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				
2013-Present	Professor and Vice Chancellor's Chair in Public Policy, Crawford School of Public Policy, Australian			
	National University, Canberra, Australia.			
2009-Present:	Senior Research Fellow, Stockholm Resilience Center, Stockholm, Sweden.			
2010-Present:	Affiliate Fellow, Gund Institute of Ecological Economics, Rubenstein School of Environment and			
	Natural Resources, The University of Vermont, Burlington, VT, 05405.			
2013-Present	deTao Master of Ecological Economics, deTao Masters Academy, Shanghai, China.			
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.			
2013-2016	Distinguished Visiting Professor, Lincoln University, Christchurch, New Zealand.			
2010-2012:	Distinguished University Professor of Sustainability, Institute for Sustainable Solutions, Portland State			
	University, Portland OR			
2010-2011:	Director, 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.
2002-2010:	Gordon and Lulie Gund Professor of Ecological Economics and Founding Director, Gund Institute of

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	Ecological Economics, Rubenstein School of Environment and Natural Resources, The University of
	Vermont, Burlington, VT, 05405.
4-2002:	Professor, Department of Biology, University of Maryland at College Park, College Park, MD 20742.

- 1994-2002: Professor, University of Maryland Center for Environmental Science (Chesapeake Biological 1991-2002: Laboratory) Solomons, MD 20688. Founding Director, University of Maryland Institute for Ecological Economics, Center for 1991-2002:
- 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.

Visiting Assistant Professor, Illinois Natural History Survey, University of Illinois, Urbana, IL. 1982:

- 1981-1984: Assistant Professor, Coastal Ecology Laboratory and Dept. of Marine Sciences, Louisiana State University, Baton Rouge, LA.
- Postdoctoral Research Associate, Center for Wetland Resources, Louisiana State University, Baton 1980-1981: 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 (678 total, 600 refereed)

Summary:

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Refereed Journal Articles	283
Books	28
Monographs	11
Special Issues of Journals	18
Refereed Book Chapters and Encyclopedia Entries	200
Book Reviews, Letters, Editorials, & Short Correspondence	<u>60</u>
Subtotal Refereed	600
Conference Proceedings, Non-Refereed Chapters, Reports	28
Technical Reports	<u>50</u>
Total	678

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Web of Science (WoS) citations (all databases) > 42,000; h-index = 76

Named as Highly Cited Researcher, 2001 – 2020

SCOPUS citations > 43,000; h-index = 81

http://www.scopus.com/authid/detail.uri?authorId=7005761060&origin=AuthorEval

<u>Research Gate</u> citations > 80,000, h-index = 107, RG Score = 49.22 https://www.researchgate.net/profile/Robert Costanza

<u>Google Scholar</u> citations > 117,000; h-index = 130, i10 index = 419 https://scholar.google.com.au/citations?user=EO-mkaAAAAJ&hl=en

Ranked #1,237 out of 4,238 highly cited scholars globally with a Google Scholar h-index =>100 http://www.webometrics.info/en/hlargerthan100

1. Refereed Journal Articles (283)

In Press

1. **Costanza, R.**, I. Kubiszewski, N. Stoeckl, and T. Kompas. Pluralistic discounting of different capital contributions: an example estimating the net present value of global ecosystem services. (*Ecological Economics* in press)

Published

2021

Costanza, R., P.W.B. Atkins, M. Hernandez-Blanco, and I. Kubiszewski. 2021. <u>Common Asset Trusts to Effectively Steward Natural Capital and Ecosystem Services at Multiple Scales</u>. *Journal of Environmental Management*. 280:111801

<u>2020</u>

- 3. Costanza, R. Science, Belief, and Democracy. 2020, Solutions 11(4).
- 4. 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
- 5. Kibria, ASMG, A. Behie, **R. Costanza**, T. Farrell, and C. Groves <u>Potentials of community-based-ecotourism to improve human wellbeing in Cambodia: an application of millennium ecosystem assessment framework.</u> 2020. *International Journal of Sustainable Development and World Ecology*. DOI: 10.1080/13504509.2020.1855606

- 6. Mulder, O., K. Mulder, I. Kubiszewski, S. Anderson, **R. Costanza**, and P. Sutton. 2020. <u>The value of coastal wetlands for storm protection in Australia</u>. *Ecosystem Services* 46:101205
- 7. **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. <u>After the crisis: two possible futures</u>, *Solutions* 11(3):112-117.
- 8. Kubiszewski, I., N. Zakariyya, **R. Costanza**, and D. Jarvis. <u>Resilience of Self-Reported Life Satisfaction: A case study of who conforms to set-point theory in Australia</u>. *PLoS ONE*. 15(8): e0237161
- 9. Hernández-Blanco, M., **R. Costanza**, S. Anderson, I. Kubiszewski, and P. Sutton 2020.. <u>Future scenarios for the value of Ecosystem Services in Latin America and the Caribbean to 2050</u>. *Current Research in Environmental Sustainability* 2:100008
- 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. <u>Understanding the Pathways from Biodiversity to Agro-Ecological Outcomes: A New, Interactive Approach</u>. *Agriculture, Ecosystems and Environment* 301:107053.
- 11. Palahí, M., M. Pantsar, R. Costanza, I. Kubiszewski, J. Potočnik, M. Stuchtey, R. Nasi, H. Lovins, E. Giovannini, L. Fioramonti, S. Dixson-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. <u>Investing in Nature to Transform the Post COVID-19 Economy: A 10-point Action Plan to create a circular bioeconomy devoted to sustainable wellbeing</u>. *Solutions* 11(2).
- 12. Costanza, R. 2020. COVID-19 and the transition to a sustainable wellbeing economy. Solutions 11(2).
- 13. Verkerk, P.J., **R. Costanza**, L. Hetemäki, I. Kubiszewski, P. Leskinen, M. Palahí, G.J. Nabuurs, and J. Potočnik. 2020. Climate-Smart Forestry: the missing link. *Forest Policy and Economics* 115:102164.
- 14. **Costanza, R**. 2020. <u>Valuing natural capital and ecosystem services toward the goals of efficiency, fairness, and sustainability</u>. *Ecosystem Services*.43:101096.
- 15. **Costanza, R.**. 2020. <u>Ecological Economics in 2049: Getting Beyond the Argument Culture To The World We All Want.</u> *Ecological Economics* 168:106482.
- 16. **Costanza, R**. 2020. Happy new year 2030. Solutions 11(1):88-89.

- 17. 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.
- 18. Liu, X., Y. Wang, **R. Costanza**, I Kubiszewski, N. Xu, Z. Gao, M. Yuan, R. Geng, H. Chen, and X. Hu. 2019. <u>Rice paddy fields' hidden value for typhoon protection in coastal areas</u>. *Ecological Indicators*. 107:105610.
- 19. **Costanza, R.** 2019. <u>Science, uncertainty, and society: getting beyond the argument culture to shared visions.</u> *Ecology, Economy and Society the INSEE journal*. 2:9-20.
- Sangha, K. K., N. Stoeckl, N. Crossman, and R. Costanza. 2019. <u>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.
 </u>
- 21. Sangha, K. K., J. Russell-Smith, and **R. Costanza**. 2019. <u>Mainstreaming Indigenous and local communities'</u> connections with nature for policy decision-making. *Global Ecology and Conservation* 19:e00668.
- 22. Kibria ASMG, **R. Costanza**, and A. Behie. <u>Does higher access ensure greater wellbeing? In the perspective of forest ecosystem services of the Sundarbans mangrove forest, Bangladesh</u>. 2019 *Ocean and Coastal Management* 177:22-30
- 23. Liu, X., Y. Wang, **R. Costanza**, I. Kubiszewski, M. Yuan, and L. Feng. 2019. <u>The value of China's coastal wetlands and seawalls for storm protection</u>. *Ecosystem Services* 36:100905
- 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. <u>A public opinion survey of four future scenarios for Australia in 2050</u>. *Futures*. 107:119-132
- 25. Kenny, D.C., **R. Costanza**, T. Dowsley, N. Jackson, J. Josol, I. Kubiszewski, H. Narulla, S. Sese, A. Sutanto, & J. Thompson. 2019. <u>Australia's Genuine Progress Indicator Revisited (1962-2013)</u> *Ecological Economics* 158:1-10
- 26. Liu, X. Y.Wang, **R. Costanza**, I. Kubiszewski, N. Xue, Z. Gao, M. Liu, R. Geng, and M. Yuand. 2019. <u>Is China's coastal engineered defences valuable for storm protection? *Science of the Total Environment*. 657:103–107.</u>

- 27. Chou, S., **R. Costanza**, P. Earis, K. Hubacek, B. Li, Y. Lu, R. Span, H. Wang, J. Wu, Y. Wu, and J. Yan. 2018. <u>Priority Areas at the Frontiers of Ecology and Energy</u>. *Ecosystem Health and Sustainability* 4:243-246, DOI: 10.1080/20964129.2018.1538665
- 28. Chambers, I., J. Russell-Smith, **R. Costanza**, J. Cribb, S. Kerins, M. George, G. James, H. Pederson, P. Lane, P. Christopherson, J. Ansell, and K. Sangha. 2018. <u>Australia's north, Australia's future: A vision and strategies focused on sustainable economic, ecological and social prosperity for northern Australia.</u> *Asia and the Pacific Policy Studies*. 5:615–640.

- 29. Kubiszewski, I., N. Zakariyya, and **R. Costanza**. 2018. <u>Objective and subjective indicators of life satisfaction in Australia: How well do people perceive what supports a good life? *Ecological Economics* 154:361–372</u>
- 30. Xu, X., J. Bo, Y. Tan, **R. Costanza**, and G. Yang. 2018. <u>Lake-Wetland Ecosystem Services Modeling and Valuation:</u>
 Progress, Gaps and Future Directions. *Ecosystem Services* 33:19–28
- 31. Wei, F., **R. Costanza**, Q. Dai, N. Stoeckl, X. Gu, S. Farber, Y. Nie, I. Kubiszewski, Y. Hu, R. Swaisgood, X. Yang, M. Bruford, Y. Chen, A. Voinov, D. Qi, M. Owen, L. Yan, D.C. Kenny, Z. Zhang, R. Hou, S. Jiang, H. Liu, X. Zhan, L. Zhang, B. Yang, L. Zhao, X. Zheng, W. Zhou, Y. Wen, H. Gao, and W. Zhang. 2018. <a href="https://doi.org/10.1007/jhei.com/
- 32. Sandhu, H., B. Clarke, R. Baring, S. Anderson, C. Fisk, S. Dittmann, S. Walker, P. Sutton, I. Kubiszewski, and R. Costanza. 2018 <u>Scenario planning including ecosystem services for a coastal region in South Australia</u>. *Ecosystem Services* 31:194–207.
- 33. Kibria A.S.M.G., **R. Costanza**, C. Groves, and A. Behie. 2018. <u>The interactions between livelihood capitals and access of local communities to the provisioning services of the Sundarbans Mangrove Forest, Bangladesh</u>. *Ecosystem Services*. 32:41–49.
- 34. **Costanza, R.**, E. Caniglia, L. Fioramonti, I. Kubiszewski, L. Henry, H. Lovins, J. McGlade, L. F. Mortensen, D. Philipsen, K. Pickett, K. V. Ragnarsdóttir, D. Roberts, P. Sutton, K. Trebeck, S. Wallis, J. Ward, M. Weatherhead, and R. Wilkinson. 2018. Toward a Sustainable Wellbeing Economy, *Solutions*, Volume 9, Issue 2, April 2018.
- 35. Intralawan al, I., D. Wood a, R. Frankel, R. Costanza, and I. Kubiszewski. 2018. <u>Tradeoff analysis between electricity generation and ecosystem services in the Lower Mekong Basin</u>. *Ecosystem Services* 30:27-35.
- 36. Webb, R., X. Bai, M. Stafford-Smith, **R. Costanza**, D. Griggs, M. Moglia, M. Neuman, P. Newman, P. Newton, B. Norman, C. Ryan, H. Schandl, W. Steffen, N. Tapper, and G. Thomson. 2018. <u>Sustainable urban systems: Co-design and framing for transformation</u>. *Ambio*. 47:57-77 DOI 10.1007/s13280-017-0934-6

- **37. Costanza, R.,** R. de Groot, L. Braat, I. Kubiszewski, L. Fioramonti, P. Sutton, S. Farber, and M. Grasso. 2017. <u>Twenty years of ecosystem services: how far have we come and how far do we still need to go?</u> *Ecosystem Services*. 28:1-16.
- **38.** Kubisewski, I., C. Marais, and **R. Costanza.** 2017. <u>Investing in ecological infrastructure in South Africa</u>. *Ecosystem Services*. 27:A1-A2
- Anthony, K., L. K. Bay, R. Costanza, J. Firn, J. Gunn, P. Harrison, A. Heyward, P. Lundgren, D. Mead, T. Moore, P. J. Mumby, M. J. H. van Oppen, J. Robertson, M. C. Runge, D. J. Suggett, B. Schaffelke, D. Wachenfeld, and T. Walshe. 2017. New Interventions Are Needed to Save Coral Reefs. Nature Ecology and Evolution. 1:1420-1422.
- 40. Kubiszewski, I., **R. Costanza**, S. Anderson, and P. Sutton. 2017. <u>The Future Value of Ecosystem Services: Global Scenarios and National Implications</u>. *Ecosystem Services*. 26:289-301
- 41. Costanza, R., P. Atkins, M, Bolton, S. Cork, N Grigg, T. Kasser, and I. Kubiszewski. 2017. Societal Addiction Therapy: From Motivational Interviewing to Community Engaged Scenario Planning. Current Opinion in Environmental Sustainability. 26:47-53
- 42. Verma, M., D. Negandhi, C. Khanna, A. Edgaonkar, A. David, G. Kadekodi, **R. Costanza**, R. Gopal, B. S. Bonal, S. P. Yadav, and S. Kumar. 2017. <u>Making the hidden visible: Economic valuation of tiger reserves in India</u>. *Ecosystem Services*. 26:236-244.
- 43. Kibria, Abu S.M.G., A. Behie, **R. Costanza**, C. Groves, and T. Farrell. 2017. <u>The value of ecosystem services obtained from the protected forest of Cambodia: The case of Veun Sai-Siem Pang National Park</u>. *Ecosystem Services*. 26:27–36
- 44. Sangha, K. K., J. Russell-Smith, S. C. Morrison, **R. Costanza**, and A. Edwards. 2017. <u>Challenges for valuing ecosystem services from an Indigenous estate in northern Australia</u>. *Ecosystem Services*. 25:167–178
- 45. Phelan, A., L. Dawes, **R. Costanza**, and I. Kubiszewski. 2017. <u>Evaluation of social externalities in regional communities affected by coal seam gas projects: A case study from Southeast Queensland.</u> *Ecological Economics*. 131:300-311
- 46. **Costanza, R.**, P. Atkins, M, Bolton, S. Cork, N Grigg, T. Kasser, and I. Kubiszewski. 2017. Overcoming Societal Addictions: What Can We Learn From Individual Therapies? *Ecological Economics*. 131:543–550

- 47. Ward, J., P. Sutton, A. Werner, **R. Costanza**, S. Mohr, and C. Simmons. 2016. <u>Is Decoupling GDP Growth from Environmental Impact Possible?</u> *PLOSOne*. 11(10): e0164733.
- 48. Costanza, R., L. Daly, L. Fioramonti, E. Giovannini, I. Kubiszewski, L. F. Mortensen, K. Pickett, K. V. Ragnarsdóttir, R. de Vogli, and R. Wilkinson. 2016. Modelling and measuring sustainable wellbeing in connection with the UN Sustainable Development Goals. Ecological Economics. 130:350–355.
- 49. Kubiszewski, I., S. Anderson, **R. Costanza**, and P. Sutton. 2016. <u>The future of ecosystem services in Asia and the Pacific</u>. *Asia and the Pacific Policy Studies*. 3:389–404.
- 50. Sutton, P., S. Anderson, **R. Costanza**, and I. Kubiszewski. 2016. <u>The Ecological Economics of Land Degradation: impacts on ecosystem service values</u>. *Ecological Econom*ics. 129:182-192.
- 51. Sandhu, H., S. Wratten, J. R. Porter, **R. Costanza**, J. Pretty, and J. P. Reganold. 2016. <u>Mainstreaming Ecosystem Services into Future Farming</u>. *Solutions*. 7(2):40-47.

