# CURRICULUM VITAE

As of 05/31/2023

Name Sander Ernst VAN DER LEEUW

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Present position Emeritus Foundation Professor of Anthropology and Sustainability (from 1/1/22)

Founding Director, School of Human Evolution and Social Change

Director, ASU-SFI Center for Biosocial Complex Systems, Arizona State University

Dean Emeritus, Julie Ann Wrigley Global Institute for Sustainability, Arizona State University

European point person for global futures and networking, Arizona State University

Languages Dutch, English, French, German, Spanish

**Education and qualifications**

1957-1963 Secondary education:

Montessori Lyceum, Amsterdam

('Gymnasium B': Latin, Greek, English, French, German, Dutch, Geography, Biology, Algebra, Trigonometry, Solid geometry, Analytical Geometry, Calculus).

1963-1964 Fulbright Exchange Studentship:

University of Arizona, Tucson, AZ, U.S.A.

(Courses taken in Cultural Anthropology,, Archaeology, History, Spanish and some other subjects)

1964-1968 Kandidaatsexamen (equivalent to B.A.)

University of Amsterdam

History, with minors (optional subjects) in prehistory and 16th century Spanish (on documents relating to the conquest of the Americas)

1968-1972 Doctoraalexamen (equivalent to ABD/M.Litt))

University of Amsterdam

Double degree programme in:

\* Medieval history (coursework and minors (optional subjects) in Medieval Archaeology and Modern History)

\* Prehistory (coursework, thesis and minors in Medieval History and Medieval Archaeology), cum laude

1972-1976 Doctor of Philosophy

University of Amsterdam

Thesis: "Studies in the Technology of Ancient Pottery", Amsterdam, 2 vols.

1976-1977 Fulbright Post-Doctoral Research Fellow

Department of Anthropology, University of Michigan, Ann Arbor, U.S.A.

Research in Anthropology and Archaeology (Economic Anthropology, Ecology, Systems approaches).

1990 Master of Arts

Cambridge University

**Employment**

1969-1972 University of Amsterdam, Graduate Research Assistant.

1972-1976 University of Leiden/Netherlands Organisation for the Advancement of Pure Research (ZWO), Co-investigator in a project researching the technology of ancient pottery in the Euphrates Valley, NW Syria.

1976-1985 University of Amsterdam, Assistant Lecturer and Lecturer ('Wetenschappelijk Medewerker I'), from 1981 with tenure.

1985-1988 Assistant Lecturer, Cambridge University.

1988-1995 Lecturer, Cambridge University (since 1991 with tenure)

1995-2009 Professor in the “Archaeology and History of Techniques” at the Université de Paris I (Panthéon-Sorbonne) (on secondment from 2004)

2002-2007 Chair in Archaeology, Institut Universitaire de France, Paris, France

2004-2011 Professor of Anthropology and (Founding) Director of the School of Human Evolution & Social Change, Arizona State University, Tempe, AZ USA

2009-2021 Director Complex Adaptive Systems Initiative, Arizona State University

2010-2021 Foundation Professor of Anthropology at Arizona State University

2010-2013 Dean, ASU School of Sustainability

2013-2021 (Foundation) Professor of Anthropology and Sustainability, Arizona State University

2014-2021 Director, ASU-SFI Center for Biosocial Complex Systems

2022- Emeritus professor, Arizona Steate University

**Courtesy positions, memberships, etc.**

1983-1994 Member, New York Academy of Sciences, U.S.A.

1991-1995, 2007- Member, American Association for the Advancement of Science, U.S.A.

1992-1996 Chercheur Associé, UPR 7520 of the Centre National de la Recherche Scientifique

1997-1998 Member, EP 1730 of the Centre National de la Recherche Scientifique

2000–2004 Member, UMR 7041 of the Centre National de la Recherche Scientifique and director (2000-2004) of its ‘Environmental Archaeology’ research team.

2001–2003 Secretary General, *Conseil national de coordination des Sciences de l’Homme et de la Société,* Paris

2003–2004 Deputy Director, *Institut national des Sciences de l’Univers*, Paris, France

2014–2018 Foreign Member, Conseil Scientifique of the *Centre national de la Recherche Scientifique* (CNRS), Paris, France

2016 Member, Visiting Committee, *Centre national de la Recherche Scientifique* (CNRS)

2018–2019 Member, HCERES evaluation committee for the *Institut national de la recherche en archéologie préventive,* Paris, France

**Scholarships, honors**

1963-1964 I.I.E./Fulbright Undergraduate Scholarship for study at the University of Arizona, Tucson.

1976-1977 Fulbright Postdoctoral Research Scholarship for research at the University of Michigan, Ann Arbor.

1976-1977 University of Michigan, Ann Arbor, Adjunct Assistant Research Scientist, Department of Anthropology

1981-1982 Honorary Member, Department of Archaeology, Reading University, Reading, U.K.

1982-1985 Associate in Research, Museum of Anthropology, University of Michigan, Ann Arbor, U.S.A.

1982-1988 Research Associate, Department of Anthropology, University of Alabama, Tuscaloosa, AL, U.S.A.

1984 Visiting Fellow, Department of Prehistory, Research School of Pacific Studies, Australian National University, Canberra, A.C.T., Australia

1987 Visiting Lecturer, University of Massachussetts, Amherst

1988 Distinguished Visiting Lecturer, Université de Paris I (Panthéon-Sorbonne)

1986-1996 Fellow, Fitzwilliam College, Cambridge

1988-1992 Fellow, Royal Anthropological Institute (UK)

1994-2000 Fellow, McDonald Institute for Archaeological Research, Cambridge University

1995- Corresponding Member, Royal Netherlands Academy of Arts and Sciences

1999-2000 Visiting Professor, Santa Fe Institute, Santa Fe, New Mexico, U.S.A.

1999–2000 Visiting Professor, Department of Anthropology, Arizona State University, Tempe, AZ, USA.

2000–2019 External Professor of the Santa Fe Institute, Santa Fe, New Mexico, U.S.A.

2002-2003 Marion R. & Adolph J. Lichtstern Distinguished Research Scholar, University of Chicago, USA.

2002–2006 Chair of Archaeology, *Institut universitaire de France,* Paris

2009 Visiting Professor, University of Modena and Reggio Emilia, Italy

2012 UNEP Champion of the Earth for Science and Innovation

2013 Visiting Professor, Research Institute for Humanity and Nature, Kyoto, Japan

2013 – 2016 Visiting Professor, Beijing Normal University

2013 – 2017 Distinguished Guest Professor at the Center for Human and Environment System Sustainability (CHESS), Beijing Normal University (BNU)

2014 – 2016 Honorary Professor, Faculty of Management, University of Johannesburg

2014 – 2021 Distinguished Sustainability Scientist, Arizona State University

2015 – Fellow, Global Climate Forum, Berlin, Germany

2016 Visiting Fellow, Institut Méditeranéen de Recherche Avancée, Aix-Marseille Université

2016 Invited Scholar, Research Institute for Humanity and Nature, Kyoto, Japan

2016 – Fellow, European Center for Living Technology, Università Ca’Foscari, Venice

2016 – 2018 Gastwissenschaftler at the Center for Global Sustainability and Cultural Transformation (CGSC), Leuphana Universität Lüneburg, Germany

2016 – Director Emeritus, Julie Ann Wrigley Global Institute for Sustainability, Arizona State University

2017 – 2018 Senior Fellow, Institute for Advanced Studies in Sustainability, Potsdam, Germany

2017 – Associate Senior Research Scholar, International Institute for Applied Systems Analysis, Laxenburg, Austria

2018 – Member, External Faculty, Complexity Science Hub, Vienna, Austria

2018 ­–  International Expert for the China Council for International Cooperation on Environment and Development’s Special Policy Study (SPS) on Green Urbanization: Strategy and Pathways Towards Regional Integrated Development.

