated Watershed Management in the Manawatu basin, New Zealand, 3 credits, Winter, 2012
 Applied Sustainable Solutions: Measuring Well-Being (ESM 404/504) 3 credits, Spring, 2012

D. University of Vermont:

Ecosystem Services and Biodiversity (NR 285) 3 credits, Fall 2002
 Introduction to Ecological Economics (NR285, 378) 3 credits, Spring 2003
 Ecological Economics Seminar (NR199, 185) 1 credit, Spring 2003
 Integrating Engineering, Ecology, Economics and Regional Planning (jointly with Georgia Tech over interactive video) (NR285) 3 credits, Spring 2003
 Seminar in Ecovillage Design (NR285/CDAE295/PSS297) variable credits, Fall 2003
 Alternate Currencies and Community Development (NR285/CDAE295/EC195) 3 credits, Fall 2003
 Relaunching Burlington Bread (NR285/CDAE295) 1 credit, Spring 2004
 Ecological restoration and entrepreneurship (NR285) 4 credits, January 3-16, 2005, Guanacaste, Costa Rica
 Sustainable Tourism in the Northern Forest (NR285C) 3 credits, Spring 2005
 Greening Aiken: redesigning the Aiken building into a high-performance green building (NR285). 3 credits, Spring 2005
 Ecological Economics (NR 385) 3 credits, Fall 2005.
 Energy Return On Investment (EROI) Analysis of Alternative Energy Sources (NR 385) 3 credits, Spring 2006.
 RSENH Honors Seminar (NR199, 185) 1 credit, Spring 2006
 Ecological Economics: Earth Inc. 3 credits, Summer 2006
 Ecological Economics : Coastal Disasters (NR 385) 3 credits, Fall 2006
 Ecological Economics of Watershed Management (NR 385) 3 credits, Spring 2007
 Ecological Economics: Payment for Ecosystem Services (NR385/CDAE 295, 395/PA395), 3 credits, Spring 2007
 Ecological Economics: Overcoming Institutional Roadblocks to Sustainability ((NR385/CDAE 395), 3 credits, Spring 2008
 Ecological Economics: Online course. Fall 2008, Spring 2009, Summer 2009, Fall 2009, Spring 2010, Summer 2010 (<http://metacourses.org/ecologicaleconomics/>)
 Food, Energy, and Quality of Life, course held jointly with Iowa State University at Ames, Iowa, (NR385/CDAE 295), 3 credits, Fall, 2009
 Applied Ecological Economics. (NR385/CDAE 295), 3 credits, Fall, 2009
 Solutions Seminar (NR 385) 1 credit, Spring 2010

Global Environmental Systems and Assessment (ENSC 130), 3 credits, Spring 2010

E. University of Maryland:

Dynamic Modeling of Ecological and Economic Systems (MEES 698S/ZOOL 708U) 3 credits, Fall 1996-2001

Ecosystem Ecology (ZOOL 708T/MEES 698S) 3 credits, Spring 1995, Fall 1997-2000

Fundamentals of Ecological Economics (PUAF 743) 3 credits, Fall 1997 (course faculty participant with 6 others, responsible for 3 of 15 course lectures plus participation in other lectures)

Valuation and Management of Fynbos Ecosystems of the Cape Floristic Region, South Africa. (MEES 698Q. 3 credits, 2 week intensive “atelier” short course held at the University of Cape Town, South Africa, July 17-28, 1995)

Ecosystem Modeling using STELLA (MEES 608G 1-2 credits, principal lecturer, Spring 1989, 1990, Fall 1991)

GEOG 618S: Guest lecture, Fall 1991

Ecological Economics “Atelier” Short Courses (MEES 698V, 1-2 credits: Valuation of Tropical Coastal Ecosystems, and MEES 698W, 1-2 credits: Trade and the Environment, focusing on the US-Mexico free trade agreement, Spring 1992, course organizer and faculty participant)

F. Louisiana State University

“Ecosystem Modeling and Analysis” MRSC 4410, Senior/Graduate level mathematical modeling. LSU, 1981-87.

“Theoretical Concepts of Ecology: Seminar” MRSC 7370, team taught, variable content. LSU, 1984, 1986.

“Landscape Ecology.” LSU, 1985.