- 52. **Costanza, R.**, L. Daly, L. Fioramonti, E. Giovannini, I. Kubiszewski, L. F. Mortensen, K. Pickett, K. V. Ragnarsdóttir, R. de Vogli, and R. Wilkinson. 2016. <u>The UN Sustainable Development Goals and the Dynamics of Well-being</u>. *Solutions* 7(1):20-22.
- 53. **Costanza, R.**, R. Howarth, I. Kubiszewski, S. Liu, C. Ma, G. Plumecocq, and D. Stern. 2016. <u>Influential Publications in Ecological Economics Revisited</u>. *Ecological Economics*. 123:68-76.
- 54. Ye, S., E. A. Laws, **R. Costanza**, and H. Brix. 2016. <u>Ecosystem Service Value for the Common Reed Wetlands in the Liaohe Delta, Northeast China</u>. *Open Journal of Ecology*. 6:129-137.
- 55. Turner, K. G., S. Anderson, M. G. Chang, **R. Costanza**, S. Courville, T. Dalgaard, E. Dominati, I. Kubiszewski, S. Ogilvy, L. Porfirio, N. Ratna, H. Sandhu, P. C. Sutton, J-C. Svenning, G. M. Turner, Y-D. Varennes, A. Voinov, and S. Wratten. 2016. <u>A review of methods, data, and models to assess changes in the value of ecosystem services for land degradation and restoration</u>. *Ecological Modelling* 319:190–207.

- 56. Russell-Smith, J., D. Lindenmayer, I. Kubiszewski, P. Green, **R. Costanza**, A. Campbell. 2015. Moving beyond evidence-free environmental policy. Frontiers in Ecology and the Environment 13:441–448.
- 57. Costanza, R. 2015. Who bears the burden of fracking? Solutions 6(4):19-21.
- Kubiszewski, I., R. Costanza, N. E. Gorko, M. A. Weisdorf, A. W. Carnes, C. E. Collins, C. Franco, L. R. Gehres, J. M. Knobloch, G. E. Matson, and J. D. Schoepfer. 2015. <u>Estimates of the Genuine Progress Indicator (GPI) for Oregon from 1960-2010 and Recommendations for a Comprehensive Shareholder's Report.</u> <u>Ecological Economics</u> 119:1-7.
- 59. Sangha, K. K., A. Le Brocque, **R. Costanza**, and Y. Cadet-James. 2015. <u>Ecosystems and indigenous well-being: An integrated framework</u>. *Global Ecology and Conservation*. 4:197-206.
- 60. Costanza, R. 2015. Claim the sky! Solutions 6(1):18-21.
- 61. Naeem, S., J.C. Ingram, A. Varga, T. Agardy, P. Barten, G. Bennett, E. Bloomgarden, L. Bremer, P. Burkill, M. Cattau, C. Ching, M. Colby, D.C. Cook, **R. Costanza**, F. DeClerck, C. Freund, T. Gartner, R. Goldman-Benner, J. Gunderson, D. Jarrett, A.P. Kinzig, A. Kiss, A. Koontz, P. Kumar, J.R Laskey, M. Masozera, D. Meyers, F. Milano, L. Naughton-Treves, E. Nichols, L. Olander, P. Olmsted, E. Perge, C. Perrings, S. Polasky, J. Potent, C. Prager, F. Quétier, K. Redford, K. Saterson, G. Thoumi, M.T. Vargas, S. Vickerman, W. Weisser, D. Wilkie, S. Wunder. 2015. Get the Science Right when Paying for Nature's Services. Science. 347:1206-1207.
- 62. Farley, J., **R. Costanza**, G. Flomenhoft, and D. Kirk. 2015. <u>The Vermont Common Assets Trust: an Institution for Sustainable, Just and Efficient Resource Allocation</u>. *Ecological Economics* 109:71-79.
- 63. **Costanza, R.**, I. Kubiszewski, S. Cork, P.W.B. Atkins, A. Bean, A. Diamond, N. Grigg, E. Korb, J. Logg-Scarvell, R. Navis, and K. Patrick. 2015. <u>Scenarios for Australia in 2050: A synthesis and proposed survey</u>. *Journal of Future Studies*. 19:49-76.
- 64. Sandhu, H., S. Wratten, **R. Costanza**, J. Pretty, J. R. Porter, and J. Reganold. 2015. <u>Significance and value of non-traded ecosystem services on farmland</u>. *PeerJ e762*.

- 65. Costanza. R., K. Chichakly, V. Dale, S. Farber, D. Finnigan, K. Grigg, S. Heckbert, I. Kubiszewski, H. Lee, S. Liu, P. Magnuszewski, S. Maynard, N. McDonald, R. Mills, S. Ogilvy, P. L. Pert, J. Renz, L. Wainger, M. Young, and C. R. Ziegler. 2014. Simulation games that integrate research, entertainment, and learning around ecosystem services. Ecosystem Services. 10:195-201.
- 66. Heckbert, S., **R. Costanza**, and L. Parrott. 2014. <u>Achieving sustainable societies: Lessons from modelling the ancient Maya</u>. *Solutions* 5(5):55-64.
- 67. Stoeckl, N., M. Farr, S, Larson, V. Adams, I. Kubiszewski, M. Esparon, and **R. Costanza**. 2014. <u>A new approach to the problem of overlapping values: a case study in Australia's Great Barrier Reef</u>. *Ecosystem Services*. 10:61-68.
- 68. **Costanza**, **R.**, J. McGlade, H. Lovins, and I. Kubiszewski. 2014. <u>An Overarching Goal for the UN Sustainable Development Goals</u>. *Solutions* 5(4):13-16.
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C. Contracts and Grants (AU\$ and US\$)

Active: 3 project as principal or co-principal investigator:

Completed: 56 projects as principal or co-principal investigator:

AU\$ 2,538,092

US\$ 1,714,927

US\$ 24,747,861

Total AU\$ 39,164,926

US\$ 26,462,788

1. Active (3)

- 1. ARC Linkage Project, LP190101060: Integrated Farm Modelling to Improve Resilience and Sustainable Prosperity (AU\$ 1,659,757 (US\$ 1,120,927)), Lead CI, 0.3 FTE, 1/2021-12/2023.
- 2. Centre for Anthropocene Biodiversity, Leverhume Trust. (£173,000 (US\$ 210,000) to ANU). 5/2019 2029
- 3. Economics of Land Degradation (ELD) Initiative. Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH. AU\$ 540,000 (US\$ 384,000) 1/2014 present.

2. Completed (56)

- 1. Solutions Journal and research. DeTao Group, Hong Kong, China. 1/7/2015-30/12/2017. \$707.861.
- 2. Participatory Dynamic Systems Modelling of an Agricultural System. Mulloon Institute, Australia.. AU\$25,000 (~US \$19,000). 03/16-03/17
- Organizing agriculture systems workshop. National Australian Bank (NAB).. AU \$40,909.09 (~US \$38,000). 09/14-10/15.
- 4. Keck Futures Initiative Award. Interactive games to value ecosystem services, \$75,000 6/12-6/14.
- 5. National Socio-Environmental Synthesis Center (SESYNC). Workshop on Interactive games to value ecosystem services, \$25,000 1/12-6/14.
- 6. Special issue of *Solutions* on Resilience, USEPA \$20,000. 1/13-1/14.
- 2012. Support for 5th annual Ecosystem Services Partnership conference, Portland OR, USEPA, USGS, USDA Forest Service, UNEP, \$45,000.
- 8. 2009-2012. Solutions Journal start-up. Lewis Foundation. \$575,000.
- 9. 2011-2012. Special issue of Solutions on Ecosystem Services, USEPA and USGS \$60,000.
- 10. 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
- 11. 2011. Cascadia Ecosystem Services Partnership. Bullitt Foundation, \$40,000.
- 12. 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.
- 13. 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.
- 14. 2006-2008. Ecosystem Services: Dynamics, Modeling and Valuation to Facilitate Conservation. Gordon and Betty Moore Foundation. Principal Investigator, \$813,005. 16.6% time
- 15. 2005-2008. Ecological Economics: Integrative Graduate Education and Research Project. USAID/Mexico TIES program. Principal Investigator. \$490,692, 8.3% time.

- 16. 2006-2007. Payment for Ecosystem Services (PES): An International Atelier Workshop. Blue Moon Fund. Principal Investigator. \$108,874, 8% time
- 17. 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
- 18. 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
- 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.
- 20. 2002-2005. Designing a New Model for Sustainable Ecological Tourism in the Northern Forest Region: an Atelier Course, Northeastern States Research Cooperative. \$57,000, .
- 21. 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.
- 22. 2003-2004. Earth Shareholder's Report. Gund Foundation, \$30,000,
- 23. 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
- 24. 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).
- 25. 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.)
- 26. 1993-2002. Developing Ecological Economics at the Maryland International Institute for Ecological Economics. Ford Foundation. \$1,100,000. Principal Investigator.
- 27. 1995-1999. Integrated Ecological Economic Modeling and Valuation of Watersheds. NSF/EPA. \$1,000,000. Principal Investigator (with 10 additional participants). 15% time.
- 28. 1998-1999. Integration of Process-Based & Agent Based Modeling Paradigms. US Army. Principle Investigator (with Tom Maxwell). \$25,508
- 1993-1999. Fellowships and Ecological Economics Certificate Program. MacArthur Foundation. \$600,000. Principal Investigator.
- 30. 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.
- 31. 1994-1997. Multiscale Modeling of Coastal Landscape Dynamics. NOAA, Estuarine Habitat Program, \$315,782. J. C. Stevenson and **R. Costanza**, Co-Principal Investigators.
- 32. 1996-1997. Distributed Modular Spatial Ecosystem Modeling. NSF, \$219,000. Co-Principal Investigator (with Tom Maxwell).
- 33. 1993-1996. Pew Scholarship in Conservation and the Environment. Pew Charitable Trusts. \$150,000. Recipient
- 34. 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.
- 35. 1991-1996. Modeling Landscape Dynamics in the Everglades Basin. Cooperative Agreement with the South Florida Water Management District, \$455,501. Principal Investigator.
- 36. 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).
- 37. 1992-1994. Ecological Landscape Models for Evaluating the Interactive Dynamics of the Patuxent River Watershed and Estuary. Maryland DNR, \$80,000, Principal Investigator.
- 38. 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.
- 39. 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.
- 40. 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).
- 41. 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.
- 42. 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).
- 43. 1988. A Solomon's Forum on Sediment Control in the Chesapeake Bay Watershed. \$10,050. Principal Investigator. 4.15% time.
- 44. 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).

- 45. 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).
- 46. 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).
- 47. 1984-1985. The Value of Terrebonne Parish Wetlands. Louisiana Universities Marine Consortium, \$20,000. Co-Principal Investigator (with S. Farber, LSU Economics Dept.).
- 48. 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.).
- 49. 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.
- 50. 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).
- 51. 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.
- 52. 1981-1982. Improved Energy Analysis Methodology and Applications to Louisiana Energy Resources. LSU Mining and Mineral Resources Research Institute, \$9,000. Principal Investigator.
- 53. 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).
- 54. 1980-1982. Energy Analysis Tools for Incorporating Environmental Analysis Findings in Federal Decision Making. Co-Principal Investigator (with M. J. Lavine, Cornell).
- 55. 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).
- 56. 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 (762)

2020

- 1. 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)
- 2. 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).
- 3. International Conference on Marine Science (ICMarin). Invited plenary speaker: "Valuing and Managing Marine and Coastal Ecosystem Services". Bogota, Columbia Sept. 29, 2020 (via Zoom).
- 4. 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)
- 5. The Transparency Project. Invited speaker: "The True Cost of Production and Consumption". University of South Australia, Adelaide, Australia, Feb. 21, 2008.
- 6. Transforming the PhD workshop. Invited speaker: "Valuation of Natural and Social Capital" University of South Australia, Adelaide, Australia, Feb. 18, 2008
- 7. Sustainable Prosperity Conference. Invited plenary speaker: "The Importance of Natural Capital and Ecosystem Services". University of Adelaide, Adelaide, Australia, Jan 13, 2020

- 8. 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.
- 9. Invited lecture. "Ecological Economics in an Ecological Civilization." Guizhou Education University. Guizhou, China. Nov. 23, 2019
- 10. Ecological Economics and Ecological Civilization International Forum. Invited keynote speaker: "Ecological Economics in an Ecological Civilization." Peking University, Beijing, China, Nov. 15, 2019.
- 11. Invited seminar, University of Mantanzas: "Natural Capital and Ecosystem Services Valuation and Management" Mantanzas, Cuba, Nov. 4, 2019
- 12. Invited public semimar in celebration of the 40th Anniversary of the Centro de Investigacion en Ciencis del Mar y Limnologia (CIMAR): "Natural Capital Valuation and Management." University of Costa Rica, San Jose, Costa Rica, Oct 31, 2019.
- 13. 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
- 14. 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.

- 15. Nature of Wonders (NOW) congress. Invited plenary speaker: "Creating a sustainable and desirable future". Delphi, Greece. Oct. 12, 2019
- 16. Designing for a Wellbeing Economy. Invited speaker: "Designing and measuring a wellbeing economy" Mentally Friendly, Canberra, Australia
- 17. New Economy for the 21st Century Conference. Invited speaker: "Overcoming our societal addiction to growth", University of Iceland, Reykjavik, Iceland. Aug. 27, 2019.
- 18. Invited seminar, Environmental Protection NGO Jing, "Creating an Ecological Civilization" Beijing, China, Aug. 4, 2019
- 19. Invited seminar, Center for Environmental Data Analysis & Application, Chinese Academy for Environmental Planning: "Ecosystem Services Valuation and PES" Beijing, China, Aug. 2, 2019
- Invited seminar, Institute of Geochemistry, Chinese Academy of Sciences: "Creating an Ecological Civilization" Guiyang, China, July 31, 2019
- 21. University of Queensland Global Change Institute, Global Change Scholars Program. Invited seminar: "Creating a Sustainable and Desirable Future." Brisbane, Australia, May 27, 2019
- 22. Sustainable Seas webinar. Centre for Sustainability, University of Otago. "Valuing and managing marine and coastal ecosystem services" Dunedin, New Zealand. April 11, 2019.
- 23. Public talk, St. David's theatre. "Treating our societal addiction to growth" Dunedin, New Zealand. April 10, 2019
- 24. Public talk, Southern Institute of Technology, "Treating our societal addiction to growth" Invercargill, New Zealand. April 9, 2019

- 25. 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.
- 26. 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.
- 27. 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
- Florida Gulf Coast University, . Invited Lecture: "The Value of Wetlands: Past, Present, and Future." Naples, FL. Dec. 3, 2018
- 29. Territory Natural Resource Management 2018 Annual Conference. Invited plenary speaker: "Ecosystem Services Valuation." Darwin, Australia. Nov. 14, 2018
- 30. Club of Rome 50th Anniversary Conference. Invited plenary speaker: "What Economics Does a Full World Need?" Rome, Italy. Oct. 17-18, 2018
- 31. 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
- 32. University of Queensland Global Change Institute, Global Change Scholars Program. Invited seminar: "Creating a Sustainable and Desirable Future." Aug. 30, 2018
- 33. 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.
- 34. 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.
- 35. Economic values of the Northern Territory marine and coastal environments. Invited speaker. Darwin, Australia, June 7, 2018
- 36. Invited keynote speaker, Too Tokoi (Mountian Forest) Forum. Bishkek, Kygryzstan, April 13, 2018
- 37. Invited seminar. "Creating the future we want." American University of Central Asia. Bishkek, Kygryzstan, April 12, 2018
- 38. Invited speaker. Northern Territory Ecosystems: What are they worth? Darwin, Australia, March 14, 2018
- 39. Invited lecture. University of Iceland: "Treating our societal addiction to growth." Reykjavik, Iceland, Feb. 22, 2018

- 40. 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
- 41. Opportunities and Challenges of Sustainable Forest Bioeconomy. Invited plenary: "The Circular Bioeconomy and Grand Societal Challenges." Wanha Satama, Helsinki, Finland, Dec. 13, 2017
- 42. 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.
- 43. 9th Ecosystem Services Partnership (ESP) World Conference: Ecosystem Services for EcoCivilization. Opening welcoming plenary address. Shenzhen, China, Dec. 11, 2017.