2018 Albert Nelson Marquis Lifetime Achievement Award

2019 – Sigma Xi, ASU Chapter

2020 – External Faculty Fellow, Santa Fe Institute

2019 Visiting Fellow, Yukawa Institute for Theoretical Physics, Kyoto University

2019 – Honorary Fellow, Research Institute for Humanity and Nature, Kyoto

2020 – Fellow, Beijer Institute of Environmental Economics, Royal Swedish Academy of Sciences

2020 – Fellow, American Association for the Advancemen of Science

**Research interests**

Archaeology of the later Holocene; Ancient and Modern Human-Environment Relationships; Sustainability; Innovation; Complex Systems Approaches; History and Archaeology of Techniques; Urbanization and Urban Dynamics

**Bibliography**

**Books**

1.01 1976 **van der Leeuw, S.E.** *Studies in the Technology of Ancient Pottery,* Amsterdam: University Printing Office, 2 vols.

1.02 1981 **van der Leeuw, S.E.** (ed.) *Archaeological Approaches to the Study of Complexity* Amsterdam: University Printing Office (Cingula VI).

1.03 1984 **van der Leeuw, S.E.**& A.C. Pritchard (eds.) *The Many Dimensions of Pottery: Ceramics in Archaeology and Anthropology,* Amsterdam: University Printing Office (Cingula VII).

1.04 1985 **van der Leeuw, S.E.**(ed.) *Raakvlakken: Bijdragen aan een studiedag archeologie/anthropologie*, Amsterdam: Institute for Prehistory

1.05 1986 Brandt, R.W., **S.E.van der Leeuw** & M.J.A.N. Kooijman (eds.) *Gedacht over Assendelft,* Amsterdam: Institute for Prehistory (IPP Working Paper 6).

1.06 1987 W. Groenman -van Waateringe, R.W. Brandt, & **S.E. van der Leeuw** (eds.), *Assendelver Polder Papers, vol I*, Amsterdam: University Printing Office (Cingula X).

1.07 1989 **van der Leeuw, S.E.**andR. Torrence (eds.). *What's New? A closer look at the process of innovation.* London: Hyman & Unwin.

1.08 1990 Fiches, J.-L. & **S.E.van der Leeuw** (eds.) *Archeologie et Espaces*, Antibes: Editions A.P.C.D.A. (Actes du Xe Colloque international d'archéologie et d'histoire d'Antibes).

1.09 1993 Brun, P., **S.E. van der Leeuw** & C.R. Whittaker (eds.) *Frontières d'Empire, Nature et signification des frontières romaines,* Nemours: Editions A.P.R.A.I.F.

1.10 1995 **van der Leeuw, S.E.**(ed.). *L'Homme et la dégradation de l'environnement*. Antibes : APDCA (Actes du XVe Colloque international d'archéologie et d'histoire d'Antibes).

1.11 1997 **van der Leeuw, S.E.** & J. McGlade (eds.), *Archaeology: Time, Process and Structural Transformations* Routledge's, London.

1.12 1998 Pumain, D., **S.E. van der Leeuw** *et al*.) *Des* Oppida *aux métropoles* Paris : Anthropos (Collection Villes).

1.13 1998 **van der Leeuw, S.E.** (ed.), *The Archaeomedes Project - Understanding the natural and anthropogenic causes of land degradation and desertification in the Mediterranean.* Luxemburg: Office for Official Publications of the European Union

1.14 2003 **van der Leeuw, S.E.,** F. Favory & J.-L. Fiches (eds.) *Archéologie et systèmes socio-environnementaux: études multiscalaires sur la vallée du Rhône dans le programme ARCHAEOMEDES* Valbonne : CNRS (Monographies du CRA).

1.15 2003 C. Lévèque & **S.E. van der Leeuw** (eds.), *Quelles natures voulons nous ? Pour une approche socio-écologique du champ de l’environnement*. Paris: Elsevier

1.16 2007 T. Kohler & **S.E. van der Leeuw** (eds.), *The Model-Based Archaeology of Socio-natural Systems*, Santa Fe, NM: School of Advanced Research

1.17 2009 Lane, D., **S.E. van der Leeuw**, D. Pumain, & G. West (eds.) *Complexity Perspectives on Innovation and Social Change* Berlin: Springer (Methodos series).

1.18 2016 F. Favory & **S.E. van der Leeuw**, (eds.) *Voyage dans l’archéologie spatiale anglo-saxonne* (translations of founding articles in anglo-saxon spatial archaeology), Besançon: Presses Universitaires de Franche-Comté.

1.192019 **van der Leeuw, S.E.**, *Social Sustainability, Past and Future:  Undoing Unintended Consequences for the Earth’s Survival*, Cambridge University Press, ISBN 978-1-108-49869-2 (Hardback) DOI: 10.1017/9781108595247;

1.20 2021 Collective: *Buying Time for Climate Action: Exploring Ways around Stumbling Blocks* (J.-W. Vasbinder and J. Sim, eds.), Singapore: World Scientific Publishers

**Brochure**

1.21 1997 **van der Leeuw, S.E.** *International Conference on Mediterranean Desertification: Research Results and Policy Implications*. Official Publications Office of the Commission of the European Communities, Luxemburg.

**Special issue in journal**

1.22 1999 **van der Leeuw, S.E.** & S. Thiébault (eds.). “Environnement et archéologie. Dossier à propos des ‘Assises nationales de l’archéologie environnementale’”, *Nouvelles de l’Archéologie*, 78, (1999-4), pp. 5-35

**Interviews**

1.23 2012 Sander van der Leeuw – UN Champion of the Earth Laureate 2012, available as https://www.youtube.com/watch?v=W2-bDb7n\_wc

1.24 2018 **van der Leeuw, S.E.** “The Material Order” Discussion with Daniel Niles, *Technosphere Magazine* (Haus der Kulturen der Welt), [https://technosphere-magazine.hkw.de/p/1a7e1f30-1d5c-11e8-8ba1-6dd0ffbf8f6a](https://urldefense.proofpoint.com/v2/url?u=https-3A__technosphere-2Dmagazine.hkw.de_p_1a7e1f30-2D1d5c-2D11e8-2D8ba1-2D6dd0ffbf8f6a&d=DwMF-g&c=l45AxH-kUV29SRQusp9vYR0n1GycN4_2jInuKy6zbqQ&r=UWPigSvkvSyYNeKQ6Zx14gD2NlqROZW053gjITyXHds&m=J2HD5Gb6mCcwkRXeLj7x8rTx-3aGan18S1enPlsrl5w&s=bmLKJdQd8WB31iOhz0ax7ClP7ohTY5LRz8aDqmSsjHc&e=)

1.25 2019 **van der Leeuw, S.E.** “What is the core idea of the Global Sustainability Science Forum?” Interview recorded by the Institute for Advanced Sustainability Science, March 7, available on UTube

**Full-length video lectures and presentations**

1.26 2009 **van der Leeuw, S.E.** “The Archaeology of Innovation”, lecture presented at the “Long Now” Foundation, San Francisco, November, <http://longnow.org/seminars/02009/nov/18/long-and-short-it/>

1.27 2013 **van der Leeuw, S.E.** “Resilience and Sustainability: Science and Policy”, lecture presented as part of the Foresight Week at Nanyang Technological University, Singapore, accessible on YouTube

1.28 2013 **van der Leeuw, S.E.** “Complex Systems Theory”, Lecture presented as part of the “More is Different” symposium at Nanyang Technological University, Singapore, accessible on YouTube

1.29 2013 **van der Leeuw, S.E.** “Communicating sustainability: Sander van der Leeuw explains why scientists need to be able to create narratives in order to better engage”. INSITE - April 2013. Available on YouTube