“Ecological Modeling and Management.” LSU, 1983.

G. Other Courses and Guest Lectures

Guest Lecture: ENGM059 Ecological Economics, University of Surrey “[What is Ecological Economics: a brief history and why we need it now more than ever.](#)” Guildford, UK, May 9, 2022.

Guest Lecture: PhD program at Nova University Lisbon, “Building a Sustainable Wellbeing Future” Oct. 22, 2021 (on Zoom)

Guest Lecture: ISC Online Summer School on Climate Change, University of Quebec at Montreal, “Overcoming our Societal Addiction to Growth.” June 3, 2021 (on zoom)

Guest Lecture: Human Ecology (ENVS2011), Australian National University, Semester 1, 2014, 2017-2021

Guest Lecture: Unravelling Complexity (VCPG6001), Australian National University, Semester 1, 2016-2020, Semester 2, 2021

Guest Lecture (via recorded video): Energy Conversion Systems (Mechanical Engineering 400). University of Illinois, Champaign-Urbana, IL, July 30, 2020

Webinar (via zoom): [The importance of leadership in the energy transition and sustainable wellbeing futures.](#) Australia-Brazil Alumni Leadership Conference, June, 14, 2020

Guest Lecture: Contemporary perspectives in environment-society linkages (ENVS8016), Australian National University, Semester 2, 2015-2019

½ day Short Course: Introduction to Ecological Economics. University of Costa Rica, San Jose, Costa Rica, Oct 31, 2019.

Webinar: [Valuing and managing marine and coastal ecosystem services.](#) Sustainable Seas National Science Challenge, University of Otago, Dunedin, New Zealand, April 11, 2019

Ecosystems Services Workshop. Environment Southland. Invercargill, New Zealand, April 9, 2019

Systems Thinking Workshop. Environment Southland. Invercargill, New Zealand, April 9, 2019

Guest Lecture: Managing for Sustainability (MGMT7007) Postgraduate MBA, Australian National University, 2019

Co-Convenor. Economics of Land Degradation Training workshop. Nairobi, Kenya. July 9-11, 2018

Co-Convenor. Economics of Land Degradation Training workshop. Kigali, Rwanda. July 16-18, 2018

Co-Convenor. Economics of Land Degradation Training workshop. Addis Ababa, Ethiopia. July 23-25, 2018

Co-Convenor. Economics of Land Degradation Training workshop. Accra, Ghana. April 8-10, 2018

Guest Lecture: Issues in Development and Environment (EMDV8013), Australian National University, Semester 1, 2018

Guest Lecture: Indigenous Cultural and Natural Resource Management (INDG2001/ENVS2025): “Natural Capital and Ecosystem Services.” Australian National University, Feb. 16, 2016.

Guest Lecture: Environmental Accounting Short Course: “Sustainable Development and Environmental Accounting” Australian National University, Dec. 3, 2015.

Guest Lecture: Sustainable Development (ENVS1008): “Building a Sustainable and Desirable Economy-in-Society-in-Nature” Australian National University, Semester 2, Oct. 26, 2015

Guest Lecture: Research Methods (POGO-8096): “Scientific Models, Pre-Analytic Visions, and the Future of the World” Australian National University, Semester 1, Feb. 25, 2015

Guest Lecture: Sustainable Development (ENVS1008): “Building a Sustainable and Desirable Economy-in-Society-in-Nature” Australian National University, Semester 2, Oct. 20, 2014

Lecture: Economics of Land Degradation (ELD) MOOC: Changes in the value of global ecosystem services. Aug. 13, 2014. https://www.youtube.com/watch?v=CHibZadRSaG&list=PLsQcCFzasV6o0G7_d1nQned_wx7JPlIx

Guest Lecture: Contemporary perspectives in environment-society linkages (ENVS8016), Australian National University, Semester 2, July 23, 2014

Guest Lecture: International Water Politics (CRWF8003), Australian National University, Semester 1, May 28, 2014

Guest Lecture: Government, Markets, and Global Change (CRWF8000): "The Environment and Human Well-Being" Australian National University, Semester 1, May 8, 2014

Guest Lecture: Sustainable Development (ENVS1008): "Building a Sustainable and Desirable Economy-in-Society-in-Nature" Australian National University, Semester 2, Oct. 23, 2013

Guest Lecture: Government, Markets, and Global Change (CRWF8000): "Ecosystem Services" Australian National University, Semester 2, Oct. 3, 2013

Guest Lecture: Environmental Economics (IDEC8053): "Ecological Economics" Australian National University, Semester 1, May 29, 2013

Guest Lecture: Dynamics of Ecosystem Services (GEOG 696), Portland State University, Spring 2012. "Integrated Modeling of Natural Capital and Ecosystem Services", April 26, 2012.