- 44. Hainan University. Invited seminar: "Ecosystem Services and Sustainable Ecotourism". Haikou, China, Dec. 6, 2017.
- 45. 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
- 46. 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
- 47. 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
- 48. 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
- 49. Festival of New Economic Thinking. Invited Panel speaker: "Alliance for Sustainable Prosperity". Edinburgh, Scotland, Oct 19, 2017
- 50. Centro Internacional de Política Económica para el Desarrollo Sostenible (CINPE). Invited seminar: "The Value of Wetland" San José, Costa Rica, Oct. 13, 2017.
- 51. 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
- 52. 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
- 53. Building a New Economy for Australia. Invited plenary speaker: "The Reforms Needed to Build an Ecological Economy." Brisbane, Australia, Sept 1-3, 2017.
- 54. Creating a Sustainable and Desirable Future (in the pub). Smith's Alternative, Canberra, Australia, July 26, 2017.
- 55. 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
- 56. Social-Ecological Resilience of Freshwater Systems in the Anthropocene. Invited plenary speaker: "Modeling Resilience, Health, and Transformation." Nanjing, China, July 8-10, 2017.
- 57. 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.
- 58. 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
- 59. Australian Agricltural & Resource Economics Society (AARES) invited seminar: "Payment for Ecosystem Services and Common Asset Trusts" Canberra, Australia, June 20, 2017.
- 60. 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
- 61. 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
- 62. ANU Climate Change Institute. Invited speaker: Climate Café: Can Societal Addiction Therapy transform our approach to climate change? Canberra, Australia, May 29, 2017
- 63. ANU/NAB/ELD workshop on Solutions for Sustaining Natural Capital. Synthesis of the workshop. Canberra, Australia, May 25-27, 2017
- 64. 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
- 65. 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
- 66. 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
- 67. <u>Australia New Zealand Society for Ecological Economics (ANZSEE) biannual conference</u>. Invited speaker: "What is Ecological Economics". University of South Australia, Adelaide, Australia, Jan. 9-13, 2017.

- 68. <u>A Community on Ecosystem Services (ACES)</u> conference: Implementation Advances and Challenges. Invited plenary panel speaker: "Implementation advances and challenges", Jacksonville, FL, USA. Dec. 5-9, 2016.
- 69. 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.

- 70. <u>International Conference on Water Security and Climate Change: Challenges and Opportunities in Asia.</u> Invited plenary keynote speaker: "Water and Ecosystem Services". Asian Institute of Technology, Bangkok, Thailand, Nov. 29 Dec. 1, 2016.
- 71. 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
- 72. 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.
- 73. 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.
- 74. 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.
- 75. After Fossil Fuels: The Next Economy, Invited plenary speaker: "Capitalism vs. Ecological Economics," Oberlin College, Oct. 6-8, 2016.
- 76. 10th INTECOL International Wetlands Conference: Hotspots of biodiversitiy and ecosytems services under global change. Invited keynote speaker: "The value of wetlands". Changshu, China, Sept 20, 2016.
- 77. 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
- 78. 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
- 79. 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
- 80. 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
- 81. 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
- 82. 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
- 83. II Internacional Symposium of Ecology: Ecology in the Anthropocene. Invited keynote speaker: "The Global Value of Ecosystem Services: Past, Present, and Alternative Futures." Sao Carlos, Brazil, Aug. 17, 2016.
- 84. 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
- 85. 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.
- 86. Victoria University of Wellington. Invited lecture: "Natural capital and ecosystem services" Wellington, New Zealand, July 27, 2016.
- 87. 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
- 88. 2016 EcoForum Global Annual Conference. Invited participant, CCTV panel on building an ecological civilization. Guiyang, China. July 9, 2016
- 89. ANU Asia Pacific Week: Challenging growth: what kind of growth does Asia-Pacific need this century?. Invited panalist. Canberra, Australia, June 27, 2016
- 90. 6th National NRM Knowledge Conference: People, Planet and Profits. Invited Keyinote speaker: "Environment driving social and economic outcomes." Coffs Harbor, Australia, June 7, 2016. http://www.conference.nrmregionsaustralia.com.au/program.php
- 91. 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.espconference.org/asia2016/wiki/164167/keynotes#.V00b6ZN95E4
- 92. Seoul National University. Invited Seminar: "The value of coastal ecosystem services" Seoul, South Korea, May 26, 2016
- 93. CSIRO Land and Water Group and Team Leaders Meeting. Invited plenary talk: "Creating the future we want". Melbourne, Australia, May 25, 2016
- 94. Future Earth Australia Workshop. Invited plenary speaker: "Building a sustainable and desirable economy-in-society-in-nature." Canberra, Australia, April 28-29, 2016
- 95. Australian Government, Department of Employment. Invited seminar: "Beyond GDP: Measuring and enhancing sustainable wellbeing" Canberra, Australia, March 31, 2016

- 96. 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
- 97. University of Indonesia, Invited Seminar: "The Global and National Values of Ecosystem Services: Past, Present, and Alternative Futures." Jakarta, Indonesia, Feb. 29, 2016.
- 98. Mini-Symposium: Systems and sustainabity in time and space. Inivted 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.
- 99. Scenario Planning Workshop: Barker Inlet and Port River Estuary. Invited plenary speaker: "Scenario Planning". Feb 8-11, 2016.
- 100. 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.
- 101. 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

- 102. Earth System Governance Conference. Invited session speaker: "Overcoming Societal Addictions: What Can We Learn From Individual Therapies?" Canberra, Australia, Dec. 14, 2015
- 103.8th Annual Ecosystem Services Partnership (ESP) Conference. Opening welcoming address. Stellenbosch, South Africa, Nov. 9-13, 2015.
- 104.8th 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.
- 105. 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
- 106.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
- 107. Economia e Sostenibilitá. Invited lecture: "The need for an ecological economy." Milan, Italy, Oct 15, 2015
- 108.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.
- 109. 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.
- 110. Massey University. Invited seminar: "Investing in Natural Capital and Getting Returns through Ecosystem Services." Palmerston North, New Zealand, Oct. 6, 2015.
- 111. Strategizing for Investment in Natural Capital and Getting Returns. Invited speaker. Willeston Conference Centre, Wellington, New Zealand. Oct. 5, 2015.
- 112. 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.
- 113.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
- 114. Sustianble 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
- 115. University of York. York Environmental Sustainability Institute (YESI). Invited lecture: "Creating the future we want." York, UK. August 28, 2015
- 116. <u>Best Festival Ever</u> at the Street Theatre in Canberra. Invited post-show presentation on complex systems science. Canberra, Australia, August 22, 2015
- 117. 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
- 118. Agribusiness Today: Mixed Farming Systems of the Future Forum. Invited plenary talk "Natural Capital and the Future of Farming" Forbes, Australia, August 13, 2015.
- 119. Australian Marine Sciences Association annual conference. Invited plenary talk: "Valuing marine and coastal ecosystem services' Geelong, Australia, July 9, 2015.
- 120. 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/C10243/0bb6c444fa4d3ddfef9be2ad0a4e5c44
- 121. 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
- 122.PARSA (Postgraduate And Research Students Association) Knowledge Conerence. Invited plenary speaker: "A New Development Paradigm for the Anthropocene" Canberra, Australia, May 5, 2015

- 123.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.
- 124. University of Cambridge Programme for Sustainability Leadership. Invited speaker: "Measuring and Creating Sustainable Human Well-Being. Werribee Park, Australia, March 2, 2015
- 125.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
- 126. Chulalongkorn University. Invited seminar: "Beyond GDP: Building a Sustainable and Desireable Future" Bangkok, Thailand, Feb. 5, 2015
- 127. Economics of Land Degredation (ELD) workshop: Invited presentation: "Data and Methodology Working Group Overview" Bangkok, Thailand, Feb. 2, 2015.
- 128. 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.

- 129. Gund Institute for Ecological Economics. Invited seminar: "Progress Toward Creating Ecological Economies: A Multi-hemispheric Survey". Burlington, VT. Dec. 18, 2014.
- 130.2nd 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).
- 131.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.
- 132.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
- 133. Associacion Argentina de Ecologia Annual Congress. Invited plenary speaker: "Ecosystem Services Science". Comodoro Rivadavia, Argentina, Nov. 4, 2014 (via interactive video)
- 134.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)
- 135.ANU Human Ecology Forum: Trasforming Culture. Invited seminar: "A theory of socio-ecological system change." Canberra, Australia, Oct 17, 2014. http://hec-forum.anu.edu.au/index.php
- 136. Australia's Sustainability in Business Conference and Exhibition. Invited semi-plenary talk: "The state of natural capital valuation." Melbourne, Australia, Oct. 15, 2014
- 137.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%20Costanz a.mp3
- 138. Ecological Society of Australia Annual Conference. Invited opening keynote speaker: "Ecosystem Services Science" Alice Springs, Australia, 28 Sept. 2014
- 139. Great Green Debate 2014. Invited speaker and panelist. ANU. Canberra, Australia, 24 Sept. 2014.
- 140.17th International RiverSymposium. Invited keynote speaker: "Challenges and opportunities for engaging the business community around Natural Capital". Canberra, Australia, 17 Sept. 2014
- 141.7th International Conference of the Ecosystem Services Partnership (ESP): Lobal action for the common good. Invited keynote speaker: "Changes in the global value of ecosystem services" San José, Costa Rica, 8-12 Sept. 2014.
- 142. James Cook University. Invited public lecture: "Creating a Sustainable and Desirable Future" Cairns, Australia, 28 August, 2014
- 143. Center for Tropical Environmental and Sustainability Science (TEES), invited seminar: "Ecosystem Services Science" Cairns, Australia, 27 August 2014.
- 144. 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.
- 145.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,
- 146. 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
- 147. 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
- 148. 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.
- 149. Environment Canterbury. Invited seminar. "Valuing Natural Capital and Ecosystem Services" April 23, 2014. Christchurch, New Zealand.
- 150. Food and Environmental Security: Australia's Contribution. Invited plenary speaker: "Geographically appropriate integrated agriculture" April 17, 2014, Canberra, Australia

- 151. Australian Fabians. Invited seminar: "Why Sustainability Matters: Rethinking Growth and GDP" April 7, 2014. Canberra, Australia
- 152.Indian Institute of Forest Management and National Tiger Conservation Authority workshop on Economic Valuation of Tiger Reserves in India. Invitied plenary speaker: "Valuing the ecosystem services of tiger reserves." March 24, 2014, New Delhi, India (via interactive video).
- 153. Murray-Darling Basin Authority. Invited seminar: "Valuing our ecosystems" March 19, 2014. Canberra, Australia.
- 154. Victorian National Parks Association. Invited seminar: "Valuing a natural Westernport bay. March 4, 2014, Melbourne, Australia
- 155.Net Balance. Invited seminar: "Natural capital and human well-being" March 3, 2014. Melbourne, Australia
- 156. Chinese Research Academy of Environmental Sciences (CRAES). Invited talk: "Natural resources valuation" March 1, Beijing, China.
- 157. Peking University, College of Engineering. Invitied talk: "Solutions for a sustainable and desirable future" Beijing, China, Feb. 28, 2014.
- 158.deTao Masters Academy. Invited talk: "Opening the Institute of Green Investment" Feb. 25, Shanghai, China
- 159. Sustainable Population Australia. Invited talk: "Creating a sustainable and desirable future" Feb. 22, 2014, Canberra, Australia.
- 160. 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 Finish Ministry of the Environment. Invited panelist. Feb. 6th. 2014. UN Headquarters, New York, NY.

- 161. 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.ese-valuation.org/index.php/ese-unit/44-vantage-conference/82-vantage-conference
- 162. Uppsala University. Invited seminar (via skype): "Ecological Economics as a Framework for Sustainability" Nov. 20, 2013.
- 163. 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.
- 164. 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/
- 165.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
- 166.Hebrew University. Invited seminar: "Sustainability Economics and Valuing Ecosystem Services" Jeresulem, Israel, Nov. 4, 2013
- 167. Milken Institute. Invited seminar: "Solutions for a sustainable and desirable future." Jeresulem, Israel, Nov. 4, 2013
- 168. Tel Aviv University, Porter School of Environmental Studies. Invited seminar: "Solutions for a sustainable and desirable future." Tel Aviv, Israel, Nov. 1, 2013.
- 169. Nanyang Technological University, Complexity Program. Invited seminar: "Solutions for a sustainable and desirable future." Singapore, Oct. 28, 2013.
- 170.Lincoln Univiersity invited lecture: "Ecosystem Services and Sustainable Human Well-Being". Lincoln, New Zealand, Oct 17, 2013
- 171. Auckland Conversations: invited speaker "Auckland's Natural Advantage" Auckland, New Zealand, Oct. 16, 2013.
- 172. Changing Currents: Water New Zealand's Annual Conference and Expo. Invited Keynote speaker: "Valuing our ecosystems." Hamilton, New Zealand, Oct. 16, 2013
- 173.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
- 174.16th International River Symposium: Rivers: Water-Energy-Food. Invited Keynote speaker: "Ecosystem Services of Rivers and Watersheds". Brisbane, Australia, Sept 24, 2013
- 175. Sustainable Engineering Society. SEng 2013 Conference. Invited Keynote speaker: "Solutions for a sustainable and desirable future" Canberra, Australia, Sept. 19, 2013
- 176.15th National Conference on Volunteering. Invited Keynote speaker: "Building a sustainable and desirable economy" Adelaide, Australia, Sept. 5, 2013. http://www.volunteeringconf2013.org.au/speakers/
- 177.6th Annual Ecosystem Services Partnership (ESP) Conference. Making Ecosystem Services Count. Opening address. Bali, Indonesia, Aug. 26-30, 2013
- 178.6th 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
- 179. Canberra Urban and Regional Futures (CURF), Centenary Seminary Series, Invited lecture: "Solutions for a Sustainable and Desirable Future." Canberra, Australia, August 14, 2013

- 180. 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
- 181. Australia in the Anthropocene: Warnings and Options. Invited plenary speaker: "Measuring sustainable human wellbeing." Sydney, Australia, May 13-15, 2013.
- 182. 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
- 183.Invited lecture to local government officials: "Ecosystem Services and Sustainable Human Well-Being" Baotou, China, May 4, 2013.
- 184. Etopia. Invited workshop. Vivement 2050! Building a Sustainable and Desirable Economy-in-Society-in-Nature. April 29, 2013, Brussels, Belgium.
- 185. Conseil Régional Ile-de-France. Invited lecture: Vivement 2050! Building a Sustainable and Desirable Economy-in-Society-in-Nature. April 29, 2013, Paris, France.
- 186. Dauphine University. Invited lecture: Vivement 2050! Building a Sustainable and Desirable Economy-in-Society-in-Nature, April 26, 2013, Paris, France.
- 187.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.
- 188.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
- 189.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/
- 190.IV Congreso Mexicano de Ecologia. Inivited plenary speaker: "Ecosystem Services and Sustainable Human Well-Being". March 22, 2013. Villahermosa, Mexico. http://www.ujat.mx/interioradentro.aspx?NODO=16&ID=18012
- 191.IV Congreso Mexicano de Ecologia. Inivited speaker in symposium Haciendo real la sustentabilidad, talk titled: "Solutions for a Sustainable and Desirable Future". March 21, 2013. Villahermosa, Mexico.
- 192.IV Congreso Mexicano de Ecologia. Inivited special session speaker and coordinator: Problemas ambientales y soluciones ecológicas para México. March 20, 2013. Villahermosa, Mexico.
- 193.IV Congreso Mexicano de Ecologia. Inivited speaker: Scientific Café. March 19, 2013. Villahermosa, Mexico.
- 194.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.
- 195. Georgetown University Center for the Environment. Invited seminar: "Solutions for a sustainable and desirable future". Jan 16, 2013. Washington, DC
- 196. 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.
- 197. Resilience and Sustainability: a transdisciplinary symposium. Sponsored by USEPA. Invited plenary speaker: "Systems thinking and sustainability" Jan. 14, 2013, Washington, DC.