1.30 2015 **van der Leeuw, S.E.** "Invention and innovation: the long term", Invited lecture, The Waterloo Complexity Institute, 2015, <https://vimeo.com/117926157>

1.31 2015 **van der Leeuw, S.E.** “Resilient Cities – La resilience des villes” Lecture at the Université Paris Est – Marne la Vallée. Available at: <http://podcast.u-pem.fr/videos/?video=MEDIA151203164615239>

# 1.32 2015 van der Leeuw, S.E. “Learning from the Past for the Future: Where Can ICT Contribute?” Lecture at the Center for Games and Impact, Arizona State University, November 14, Available at: https://gamesandimpact.org/video/learning-from-the-past-for-the-future/

1.33 2016 **van der Leeuw, S.E.** “Complex Systems Theory, Sustainability and Innovation”, Julie Ann Wrigley Lecture presented at the Global Institute of Sustainability, Arizona State University, accessible on YouTube

1.34 2016 **van der Leeuw, S.E.** “Landscape Archaeology and Sustainability: transforming our vision of the past into a vision for the future”, Lecture at the Institut Méditerranéen de Recherches Avancées, June 9. Available at https://www.youtube.com/watch?v=vjWaKG6fr4Q

1.35 2017 **van der Leeuw, S.E.** “The Evolution of Innovation: Now the long version”, lecture presented as part of the series “The Chronicles of Evolution” organized by the Para Limes Institute, Nanyang Technological University, Singapore, accessible on YouTube

### 1.36 2017 van der Leeuw, S.E., "Pourquoi des modèles ? Why model?" May 12, 2017, Available on: https://unspod.unice.fr/video/5049-sander-van-der-leeuw-pourquoi-des-modeles-why-model/

1.37 2019 **van der Leeuw, S.E.** “The information revolution in human systems”University of Exeter Lovelock Centenary Conference, July 28, plenary session 3: Sensing Global Systems. Accessible on YouTube

**Papers in print**

2.1 1970 **van der Leeuw, S.E. “**De Vikingen in de Lage Landen*”* (The Vikings in the Low Countries), *Working Paper l, I.P.P.,* University of Amsterdam (author or co-author of contributions on pp. 73-79, 101-103, 107-113, 114-135, 139-143).

2.2 1971 **van der Leeuw, S.E. &** H.H. van Regteren Altena, “Beknopt verslag van het Oudheidkundig Bodemonderzoek in de Nicolaikerk te Utrecht” (Condensed Report on the Excavations in the Nicolaichurch in Utrecht), in: *Restauratie vijf hervormde kerken in de binnenstad van Utrecht, jaarverslag 1969-1970*, pp. 33-46

2.3 1974 **van der Leeuw, S.E. “**The methodological debate in archaeology: fundamental questions, scientific procedure and archaeological research. A review article”. *Helinium* 14, pp. 174-185.

2.4 1974 **van der Leeuw, S.E. “**Sondages a Ta'as, Hadidi et Jebel Aruda”, in: *Antiquités de l'Euphrate*, Aleppo, pp. 76-82.

2.5 1975 **van der Leeuw, S.E. “**Medieval pottery from Haarlem: a model”, in: *Rotterdam Papers*  (J.G.N. Renaud, ed.), II, Rotterdam, pp. 67-87.

2.6 1976 **van der Leeuw, S.E., “**Neolithic Beakers from the Netherlands: the potter's point of view”, in: *Glocken-bechersymposium Oberried 1974*  (J.N. Lanting and J.D. van der Waals, eds.), Haarlem, pp. 81-140.

2.7 1977 **van der Leeuw, S.E., “**Towards a study of the economics of pottery making”, in: *Ex Horreo* (B.L. van Beek, R.W. Brandt and W. Groenman-van Waateringe, eds.), Amsterdam, pp. 68-76.

2.8 1979 **van der Leeuw, S.E. “**Nieuwe ontwikkelingen in de Archeologie” (New developments in Archaeology), *Intermediair*  (with A. Voorrips).

2.9 1979 **van der Leeuw, S.E.** “Artefactenonderzoek” (Artefact Research), *Intermediair.*

2.10 1979 **van der Leeuw, S.E., “**De technologische aspecten van het aardewerk uit de Haarlemse oven” (The technological aspects of the pottery from the Haarlem kiln), *Haarlems Bodemonderzoek*, 10, pp. 55-126.

2.11 1980 **van der Leeuw, S.E.** “Vervaardiging van prehistorisch aardewerk, een voorbeeld van materiaalstudie” (Manufacture of prehistoric pottery, an example of research in materials technology), in: *Voltooid Verleden Tijd*  (H.T. Waterbolk and M. Chamalaun, eds.), Amsterdam, pp. 103-112.

2.12 1980 **van der Leeuw, S.E. &** A. Voorrips) “Moderne ontwikkelingen in de archeologie” (Modern developments in Archaeology), in: *Voltooid Verleden Tijd*  (H.T. Waterbolk and M. Chamalaun, eds.), Amsterdam, pp. 213-228.

2.13 1980 **van der Leeuw, S.E. “**Keramikproduktion und Keramikhandel. Methodologische Probleme Ihrer Erforschung”, *Luebecker Schriften zur Archaeologie und Kulturgeschichte,* 4, pp. 185-206.

2.14 1981 **van der Leeuw, S.E. “**Information flows, flow structures and the explanation of change in human institutions”, in: *Archaeological Approaches to the Study of Complexity*  (S.E. van der Leeuw, ed.), Amsterdam, pp. 230-329.

2.15 1981 **van der Leeuw, S.E. “**Ceramic Exchange and Manufacture: a 'flow structure' approach”, in: *Production and Distribution: a Ceramic Viewpoint* (H. Howard & E. Morris, eds.), BAR, International Series, 120, pp. 361-385.

2.16 1981 **van der Leeuw, S.E. “**Preliminary Report on the analysis of Moundville Phase ceramic technology”, *Bulletin of the Southeastern Archaeological Conference*, 24, pp. 105-108.

2.17 1982 **van der Leeuw, S.E. “**How objective can we become: some reflections on the relationship between the archaeologist, his data and his interpretations”, in: *Theory and Explanation in Archaeology*  (A.C. Renfrew, M.J. Rowlands and B. A. Segraves, eds.), New York, pp.431-457.

2.18 1983 **van der Leeuw, S.E. “**Analysis of Moundville Phase Ceramic Technology”, in: *Prehistoric Agricultural Communities in West-Central Alabama,* vol. II (Studies of the material remains from the Lubbub Creek Archaeological Locality), (C.S. Peebles, ed.), Ann Arbor, pp. 123-132.

2.19 1983 **van der Leeuw, S.E. “**Pottery distribution systems in Roman Northwestern Europe and on Contemporary Negros, Philippines”, *Archaeological Review from Cambridge*, 2(2), pp. 37-47.

2.20 1983 **van der Leeuw, S.E. “**Acculturation as information processing”, in: *Roman and Native in the Low Countries*  (R.W. Brandt & J. Slofstra, eds.), BAR, International Series, 184, pp. 11-41.

2.21 1984 **van der Leeuw, S.E. “**Pottery manufacture: some complications for the study of trade”, in: *Pots and Potters: current approaches in ceramic archaeology*  (P.M.Rice, ed.), Monograph of the Institute of Archaeology, University of California at Los Angeles, pp. 55-69.

2.22 1984 Brandt, R.W., **S.E.** **van der Leeuw,** & L.H. van Wijngaarden-Bakker, “Transformations in a dutch estuary: research in a wet landscape”, *World Archaeology,* 16(1), pp. 1-17 .

2.23 1984 **van der Leeuw, S.E. “**Manufacture, trade and use of pottery on Negros, Philippines”, in: *Earthenware in Asia and Africa*  (J. Picton, ed.), Colloquies on Art and Archaeology in Asia, 12, Percival David Foundation of Chinese Art, London, pp. 326-364.