Guest Lecture: Trade and Environment (531E). Lewis and Clark Law School: "Sustainable Prosperity Within Planetary Boundaries". March 2, 2011.

Guest Lecture: Environmental Law Advanced Topic Seminar: Deepwater Horizon Blowout (555 SM). Lewis and Clark Law School: "Sustainable Prosperity Within Planetary Boundaries". March 2, 2011.

Guest lecture: Urban Studies and Planning 523, Portland State University: "Sustainable Prosperity Within Planetary Boundaries" Feb. 23, 2011

Guest Lecture in HCOL96: Making ethical choices, personal, public, professional. Lecture titled; "The evolution of ethics: from social traps to social capital". Spring 2005

International course on Ecosystem Health: Expanding the horizons of health: a primer on ecosystem health. University of Western Ontario. Session lecture, session 3 (out of 6) on "economics and ecosystem health". London, Ontario, Canada, June 5-8, 2001.

Guest lectures: "Ecological Modeling" Stockholm University (Monica Hammer, course leader), Stockholm, Sweden, April 20, 22, 1999

Guest lecture: "Ecological Economics" University of Edinburgh (Wendy Kenyon, course leader), Edinburgh Scotland, (via Interactive Video), March 2, 1999.

Guest lectures: "Global Environmental Issues" Luso-American Development Foundation. Lisbon, Portugal, June 29-July 10, 1998.

"Resolving resource conflicts using ecological-economic models: a research and training workshop," sponsored by the University of Zimbabwe and the University of Alberta. Course leader. 30 participants. Gwaii River Hotel, Huange, Zimbabwe, May 19-29, 1997.

Guest lecture: "Frontiers and Strategies in Environmental Research," Department of Environmental Technology and Work Science, Kungl Tekniska Högskolan. Stockholm, Sweden, April 18, 1996.

Guest lecture: Systems Ecology honors course. Department of Systems Ecology, Stockholm University, Feb. 12, 1996. "Dynamic Systems Modeling with STELLA." Course leader. Department of Systems Ecology, Stockholm University. graduate course, 5 points, Fall semester, 1995.

Guest lecture (full day): "Environmental Impact Assessment," AID Staff Strengthening through Environmental Training (ASSET), 11/19/91.

"Ecological Economics of the Baltic Sea Basin," Stockholm, Sweden, Sept. 9-14, 1991.

Guest lecture and field trip (full day): "Environmentally Sound Development Planning," AID Staff Strengthening through Environmental Training (ASSET), 6/6/91.

Guest lecture: "Sustainability: Technology and Public Policy Dimensions," Penn State, Fall 1991.

Guest lecture (full day): "Environmental Policy: Development and Implementation," Environmental Law Institute training program for environmental professionals from developing countries. 10/31/91.

F. Graduate Students Supervised

1. Degrees Conferred:

Chairman/Primary Supervisor:

1. Cutler J. Cleveland, M.S., 1982, Louisiana State University, "An energy based approach to natural resource analysis: theory and application to geopressed gas resources in the U.S. gulf coast region."
2. Scott G. Leibowitz, Ph.D., 1988, Louisiana State University, "The pattern and process of land loss in coastal, Louisiana: a landscape ecological analysis."
3. Tony Lowrey, Ph.D. 1996, University of Maryland, MEES Program, "Contributions to estuarine eutrophication modeling: watershed population estimation methodology, estuarine flushing model, and eutrophication model."
4. Beatriz Castaneda, M.S. 1997, University of Maryland, MEES Program, "An index of sustainable economic welfare (ISEW) for Chile."
5. Ben Haskell, M.S. 1997. University of Maryland, MEES Program. "Seasonal habitat partitioning by recreational and commercial users of the Florida Keys National Marine Sanctuary."
6. Laura L. Cornwell, Ph.D. 1997, University of Maryland, MEES Program, "Policy tools for environmentally sustainable development: environmental bonds and participatory modeling."