- 198. Workshop on Valuing Adaptation. Invited plenary speaker: "Valuing natural and social capital" Dec. 11, 2012, Monash University, Melbourne, Australia.
- 199. Kirkham Conference: Exploring Frontiers in Soil Physics. Invited plenary speaker: "Soil Ecosystem Services" Nov. 28-30, 2012, Massey University, Palmerston North, New Zealand.
- 200. Australian Bureau of Statistics. Invited seminar: "Measuring Sustainable Human Well-Being" Nov. 23, 2012, Belconnen, Australia.
- 201.SEQ Catchments Ecosystem Services Project Think Tank 5. Invited speaker: "Mainstreaming ecosystem services in decision making for sustainable development" Nov. 20, 2012. Brisbane, Australia
- 202. University of Queensland, Global Change Institute, Invited seminar: "Ecosystem Services and Sustainable Development" Nov. 19, 2012. Brisbane, Australia
- 203. SEQ Catchments Staff Workshop. Invited speaker: "Ecosystem Services" Nov. 16, 2012. Brisbane, Australia
- 204. 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
- 205. Beijing Normal University. Invited Seminar: "Solutions for a harmonious future". Beijing, China. Nov. 1, 2012
- 206.Bejing Agriculural Univeristy. Invited Seminar: "Solutions for a sustainable and desirable future". Beijing, China, Oct. 29, 2012
- 207. Chinese Ecological Society Wetlands Conference. Invited Plenary Speaker: "Wetland ecosystem services", Beijing, China, Oct. 28, 2012
- 208. Whitlam Institute Symposium: Expanding the economy: perspectives on growth, well-being, and prosperity. Invited opening address: "Redesigning the economy". Sydney, Australia, Oct. 24, 2012.
- 209.4th 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

- 210.4th 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
- 211.4th International EcoSummit: Ecological Sustainability: Restoring the Planet's Ecosystem Services. Invited symposium talk: "Challenges in Ecosystem Services Science" Columbus, OH, Oct. 4, 2012
- 212.4th International EcoSummit: Ecological Sustainability: Restoring the Planet's Ecosystem Services. Invited symposium talk: "Ecosystem Services in Urban Contexts" Columbus, OH, Oct. 1, 2012
- 213. 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
- 214. 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
- 215. EcoServe and City of Posnan. Invited public lecture: "Solutions for a Sustainable and Desirable Future". Posnan, Poland, Sept 25, 2012
- 216. 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". Posnan, Poland, Sept 24, 2012
- 217. 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
- 218.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.
- 219.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.
- 220. 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
- 221.97th 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
- 222.97th 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
- 223.5th 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.espconference.org)
- 224. International Society for Ecological Economics (ISEE) annual meeting. Invited closing panel moderator and discussant. Rio de Janeiro, Brazil, June 18, 2012.
- 225.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
- 226. Ecotrust Seminar: "Measuring Sustainable Human Well-Being" Portland, OR, June 6, 2012.
- 227. Deep Democracy Institute International. Climate Forum. Invited Panel Discussant. Portland, OR, June 3, 2012.
- 228. Stockholm Resilience Center (SRC), Stockholm Seminar: "Solutions for a Sustainable and Desirable Future," Stockholm, Sweden, May 29, 2012
- 229. University of Southampton, Institute for Life Sciences invited seminar: "Solutions for a Sustainable and Desirable Future" Southampton, UK, May 24, 2012
- 230. 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
- 231.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
- 232. 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
- 233. 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

- 234. 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.
- 235. Hanse-Wissenschaftskolleg Institute for Advanced Study. Invited lecture: "Solutions for a Sustainable and Desirable Future." Delmenhorst, Germany, Feb. 20, 2012
- 236.Linacre Lectures 2012. Invited lecture at Linacre College, Oxford University, titled: "Solutions for a Sustainable and Desirable Future" Oxford, England, Feb. 16, 2012
- 237. 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.

- 238.21st 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
- 239.21st 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
- 240. Cascadia Green Building Council Transformational Lecture Series. Invited lecture: "Flourishing on a biophysically limited planet: toward an ecological economics" Seattle, WA, Nov 2, 2011
- 241. 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
- 242. Haceta Head Coastal Conference. Invited keynote speaker: "Managing the oceans and coasts: linking research, policy, and new institutions". Florence, OR, Oct. 28, 2011
- 243.2011 Net Impact Conference. Invited panel presenter: "Ecosystem services: measuring the value of natural systems". Portland, OR Oct. 27, 2011.
- 244.2011 Net Impact Conference. Invited featured panel presenter: "Our financial footprint: transforming the economic system through finance". Portland, OR Oct. 27, 2011.
- 245. James Cook University. Invited Seminar: "Solutions for a Sustainable and Desirable Future", Oct. 19, 2011, Townsville, Australia.
- 246.4th 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.
- 247. Advancing Sustainable Solutions. Invited plenary speaker: "Sustainable Solutions" Sept 23, 2011, Lund, Sweden (via interactive video).
- 248.In 100 Years starting now. Invited speaker: "Advancing sustainable societies" Sept. 21, 2011, Copenhagen, Denmark (via interactive video).
- 249. 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
- 250.8th 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.
- 251.US State Department, Invited seminar: "Planning Approaches for Water Resources Development in the Lower Mekong Basin" Washington, DC. July18, 2011
- 252. Stimson Center. Invited seminar: "Planning Approaches for Water Resources Development in the Lower Mekong Basin" Washington, DC. July18, 2011
- 253. Workshop on Payment for Ecosystem Services. Invited plenary speaker: Valuing Natural Capital and Ecosystem Services, Santo Domingo, Dominican Republic. July 13, 2011
- 254. 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
- 255. World Universities Network (WUN) workshop on Adapting to Climate Change: Ecosystem Services, Complexity and People. Invited plenary speaker (via interactive video). University of Southhampton, Winchester, UK. July 7, 2011.
- 256.Intel Trendspotting Summit, Invited speaker: "Computing Contributions to Sustainable Solutions" Intel Labs, Hillsboro, OR. June 22, 2011
- 257. 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.
- 258. 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/
- 259. University of Antwerp invited seminar: "Toward a Sustainable and Desirable Future", Antwerp, Belgium May 26, 2011
- 260.VITO invited Seminar: "Toward Sustainable Solutions". Mol, Belgium May 26, 2011
- 261. Ecosystem Services and Poverty Alleviation (ESPA) workshop on Ecosystem Service Valuation. Invited speaker: "Valuing Ecosystem Services", Imperial College, London May 24, 2011

- 262. 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
- 263.EPA Western Ecology Lab. Invited seminar: "Solutions for a sustainable and desirable future". Corvallis, OR, April 14, 2011.
- 264.PSU Colloquium on Social Sustainability. Invited panel speaker. Portland State University, April 8, 2011
- 265.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
- 266. Washington State University at Vancouver. Science Programs' Seminar Series, Invited speaker: "Solutions for a Sustainable and Desirable Future." Vancouver, WA. April 4th, 2011
- 267. 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
- 268. Department of Engineering and Technology Management, Portland State University, invited seminar: "Sustainable Prosperity within Planetary Boundaries". Portland, OR. Feb. 15, 2011
- 269.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.

- 270. 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
- 271. 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
- 272. 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.
- 273. The EcoDistricts Summit. Invited Roundtable moderator: "How does thinking at the district scale drive innovation?" Portland State University, Portland OR. Oct. 25, 2010
- 274. 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
- 275. Portland State University Systems Science Seminar Series. Invited speaker: "Understanding, modeling, and valuing ecosystem services." Portland, OR, Oct. 21, 2010
- 276.Oregon Department of Environmental Quality. Invited presentation: "Using Ecosystem Services for Improved Environmental Management". Portland, OR, Oct. 20, 2010
- 277. 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
- 278.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
- 279.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
- 280.TEDxUVM: Leading and Managing for Sustainability. Invited talk: "Creating a Sustainable and Desirable Future", University of Vermont, Burlington, VT. July 19, 2010.
- 281. Solutions for Sustaining Natural Capital and Ecosystem Services. International Conference and Workshop. Salzau 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.
- 282. Gross National Happiness USA conference. Invited plenary speaker: "Progress Indicators". Champlain College, Burlington, VT. June 1-3, 2010
- 283. Society for Restoration Ecology, Restoration Institute. Invited Keynote Speaker: "The Value of a Restored Earth" Victoria, BC, Canada. May 28, 2010
- 284.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.
- 285. University of Iowa, The Ida Cordelia Beam Distinguished Visiting Professorships Lecture: "Creating a sustainable and desirable future" Iowa City, Iowa, April 29, 2010
- 286. University of Iowa. Geography Department Invited seminar: "Modeling and Valuing Ecosystem Services", Iowa City, Iowa, April 28, 2010
- 287. 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

- 288. 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=PZkTlVPgqG4
- 289.Office of the Parliamentary Commissioner for Future Generations. Invited speaker: Creating a sustainable and desirable future". Budapest, Hungary, March 19, 2010.
- 290. The Regional Environmental Center for Central and Eastern Europe. Invited speaker: "Ecosystem Services in Climate Change Mitigation and Adaptation." Szentendre, Hungary, March 19, 2010.
- 291. 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.
- 292. 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.
- 293. 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.
- 294. 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.
- 295. 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
- 296.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

- 297. Ecological Engineering: from Concepts to Applications (EECA). Invited plenary speaker: "Ecosystem Health and Ecological Engineering". Paris, France, Dec. 2-4, 2009
- 298. 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
- 299.Brown bag seminar. eThekwini Municipality (Durban) Development Planning, Environment and Management Unit. "Ecosystem services and human well-being" Nov. 25, 2009, Durban, South Africa.
- 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/)
- 300. 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/)
- 301.U.S. Embassy in Vienna and BOKU University, invited talk: "Creating a Sustainable and Desirable Future" Vienna, Austria, Nov. 9, 2009.
- 302. 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.
- 303.Invited seminar, James Cook University. "Ecosystem services and human well-being: creating a sustainable and desirable future" Townsville, Australia, Oct. 12, 2009
- 304.16th 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.
- 305.6th 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
- 306. 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
- 307. University of Iceland invited Seminar: "The Global Recession as an Opportunity o Create a Sustainable and Desirable Future" Reykjavik, Iceland, August 26, 2009
- 308.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
- 309.2009 Convocation Keynote Speaker. St. Cloud State University. "Toward a ustainable well-being economy" St. Cloud MN, August 19, 2009.
- 310. Charles Darwin Foundation, Galapagos Science Symposium 2009. Invited plenary speaker: "The needs for and limits of economic valuation of biodiversity onservation" Puerto Ayora, Santa Cruz, Galapagos, Ecuador, July 20-24, 2009.

- 311.anctuaries and the Economy Congressional Briefing. NOAA National Marine anctuary Program. Invited speaker: "Toward a new sustainable economy". US Capitol, Washington, DC. June 8th 2009.
- 312. 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.
- 313. 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.
- 314. 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.
- 315. Modeling Ecosystem Services. Invited plenary speaker "Understanding, Modeling nd Valuing Ecosystem Services" Lecce, Italy, May 26-30, 2009.
- 316.Getting to 350: Building strategies for 21st century aspirations. Invited wrap-up discussion moderator: Middlebury College, Middlebury, VT May 2-3, 2009
- 317. Fairfield University. Earth Day invited speaker: "The global recession as an opportunity to create a sustainable and desirable future" Fairfield CT, April 23, 2009.
- 318.ociety 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.
- 319. Creating a Green Economy in Vermont: Avoiding 20th Century Responses to 21st Century Problems. Earth week 2009. Kickoff panel with audience participation. nvited panelist. University of Vermont, Burlington, VT, April 20, 2009
- 320.Boston University, Department of Geography. Invited seminar speaker: "The lobal recession as an opportunity to create a sustainable and desirable future" Cambridge, MA April 8, 2009.
- 321.MIT Environmental Policy and Planning Group "Green Edge" lecture series. nvited speaker: "The global recession as an opportunity to create a sustainable nd desirable future" Cambridge, MA April 7, 2009.
- 322. World Futures Council meeting on the future of finance. Invited presentation: Toward a new sustainable economy. Cairo, Egypt, March 29, 2009
- 323. 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
- 324. The Global Recession: an opportunity to create a sustainable and desirable uture. Special seminar at Lincoln University, Lincoln, New Zealand, March 16, 2009
- 325. The Global Recession: an opportunity to create a sustainable and desirable uture. Special seminar sponsored by Jeanette Fitzsimons, MP and co-leader of he New Zealand Green Party. Wellington, New Zealand, March 13, 2009 http://blog.greens.org.nz/index.php?p=3762)
- 326.Modeling and Valuing Ecosystem Services. Invited seminar, New Zealand Center or Ecological Economics, Massey University and Landcare Research. Palmerston North, New Zealand, March 6, 2009
- 327.5th EGU Alexander von Humboldt International Conference. Iphakade: Climate Changes and African Earth Systems past, present and future. Invited plenary peaker: "Climate change and ecosystem services" Cape Town, South Africa, anuary 14, 2009 (via interactive video).

- 328. Florida Fish and Wildlife Research Institute. Invited seminar speaker: "Ecological Economics and Sustainable Management" December 10, 2008.
- 329.A Conference on Ecosystem Services. Plenary panel speaker: "Future Research Directions in Ecosystem Services" Naples, Fl, December 9, 2008
- 330. University of Miami, Rosenstiel School of Marine and Atmospheric Sciences. nvited seminar speaker: "Ecological Economics and Sustainable Management" December 8, 2008.
- 331.Florida Institute of Technology. Invited seminar: "Ecological economics and ustainable management" Melbourne, FL, December 5, 2008
- 332. University of Florida Water Institute. Invited speaker, Smallwood UF Water nstitute Distinguished Scholar Seminar Series. "Understanding, modeling and valuing ecosystem services" Gainesville, FL, December 4, 2008
- 333.16th Annual Public Lands Acquisition and Management Partnership Conference. nvited session speaker: session on: Valuing Ecosystem Services on Public Lands. Talk titled: "Understanding, modeling and valuing ecosystem services" acksonville, FL, December 4, 2008
- 334.16th Annual Public Lands Acquisition and Management Partnership Conference. nvited Keynote speaker: "Paying for themselves: proving the worth of onservation lands with ecosystem services values" Jacksonville, FL, December 4, 2008
- 335.4th Annual Connecticut Forest Conservation and Research Forum: Public Benefits of Forests: What are they worth? Invited Plenary speaker: "Estimating nd Quantifying Forest Ecosystem Services." University of Connecticut, Storrs, CN, November 24, 2008 (via interactive video)

- 336. Green Mountain College. Invited speaker: "The Twin Crises of the Economy and he Environment and the Need for an Ecological Economics" Poultney, VT Nov. 17, 2008
- 337. 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.
- 338.2008 ISEE User Conference, "Making Connections". Invited Breakout session leader: "Applications of STELLA in Integrated Modeling". Burlington, VT, Oct. 9-10 2008
- 339.John Pesek Colloquium on Sustainable Agriculture. Invited Speaker: "Ecological Economics: Creating a Sustainable and Desirable Future. Iowa State University, Ames, Iowa, Sept. 11, 2008
- 340. 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.
- 341. 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.
- 342.Oak Ridge National Lab. Invited seminar speaker. "Understanding, modeling and valuing ecosystem services" Oak Ridge TN, August 15, 2008
- 343.EPA Ecosystem Services Science Workshop. Invited plenary speaker "Understanding, modeling and valuing ecosystem services" Portland, OR, August 12-14, 2008.
- 344. 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.
- 345. 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)
- 346. Society of Wetland Scientists 2008 Annual Meeting. Invited plenary speaker: "New directions for valuing wetlands" Washington, DC, May 27-29, 2008
- 347. Ecosystem Services: Solution for a problem or a problem that needs solutions? Invited keynote plenary speaker: "Understanding, modeling, and valuing ecosystem services" Salzau Castle, Germany, May 13-15, 2008.
- 348. University of Cape Town. Invited seminar: "An Integrated History and future of People on Earth" Cape Town, South Africa, May 9, 2008.
- 349. 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
- 350. 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
- 351. Université du Québec à Rimouski, invited seminar: "Ecological Economics: Creating a Sustainable and Desirable Future". Rimouski, Quebec, Canada, April 7, 2008.
- 352. Antioch College of New England, invited seminar: "Ecological Economics: Creating a Sustainable and Desirable Future" Keene, NH, March 28, 2008.
- 353.18th 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.
- 354. 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.
- 355.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.
- 356.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.
- 357.2008 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/videos/video.asp?ID=5010803
- 358. 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.

- 359. 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.
- 360. 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.
- 361.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.

- 362. University of East Anglia, CSERGE Invited Seminar: "What is the economy and what is it for?" Norwich, UK, Nov15, 2007.
- 363.Oxford University Centre for the Environment, Environmental Change Institute. Invited Seminar: "What is the economy and what is it for?" Oxford, UK, Nov13, 2007
- 364. 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
- 365. 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.
- 366.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
- 367. 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
- 368.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.
- 369. Italian Societyof Ecology, Annual Meeting, Invited plenary speaker: Toward an Integrated, Transdisciplinary Science of Humans-in-Nature". Ancona, Italy, Sept. 17-20, 2007
- 370. Ecosystem Services: Dynamics, Modeling, and Valuation at Multiple Scales. Invited seminar. Washington State Department of Ecology. Olympia, WA, July 27, 2007
- 371. Puget Sound's Ecosystem Services: Dynamics, Modeling, and Valuation at Multiple Scales. Invited seminar Seattle BioTech Legacy Foundation. Seattle, WA, July 26, 2007
- 372. 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.
- 373. 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.
- 374. 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.
- 375.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.
- 376.Peking University, College of Environmental Sciences. Invited seminar: "Toward an Integrated, Transdisciplinary Science of Humans-in-Nature" Beijing, China, May 26, 2007
- 377. EcoSummit 2007: Ecological Complexity and Sustainability. Invited Symposium speaker: "Ecosystem Services: Dynamics, Modeling, and Valuation at Multiple Scales" Beijing, China, May 22-26, 2007.
- 378.EcoSummit 2007: Ecological Complexity and Sustainability. Invited Symposium speaker: "Ecosystem Services and Biodiversity in Agricultural Landscapes" Beijing, China, May 22-26, 2007.
- 379. 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.
- 380.International Forum on Innovation for Sustainable Development. Invited speaker: "Toward an ecological economy" Tongji University, Shanghai, China, May 18-20, 2007
- 381.Greater Burlington Industrial Corporation (GBIC) and Lake Champlain Chamber of Commerce, Government Affairs Committee. Invited speaker: "Ecological Economics" Burlington, VT. April 4, 2007
- 382.Payments for Ecosystem Services: from local to global. Invited plenary speaker. "What are ecosystem services" Heredia, Costa Rica, March 8-9, 2007
- 383. Sustainable Business Conference: Money Talks. Invited plenary speaker. "Ecological Economics" Concordia University, Montreal, Canada. March 2, 2007
- 384.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
- 385. Invited Seminar, Lehigh University Environmental Initiative: "Ecological Economics: Creating a Sustainable and Desirable Future." Bethelem PA, January 26, 2007.