2.24 1984 **van der Leeuw, S.E.** & A.C. Pritchard**, “**Introduction: the many dimensions of pottery”, in: *The Many Dimensions of Pottery: Ceramics in Archaeology and Anthropology* (S.E. van der Leeuw and A.C. Pritchard, eds.), Amsterdam, pp. 1-23.

2.25 1984 **van der Leeuw, S.E.,** “Dust to dust: a transformational view of the ceramic cycle”, in: *The Many Dimensions of Pottery: Ceramics in Archaeology and Anthropology*  (S.E. van der Leeuw and A.C. Pritchard, eds.), Amsterdam, pp. 707-773.

2.26 1985 **van der Leeuw, S.E.,** “Social stratification, anthropological models and archaeological (re)search”, in: *Raakvlakken: Bijdragen aan een studiedag archeologie/anthropologie* (S.E. van der Leeuw, ed.), Amsterdam, pp. 15-35.

2.27 1986 **van der Leeuw, S.E.,** “Cognitive aspects of 'structuration': some personal impressions”, in: *Gedacht over Assendelft,* (R.W. Brandt, S.E.van der Leeuw and M.J.A.N. Kooijman, eds.), Amsterdam (IPP Working Paper 6), pp. 77-86.

2.28 1986 **van der Leeuw, S.E.,** “Een voorbeeld van het gebruik van ethno-archaeologische analogie” (an example of the use of ethno-archaeological analogy), in: *Te rade gaan bij die the weten*  (R.M.A. Bedaux et al., eds.), Utrecht, pp. 93-105.

2.29 1986 **van der Leeuw, S.E.,** “On settling down and becoming a 'big-man'”, in: *Private Politics: a multi-disciplinary approach to 'Big-Man' systems*  (M.A. van Bakel, R.R. Hagesteijn and P. van de Velde, eds.), Leiden, pp. 33-47.

2.30 1987 W. Groenman-van Waateringe, W., R.W. Brandt & **S.E. van der Leeuw**, “Outline of the Project and first results”, in: *Assendelver Polder Papers*, vol I (R.W. Brandt, W. Groenman-van Waateringe and S.E. van der Leeuw, eds.), Amsterdam, pp. 1-21.

2.31 1987 **van der Leeuw, S.E.,** T. Spruijt & V. Shelton-Bunn, “Preliminary Report on the Ceramic Analysis”, in: *Assendelver Polder Papers*, vol I (R.W. Brandt, W.Groenman- van Waateringe and S.E. van der Leeuw, eds.), Amsterdam, pp. 225-264.

2.32 1987 R.W. Brandt & **S.E. van der Leeuw**, “Conclusions”, in: *Assendelver Polder Papers*, vol I (R.W. Brandt, W. Groenman -van Waateringe and S.E. van der Leeuw, eds., Amsterdam, pp. 339-352.

2.33 1987 **van der Leeuw, S.E.,** The Assendelver Polders of the Netherlands and a Wet Perspective on the European Iron Age, in: *The European Wetlands in Prehistory*  (J.M. Coles and A.J. Lawson, eds.), Oxford, pp. 203-225.

2.34 1987 **van der Leeuw, S.E.,** “Revolutions Revisited”, in: *Studies in the Neolithic and Urban Revolutions*  (L. Manzanilla, ed.), BAR, International Series 349, pp. 217-243.

2.35 1988 **van der Leeuw, S.E. &** R.W. Brandt "Research design and Wet Site Archaeology in the Netherlands: an example". In: *Wet Site Archaeology* , (B. Purdy, ed.) Telford Press, pp. 153-176.

2.36 1988 **van der Leeuw, S.E.,** “Las revoluciones revisadas nuevamente”, in: *Coloquio V. Gordon Childe* (L. Manzanilla, ed.), Mexico, pp. 235-264.

2.37 1988 **van der Leeuw, S.E.,** “Ceramics: the mastery of clay”, in: *The Times Atlas of Archaeology*, (C. Scarre, ed.) London: Times Books, pp. 100-101

2.38 1989 (**van der Leeuw, S.E.,** & R. Torrence) “Introduction: What's new about innovation?” In:*What's new? A closer look at the process of Innovation*  (S.E. van der Leeuw & R.Torrence, eds.), London: Unwin Hyman, pp. 1-15

2.39 1989 **van der Leeuw, S.E.,** “Risk, Perception, Innovation”, in: *What's new? A closer look at he process of innovation* (S.E.van der Leeuw & R. Torrence, eds.), London: Unwin Hyman, pp. 300-329.

2.40 1990 **van der Leeuw, S.E.,** “Archaeology, Material Culture and Innovation”. *SubStance* 62-63, pp. 92-109.

2.41 1990 Fiches, J.L. & **S.E.** **van der Leeuw, “**De la structuration et de l'analyse spatiales aux processus historiques”, in: *Archeologie et Espaces* (J.L.Fiches &S.E. van der Leeuw, eds.), Antibes: A.P.C.D.A., pp. 503-512.

2.42 1990 **van der Leeuw, S.E.,** "Rythmes temporels, espaces naturels et espaces vécus", in: *Archeologie et Espaces*  (J.L. Fiches & S.E. van der Leeuw, eds.), Antibes: A.P.C.D.A., pp. 299-346.

2.43 1991 **van der Leeuw, S.E.,** "Variation, Variability and Explanation in Pottery Studies", in: *Ceramic Ethnoarchaeology* (W.A. Longacre, ed.), Tucson: University of Arizona Press, pp. 3-39. [2nd ed. 2022]

2.441992 **van der Leeuw, S.E.,** D.A. Papousek & A. Coudart, "Technological traditions and unquestioned assumptions", *Techniques et Culture* 16-17 (1991), 145-173.

2.45 1992 **van der Leeuw, S.E.,** & D.A. Papousek "Tradition and innovation", in *"Ethnoarchéologie: Justification, Problèmes, Limites"* (F. Audouze, A. Gallay et V. Roux, eds.), Antibes: A.P.D.C.A., pp. 135-158.

2.46 1993 **van der Leeuw, S.E.,** & J. McGlade "Information, Cohérence et Dynamiques urbaines", in *Temporalités Urbaines* (B. Lepetit & D. Pumain, eds.), Paris: Anthropos/Economica, pp. 195-245.

2.47 1993 **van der Leeuw, S.E.,** "Giving the potter a choice: conceptual aspects of pottery techniques." in: *Technological Choices: transformation in Material culture from the Neolithic to modern high tech*  (P. Lemonnier, ed.). London: Routledge Kegan Paul, pp. 238-88.

2.48 1993 **van der Leeuw, S.E.,** "Decision-making in the Roman Empire during the Republic", in *Frontières d'Empire, Nature et signification des frontières romaines,* (P. Brun, S.E. van der Leeuw & C.R. Whittaker, eds.) Nemours: Editions A.P.R.A.I.F., pp. 65-93

2.49 1993 Brun, P., **S.E.** **van der Leeuw,** & C.R. Whittaker**, “**Introduction”, in *Frontières d'Empire, Nature et signification des frontières romaines,* (P. Brun, S.E. van der Leeuw & C.R. Whittaker, eds.) Nemours: Editions A.P.R.A.I.F., pp. 9-12.

2.50 1994 **van der Leeuw, S.E.,** "Cognitive aspects of technique", in: *The Ancient Mind* (A.C. Renfrew & E. Zubrow, eds.), Cambridge: Cambridge University Press, PP. 135-142.