7. Lisa Wainger, Ph.D. 1997, University of Maryland, MEES Program, "The effects of land use patterns on ecosystems: development of hydrologic simulation and empirical habitat models for multi-criteria policy analysis."
8. Michael Mageau, Ph.D. 1998. University of Maryland, MEES Program. "Developing and testing a quantitative index of ecosystem health."
9. Monica Grasso, Ph.D. 2001. University of Maryland, MEES Program. "Understanding, modeling and valuing the linkages between local communities and the mangroves of the Caeté River Bay (PA – Brazil)."
10. Pamela Behm. MS. 2002. University of Maryland, MEES Program. "Spatial Modeling of Eelgrass Distribution in Great Bay, New Hampshire."
11. John C. Woodwell, Ph.D. 2002. University of Maryland, MEES Program. "The Role of Natural Capital in Ecological Economic Systems."
12. John Brawley, Ph.D. 2002. University of Maryland, MEES Program. "Dynamic Modeling of Nutrient Inputs and Ecosystem Responses in the Waquoit Bay Estuarine System."
13. R. Taber Hand. Ph.D. 2003. University of Maryland MEES Program. "System structure, natural history, dynamic modeling and adaptive management of the Mekong Watershed's Tonle Sap-Great Lake, Cambodia".
14. Amanda Vermuri, Ph.D. 2004. University of Maryland, MEES Program. "The Contribution of Natural Capital to Quality of Life: A Multi-scale Analysis at the County, Region, and Global Scales."
15. Rosimeiry Portella, Ph.D. 2004. University of Maryland, MEES Program. "Integrated ecological economic modeling of ecosystem services from the Brazilian Amazon rainforest."
16. Trista Maj Patterson. Ph.D. 2005. University of Maryland, MEES Program. "Local vs. global ecological footprints of tourism: a case study from Val di Merse, Italy".
17. Brendan Fisher, Ph.D. 2006, University of Vermont, Rubenstein School of Environment and Natural Resources. "Distribution and development: analyses of global poverty, policy, and sustainability"
18. Daniel Baker, Ph.D. 2007. University of Vermont, Rubenstein School of Environment and Natural Resources. "Transdisciplinary action research and ecological development: a general model with case studies in Honduras and the United States"
19. Shuang Liu, Ph.D. 2007. University of Vermont, Rubenstein School of Environment and Natural Resources. "Valuing ecosystem services: an ecological economic approach."
20. Daniel Lopez Dias, Ph.D. 2010. University of Vermont, Rubenstein School of Environment and Natural Resources. "Accounting for and communicating the environmental externalities of companies: an input-output approach."
21. Stephen M. Posner. MS. 2010. University of Vermont, Rubenstein School of Environment and Natural Resources. "Estimating the Genuine Progress Indicator (GPI) for Baltimore, MD."
22. Michel Masozera, Ph.D. 2010. University of Vermont, Rubenstein School of Environment and Natural Resources. "Ecosystem services and protected areas management in Africa."
23. Ida Kubiszewski, Ph.D. 2010. University of Vermont, Rubenstein School of Environment and Natural Resources. "Searching for the "sweet spot": managing information as a good that improves with use."
24. Nathan John Hagens, Ph.D. 2010. University of Vermont, Rubenstein School of Environment and Natural Resources. "Toward an applied net energy framework."
25. Eric Garza, Ph.D. 2011. University of Vermont, Rubenstein School of Environment and Natural Resources. "Reacting to the peak: multiple criteria and energy return on investment in decision-making."
26. Luz Aida Martinez. Ph.D. 2012. University of Vermont, Rubenstein School of Environment and Natural Resources. "NAFTA beyond economics: its connection with environmental and social issues."
27. Marcello Hernández. Ph.D. 2019. Australian National University, Crawford School of Public Policy. "The treasure of the commons: valuing and managing natural capital in Costa Rica."
28. Mitzi Bolton. Ph.D., 2020. Australian National University, Crawford School of Public Policy. "Factors influencing public sector decisions and the achievement of sustainable development in the State of Victoria, Australia."
29. Javier Montoya Zumaeta. Ph.D. 2021, Australian National University, Crawford School of Public Policy. "Reconciling conservation and development? Impacts of incentive-based forest conservation in Peru."
30. Haojie Chen. Ph.D. 2022. Australian National University, Crawford School of Public Policy. "Using "accounting values" for ecosystem services to assess land use trade-offs associated with protected areas in China."