- 386.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
- 387.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

- 388. 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
- 389. 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
- 390. Universitat Politécnica de Catalunya. Inivted seminar: "Coastal Ecosystem Services: Valuation and Sustainability", Barcelona, Spain, Nov. 17, 2006
- 391.International Conference on Sustainability Measurement and Modeling. Invited keynote speaker: "Defining, Measuring, and Modeling Sustainability" Terrassa, Spain, Nov. 16-17, 2006.
- 392. 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.
- 393. Chinese Society for Sustainable Development Conference. Invited plenary speaker: "Ecosystem Services Valuation and Sustainability" Beijing, China, Nov. 9, 2006.
- 394. SUNY Plattsburg, Invited Seminar. "Ecological Economics" Plattsburg, NY Nov. 2, 2006
- 395. Society for Environmental Journalists 16th Annual Conference. Invited Panelist: Invasives: Global Trade Brings Local Costs. Burlington VT. Oct. 25-29, 2006.
- 396. Society for Environmental Journalists 16th Annual Conference. Invited Panelist: Money Talks: But what price sustainability? Burlington VT. Oct. 25-29, 2006.
- 397. 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.
- 398.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)
- 399. Burlington's Energy Future: Beyond the Oil Crisis. Invited panel speaker., Burlington, VT Oct. 5, 2006
- 400. World Wildlife Fund. Invited Seminar: "Linking ecology and economics for ecosystem management" Washington, DC, Sept. 7, 2006.
- 401. Independent First Nations Alliance Conference. Invited plenary speaker: "Ecological economics: creating a sustainable and desirable future" Sioux Lookout, Ontario, Canada, Aug22-23, 2006.
- 402. 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
- 403.3rd 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.
- 404. 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.
- 405. 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.
- 406. 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
- 407. 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
- 408.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
- 409. 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
- 410.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.
- 411. Dempsey Lecture. Willamette University. "Ecological economics: creating a sustainable and desirable future" Salem, Oregon, February 16, 2006.
- 412. Elder Education Enrichment program, Invited speaker: "Creating a sustainable and desirable future" South Burlington, VT, Feb 10, 2006
- 413. 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
- 414. 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
- 415. Lund University Centre for Sustainability Studies (LUCSUS), Invited Seminar: "Ecological economics: designing a sustainable and desirable future" Lund, Sweden, Jan. 10, 2006
- 416.KTH/Royal Institute of Technology, Invited Seminar: "Ecological economics: designing a sustainable and desirable future" Stockholm, Sweden, Jan. 9, 2006
- 417. Cogito (think tank connected with the Swedish Parliament), Invited Seminar: "Ecological economics: designing a sustainable and desirable future" Stockholm, Sweden, Jan. 9, 2006

418.Institute of Water and Environment, Cranfield University, Invited Seminar.: "Ecological economics: designing a sustainable and desirable future" Silsoe, UK, Jan 4, 2006

2005

- 419. 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.
- 420.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
- 421. 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
- 422. Joint Sino-US symposium on Ecological Complexity and Ecosystem Services. Invited plenary speaker: "Ecosystem Services and Natural Capital". Burlington, VT Oct. 21, 2005
- 423. 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
- 424.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
- 425. 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
- 426.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
- 427. 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.
- 428.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.
- 429. USEPA Region 2. Invited speaker: Ecological economics and EPA. New York, NY, April 14, 2005
- 430. 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)
- 431.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
- 432.3rd Annual Northeastern Climate Conference. Invited plenary speaker: "Perspectives from Academia Land" University of Vermont, Burlington, VT Feb 18, 2005
- 433.26th 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

- 434. Vermont Law School. Invited lecture: "Ecological economics, sustainability, and the law" South Royalton, VT, Oct 21, 2004
- 435.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.
- 436.Renewable Energy Vermont Conference: "Renewable Energy Here and Now" Invited panel speaker "Renewable Energy and the Vermont Economy" South Burlington, VT, Oct 14, 2004.
- 437. Vermont Biodiesel Workshop: Nurturing a Sustainable Biodiesel Industry in Vermont. Invited panel speaker: "Environmental Issues Roundtable" Montpelier, VT Sept. 22, 2004.
- 438.21st Pan-American Congress of Appraisal. Invited Plenary speaker "Valuing the Environment" Cartagena, Columbia, Sept. 20-23, 2004 (via interactive video).
- 439. Sustainable Communities 2004. Invited plenary speaker: Conference synthesis. Burlington, VT July 14-18, 2004
- 440. Sustainable Communities 2004. Invited speaker: Introducing local currency. Burlington, VT July 14-18, 2004
- 441. Sustainable Communities 2004. Invited focus area coordinator: New measures of community well-being. Burlington, VT July 14-18, 2004
- 442. 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.
- 443. Ecology in a Cost-Benefit Society. Invited Keynote speaker: "Thinking Broadly About Costs and Benefits." Roskilke University, Roskilde, Denmark, June 17-18, 2004.
- 444.11th 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

- 445. 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.
- 446.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
- 447. 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.
- 448. 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.
- 449. 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
- 450.5th 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.
- 451.Renseller Polytechnic Institute. Invited seminar speaker: "Visions, values, valuation, and the need for an ecological economics." Troy, NY. February 3, 2004.

- 452. Chaire Tractebel-Environment. Inaugural Plenary Speaker. "The Ecological Economics of Sustainability" Université Catholique de Louvain. Louvain-la-Neuve, Belgium, December 16, 2003.
- 453. 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.
- 454. Alterra Wageningen University and Research Centre. Invited seminar: "Ecological Economics and Climate Change" Wageningen, Netherlands, October 24, 2003.
- 455. 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
- 456.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
- 457. Vermont Sierra Club annual meeting. Invited Luncheon Speaker: "The importance of envisioning a sustainable and desirable future" Fairlee, Vermont, October 4, 2003.
- 458. Green Mountain Summit on Investor Responsibility. Invited Luncheon speaker: "Ecological Economics: Accounting for Human-Made and Natural Capital". Stowe, Vermont, Sept. 14-17 2003.
- 459. 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.
- 460. 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.
- 461. 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
- 462. 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.
- 463. 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.
- 464. Cornell University. Department of Natural Resources. Invited seminar: "Human Dominated Ecosystems: Understanding the Anthroposphere in the Anthroposene." Ithaca, NY, Feb. 25, 2003.
- 465. University of Washington. Walker Ames Lecture: "Human Dominated Ecosystems: Understanding the Anthroposphere in the Anthropocene." Seattle, WA, Feb. 12, 2003
- 466. 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).
- 467. 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

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- 468. Putney Mountain Association. Invited seminar: "Ecological Economics" Brattleboro, VT, December 8, 2002.
- 469. 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.
- 470. University of Vermont, Department of Environmental Pathology. Invited Seminar: "Ecological Economics and Ecosystem Health.", Burlington, VT, Dec. 2, 2002.

- 471.IndoPacific Ecosystem Health Conference. Invited Keynote Speaker: "Ecosystem Health and Ecosystem Services." Perth, Australia, November 24 27 2002 (via interactive video)
- 472. University of Vermont, Department of Economics. Invited Seminar: "Ecological Economics." Burlington, VT, November 6, 2002
- 473. 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.
- 474. 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.
- 475.3rd 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
- 476. 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.
- 477.LOICZ Synthesis and Futures Meeting: Coastal Change and the Anthropocene. Invited plenary speaker: "Socioeconomic aspects of coastal change" Miami, FL May 29-June 1, 2002.
- 478. Commencement address. School of Natural Resources, University of Vermont, "The Biggest Challenge: Envisioning a Sustainable and Desirable America (SDA)" Burlington, VT. May 19, 2002.
- 479. 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
- 480.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.

- 481. Visionary Vermont. Invited plenary speaker: "Envisioning a sustainable and desirable future". Burlington, VT, Oct. 12, 2001
- 482.Bates College. Invited seminar: "Ecological Economics: Reintegrating the Study of Humans and the Rest of Nature" Lewiston, ME, Oct. 10, 2001
- 483. 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.
- 484.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
- 485. Chesapeake Bay Foundation. Invited panel speaker: "How can we save the Chesapeake Bay?. Annapolis, MD, June 15, 2001.
- 486. 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
- 487.NOAA Coastal Services Center, Human Dimensions Initiative. Invited seminar: "Ecological Economics and the Human Dimension of Coastal Zone Management" Charleston, SC, May 16, 2001
- 488. 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.
- 489. 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
- 490. Columbia University. Invited seminar. "Ecological Economics: Reintegrating the study of humans and the rest of nature" New York, NY, March 20, 2001
- 491. Champions of Sustainability 2001 Lecture Series, sponsored by Sustainable Pittsburgh. Invited lecture titled: "Designing a Sustainable and Desirable America" Pittsburgh, PA, March 14, 2001.
- 492.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.

- 493. Virginia Institute of Marine Sciences, Invited seminar: "Reintegrating the study of humans and the rest of nature" Gloucester Point, VA, Dec. 1, 2000
- 494. 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

- 495.Lowell Lecture series on Ecological Economics. Invited speaker: "The ecology-economy interface" New England Aquarium, Boston, MA, November 9, 2000
- 496. 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.
- 497. 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.
- 498.4th 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.
- 499.4th 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.
- 500. 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.
- 501. Environment Canada, Policy Research Seminar Series, Invited speaker: "Natural Capital and Sustainable Development" Hull, Ontario, Canada, July 14, 2000
- 502.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
- 503.EPA STAR Graduate Fellowship Conference 2000. Invited opening keynote speaker: "Developing a shared vision of the future". Washington, DC, July 10, 2000.
- 504. Ecosummit 2000: Integrating the Sciences. Invited plenary address. "Quality of life and the distribution of wealth and resources." Halifax, Canada, June 19-22, 2000
- 505. Ecosummit 2000: Integrating the Sciences. Invited opening plenary address. "Understanding and solving environmental problems in the 21st century". Halifax, Canada, June 19-22, 2000
- 506.4th 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.
- 507. University of Venice. Invited seminar: "Ecological economics", Venice, Italy, May 3, 2000.
- 508. Consorzio Venezia Nuova. Invited seminar: "Integrated ecological and economic modeling of watersheds", Venice, Italy, May 2, 2000.
- 509. 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.
- 510.15th 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.
- 511.15th 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.
- 512. 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
- 513. Sustainable Design Forum. Invited plenary speaker: "Are we spending our natural capital?" University of Maryland School of Architecture. College Park, MD, Feb. 16, 2000.
- 514. 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.
- 515. 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

- 516. 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.
- 517.ELOISE 3rd Open Science Meeting. Invited Keynote speaker: "Bridging the gap between research and management." Noordwijkerhout, the Netherlands, Dec. 1-4, 1999.
- 518. 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.

- 519. 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.
- 520. 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.
- 521. 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.
- 522. 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.
- 523.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)
- 524. 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.
- 525. 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.
- 526. Natural Resources Policy and Issues Seminar. Invited Plenary Speaker: "Natural Capital and Ecosystem Services". Eastern Management Development Center, Shepherdstown, WV, August 23, 1999.
- 527. 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.
- 528.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.
- 529. Asia Pacific Environmental Exchange. Invited seminar speaker: "Ecological Economics and Ecosystem Health" Seattle, WA, August 13, 1999.
- 530. 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.
- 531. 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.
- 532. Council of Scientific Society Presidents Annual Meeting. Invited plenary speaker: "Four Visions of the 21st Century" Washington, DC, May 1, 1999.
- 533. Maastricht University, ICSC. Invited seminar: "Ecological Economics" Maastricht, The Netherlands, April 26, 1999.
- 534. 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.
- 535. Stockholm University. Invited Seminar: "Envisioning the future environment" Stockholm, Sweden, April 21, 1999
- 536. 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
- 537. Fundació Bancaixa. Invited Seminar: "Frontiers of Ecological Economics". Valencia, Spain, April 13, 1999.
- 538. Universitat Autonoma de Barcelona. Invited Seminar: "Frontiers of Ecological Economics". Barcelona, Spain, April 12, 1999.
- 539.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)
- 540. University of Vermont, School of Natural Resources. Invited seminar: "Ecological Economics" Burlington, VT February 25, 1999
- 541. James Madison University. Invited seminar: "What is Ecological Economics" Harrisonburg, VA, February 15, 1999.

542. 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.

- 543. "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 Janerio, Brazil, November 20, 1998.
- 544. 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 Compatable?". Santiago, Chile, November 15-19, 1998.
- 545. 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.
- 546. 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.
- 547. 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.
- 548. Year of the Ocean National Ocean Conference, National Aquarium in Baltimore. Invited Panelist. Baltimore, MD June 12, 1998.
- 549. 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
- 550. York Distinguished Lecture, University of Florida. "Ecological Economics and the Valuation of Ecosystem Services." Gainesville, FL June 8, 1998.
- 551.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)
- 552. Inaugural meeting of the Massachusetts Chapter of the Society for Conservation Biology. Boston University. Invited Plenary speaker: "Ecological Economics." Boston MA April 29, 1998.
- 553. University of Massachusetts at Boston. Biology Dept. Invited seminar: "Ecological Economics and Sustainable Development." Boston MA April 29, 1998.
- 554. Western Kentucky University, Dept of Biology. Invited seminar: "Ecological Economics." Bowling Green Kentucky April 24, 1998.
- 555. Cornell University. Dept. of Ecology and Systematics. Invited seminar: "Modeling Ecological and Economic Systems." Ithaca NY` April 15, 1998.
- 556. Arizona State University. Department of Biology. Invited seminar: "Modeling, valuing, and managing regional ecological economic systems." Tempe, AZ March 24, 1998.
- 557. 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.
- 558. 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.
- 559. 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.
- 560. Wingspread workshop on implementing the precautionary principle. Invited participant and speaker: "Assurance bonds." Racine, WI Jan 23-25, 1998.

- 561. 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.
- 562.USDA Fund for Rural America, Environment Panel/Workshop. Invited Keynote presentation: "The environment-economy interface." Snowbird, UT October 6-8,1997.
- 563. Edwin Way Teal Lecture Series, University of Connecticut. Invited speaker: "Economics and Ecology: the Value of Ecosystem Services." Storrs, CT Sept. 24, 1997.
- 564.8th National Urban Forest Conference: "Cities by Nature's Design," invited keynote speaker: "Pricing the world's natural capital," Atlanta, GA September 17-20, 1997.
- 565. Congressional Hearing on "the value of plant, animal, and microbial species to human health." Plenary speaker. US Senate Rm SC-5. Sept. 8, 1997.
- 566.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,.
- 567.7th 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,.
- 568. 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.

- 569. 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.
- 570.RIKZ, NIOO, & RIZA Workshop on Coastal Eutrophication, invited plenary speaker: "What is a healthy ecosystem?" Renesse, The Netherlands June 15-19, 1997.
- 571. 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.
- 572. Appalachian Environmental Laboratory, invited seminar: "Ecological economics and adaptive regional management." Frostburg, MD April 17, 1997.
- 573. Johns Hopkins University, Department of Geography and Environmental Engineering, invited seminar: "Ecological economics and adaptive regional and global management." Baltimore, MD April 15, 1997.
- 574.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.
- 575. Biosphere 2 Center. Invited Seminar: "Ecological economics." Oracle, AZ March 25, 1997.
- 576. 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.
- 577. Michigan State University, Institute of Environmental Toxicology, Invited Seminar: "Ecological economics." East Lansing, MI March 17, 1997.
- 578.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.
- 579. Independent World Commission on the Oceans, Working group on Economic Uses of the Oceans. Invited participant, Lisbon, Portugal Feb. 17-19, 1997.
- 580.Patuxent Wildlife Research Center. Invited Seminar: "Ecological economics, landscape ecology, and watershed management." Laurel, MD Feb. 13, 1997.
- 581.International Joint Commission of the United States and Canada. Invited seminar: "Ecological Economics." Windsor, Ontario Canada Feb. 12, 1997.
- 582.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.
- 583.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.
- 584. 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.