2.51 1994 **van der Leeuw, S.E.,** "Social and environmental change", *Cambridge Journal of Archaeology,* vol. **4**, 130-139

2.52 1994 **van der Leeuw, S.E.,** "The pottery from a Middle-Uruk dump at Tepe Sharafabad, Iran: A technological study", in *Terre Cuite et Société* (D. Binder, ed.), Antibes: A.P.C.D.A. , pp. 269-301.

2.53 1994 **van der Leeuw, S.E.,** “Whispers from the context of real life: towards pluriformity in Archaeology”, *Archaeological Dialogues*, **2**, 133-164.

2.54 1994 (*et al*.).— L'Habitat rural romain en basse vallée du Rhône : de l'utilisation de la télédétection et des S.I.G. en archéologie. *Nouvelles de l'Archéologie* 57 : 46-50.

2.55 1994 **van der Leeuw, S.E.,** “Innovation et tradition chez les potiers mexicains ou comment les gestes techniques traduisent les dynamiques d'une société”. *In*: B. Latour & P. Lemonnier (sous la direction de), *Intelligence Sociale des Techniques. Des Babouins aux missiles de croisière*, pp. 310-328. Paris : Editions La Découverte.

2.56 1994 van der Leeuw, S.E., La dynamique des innovations. *Alliages* 21 (*Penser la technique* ) : 28-42.

2.57 1995 van der Leeuw, S.E., "Social and natural aspects of degradation", in *Proceedings of the Summer School "Desertification in a European Context"*, pp. 57-76 Brussels: Commission of the European Communities.

2.58 1995 **van der Leeuw, S.E.,** M. Lemon & R. Seaton, "Agricultural Policy and Desertification: a case study of the Argolid", in *Proceedings of the Summer School "Desertification in a European Context"*, pp. 197-212, Brussels: Commission of the European Communities.

2.59 1995 **van der Leeuw, S.E.,** Conclusions : dégradation de l'environnement et recherches multidisciplinaires, in *L'Homme et la dégradation de l'environnement*, pp. 430-451, Antibes : APDCA (Actes du XVe Colloque international d'archéologie et d'histoire d'Antibes).

2.60 1997 **van der Leeuw, S.E.,** & J. McGlade, "Structural change and bifurcation in urban evolution: a non-linear dynamical perspective". in: *Archaeology: Time, Process and Structural Transformations* (ed., with J. McGlade), pp. 331-372, London : Routledge.

2.61 1997 McGlade, J. & **S.E.** **van der Leeuw,** "Archaeology and nonlinear dynamics: new approaches to long-term change", in *Archaeology: Time, Process and Structural Transformations* (ed., with J. McGlade), pp. 1-31, London : Routledge.

2.62 1997 **van der Leeuw, S.E.,** “ Crise environnementale et temporalités ”, in: *Les Temporalités de l’Environnement* (Proceedings, Colloque PIREVS, Toulouse, Nov. 5-7, 1997)*,* vol 2., pp. 383-392, Toulouse: CNRS.

2.63 1998 **van der Leeuw, S.E.,** ARCHAEOMEDES: désertification et dégradation des terres en Europe, *Aménagement et Nature*, 129 (juin), 79-86

2.64 1998 **van der Leeuw, S.E.,** “Exchange and trade in ceramics: some notes from the potter’s point of view?” in *Proceedings of the international symposium on trade in pottery in ancient Greece* (J. Crielaard, ed.)”, Amsterdam, pp. 1-21

2.65 1998 Favory, F., & **van der Leeuw, S.E.,** "Archaeomedes, une recherche collective sur la dynamique spatio-temporelle de l'habitat antique dans la vallée du Rhône: bilan et perspectives", *Revue Archéologique de Narbonnaise*, 17, 33-56

2.66 1998 **van der Leeuw, S.E.,** “La nature serait-elle d'origine culturelle ? Histoire, archéologie, sciences naturelles et environnement”, in *La Culture est-elle naturelle ? Histoire, Épistémologie et Applications récentes du Concept de Culture* (A. Ducros, J. Ducros, F. Joulian eds.), pp. 83-98 Paris: Errance.

2.67 1998 **van der Leeuw, S.E.,** ARCHAEOMEDES: la longue durée et l’étude socio-environnementale de la dégradation, *Nature-Sciences-Sociétés*, 6(4), 53-58.

2.68 1999 Servain-Courant, S., S. Green & **S.E. van der Leeuw** "Evolution des activités agricoles et impacts sur les formations végétales dans la plaine de Doliana (Epire, Grèce)" Proceedings of the Workshop *"Principes écologiques de gestion des paysages agraires"*, Paris: CNRS.

2.69 1999 **van der Leeuw, S.E.,** “Degradation and desertification: some lessons from the long-term perspective” in *Desertification and Land Degradation in a European context: research results and political implications* , (P. Balabanis, D. Peter, A. Ghazi & M. Tsegas, eds.), Vol. 1, Luxemburg: Publications of the European Commission., pp. 17-31

2.70 1999 **van der Leeuw, S.E.** & S. Thiébault. 1999. Introduction au Dossier ‘Environnement et Archéologie’, *Nouvelles de l’Archéologie,* 78 (1999-4), pp. 5-6.

2.71 1999 **van der Leeuw, S.E.**, G. Chouquer & A. Tabbagh. 1999. La contribution de l’archéologie à l’étude géographique des sociétés anciennes, *Nouvelles de l’Archéologie*, 78 (1999-4), pp. 6-8.

2.72 2000 **van der Leeuw, S.E.,** “Land degradation as a socio-natural process”, *in  “The way the wind blows: Climate, History and human perception*” (R. McIntosh & J. Tainter, eds.), New York: Columbia University Press, pp. 364-393.

2.73 2000 **van der Leeuw, S.E.,** “Making tools from stone and clay”, in*: Australian Archaeologist. Collected Papers in honour of J. Allen* (T. Murray and A. Anderson, eds.), Canberra: ANU Press, pp. 69-88

2.74 2000 **van der Leeuw, S.E.,** “Drylands present and past: Searching for the causes and consequences of desertification, land degradation and land abandonment on the northern mediterranean shores”, in *the Archaeology of Drylands* : *Living on the Margins* (G. Barker and D. Gilbertson, eds.), London: Routledge, pp. 336-353

2.75 2000 **van der Leeuw, S.E.,** F. Favory & Th. Odiot, “ Etude plurimillénaire des rapports société-milieu dans la vallée du Rhône ”, *Géomètre* 5, may 2000, pp. 42-44.

2.76 2000 **van der Leeuw, S.E.,** “Some potential problems with the implementation of Annex IV of the UN Convention to Combat Desertification”, in: *Desertification in Europe: Mitigation Strategies, Land Use And Planning* (G. Enne, Ch. Zanolla & D. Peter, eds.), Luxemburg: Official Publications Office of the European Union, pp. 249-262.

2.77 2000. M. Lemon, M., & **S.E. van der Leeuw**, The role of social enquiry in the structuring of environmental issues: water degradation in the Argolid valley, Greece. *In*: *Indicators for assessing desertification in the Mediterranean.* Actes du international seminar de Porto Torres, Italie, 18-20 septembre 1998, pp. 224-239. Porto Torres : Osservatorio Nazionale sulla Desertificazione.

2.78 2001 **van der Leeuw, S.E.,** “ Sallèles d'Aude: vingt ans de recherches autour d'un atelier de poterie ” in: *Vingt ans de recherches à Sallèles d'Aude* (sous la direction de F. Laubenheimer), Besançon: Presses Universitaires Francomtoises, pp. 287-294.

2.79 2001 **van der Leeuw, S.E.,** “ ‘Vulnerability’ and the integrated study of socio – natural phenomena ”, *IHDP Update*, 2/01, April 2001, pp.6-7

2.80 2001 **van der Leeuw, S.E.** & C. Aschan-Leygonie) “A long-term perspective on resilience in socio-natural systems” *Working Papers of the Santa Fe Institute*, n° 01-08-042 ([www.santafe.edu/sfi/publications/01wplist.html](http://www.santafe.edu/sfi/publications/01wplist.html))

2.81 2001 **van der Leeuw, S.E.,** Environmental Archaeology. *In*: *International Encyclopedia of the Social and Behavioural Sciences*. Oxford : Elsevier Science Publishers, pp.

