BIOGRAPHICAL NOTES

Name: Edgar G. Hertwich	Country: Norway/Austria
Candidate for President Elect	ISIE member since: 2001

PLEASE GIVE YOUR REASONS FOR RUNNING FOR THIS POSITION (150 WORD LIMIT)

ISIE has been my professional home since I was a graduate student in the 1990s in Berkeley. ISIE is a great home, fostering solid scholarship and a high scientific standing. It is a great community to interact with. At the same time, ISIE could be more relevant for practitioners. There is a lot of professional industrial ecology activity that is happening without ISIE's involvement. The question is how we can increase the relevance of ISIE to industrial ecology practitioners without compromising the role of ISIE in being a home for scholars. Given that the void is already being filled by other groups, I think the best strategy forward is to engage in discussions with groups and loose conference series that have formed, and be inviting to those communities. We might experiment with conference and event formats to be more relevant for practitioners.

DESCRIBE YOUR CURRENT PROFESSIONAL AND/OR ACADEMIC ACTIVITIES (100 WORD LIMIT)

I am director of the NTNU Industrial Ecology program and Professor in the Department of Energy and Process Engineering of the Norwegian University of Science and Technology (NTNU). My current research addresses resource requirements and environmental trade-offs of climate change mitigation options. For assessing the impact of introducing new technology at a large scale, we have developed a global assessment model combining life cycle assessment and vintage capital structure modelling. I am also interested in the interaction of production and consumption through global supply chains and the implications for resource use.

LIST PREVIOUS PROFESSIONAL AND/OR ACADEMIC POSITIONS (100 WORD LIMIT)

Research Scholar, International Institute for Applied Systems Analysis (IIASA), Austria
PostDoc, NTNU

EDUCATION

Bachelor, Physics, Princeton University
MSc and Phd, Energy and Resources, University of California, Berkeley

AWARDS/MERITS

Laudise Medal, ISIE, 2003
Best environmental policy paper in Environmental Science & Technology, 2009, for "The Carbon Footprint of Nations"

RECENT PUBLICATIONS

EG Hertwich, T Gibon, E Bouman, A Arvesen, S Suh, G Heath, JD Bergerson, A Ramirez, MV Coloma, S Lei (2014) Integrated life cycle assessment of electricity supply scenarios confirms global environmental benefit of low-carbon technologies. *PNAS* doi: 10.1073/pnas.1312753111.

88. E Bouman, AR Ramirez, EG Hertwich (2014) Multiregional environmental comparison of fossil fuel power generation - Assessment of the contribution of fugitive emissions from conventional and unconventional fossil resources. *International Journal of Greenhouse Gas Control*, accepted for publication

R Jorge, EG Hertwich (2014) Grid infrastructure for renewable power in Europe: the environmental cost. *Energy* 69(1):760-768.

K Steen-Olsen, A Owen, EG Hertwich, M Lenzen (2014) Effects of sector aggregation on CO_2 multipliers in multiregional input–output analyses. *Economic Systems Research* 28(3): DOI:10.1080/09535314.2014.934325

M Simas, R Wood, EG Hertwich, Labor Embodied in Trade: The Role of Labor and Energy Productivity and Implications for Greenhouse Gas Emissions. *Journal of Industrial Ecology*, accepted 2014.

S Pauliuk, R Wood, EG Hertwich (2014) Dynamic Models of the Fixed Capital Stock and Their Application in Industrial Ecology. *Journal of Industrial Ecology*, DOI: 10.1111/jiec.12149.

A Arvesen, R Nes, D Huertas-Hernando, EG Hertwich (2014) Life cycle assessment of an offshore grid interconnecting wind farms and customers across the North Sea. *Int.J. Life Cycle Assess.* 19(4):826-837

B Girod, DP v. Vuuren, EG Hertwich (2014) Climate policy through changing consumption choices: Options and obstacles for reducing GHG emissions. *Global Environmental Change* 25:5-15

BM Sopha, CA Klöckner, EG Hertwich (2013) Adoption and diffusion of heating systems in Norway: Coupling agent-based modeling with empirical research. *Environmental Innovation and Societal Transitions* 8: 42-61.

EG Hertwich (2013) Addressing Biogenic Greenhouse Gas Emissions from Hydropower in LCA. *Environmental Science & Technology* 47(17): 9604-9611.

PROFESSIONAL ASSOCIATIONS (I.E. BOARD MEMBERSHIPS, PROFESSIONAL SOCIETIES, ETC)

ISIE Council, ca. 2003-4; ACS; Lead author, IPCC AR5; Member, International Resource Panel.
Past: SETAC; IIOA
Member of editorial board of ES&T, JIE and Journal of Economic Structure