- 585.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.
- 586. 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.
- 587.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.
- 588. 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.
- 589. South Florida Water Management District, invited seminar: "Ecological economics and adaptive regional management." West Palm Beach, FL October 28, 1996.
- 590. 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: Suprises and Algorithms." Copenhagen, Denmark August 19-23, 1996.
- 591. 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.
- 592.1996 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.
- 593. 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.
- 594. 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.

- 595. Fourth International Conference of the International Society for Ecological Economics. "Designing Sustainability: Building Partnerships Among Society, Business, and the Environment". Environment." Invited panel presentation: "Valuation Methods for National Accounting." Boston, MA August 4-7, 1996.
- 596. 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.
- 597. 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
- 598. 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.
- 599. 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.
- 600. 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
- 601. 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.
- 602. 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.
- 603. 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.
- 604. Facultad de Agronomia, University of Buenos Aires, invited seminar: "The ecological economics perspective." Buenos Aires, Argentina April 8, 1996.
- 605. Fundacion Patagonia Natural, workshop on Coastal Zone Management in Patagonia, invited speaker: "Ecological economics." Puerto Madryn, Argentina March 28, 1996.
- 606.Banff Bow Valley Study, Ecological Outlook Workshop #2, invited plenary speaker: "Re-integrating ecology and economics for sustainability." Banff, Canada March 7, 1996.
- 607.Mt. Holyoke College, invited seminar: "International Trade and the Environment." Mt. Holyoke, MA March 4, 1996.
- 608. Lund University, invited seminar: "Integrated Ecological Economic Modeling," Lund, Sweden February 15, 1996.
- 609. Swedish Collegium for Advanced Study in the Social Sciences (SCASSS). Invited seminar: "Envisioning a sustainable and desirable society." Uppsala, Sweden February 8, 1996.
- 610. Swedish University of Agricultural Sciences, Department of Economics invited seminar: "Integrated Ecological Economic Modeling." Uppsala, Sweden February 8, 1996.
- 611. 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.

- 612. University of York, Department of Environmental Economics and Environmental Management, Invited seiminar: "Integrated ecological economic modeling at the regional level." York, England December 14, 1995.
- 613.Beijer International Institute of Ecological Economics, Invited seminar: "Integrated ecological economic modeling." Stockholm, Sweden December 13, 1995.
- 614. Australian Institute of Marine Sciences, Invited seminar: "Ecological Economics." Townsville, Australia December 7, 1995.
- 615. Great Barrier Reef Marine Park Authority, Invited seminar: "Ecological Economics." Townsville, Australia December 7, 1995.
- 616. The Other Economic Summit, University of Adelaide, invited plenary speaker: "Envisioning a sustainable and desirable society." Adelaide, Australia December 1, 1995.
- 617. University of Melbourne invited special seminar: "Ecological economics: transdiciplinary education and research." Melbourne, Australia November 30, 1995
- 618. 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.
- 619. Australian Parliamentary Library Vital Issues Seminar, invited speaker: "Paths to a Sustainable Economy." Parliament House, Canberra, Australia November 29, 1995.
- 620.CSIRO invited special seminar, Division of Wildlife and Ecology: "Integrated ecological economic modeling." Canberra, Australia November 28, 1995.

- 621. Economics for the Global Good Conference. Invited plenary speaker. "Alternative Futures." Sydney, Australia November 25, 1995.
- 622. 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.
- 623. Universidade Católica Dom Bosco. Ecological Economics Seminar. Plenary opening address: "Ecological economics and integrated assessment." Campo Grande, Brazil November 9-10, 1995.
- 624. Maryland Sierra Club seminar series. Invited speaker: "Ecological economics and sustainable development in a regional context." Prince Frederick, MD October 25, 1995.
- 625. Swedish Collegium for Advanced Study in the Social Sciences (SCASSS) workshop on economics, ethics, and the environment. Invited plenary speaker, "The evolution of preferences." Friibergh, Sweden August 25-27, 1995.
- 626.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.
- 627. Natal Parks Board. Invited seminar: "Ecological Economics and Sustainability." Pietermaritzburg, South Africa July 31, 1995.
- 628. University of Cape Town. Invited seminar: "Ecological Economics and Sustainability." Cape Town, South Africa July 27, 1995.
- 629. Ecological Outlook Workshop: Cumulative Effects Assessment and Futures Modeling Workshop. Invited Speaker: "Integrated Ecological Economic Modeling." Banff, Canada June 6-8, 1995.
- 630.International Association for the Study of Common Property, 5th International Conference: Reinventing the Commons. Invited speaker in session titled: "Ecological and Institutional Lingages." Paper titled: "Integrated ecological economic modeling and adaptive management of complex systems." Bodø, Norway May 24-28, 1995.
- 631. Universidad Austral, Invited Seminar: "Ecological Economics." Valdivia, Chile March 28, 1995
- 632. Universidad de Chile, Sustainable Development Program and Department of Economics, 2 invited seminars: "Ecological Economics." Santiago, Chile March 22-23, 1995.
- 633.SCOPE workshop on Estuarine Synthesis. Invited plenary speaker, "Integrated Modeling of Coastal Landscapes." Beckman Center, Irvine, CA Feb 23-25, 1995.
- 634. Emory University, Human and Natural Ecology Program, invited seminar. Atlanta, GA Feb 22, 1995.
- 635. 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.
- 636. University of Georgia, Institute of Ecology, invited seminar: "Ecological economics." Athens, GA Feb. 21, 1995.
- 637.AAAS 1995 Annual Meeting. Invited topical lecture, "Integrated ecological economic modeling and adaptive management of complex systems." Atlanta, GA Feb. 16-21, 1995.
- 638.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.
- 639. 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.
- 640. University of Michigan, School of Natural Resources. Invited Seminar: "New Perspectives Provided by Ecological Economics." January 17, 1995.

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- 641. 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.
- 642. Fundação Luso-Americana. Roundtable on Sustainable Development Principles and Actions Needed. Invited Plenary Speaker: "What is Sustainable Development?" Lisbon, Portugal November 30, 1994.
- 643. New University of Lisbon. Invited seminars on integrated ecological economic modeling. Lisbon, Portugal November 28-29, 1994.
- 644. 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.
- 645.45th 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.
- 646.Massey University, Department of Ecology, Invited seminar: "Ecological economics and sustainable development." Palmerston North, New Zealand August 8, 1994.
- 647.Lincoln University, Department of Agricultural Engineering, Invited seminar: "Integrated ecological economic modeling for watershed management." Christchurch, New Zealand August 4, 1994.
- 648. 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.
- 649.International Experts Meeting on Operationalizing the Economics of Sustainable Development. Invited plenary speaker: "Ecological economics and sustainable development." Manila, Philippines, July 28-30, 1994.

- 650.USDA Forest Service National Research Assessment Workshop: Fish and Wildlife Valuation. Invited plenary keynote speaker, Aspen Lodge, Estes Park, CO June 27-30, 1994.
- 651.1st 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.
- 652. Massachusetts Institute of Technology, Department of Civil and Environmental Engineering, Invited seminar: "Integrated ecological economic modeling of regional landscapes." Cambridge, MA May 2, 1994.
- 653. 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.
- 654. 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.
- 655. University of Pittsburgh, Environmental Policy Studies Group invited seminar: "Ecological economics: the science and management of sustainability." Pittsburgh, PA March 24, 1994.
- 656. Heinz Endowment colliquium on Industrial Ecology, invited plenary speaker: "Ecological economics." Pittsburgh, PA March 23, 1994.
- 657. Eastern Economics Association Meeting. Invited speaker: "Modeling complex ecological economic systems." Boston, MA. March 18-20, 1994.
- 658. University of Minnesota. Invited special seminar, Department of Ecology and Conservation Biology Program. "Ecological Economics." St. Paul, MN March 4, 1994.
- 659. Gothenberg University. Invited special seminar, Department of Economics, Environmental Economics program. "Modeling complex ecological economic systems." Gothenberg, Sweden Feb. 4, 1994.
- 660. Free University of Amsterdam, Invited special seminar, Institute for Environmental Studies. "Modeling complex ecological economic systems." Amsterdam, Netherlands January 26, 1994.
- 661. National Institute of Public Health and Environmental Protection (RIVM). Invited special seminar, "Ecological Economics." Bilthoven, Netherlands January 25, 1994.

- 662. 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.
- 663. 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.
- 664.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.
- 665. 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.
- 666.LTER all-scientists meeting. Invited plenary speaker: "New directions for LTER: ecological economics." Estes Park, Colorado, Sept 19-23, 1993.
- 667.Beijer International Institute of Ecological Economics. Workshop on Property Rights and the Environment. Invited participant. Stockholm, Sweden, September 2-4, 1993.
- 668.12th Annual meeting of the Balaton Group. Invited plenary speaker: "Sustainable trade." Csopak, Hungary August 27-Sept 1, 1993.
- 669. Course on Ecosystem Theory, Invited Plenary Lecture. Royal Danish School of Pharmacy, Copenhagen, Denmark August 16-20, 1993.
- 670.Bauman Foundation workshop on New England's Economy, Environment, and Democracy. Invited plenary panel participant. Westford MA June 24-25, 1993.
- 671. 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.
- 672. 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.
- 673. 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.
- 674.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.
- 675.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.

- 676. University of Maryland Geography Department seminar series: "Ecological economic modeling at multiple scales." May 3, 1993.
- 677. University of Missouri at St. Louis: Conference titled: Linking Economics and the Environment. Plenary Keynote speaker: "What is Ecological Economics?" March 26, 1993.
- 678.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 toxicolgy." Incline Village, Nevada February 21-25, 1993.
- 679.Biodiversity Support Program Seminar Series: "Ecological economics: striking a sustainable balance of humans in nature." World Wildlife Fund, Washington, DC February 17, 1993.
- 680.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.
- 681.IICA invited seminar: "Ecological economics in a developing country context." San José, Costa Rica Feb. 1, 1993.

- 682. 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.
- 683. 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.
- 684. National Carrying Capacity Issues Conference, Carrying Capacity Network, Invited speaker: "Towards a new economics." Washington DC 6/19/92-6/21/92.
- 685. EcoWorld: American Society of Mechanical Engineers, Invited speaker: "Ecological Economics." Washington DC 6/14/92-6/19/92.
- 686. EcoTech: International symposium and exhibition of environmental technologies. Invited speaker: "Natural resources accounting." Rio de Janeiro, Brazil 5/29/92-6/6/92.
- 687.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.
- 688. Second International Workshop on Ecological Physical Chemistry. Invited Plenary presentation: "The limits of ecological economics." Milan, Italy 5/25/92-5/29/92.
- 689. College of the Atlantic, Invited seminar: "Ecological Economics." Bar Harbor, ME 5/11/92.
- 690. ouncil on Foundations Annual Meeting. Invited speaker: "Ecological Economics." Miami, FL 4/27/92.
- 691.NOAA workshop on Ecosystem Health. Invited speaker: "Toward and operational definition of ecosystem health." Narragansett, RI 4/24/92.
- 692. 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.

- 693.NOAA workshop on the Barataria/Terrebonne Estuary Program. Invited plenary speaker: "Modeling applications and the importance of scale." Thibodeaux, LA 10/29/91.
- 694. University of Washington, School of Marine Affairs. Invited seminar: "What is ecological economics?" Seattle, WA 10/28/91.
- 695. 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
- 696. Beijer International Institute of Ecological Economics. Workshop on Biodiversity. Invited participant. Stockholm, Sweden 9/16/91-9/20/91.
- 697.International Network of Resource Information Centers. 10th Annual Balaton Group Meeting. Invited plenary speaker, "Economic Diversity." Csopak, Hungary 9/3/91-9/8/91.
- 698. Aspen Global Change Institute, workshop on biodiversity. Invited participant. Aspen CO 8/11/91-8/16/91.
- 699. 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.
- 700.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.
- 701.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.
- 702.CATIE Workshop on the Methodology of Economic Evaluation of Tropical Wetlands. Invited participant. Turrialba, Costa Rica, 5/29/91-6/4/91.
- 703. WIDER workshop: The Economics of the Transnational Commons. Invited discussant. University of Siena, Siena, Italy, 4/25/91-4/27/91.

- 704. 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.
- 705. Johns Hopkins University, Applied Physics Lab, Invited Seminar: "Ecological Economics." Rockville, MD 3/22/91.
- 706.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.
- 707.CATIE International Workshop on Ecology and Economics. Invited plenary presentation: "Economic Evaluation and Management of Wetlands." Turrialba, Costa Rica, Jan. 29-30, 1991.

- 708. Maryland House of Delegates Seminar for New Legislators. Invited presentation, "Status of the Chesapeake Bay and Related Issues." Dec. 10, 1990.
- 709. University of Florida. Special Seminar in Zoology and Ecology "From populations to landscapes: scaling issues in ecology." Gainesville, FL Nov. 27, 1990.
- 710. University of Siena. Workshop on Ecological Physical Chemistry. Invited plenary presentation: "Energy, Uncertainty, and Ecological Economics." Siena, Italy, November 8-12, 1990.
- 711. 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.
- 712.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.
- 713. 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.
- 714. 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.
- 715.NSF Workshop: Mathematics and Biology: The Interface, Challenges, and Opportunities. Washington, DC 4/29/90-5/1/90.
- 716.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.
- 717. 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.
- 718.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.

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- 719. EcoBermuda. Invited special seminar: "Ecological Economics." Hamilton, Bermuda 12/8/89.
- 720. University of Virginia, Department of Environmental Sciences invited seminar: "Modeling coastal landscape dynamics." Charlotttsville, VA 11/10/89.
- 721. Metropolitan Washington Chapter, Ecological Society of America. "Ecological Economics." Washington, DC 10/16/89.
- 722. 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.
- 723.40th AIBS Annual Meeting, "Modeling Landscape Dynamics" Toronto, Canada 8/689-8/10/89.
- 724.Rethinking the Curriculum: a Conference on Integrated Interdisciplinary Education. "The Overspecialization Trap" (plenary talk). San Diego, CA 6/19/89-6/23/89.
- 725. 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.
- 726. Fourth Annual Landscape Ecology Symposium. "The Predictability of Landscapes." Fort Collins, CO 3/15/89-3/18/89.
- 727. Global Tomorrow Coalition. Global Issues Forum on the Economics of Sustainability. Washington, DC 3/8/89.
- 728. 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.

- 729.NSF Workshop on Predicting Across Scales, workshop participant, Oak Ridge, TN 11/8/88-11/12/88.
- 730. 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.
- 731. 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.

- 732. Ninth Biennial International Estuarine Research Conference. "Model Goodness-of-Fit: a Multiple Scale Procedure." New Orleans, LA October 25-29, 1987.
- 733. 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.
- 734. 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.
- 735. 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.

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- 736.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.
- 737.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.
- 738. 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.
- 739. National Wetland Symposium. "Valuation of Wetlands." International Hotel, New Orleans, LA 10/8/86-10/10/86.
- 740.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
- 741.International Congress of Ecology. "Dynamic Spatial Modeling of Coastal Wetland Succession in Coastal Louisiana." Syracuse University, Syracuse, NY 8/10/86-8/16/86.
- 742. 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.
- 743. 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.

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- 744. Estuarine Management Practices Symposium. "Economic Valuation of Wetlands." Prince Murat Hotel, Baton Rouge, LA 11/11/85.
- 745.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.
- 746. 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.
- 747. 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.
- 748. 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.

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- 749.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).
- 750.Center for Energy Studies Energy Forum. "Ultimate Recoverable Hydrocarbons: A Net Energy Approach." Louisiana State University, Baton Rouge, LA 10/7/83.
- 751.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.
- 752.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.
- 753. Wallenberg Symposium. "Natural Resource Valuation and Management: Toward an Ecological Economics." Stockholm, Sweden 9/1/82.
- 754. Students for Safe Energy Panel Discussion. "Current Major Issues in the Struggle Against Nuclear Power." Louisiana State University, Baton Rouge, LA 10/28/81.
- 755. Economics Department Fall Seminar. "Energy, Ecology, and Economic Modeling." Louisiana State University, Baton Rouge, LA 11/20/81.