2.82 2002. **van der Leeuw, S.E.,** Why model? In: R. Trappl (ed.) *Cybernetics and Systems 2002* (Proceedings of the 16th European Meeting on Cybernetics and Systems Research, Vienna, April 2-5), vol 1, pp. 400-401.

2.83 2002 **van der Leeuw, S.E.,** Why model? *Lettre du Département SHS du CNRS*, October 2002, pp. 25-27

2.84 2002 **van der Leeuw, S.E. &** B.L. de Vries, “ Empire: the Romans in the Mediterranean ” In : B.L. de Vries et J. Goudsblom (eds.) *Mappae Mundi: Humans and their habitats in a long-term socio-ecological perspective* Amsterdam : Amsterdam University Press, pp. 209-256

2.85 2002 **van der Leeuw, S.E.,** & C. L. Redman, “ Placing anthropology at the center of environmental studies ”. *American Antiquity*, 67 (4)

2.86 2003 C. Lévèque, T. Muxart, L. Abbadie, A. Weill, **S.E. van der Leeuw**, *“ L’anthroposystème : entité structurelle et fonctionnelle des interactions sociétés-milieux*” in C. Lévèque and **S.E. van der Leeuw** (eds.) *Quelles natures voulons nous ? Pour une approche socio-écologique du champ de l’environnement*. Paris: Elsevier, pp. 110–129.

2.87 2003 J.-F. Berger, F. Favory, T. Muxart, F.-P. Tourneux, **S.E. van der Leeuw** “ Comment identifier, analyser et évaluer les dynamiques d’interactions entre les sociétés et leurs environnements ” in *Quelles natures voulons nous ? Pour une approche socio-écologique du champ de l’environnement* (C. Lévèque and **S.E. van der Leeuw**, eds.). Paris: Elsevier, pp. 146-184.

2.88 2003 **van der Leeuw, S. E.,** “ Une étude des causes de la dégradation des terres et de la désertification en Europe méditerranéenne ”, in *Archéologie et systèmes socio-environnementaux: études multiscalaires sur la vallée du Rhône dans le programme ARCHAEOMEDES* (S.E. van der Leeuw, F. Favory and J.-L. Fiches, eds.) Valbonne : CNRS (Monographies du CRA), pp. 11-19.

2.89 2003 **van der Leeuw, S. E.,** “ Les études multiscalaires sur la vallée du Rhône ”, in *Archéologie et systèmes socio-environnementaux: études multiscalaires sur la vallée du Rhône dans le programme ARCHAEOMEDES* (S.E. van der Leeuw, F. Favory and J.-L. Fiches, eds.) Valbonne : CNRS (Monographies du CRA), pp. 21-41.

2.90 2003 Verhagen, Ph., F. Favory & **S.E. van der Leeuw** “ Intégration et traitement des données géographiques ”, , in *Archéologie et systèmes socio-environnementaux: études multiscalaires sur la vallée du Rhône dans le programme ARCHAEOMEDES* (S.E. van der Leeuw, F. Favory and J.-L. Fiches, eds.) Valbonne : CNRS (Monographies du CRA), pp. 239-254.

2.91 2003 **van der Leeuw, S.E.,** & F. Audouze “ Conclusion : vers une pluridisciplinarité élargie ”, in *Archéologie et systèmes socio-environnementaux: études multiscalaires sur la vallée du Rhône dans le programme ARCHAEOMEDES* (S.E. van der Leeuw, F. Favory and J.-L. Fiches, eds.) Valbonne : CNRS (Monographies du CRA), pp. 323-328.

2.92 2003 **van der Leeuw, S.E.** & M. Gazenbeek “ L'Argonne dans l'Antiquité : étude d'une région productrice de céramique et de verre ”, *Gallia,* 60, pp. 269-317.

2.93 2004 **van der Leeuw, S.E.,** F. Favory & J.-J. Girardot, “The archaeological study of environmental degradation : an example from Southeastern France” in: *The Archaeology of Global Change* (C.L. Redman, ed.), Washington DC: Smithsonian Press, pp. 112-129

2.94 2004 **van der Leeuw, S.E.,** & S.F. Green, “Vegetation dynamics and land use in Epirus*”,* in*: Dynamics in mediterranean vegetation landscapes* (S. Mazzoleni, G. Di Pasquale, P. Di Martino and F. Rego), London: Wiley, pp. 121-141.

2.95 2004 **van der Leeuw, S.E.,** “Non-linear processes and archaeology”, in: *Key concepts in archaeology* (A.C. Renfrew and P. Bahn, eds.), London: Routledge, pp. 182-186.

2.96 2004 S. Méry, K. McSweeney, **S.E. van der Leeuw,** W. Y. Al Tikriti), “New approaches to a collective grave from the Umm an Nahr period at Hili”, *Paléorient* 30(1): 163-178

2.97 2005 **van der Leeuw, S.E.,** “Why Model?”, *Cybernetics and Systems* 35 (2-3), 117-128.

2.98 2005 **van der Leeuw, S.E.,** “Climate, hydrology, land use, and environmental degradation in the lower Rhone Valley during the Roman Period”, *C.R. Geoscience*, 337 (1-2), 9-27.

2.99 2005 **van der Leeuw, S.E.,** & C. Aschan-Leygonie),“A long-term perspective on resilience in socio-natural systems” in*: Micro–Meso–Macro. Addressing Complex Systems Couplings* (U. Svedin and H. Lilienstrom, eds.), pp. 227-264, London: World Scientific

2.100 2005 **van der Leeuw, S.E.,** “Why Dutch archaeology isn’t what it was forty years ago”, in *Innovatie in de Nederlandse Archeologie* (M.H. van den Dries and W.J.M. Willems, eds), pp. 7-22. Gouda: SIKB

2.101 2005 **van der Leeuw, S.E.**, R.W. Brandt, M. Gazenbeek and Ph. Verhagen), “La gestion du patrimoine archéologique régional ou de l’usage des modèles prédictifs en SIG: l’Argonne, un cas d’école”, in *Temps et espace de l’homme en sociétee, analyses et modèles spatiaux en archéologie*, pp. 93-103. Antibes: APDCA (XXVe Rencontres internationales d’Archéologie et d’Histoire d’Antibes)

2.102 2006 O. R. Young, F. Berkhout, G.C. Gallopin, M.A. Janssen, E. Ostrom, **S.E. van der Leeuw**), “The Globalization of socio-ecological systems: An agenda for scientific research”, *Global Environmental Change* vol 16 (3), pp. 304-316

2.103 2006 **van der Leeuw, S.E.,** “Crises vécues, crises perçues”. In: *Temps et espaces des crises de l’environnement*” (C. Beck, Y. Luginbühl, T. Muxart, eds.), pp. 351-368. Paris: Editions Quae.

2.104 2007 Dearing, J.A. L.J. Graumlich, R.H. Grove, A. Grübler, H. Haberl, F. Hole, C. Pfister, **S.E. van der Leeuw**, “Group Report: Integrating Socioenvironmental Interactions over Centennial Timescales – Needs and Issues”. In: *Sustainability or Collapse*? (R. Costanza, L.J. Graumlich, W. Steffen, eds.), pp. 243-274. Cambridge, Mass: MIT Press (Dahlem Workshop Reports)

2.105 2007 **van der Leeuw, S.E.,** “Information Processing and Its Role in the Rise of the European World System”. In: *Sustainability or Collapse*? (R. Costanza, L.J. Graumlich, W. Steffen, eds.), pp. 213-241. Cambridge, Mass: MIT Press (Dahlem Workshop Reports).