Committee/Panel Member or Co-Supervisor:

Pichan Sawangwong Ph.D. 1991, UMD, MEES
 Terri Paluszkievicz, Ph.D. 1992, UMD, MEES
 Doran Mason, Ph.D. 1993, UMD, MEES
 Edward Jaenicke, Ph.D. 1997, UMD, AREC
 Philip Lawn, Ph.D. 1998, Griffith University, Queensland, Australia
 Olman Segura Bonnilla, Ph.D. 1999, University of Aalborg, Denmark
 Benoit Bosquet (Ph.D. 2001, UMD, PUAf)
 Steve Walters (Ph.D., UMD, MEES, 2002)

Jon Anderson (Ph.D., UMD, MEES, 2002),
Caroline Hermans (Ph.D. – UVM, RSEN, 2006)
Ken Mulder (Ph.D. – UVM, RSEN, 2006)
Teemu Koskimäki (Ph.D., ANU, 2022)

2. Students Currently Supervised:

Primary Supervisor: Souvidhya Manoz (Ph.D., ANU), J Tianchu Lu (Ph.D., UCL), Nomhle Shantel Shenxane Sandawana (Ph.D., UCL)

Associate Supervisor: Marc Torra (Ph.D., ANU), Sharolyn Anderson (Ph.D., ANU)

VI. SERVICE and OUTREACH

A. Popular Articles, Opinion Pieces, and Blogs (85)

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25. Crawford School of Public Policy research themes video, December 20, 2012, 10 min. <http://crawford.anu.edu.au/events/content/video/?year=2012&id=3101>
26. Workshop on Valuing Adaptation. Invited plenary speaker: "Valuing natural and social capital" Dec. 11, 2012, Monash University, Melbourne, Australia. 30 min. http://www.monash.edu/research/sustainability-institute/events/12-12-11_valuing-adaptation.html
27. University of Queensland, Global Change Institute, Invited seminar: "Ecosystem Services and Sustainable Development" Nov. 19, 2012. Brisbane, Australia. 51 minutes. <http://www.youtube.com/watch?v=QbG4LKaYfY&feature=g-crec-u>
28. Whitlam Institute Symposium: Expanding the economy: perspectives on growth, well-being, and prosperity. Invited opening address: "Redesigning the economy". Sydney, Australia, Oct. 24, 2012. 41 min. <http://www.youtube.com/watch?v=aQvGyzUqUrA>
29. Happiness 2012 conference, Invited plenary talk: "Sustainability & Gross National Happiness" Seattle University, Seattle, WA, August 25, 2012, 20 min. <http://www.youtube.com/watch?v=bvwM8U7fFYE>
30. Rethinking Growth - An Introduction to the CRC 'De-growth' Video Series, by Robert Costanza, June 15, 2012. 10 min. <http://www.youtube.com/watch?v=OGQzAi4hRBA>
31. Stockholm Resilience Center Whiteboard Seminar: "Envisioning a Sustainable Future", May 29, 2012. 7 min. <http://www.stockholmresilience.org/seminarandevents/whiteboardseminars/envisioningasustainablefuture.5.76309165137811e731d4d4.html>
32. Stockholm Resilience Center Whiteboard Seminar: "Beyond GDP", May 29, 2012. 6 min. <http://www.stockholmresilience.org/seminarandevents/whiteboardseminars/beyondgrossdomesticproduct.5.76309165137811e731d4bb.html>
33. The 2012 NatureServe Conservation and Natural Heritage Conference: Biodiversity Without Borders. Invited Keynote Speaker: "Valuing Ecosystem Services and Natural Capital." Portland, OR. April 22-26, 2012, 47 min. <http://vimeo.com/42375176>
34. Interview about EcoSummit 2012, April 12, 2012, 4 min. www.youtube.com/watch?v=qGBrnN0xsZE
35. Video Keynote at Regional De-growth Workshop, Royal Roads University, Montreal, Canada, March 30, 2012, 10 min. http://www.youtube.com/watch?v=h3WLNjL_uJU.
36. Reclaiming Sustainability. Interview with Robert Costanza. Portland State University, Sept. 1, 2011. 2 min: <http://vimeo.com/28836890>
37. Planning Approaches for Water Resources Development in the Lower Mekong Basin. Portland State University, June 21, 2011. 15 min: http://www.youtube.com/watch?feature=player_embedded&v=EWUllz6deqs#/