- 756.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.
- 757. 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.
- 758. 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.
- 759.Illinois Natural History Survey Special Seminar. "Valuing Natural Resources: A Comprehensive Approach." University of Illinois, Champaign, Illinois 6/17/80.
- 760.AAAS Annual Conference: Symposium on Energetic and Ecological Economics. invited speaker: "Embodied Energy, Energy Analysis, and Economics." San Francisco, CA 1/80.
- 761. Special seminar on dynamic optimization models in ecology and economics. Savannah River Ecology Lab, Aiken, SC 9/79.
- 762. 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 (41)

- 1. Territory Natural Resource Management Conference Workshop: Ecosystem services valuations in the Territory what, why, and how? Darwin, Australia, 15 Nov. 2018
- 2. 7th International Conference of the Ecosystem Services Partnership (ESP): Lobal action for the common good. Co-Chair and member of the international organizing committee. San José, Costa Rica, 8-12 Sept. 2014
- 3. 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
- 4. 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
- 5. 6th Annual Ecosystem Services Partnership (ESP) Conference. Making Ecosystem Services Count. Co-Chair, Conference Organizing Committee. Bali, Indonesia, Aug 26-30, 2013 (http://www.espconference.org)
- 6. 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
- 7. 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.espconference.org)
- 8. 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.
- 9. The Planet in 2050. Conference co-chair. Lund, Sweden, Oct. 27-31, 2008
- 10. Conference on Ecosystem Services in China and the U.S. Conference co-chair. Beijing, China, Oct. 12-19, 2008
- 11. Payment for Ecosystem Services: from local to global. An international conference and atelier workshop. Conference and workshop co-organizer and chair. Universidad National Costa Rica, Heredia, Costa Rica, March 8-16, 2007.
- 12. 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
- 13. 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.
- 14. Ecosummit 2000: Integrating the Sciences. Organizing committee chair. Halifax, Canada, June 19-22, 2000
- 15. 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.
- 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 1-5, 1999.
- 17. 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.
- 18. 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.
- 19. "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.

- 20. "Ecological Economics: what have we learned?" Symposium at the American Economics Association Annual Meeting. New Orleans, LA Jan. 4-6, 1997.
- 21. "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.
- 22. "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
- 23. 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.
- 24. "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.
- 25. "Ecological Tax Reform," ISEE/MacArthur Foundation Workshop. Workshop chair. College Park, MD March 18-19, 1996.
- 26. SCOPE/UNEP workshop on "Integrated Adaptive Ecological Economic Modeling and Assessment." Workshop chair. Faxenda Rio Negro, Pantanal, Brazil November 4-7, 1995.
- 27. "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.
- 28. "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.
- 29. "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.
- 30. "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.
- 31. "Ecological Economics and Management Decisions," session at the International Conference: Environmental Management of Enclosed Coastal Seas: EMECS '93. Baltimore, MD November 10-13, 1993.
- 32. "Ecological Economics: a New Approach," session at EcoWorld: American Society of Mechanical Engineers, Washington DC June 14-19, 1992.
- 33. "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.
- 34. "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.
- 35. "Ecosystem Health and Environmental Management," workshop sponsored by Maryland Sea Grant and US EPA. Aspen Wye Conference Center, MD Oct. 28-30, 1990.
- 36. "Modeling with Large Scale Computers," session at: 40th AIBS Annual Meeting. Toronto, Canada August 6-10, 1989.
- 37. "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.
- 38. "Natural Capital and Sustainable Development," session at: The Other Economic Summit. Houston, TX July 6-8, 1990.
- 39. "Emerging Modeling Techniques for Ecosystems," session at: Ninth Biennial International Estuarine Research Conference. New Orleans, LA October 25-29, 1987.
- 40. "Spatial Modeling," session at: American Institute of Biological Sciences/ International Society for Ecological Modeling Joint Meeting. Ft. Collins, CO 8/6-8/10, 1984.
- 41. "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. 1/11-Present.

Club of Rome. Full Member. 1/15 – present

World Economics Association Full Member. 1/13 - present

Society for Human Ecology, Full Member. 1/15 - present

International Society for Ecological Economics (co-founder, Chairman of the Board 1/88-11/98, and President, 1/88-1/98) Ecological Society of America (Vice-Chair Washington Area chapter, 1989; Chair, Washington Area chapter, 1990, Certified Senior Ecologist, 1/01-present)

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

International Society for Ecosystem Health (co-founder and Vice-President, 6/94-3/00; President 7/00-12/01)

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

The Anthropocene Review, Editor in Chief, 8/2018 - present

Solutions, Founding Editor in Chief, 9/2008 – present

Ecological Economics Founding Chief Editor, 1/1989-9/2002, Editorial Board, 9/2002 – present

Ecosystem Services, Associate Editor 1/2019 - present. Editorial Board, 1/2012-present

Ecology and Society, Editorial Board, 2002-present

PeerJ, Editorial Board, 1/2013-present

Rethinking Ecology, Editorial Board, 11/2016-present

Ecological Informatics, Editorial Board 1/05-present

Environmental Management. Editorial Board. 1/2000 - present

Environmental Innovation and Societal Transitions, Editorial Board . 4/2011 – present

Journal of Resources and Ecology, Editorial Board, 1/10 - present

Living Reviews in Landscape Research, Editors-in-Chief, 2/2006-present

Environmental Economics, Editorial Board, 10/2010 - present

Previous

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

- 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), Sinaurer (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. Australian National University

Ecological Economics and Policy (EMDV 8012) Semester 2, 2014, Semester 1 2015-2019

Environmental Assessment (EMDV8103) Semester 2, 2017, Semester 1, 2018-19

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), 1st Semester, 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

B. Portland State University:

Sustainable Solutions Seminar (ARCH 407/507) 1-2 credits, Fall 2010, Spring 2011, Fall 2011

Applied Sustaianble Solutions: Integrated Watershed Management in the Manawatu basin, New Zealand, 3 credits, Winter, 2012

Applied Sustaianble Solutions: Measuring Well-Being (ESM 404/504) 3 credits, Spring, 2012

C. 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.

RSENR 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

D. 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)

E. Louisiana State University

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

F. Other Courses and Guest Lectures

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

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

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 Servics 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: Unravelling Complexity (VCPG6001), Australian National University, Semester 1, 2016, 2017, 2018, 2019, 2020

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

Guest Lecture: Human Ecology (ENVS2011), Australian National University, Semester 1, 2014, 2017, 2018, 2019

Guest Lecture: Contemporary perspectives in environment-society linkages (ENVS8016), Australian National University, Semester 2, 2015, 2016, 2017

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

[&]quot;Theoretical Concepts of Ecology: Seminar" MRSC 7370, team taught, variable content. LSU, 1984, 1986.

[&]quot;Landscape Ecology." LSU, 1985.

[&]quot;Ecological Modeling and Management." LSU, 1983.

- 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 Degredation (ELD) MOOC: Changes in the value of global ecosystem services. Aug. 13, 2014. https://www.youtube.com/watch?v=CHibZadRSAg&list=PLsQcCFzasV6o0oG7 d1nQned wx7JPllx
- 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): "Ecosytem 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 geopressured 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."
- 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. Roismery 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. "Transdiscipinary 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 Karolina 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."

Committee/Panel Member:

Pichan Sawangwong Ph.D. 1991, UMD, MEES

Terri Paluszkiewicz, 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, RSENR, 2006)

Ken Mulder (Ph.D. – UVM, RSENR, 2006)

2. Students Currently Supervised:

Primary Supervisor: Haojie Chen (Pd.D. ANU), Souvidhya Manoz (Ph.D., ANU), Javier Montoya Zumaeta (Ph.D., ANU), Tianchu Lu (Ph.D., ANU)

Associate Supervisor: Teeemu Koskimäki (Ph.D., ANU), Marc Torra (Ph.D., ANU)

VI. SERVICE and OUTREACH

A. Popular Articles, Opinion Pieces, and Blogs (77)

- 1. **Costanza**, **R**. and B. Chapmann. Revenue-contingent wage loans, a proposal for supporting jobs in times of crisis. *The Conversation*. Dec. 15, 2020
- 2. Costanza, R. From smog to smoke to sustainable wellbeing. APPS Policy Forum, January 21, 2020
- 3. Costanza, R. Toward a sustainable wellbeing economy. Counter Currents, May 13, 2018.
- 4. Costanza, R., P. Lawn, Ian Lowe, and Peter Martin. 2018. <u>Achieving genuine progress in Australia.</u> *APPS Policy Forum.* March 14, 2018.
- 5. Ward, J., K. Chiveralis, L. Fioramonti, P. Sutton, and **Costanza**. 2017. <u>The decoupling delusion: rethinking growth and sustainability</u>. *The Conversation*. March 13, 2017.
- 6. Costanza, R. We Need Societal Addiction Therapy. Solutions Volume 8, Issue 2, March 2017
- 7. Costanza, R. 2017. 'Claim the sky': a new climate movement for the Trump era. The Conversation. March 6, 2017.
- 8. Lovins, H., **R. Costanza**, I. Kubiszewski, L. Fioramonti, M. Göpel, D. Philipsen, and S. Wallis. 2017. <u>Can Trump's election open the door to a sustainable and desireable future? *Huffington Post*. February 14, 2017.</u>
- Costanza, R., L. Fioramonti, M. Göpel, I. Kubiszewski, H. Lovins, D. Philipsen, and S. Wallis. 2017. <u>Crisis may trigger transition: Could Trump be the catalyst for a seismic shift toward a sustainable and desirable future? APPS Policy Forum.</u> February 13, 2017.
- 10. Kubiszewski, I., P. Sutton, **R. Costanza**, and S. Anderson. 2016. <u>Without action, Asia-Pacific ecosystems could lose a third of their value by 2050</u>. *The Conversation*. April 8, 2016.
- 11. Norman, B., A. Capon, I. Kubiszewski, **R. Costanza**, and W. Steffen. 2016. <u>Times demand a Sustainable Development Commission to replace the Productivity Commission</u>. *The Conversation*. March 25, 2016.
- 12. Costanza, R. 2016. The environment as an asset to economic prosperity and development. Cynthia and George Mitchell Foundation Blog.
- 13. **Costanza**, **R.**, L. Fioramonti, and I. Kubiszewski. 2015. Why vulnerable countries must take ownership of their skies. *The Guardian*. Dec. 22, 2015.
- 14. Costanza, R. 2015. Editorial: Sustainable Development versus Un-Economic Growth. Solutions 6(5):1.
- 15. Sutton, P. and R. Costanza. 2015. Beavers are worth \$1b a year, yet still our economy grossly undervalues nature. The Conversation. Oct. 16. 2015.
- 16. Costanza, R. "Uneonomic growth and an alternative to GDP. The Canberra Times. Oct. 6, 2015.
- 17. Fioramonti, L., E. Giovannini, **R. Costanza**, I. Kubiszewski, K. Pickett, K. V.a Ragnarsdóttir, R. De Vogli and R. Wilkinson. 2015. Say goodbye to capitalism: welcome to the Republic of Wellbeing. *The Guardian*. Sept. 2, 2015.
- 18. Costanza, R., F. Jotzo, and S. Cork. 2015. We need real consensus, not Bjorn Lomborg's illusion of it. The Conversation. May 21, 2015.
- 19. Costanza, R. 2015. How to build a 'lagomist' economy. The Guardian. April 6, 2015.
- 20. Costanza, R. 2015. <u>How the world's economic growth is actually un-economic</u>. Renewable Matter: International magazine on the bioeconomy and the circular economy, Feb 2, 2015.
- 21. Costanza, R. 2014. How the world's economic growth is actually un-economic. The Conversation, Dec. 9, 2014.

- 22. Costanza, R. 2014. Is natural capital a 'neoliberal road to ruin'?- experts discuss. The Guardian. August 1, 2014.
- 23. Costanza, R. 2014. Commentary on Monetizing Nature: Taking Precaution on a Slippery Slope Great Transition Initiative
- 24. Lovins, L. H., D. Morton, **R. Costanza**, and I. Kubiszewski. 2014. <u>Economy on the edge: seeking a world that works</u> for the 100%. *The Guardian*. June 6, 2014.
- 25. Costanza, R. and I. Kubiszewski. 2014. Why We Need Visions of a Sustainable and Desirable World. Resilience. April 29, 2014.
- 26. **Costanza**, **R.** 2013. <u>Ecological civilization: an important guide for Chinese future development. (in Chinese).</u> *Chinese Social Sciences Today*. Sept. 18, 2013.
- 27. Costanza, R. 2012. Sustainable Leadership. Project Syndicate. Dec. 2, 2012.
- 28. Costanza, R. 2012. Finding new politics in old revolution. Solutions. Vol. 3, Issue 6, page 1.
- 29. Costanza, R. 2012. Measuring China's Harmony. Project Syndicate. Nov. 23, 2012.
- 30. Costanza, R. 2012. <u>Transformation to a Sustainable and Desirable Future in the 3rd Millennium</u>. *Green Cross International*. Sept. 28, 2012.
- 31. Costanza, R. 2012. Valuation is not privatization. OSLO Capacity building Rwanda website.
- 32. **Costanza**, **R.**, S. Quatrini and S. Øystese. 2012. <u>Response to George Monbiot: The valuation of nature and ecosystem services is not privatization.</u> *Responding to Climate Change (RTCC)*. August 15, 2012.
- 33. Costanza, R. 2012. What can we expect from Rio+20. Al Jazeera (English), April 14, 2012.
- 34. Costanza, R. 2012. A Vision of a Successful Economy without Continuous Economic Growth. Center for Humans and Nature. Online.
- 35. Steffen, W., J. Rockström, and R. Costanza. Our bounded world. China Dialogue, June 15, 2012.
- 36. Costanza, R. 2012. The solutions generation. The European Business Review, March/April, 2012. Pp. 64-66.
- 37. **Costanza**, **R.** 2011. The solutions generation: The next generation will have to bring about major transitions in order to build a more sustainable future. *Al Jazeera (English)*, October 28, 2011
- 38. Costanza, R. 2011. Editorial: Changing the way we view humanity and the rest of nature. Solutions 2(6):1.
- 39. **Costanza**, **R.** 2011. Can nuclear power be part of the solution?: The total costs of producing nuclear power need to be re-evaluated in a more pragmatic way. *Al Jazeera (English)*, October 3, 2011.
- 40. Costanza, R. 2011. The pursuit of happiness: In Bhutan, progress is measured by how happy people are, not how much wealth people have. Al Jazeera (English), September 13, 2011.
- 41. **Costanza**, **R.**, C. Cleveland, B. Cooperstein, and I Kubiszewski. 2011. <u>Three ways to make nuclear power compete</u> on the free market. *Grist*. April 13, 2011.
- 42. Costanza, R. 2011. Nuclear energy: heeding the lessons of Japan. Oregonian, April 23, 2011.
- 43. Costanza, R. 2011. In Bhutan, pursuing happiness is a national interest. Oregonian, June 20, 2011.
- 44. **Costanza**, **R.** 2010. Herman Daly. *GAIA* 19/1: 6–7
- 45. Costanza, R. 2010. The search for real, integrative solutions. Solutions. 1 (1): 1.
- 46. Costanza, R. 2010. Envisioning a sustainable world. Solutions. 1 (1): 13. www.thesolutionsjournal.org
- 47. **Costanza**, **R.** 2010. Warum wir ölkonzerne, banken und stromwirtschaft völlig anders zur verantwortung zwingen müssen. *Geo.* August 8, 2010 pp. 74-75.
- 48. Yoskowitz, D. and R. Costanza. 2010. <u>Can CERF help find solutions?</u> Coastal and Estuarine Research Federation Newsletter. Vol 36, No. 3.
- 49. Costanza, R. 2009. Redefine Progress. Seed Magazine. April 27, 2009. Seedmagizine.com
- 50. **Costanza**, **R.** 2009. A floresta é muito mais do que suas árovres (A foresst is more than just trees). *Exame CEO* (*Brazil*). October 2009, pp. 85-94.
- 51. Costanza, R. 2008. Our three-decade recession: the American quality of life has been going downhill since 1975. Los Angeles Times. March 10, 2008.
- 52. Costanza R. 2008. A Long Term Solution to Our Financial Crisis: The Other Forms of Capital. The Oil Drum. Oct. 14, 2008.
- 53. Hawken, P., P. Barnes, **R. Costanza**, D. Orr, E. Ostrom, A. Umana, and O. Young. 2008. <u>Creating an earth atmospheric trust: a system to control climate and reduce poverty</u>. *Grist* posted Jan. 3, 2008.
- 54. Costanza, R. 2007. Protecting our common asset: the Earth. Rutland Herald, Sunday, January 14, 2007.
- 55. Hibbard, K. and R. Costanza. 2007. <u>Integrated History and future Of People on Earth (IHOPE)</u>. *PAGES News*, Vol 15, No. 1. April 2007
- 56. **Costanza, R.**, S. J. Hassol, T. Kasser, and J. G. Speth. 2007. <u>Some Convenient Truths: Scaling back our energy-hungry lifestyles means more of what matters, not less</u>. *Grist* posted Dec. 9, 2007.
- 57. Costanza, R. 2006. The real economy. Vermont Commons, No. 10, Feb. 2006, pp. 6-7.
- 58. Costanza, R. 2006. Vermont must break its addiction to fuel. Burlington Free Press. Sunday, July 23.
- 59. **Costanza**, **R.** 2005. A paradigm shift in economics: the tipping point is fast approaching. *Adbusters*, Vol. 13, #1, Jan/Feb 2005
- 60. Costanza, R. 2005. The real economy in review. Rutland (VT) Herald, Jan. 5th 2005.
- 61. Costanza, R. and R. Huggett. 2005. The sensible solution to the Asian oyster question. *Baltimore Sun*, April 28th, 2005.
- 62. **Costanza**, **R.** W. Steffen, L. Graumlich, K. Hibbard, and D. Schimel. 2005. Sustainability or collapse? Society in the 21st Century. *Global Change Newsletter*. Issue 64, Dec, 2005, pp. 19-22.