2.106 2007 Berger, J.F., L. Nuninger, **S.E. van der Leeuw** “Modeling the Role of Resilience in Socio–Environmental Co–evolution: The Middle Rhône Valley between 1000 b.c. and a.d. 1000”, in *The Model-Based Archaeology of Socio-natural Systems* (T. Kohler & S.E. van der Leeuw, eds.), pp 41-60 Santa Fe, NM: School of Advanced Research.

2.107 2007T. Kohler & **S.E.** **van der Leeuw,** “Historical Socionatural Systems and Models: An Introduction to the Volume” in *The Model-Based Archaeology of Socio-natural Systems* (T. Kohler and S. E. van der Leeuw, eds.), pp. 1-12, Santa Fe: School of Advanced Research.

2.108 2007 **van der Leeuw, S.E.,** “Including Humans in Earth System Modelling”, *Global Change Newsletter* 69 (Guest editorial), May 2007.

2.109 2008 **van der Leeuw, S.E.,** "A New Initiative on Vulnerability, Resilience and Adaptation", *IHDP Update* 2008(1): 29-31

2.110 2008 D. W. Read & **S.E. van der Leeuw**, “Biology Is Only Part Of The Story …”, *Philosophical* *Transactions of the Royal Society, Series B* 363, 1959-68

2.111 2008 **van der Leeuw, S.E.,** “Durabilité et archéologie environnementale”, *Archéopages* 97-102

2.112 2008 **van der Leeuw, S.E**., "Climate and Society: Lessons from the past 10,000 years", *Ambio* 37, Special Issue 14, pp. 476-482.

2.113 2008 **van der Leeuw, S.E**.,“Agency, Networks, Past and Future”, in: *Material and Nonhuman Agency* (C. Knappett & L. Malafouris, eds.), pp. 217-247, New York: Springer

## 2.114 2009 D. Lane, D. Pumain & S.E. van der Leeuw “Introduction”, in D. Lane, D. Pumain, S. E. van der Leeuw and G. West (eds.) *Complexity Perspectives on Innovation and Social Change*, pp. 1-9 Berlin: Springer (Methodos series)

## 2.115 2009 D. Lane, R. Maxfield, D.W. Read & S.E. van der Leeuw, “From Population thinking to Organization thinking”, Chapter 1 in D. Lane, D. Pumain, S. E. van der Leeuw and G. West (eds.) *Complexity Perspectives on Innovation and Social Change*, pp. 11-42, Berlin: Springer (Methodos series)

## 2.116 2009 D.W. Read, D. Lane & S.E. van der Leeuw “The innovation innovation”, Chapter 2 in D. Lane, D. Pumain, S. E. van der Leeuw and G. West (eds.) *Complexity Perspectives on Innovation and Social Change*, pp. 43 - 84, Berlin: Springer (Methodos series) <http://repositories.cdlib.org/hcs/DWR2008/>

2.117 2009 **van der Leeuw, S.E**., D. Lane, D. W. Read, “The long-term evolution of social organization”, Chapter 3 in: D. Lane, D. Pumain, S. E, van der Leeuw and G. West (eds.) *Complexity Perspectives on Innovation and Social Change*, pp.85-115, Berlin: Springer (Methodos series)

2.118 2009 Ferrari, D., D.W. Read & **S.E. van der Leeuw**, “An Agent-based Model of Information Flows in Social Dynamics. Chapter 14 in: D. Lane, D. Pumain, S.E. van der Leeuw and G. West (eds.) *Complexity Perspectives on Innovation and Social Change,* pp. 385-412, Berlin: Springer (Methodos series)

2.119 2009 D.A. Lane, D. Pumain and **S.E. van der Leeuw**, “Conclusion”, in: D. Lane, D. Pumain, S.E. van der Leeuw and G. West (eds.) *Complexity Perspectives on Innovation and Social Change,* pp. 481-488, Berlin: Springer (Methodos series)

2.120 2009 D. W. Read & **S.E. van der Leeuw**, “Biology Is Only Part Of The Story …”, in *'Sapient Mind'* (A.C. Renfrew and L. Malafouris, eds.), pp. 33-49, Oxford: Oxford University Press.

2.1212009 **van der Leeuw, S.E**., “What is an ‘Environmental Crisis’ to an Archaeologist, in: *The archaeology of environmental change – Socio-natural legacies of degradation and resilience* (C. Fisher, B. Hill & G. Feinman, eds.), pp. 40-61, Tucson: University of Arizona Press.

2.122 2009 Rockström, J., W. Steffen, K. Noone, Å. Persson, F. S. Chapin III, E. F. Lambin, T. M. Lenton, M. Scheffer, C. Folke, H. J. Schellnhuber, B. Nykvist, C. A. de Wit, T. Hughes, **S.E. van der Leeuw,** H. Rodhe, S. Sörlin, P. K. Snyder, R. Costanza, U. Svedin, M. Falkenmark, L. Karlberg, R. W. Corell, V. J. Fabry, J. Hansen, D. Liverman, K. Richardson, P. Crutzen, J. A. Foley, “A Safe Operating Space for Humanity”, *Nature* vol. 461, September 24, 2009, 472-475

2.123 2009 Rockström, J, W. Steffen, J. Schellnhuber, **S.E. van der Leeuw**, D. Liverman, J.E. Hansen, T. Lenton, S. Sörlin, V. Fabry, K. Noone, E. Lambin, R.W. Corell, R. Costanza, M. Scheffer, C. Folke, U. Svedin, T. Hughes, H. Rodthe, P. Crutzen, “Planetary Boundaries: Exploring the safe operating space in the Anthropocene”, *Ecology and Society* 14(2): 32. Online: <http://www.ecologyandsociety.org/vol14/iss2/art32/>

2.124 2010 Méry, S., A Dupont-Delaleuf, **S.E. van der Leeuw**, “Analyse technologique et experimentations: les techniques de façonnage céramique mettant en jeu la rotation à Hili (Emirats arabes unis) à la fin du IIIe millenaire (Âge du Bronze Ancien), *Nouvelles de l’Archéologie* 119 (March): 52-64.

2.125 2010 Zeder, M., J. E. Buikstra, **S.E. van der Leeuw**, Interdisciplinary Studies in Archaeology, in: *Voices in American Archaeology* (W. Ashmore, D.T. Lippert & B.J. Mills, eds.), pp. 220-269, Washington DC: The SAA Press.

2.126 2010 Miller, F., H. Osbahr, E. Boyd, F. Thomalla, S. Bharwani, G. Ziervogel, B. Walker, J. Birkmann, **S.E. van der Leeuw**, J. Rockström, J. Hinkel, T. E. Downing, C. Folke, D. R. Nelson, “Resilience and Vulnerability: Complementary or conflicting concepts?”, *Ecology and Society,* 15 (3): 11. <<http://www.ecologyandsociety.org/vol15/iss3/art11/>>

2.127 2010 Cornell, S., R. Costanza, S. Sörlin, **S.E. van der Leeuw** “Developing a systematic ‘science of the past’ to create our future”, *Global Environmental Change*

2.128 2010 Dearing, J.A., A.K. Braimoh, A. Reenberg, B.L. Turner II, **S.E. van der Leeuw**, “Complex land systems: the need for long time perspectives in order to assess their future”, *Ecology and Society* 15 (4): 21 <http://www.ecologyandsociety.org/vol15/iss4/art21/>

2.129 2010 Strumsky, D., J. Lobo, and **S.E. van der Leeuw**, “Using Patent Technology Codes to Study Technological Change”, Working Paper #: 10-11-028 of the Santa Fe Institute <http://www.santafe.edu/research/working-papers/>