38. Colloquium on Following Resources Across Disciplinary Boundaries. Invited plenary talk: "Toward a Sustainable and Desirable Future" Ecole Normale Supérieure de Lyon, Lyon, France. May 30, 2011. 55 min:
<http://www.iuf20ans.org/spip.php?article98&contenu=video>
39. Comcast Newsmakers interview at Portland State University, May 3, 2011. 5 min:
<http://www.youtube.com/watch?v=0pjp0gTUZCU>
40. Envisioning Portland State University as the Sustainable University of the Future, Feb. 8, 2011, 10 min.
<http://www.youtube.com/watch?v=1oZuum2Nw9I>
41. GreenAccord interview filmed at the VII International Media Forum on the Protection of Nature, Cuneo, Italy, Oct. 13, 2010, 6 min: <http://www.youtube.com/watch?v=pnK7X6CzQ2E>
42. Flourishing on Earth: Lessons from Ecological Economics, short interview, Yale University, Aug 16, 2010, 9 min:
<http://www.youtube.com/watch?v=d6dKmsox66Y&feature=relmfu>
43. Flourishing on Earth: Lessons from Ecological Economics, full lecture Yale University, June 24, 2010, 1hr, 5min:
<http://www.youtube.com/watch?v=PZkTIVPgqG4&feature=relmfu>
44. Talk at 2010 Sustainability Celebration at Portland State University, May 27, 2010. 8 min:
<http://www.youtube.com/watch?v=KCzqPf--L-4>
45. TEDxUVM talk July 19, 2009, 14 min: <http://www.youtube.com/watch?v=RaAEfERGyO8>
46. Growing the green economy or greening the grown economy? Plenary roundtable at the 10th National Conference on science, policy and the environment. Jan. 21, 2010. 1 hr.: <http://www.youtube.com/watch?v=hejo8oG7nSk>
47. Talk at Wellington, New Zealand's Victoria University invited by the NZ Green Party, March 13, 2009, 55 min:
<http://www.youtube.com/watch?v=dZ0xyQw8cX4>
48. Ecological Economics Frequently Asked Questions (with Josh Farley and Jon Erickson): "What is the dominant world view today?", Gund Institute, University of Vermont, Aug. 4, 2008. 11 min:
<http://www.youtube.com/watch?v=8POahCCXQww>
49. Ecological Economics Frequently Asked Questions (with Josh Farley and Jon Erickson): "What is the value of nature?" Gund Institute, University of Vermont, Aug. 4, 2008. 7 min:
<http://www.youtube.com/watch?v=Iypqm8Lph68>
50. Ecological Economics Frequently Asked Questions (with Josh Farley and Jon Erickson): "How can one value nature?" Gund Institute, University of Vermont, Aug. 6, 2008. 11 min: <http://www.youtube.com/watch?v=Y2Lp1-5vWT0>
51. Ecological Economics Frequently Asked Questions (with Josh Farley and Jon Erickson): "What are some policy tools you've seen that are based on the ecological economic principles?" Gund Institute, University of Vermont, Aug. 6, 2008. 11 min: <http://www.youtube.com/watch?v=9ixsqdtgcDE>
52. Presentation at Antioch University, New Hampshire: "Ecological Economics: creating a sustainable and desirable future" March 28, 2008. 1 hr: <http://www.youtube.com/watch?v=IxgeXHLAwHs>
53. Reintegrating the study of humans and the rest of nature. Gund Seminar Series, University of Vermont. Jan. 23, 2003. 1 hr, 10 min: <http://www.youtube.com/watch?v=qpmFhytwJEA>