- 63. Costanza, R. 2004. Does wind energy make economic sense? Rutland (VT) Herald, April 3, 2004.
- 64. Costanza, R. 2004. The facts on wind power. Burlington Free Press, April 18, 2004
- 65. **Costanza**, **R.**, R. Boumans, and D. Sahagian. 2003. A new approach to global, dynamic modeling of integrated human in natural systems. *Global Change Newsletter*. Issue 54, June 2003, pp. 9-12
- 66. **Costanza, R.** 2002. Time for an update: when it comes time for the GDP, what counts?. *Chicago Tribune*. August 25, 2002.
- 67. Costanza, R. 2001. Insurance for the Arctic. Washington Post, Monday, December 24, 2001
- 68. Wainger, L. P. Ryan, R. Cowling, and **R. Costanza**. 1996. Ecological economics in South Africa: valuation and management of fynbos ecosystems. *Ecological Economics Bulletin*, 1 (1):12-13, 18, 20.
- 69. **Costanza, R.** 1996. The importance of envisioning in motivating change toward sustainability. *Ecological Economics Bulletin*, 1 (2): 11-13.
- 70. **Costanza**, **R.**, H. Daly, P. Hawken, and J. Woodwell. 1995. Non-partisan ecological tax reform: a win-win proposal that is economically efficient, socially equitable, and ecologically sustainable. *ISEE Newsletter*, 6:3, 8.
- 71. **Costanza**, **R.** and C. Perrings. 1994. Using market incentives to deal with environmental uncertainty. *Integrated environmental management*, 29:13-14.
- 72. **Costanza**, **R.** and L. Wainger. 1992. Developing a "green" GNP to chart the path to sustainability. *Conservation Digest*, Vol 4, Number 5.
- 73. Costanza, R. 1991. Balancing humans in the biosphere: escaping the overpopulation trap. *Calypso Log*, February 1991.
- 74. **Costanza**, **R.** and L. Wainger. 1990. No accounting for nature: how conventional economics distorts the real value of things. *Washington Post*, Sunday, September 2, 1990.
- 75. **Costanza**, **R.** et al. 1989. Solomon's Forum White Paper on Sediment and Erosion Control in the Chesapeake Bay Drainage Basin. CEPP-SF 89-01. *Coastal and Environmental Policy Program*, Chesapeake Biological Lab, University of Maryland, Solomons, MD 20688.
- 76. Costanza, R. 1986. Software Review: STELLA for the Macintosh. ISEM Newsletter, 4:10-15.
- 77. **Costanza**, **R.** 1984. Software Reviews: CONDUIT's Ecological Modeling and Ordinary Differential Equations Packages for the Apple II+ and IIe. *ISEM Newsletter*, 2:6-8.

B. Interviews and Other Press (361)

2021

Going beyond GDP. By Maria Stambler. Wärtsilä. Jan. 13, 2021.

2020

- 2. We need a positive vision to deal with climate change. Sky TV (Italy) interview. Oct. 15, 2020
- 3. So You Want To Save Humanity? Manage Nature Like A Business by David Vetter. Forbes April 30, 2020
- 4. <u>De blinde mannen en de olifant: Hoe nu verder?: Ecologisch econoom Robert Costanza.</u> By Marieke Rotman. *De Groene Amsterdammer* (Netherlands). April 22, 2020
- 5. What can literature tell us about the post-coronavirus world that lies beyond the dark mountains? By Rajat Chaudhuri. Scroll.in. April 12, 2020
- 6. Podcast: Blind Insights with David Olney and Tim Whiffen. <u>Bob Costanza @ the Sustainable Prosperity Conerence Adelaide 2020</u>. Published Feb. 24, 2020
- 7. How much is an ecosystem worth? by Tim McDonnell & Amanda Shendruk. Quartz. Jan 29, 2020

2019

- 8. 'Es tiempo de actuar' Vanguardia (Spain) Dec 4, 2019
- 9. It is high time to pay for ecosystem services. By Joydeep Gupta. India Climate Dialogue. Aug 2, 2019
- 10. Why GDP is no longer the most effective measure of economic success. By Courtney Goldsmith. *World Finance*. July 25, 2019.
- 11. The economics or marine environmental protection. World Environment (China). July 2019. Pp. 33-34.
- 12. Ecological economics. By Mohammed Abul Kalam. The Independent (India) July 22, 2019.
- 13. <u>Curing growth: A 12-step programme</u>. By Tom Kckinlay. *Otago Daily Times*. Dunedin, New Zealand, April 22, 2019.

- 14. Panda Protection Pays Off, by Niki Wilson. Natural History. Oct. 2018
- 15. Repensar en común para cuidar la atmósfera by Ángeles Fernández y Jairo Marcos. Esglobal: Política, economía e ideas sobre el mundo en español. Sept. 25, 2018
- 16. The Lonely Path to an Alternative Form of GDP Measurement, by Keya Acharya. The Wire. Sept. 16, 2018
- 17. Healing Culture Podcast with Eric Garza #23: <u>Towards an Ecological Economics</u>, with Robert Costanza, Sept 2018.

- 18. What's giant panda conservation worth? Billions every year, study shows. Cell Press. June 28, 2018.
- 19. NT's coastal and marine environments worth \$2b per year, new report finds. By Dijana Damjanovic. ABC News. June 7, 2018
- 20. The Islander editorial novel ideas for our island, by Stan Gorton. The Kangaroo Island Islander. May 17, 2018
- 21. Big Data Suggests Big Potential for Urban Farming, by Amy Crawford. CityLab. Feb 15, 2018

- 22. Leading Economists Demand that Not a Penny More Goes to Fossil Fuels. Common Deams. Dec. 7, 2017
- 23. Economics: How science got a golden ticket. By Ehsan Masood. Nature 551:297-298. Nov. 16, 2017
- 24. <u>Climate change is happening but it's not game-over yet</u>. By Ruby Russell. DW Akademie. Nov. 1, 2017.
- 25. Scenarios for the Future of Ecosystem Services. by Peter Neill, Huffington Post. Oct. 25, 2017
- 26. Belhaj-Bouabdallah, Y. 2017. Saving ourselves: Interviews with world leaders on the sustainable transition. World Scientific, London. Interview responses included on pp. 137, 196, 214, and 261.
- 27. ABC Radio Breakfast with Fran Kelly. NAB keen to value 'natural capital' June 14, 2017. https://radio.abc.net.au/programitem/pgA63llPLV?play=true
- 28. Wind, sand and speculation. By Sarah Hiddleston. *Nature Middle East*. Jan 28, 2017. http://www.natureasia.com/en/nmiddleeast/article/10.1038/nmiddleeast.2017.25
- 29. Gross Domestic Problem. Converstaion with Ida Kubiszewski and Lorenzo Fioramonti. ANU TV. Jan. 23, 2017. https://www.youtube.com/watch?v=PgumG5TWg1g
- 30. EcoBenificial. Interview with Dr. Robert Costanza on the \$ Value of Ecosystem Services. Podcast by Kim Eierman. Jan. 13, 2017. 28 min. http://www.ecobeneficial.com/audio/interview-dr-robert-costanza-value-ecosystem-services/

2016

- 31. Take back the sky. Robert Costanza: "The atmosphere is a common good to keep intact" Effemeride.it. Nov. 3, 2016. http://effemeride.it/riprendiamoci-cielo-robert-costanza-latmosfera-un-bene-comune-mantenere-integro/#
- 32. Top PI Robert Costanza: a guide to pursuing an interdisciplinary career. By Anthea Lipsett. *Research Professional*. Oct. 13, 2016
- 33. At an Ohio conference, envisioning a future without fossil fuels. By Kathiann M. Kowalski. Midwest Energy News. Oct. 13, 2016. http://midwestenergynews.com/2016/10/13/at-an-ohio-conference-envisioning-a-future-without-fossil-fuels/
- 34. The Nancy Duffy Show: No. 42: Poetry with Vanessa Shields, and the New GDP with Dr. Robert Costanza. Oct 4, 2016. Podcast: http://thenancyduffyshow.com/2016/10/04/show-no-42-poetry-with-vanessa-shields-and-the-new-gdp-with-dr-robert-costanza/
- 35. What has the concept of Ecosystem Services done for us? Taking Stock and Looking Forward. ESCOM: Ecosystem Services Community, Scotland. Oct. 17, 2016. http://escom.scot/blog/what-has-concept-ecosystem-services-done-us-taking-stock-and-looking-forward
- 36. GDP RIP? Asia and the Pacific Policy Society Forum. Sept. 26. Podcast: http://www.policyforum.net/resource/gdp-rip/
- 37. Sustainable Lens Resilience on Radio. 53 min interview with Samuel Mann. July 28, 2016. https://player.fm/series/sustainable-lens-resilience-on-radio/sustainable-lens-resilience-on-radio-28-07-2016-robert-costanza
- 38. Can You Put A Price Tag On Nature? Actually, Yes. By Jim Morrison. *The Smithsonian*. July 13, 2016. http://www.smithsonianmag.com/science-nature/can-you-put-price-tag-nature-actually-yes-180959678/?no-ist
- 39. The Case Against Using the GDP as a Measure of Economic Health. By Chris Lehmann. In These Times. June 6, 2016. http://inthesetimes.com/article/19121/the-case-against-the-gdp
- 40. National survey for national vision. *PSnews online*. April 12, 2016. http://www.psnews.com.au/aps/499/news/national-survey-for-national-vision
- 41. Economic growth vs environmental sustainability by Rama Mohana R. Turaga. *Live Mint*. April 12, 2016. http://www.livemint.com/Opinion/BPOKLclleRJvSdml46LraI/Economic-growth-vs-environmental-sustainability.html
- 42. ABC Radio National Drive. "What should life in Australia be like in 2050?" 5 min live radio interview, 6:43 PM March 31, 2016. http://www.abc.net.au/radionational/programs/drive/what-should-life-in-australia-be-like-in-2050/7289902
- 43. ABC News: "Port River and Barker Inlet of northern Adelaide given \$3 billion economic and social value" Feb 10, 2016. http://www.abc.net.au/news/2016-02-10/port-river-barker-inlet-economic-value/7153064
- 44. ABC Radio Adelaide. Mornings with Ali Clarke show. 10 minute live interview on scenario planning for Barker Inlet and Port River. Feb. 8, 2016

2015

45. Claim the sky. By Lauren McCauley. *The News International*. Dec. 24, 2015. http://www.thenews.com.pk/print/83979-Claim-the-sky

- 46. The state of the market for ecosystem services. By John C. Cannon. *Mongabay*. Dec. 20, 2015. http://news.mongabay.com/2015/12/the-state-of-the-market-for-ecosystem-services/
- 47. A different way for Trudeau to look at progress: Environmental health, child health . . . the GPI measures things that GDP never could. By Jennifer Wells. *Toronto Star*. Oct. 20, 2015. http://www.thestar.com/business/2015/10/20/a-different-way-for-trudeau-to-look-at-progress.html
- 48. A Shocking Solution to Save Coral Reefs. By Don Willmott. *Huffington Post*. Sept 29, 2015. http://www.huffingtonpost.com/x-prize-foundation/a-shocking-solution-to-sa b 8217600.html
- 49. Hammer and Tong: Engineers respond to Climate Change. Channel 25Zero RiAus TV interview. Sept 17, 2015. http://riaus.tv/videos/hammer-and-tong-engineers-respond-climate-change
- 50. Lack of Resources Could Create 50 Million Climate Migrants in Decade, Says Report. By Conor Gaffey. *Newsweek*. Sept. 15, 2015. http://europe.newsweek.com/lack-resources-could-create-50-million-climate-migrants-decade-says-report-332984
- 51. Study: Spread of Deserts Costs Trillions, Spurs Migrants. By Alister Doyle. *Reuters*, Sept. 15, 2015 http://www.voanews.com/content/study-says-spread-of-deserts-costs-trillions-and-spurs-migrants/2964528.html
- 52. The staggeringly large benefits of conserving nature. By Chris Mooney. *Washington Post.* July 13, 2015. http://www.washingtonpost.com/news/energy-environment/wp/2015/07/13/were-finally-starting-to-realize-what-nature-is-really-worth/
- 53. Climate change is killing us. We must use the law to fight it. By Richard Wilkinson and Kate Pickett. *The Guardian*. June 24, 2015. http://www.theguardian.com/commentisfree/2015/jun/24/climate-change-law-fight-claim-the-sky
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- 5. Gross Domestic Problem. Conversation with Robert Costanza, Ida Kubiszewski, and Lorenzo Fioramonti. ANU TV. Jan. 23, 2017. https://www.youtube.com/watch?v=PgumG5TWg1g 17 min.
- 6. 39th T.B. Macaulay Lecture: The UN Sustaianble development Goals and the Dynamics of Wellbeing. https://www.youtube.com/watch?v=feVrwWaGcY0&feature=youtu.be 56min.
- 7. Panel Discussion: What has the concept of ES done for us? ESCom, Scotland, Oct 18, 2016. 2 hr. https://www.youtube.com/watch?v=WRqi3gnlc1U&feature=youtu.be
- 8. Presentation at: After Fossil Fuels: The Next Economy Conference, Oberlin College October 6, 2016. 25 min. https://www.youtube.com/watch?v=-TpeL7TGadw
- 9. 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. 44 min. http://tv.cntv.cn/video/C10243/0bb6c444fa4d3ddfef9be2ad0a4e5c44
- 10. Fulfilling Lives: Worldwide Online Summit. "Sustainable Futures". May 8, 2014. 52 min. https://vimeo.com/user21516246/review/92213049/c1fd0a0180
- 11. Sustainable ecosystems and agricultural productivity. April 17, 2014. 24 min. http://loolex.com/education/robert-costanza-sustainable-ecosystems-and-agricultural-productivity.html
- 12. More than GDP: Robert Costanza on the value of ecosystem services and human wellbeing. Sept. 9, 2013. 11 min. http://www.youtube.com/watch?v=OmPJ1-ON4i0
- 13. CAUSES TV (University of the District of Columbia Cable TV). Interview with host Sabine O'Hara on Ecological Economics and other topics. Jan. 19, 2013, 28 min. http://www.youtube.com/watch?v=qn6XJYqwQ38
- 14. 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
- 15. 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
- 16. 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=QbG4LKaYFty&feature=g-crec-u
- 17. 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
- 18. 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
- 19. 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
- 20. Stockholm Resilience Center Whiteboard Seminar: "Envisioning a Sustainable Future", May 29, 2012. 7 min. http://www.stockholmresilience.org/seminarandevents/whiteboardseminars/envisioningasustainablefuture.5.76309165137811e731d4d4.html

- Stockholm Resilience Center Whiteboard Seminar: "Beyond GDP", May 29, 2012. 6 min. http://www.stockholmresilience.org/seminarandevents/whiteboardseminars/beyondgrossdomesticproduct.5.7630916 5137811e731d4bb.html
- 22. 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
- 23. Interview about EcoSummit 2012, April 12, 2012, 4 min. www.youtube.com/watch?v=qGBrnN0xszE
- 24. 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.
- 25. Reclaiming Sustainability. Interview with Robert Costanza. Portland State University, Sept. 1, 2011. 2 min: http://vimeo.com/28836890
- 26. 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=EWUIIz6deqs#!
- 27. 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
- 28. Comcast Newsmakers interview at Portland State University, May 3, 2011. 5 min: http://www.youtube.com/watch?v=0pjp0gTUZCU
- 29. Envisioning Portland State University as the Sustainable University of the Future, Feb. 8, 2011, 10 min. http://www.youtube.com/watch?v=1oZuum2Nw9I
- 30. 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
- 31. 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
- 32. Flourishing on Earth: Lessons from Ecological Economics, full lecture Yale University, June 24, 2010, 1hr, 5min: http://www.youtube.com/watch?v=PZkTlVPgqG4&feature=relmfu
- 33. Talk at 2010 Sustainability Celebration at Portland State University, May 27, 2010. 8 min http://www.youtube.com/watch?v=KCzqPf--L-4
- 34. TEDxUVM talk July 19, 2009, 14 min: http://www.youtube.com/watch?v=RaAEfERGyO8
- 35. 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
- 36. 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
- 37. 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
- 38. 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
- 39. 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
- 40. 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
- 41. 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
- 42. 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