2.130 2010 **van der Leeuw, S.E**., “The Archaeology of Innovation: lessons for our times”, in: *Innovation: Perspectives for the 21st Century*, pp. 33-53, Madrid: BBVA

2.131 2010 **S.E. van der Leeuw,** “The Archaeology of Innovation: lessons for our times”,*‘Athens Dialogues’,* http://athensdialogues.chs.harvard.edu/cgi-bin/WebObjects/athensdialogues.woa/wa/dist?dis=83&utm\_source=buffer&buffer\_share=935c4

2.132 2010 H. Ernstson, **S.E. van der Leeuw**, C.L. Redman, D. J. Meffert, G. Davis, C. Alfsen, T. Elmqvist “Urban transitions: on urban resilience and human-dominated ecosystems”, *Ambio Online,* 06/29/2010*,* http://dx.doi.org/10.1007/s13280-010-0081-9

2.133 2011 Strumsky, D., J. Lobo, **S.E. van der Leeuw**, “Using patent technology codes to study technological change”, *Economics of Innovation and New Technology*, First Published 06/13/2011 <http://dx.doi.org/10.1080/10438599.2011.578709>

2.134 2011 Westley, F., P. Olsson, C. Folke, Th. Homer-Dixon, H. Vredenburg, D. Loorbach, J. Thompson, M. Nilsson, E. Lambin, J. Sendzimir, B. Banarjee, V. Galaz, **S.E. van der Leeuw**, “Tipping Towards Sustainability: Emerging Pathways of Transformation”, *Ambio,* 40(7): 762-780

2.135 2011 **van der Leeuw, S.E.,** R. Costanza, S. Aulenbach, S. Brewer, M. Burek, S. Cornell, C Crumley, J. Dearing, C. Downy, L. Graumlich, M. Hegmon, S. Heckbert, K. Hibbard, S. T. Jackson, I. Kubiszewski, P. Sinclair, S. Sörlin, and W. Steffen*, “*Toward An Integrated History to Guide the Future”, *Ecology and Society 16(4):2* <http://www.ecologyandsociety.org/vol16/iss4/art2>

2.136 2011 Strumsky, D., J. Lobo, **S.E. van der Leeuw**, “[Measuring the Relative Importance of Reusing, Recombining and Creating Technologies in the Process of Invention](http://www.santafe.edu/media/workingpapers/11-02-003.pdf)” *Working Paper # 11-02-003 of the Santa Fe Institute* <http://www.santafe.edu/media/workingpapers/11-02-003.pdf>

2.137 2011 Lane, D.A., **S.E. van der Leeuw**, C. Sigaloff, F. Addarii, “Innovation, Sustainability and ICT”, *Procedia Computer Science*, vol 7, pp. 83-87, ScienceDirect www.sciencedirect.com/science/journal/18770509

2.138 2012 Costanza, R., **S.E. van der Leeuw**, K. Hibbard, S. Aulenbach, S. Brewer, M. Burek, S. Cornell, C. Crumley, J. Dearing, C. Folke, L. Graumlich, M. Hegmon, S. Heckbert, S. T Jackson, I. Kubiszewski, V. Scarborough, P. Sinclair, S. Sörlin, W. Steffen, “Developing an Integrated History and future of People on Earth (IHOPE)”, *Current Opinion in Environmental Sustainability* 2012, **4**:106**–**114

2.139 2012 Dearing, J., **S.E. van der Leeuw** & R. Costanza, “How to learn from the past?”, *The* *Solutions Journal,* March 2012

2.140 2012 **van der Leeuw, S.E.,** A. Wiek, J. Harlow, J. Buizer, 2012, “How much time do we have to fail? The urgency of sustainability challenges *vis-à-vis* roadblocks and opportunities in sustainability science”, *Sustainability Science* 7, Special Issue 1 (ICSS 2010): 115-120

2.141 2012 Wheeler, Q. D., S. Knapp, D. W. Stevenson, J. Stevenson, S. D. Blum, B. M. Boom, G. G. Borisy, J. L. Buizer, M. R. De Carvalho, A. Cibrian, M. J. Donoghue, V.Doyle, E. M. Gerson, C. H. Graham, P. Graves, S. J. Graves, R. P. Guralnick, A.L. Hamilton, J. Hanken, W. Law, D. L. Lipscomb, T. E. Lovejoy, H. Miller, J.S. Miller, S. Naeem, M. J. Novacek, L. M. Page, N. I. Platnick, H. Porter-Morgan, P. H. Raven, M. A. Solis, A. G. Valdecasas, **S.E. van der Leeuw**, A. Vasco, N. Vermeulen, J. Vogel, R. L. Walls, E. O. Wilson & J. B. Woolley, “Mapping the biosphere: exploring species to understand the origin, organization and sustainability of biodiversity”. *Systematics and Biodiversity*, 10:1, 1-20.

2.142 2012 **S.E. van der Leeuw**, “Global Systems Dynamics and Policy: Lessons from the distant past” *Complexity Economics 1* (2012): 33–60

2.143 2012 **S.E. van der Leeuw**, “For every solution there are many problems: the role and study of technical systems in socio-environmental co-evolution”, *Danish Journal of Geography* Vol. 112, No. 2: 149**–**159

2.144 2012**S.E. van der Leeuw**, “Archéologie de l’innovation”, in *“La Préhistoire des Autres : Perspectives archéologiques et anthropologiques”* (The prehistory of the others: anthropological and archaeological perspectives) (N. Schlanger, & A.-C. Taylor eds.), pp. 101-117. Paris: La Découverte

2.145 2013 **S.E. van der Leeuw**, “Invention, Innovation and Sustainability – Lessons From and For Archaeology”. In : *Aux marges de l’Archéologie. Hommage à Serge Cleuziou* (J. Giraud & G. Gernez, eds.), pp. 45-58, Paris : Eds. De Boccard (Travaux de la Maison René-Ginouvès 16).

2.146 2013 Wiek, A., D. Guston, **S.E. van der Leeuw**, C. Selin, P. Shapira, “The nano-enhanced city, sustainability challenges, and anticipatory governance”, *Journal of Urban Technology*: 1-18

2.147 2013 Audouze, F., **S.E. van der Leeuw**, “Un habitat de hauteur fortifié dans les Maures : le Peigros (Sainte-Maxime, Var)”, in: *L'Âge du Fer en Europe: Mélanges offerts à Olivier Buchsenschutz* (S. Krausz, A. Colin, K. Gruel, I. Ralston, T. Dechezleprêtre, eds.), pp. 147-156, Bordeaux: Ausonius

2.148 2013 Strumsky, D., J. Lobo, **S.E. van der Leeuw**, “Measuring the Relative Importance of Reusing, Recombining, and Creating Technologies in the Process of Invention”, SFI working paper: 2011-02-003, http://www.santafe.edu/media/workingpapers/11-02-003.pdf

2.149 2013 **van der Leeuw, S.E.** *"*Archaeology, Networks, Information Processing and Beyond", in: *Network Analysis in Archaeology: New Approaches to Regional Interaction* (Knappett, C., ed.). pp. 335-348, Oxford: Oxford University Press.

2.150 2013 **van der Leeuw, S.E**., AIMES 2.0: Towards a global Earth System Science, *IGBP Global Change*, 81, 10-13

2.151 2013 Jaeger, C., P. Jansson, M. Laubichler, **S.E. van der Leeuw**, M. Resch and J. D. Tàbara *"GSS: Towards a Research Program for Global Systems Science"*, Berlin: Global Climate Forum

2.152 2014 **van der Leeuw, S.E.,** "Sustainability, culture and personal responsibility" *Sustainability Science*9, (2):115-117

2.153 2014 Wiek, A., J. Harlow, R. Melnick, **S.E. van der Leeuw**, K. Fukushi, K. Takeuchi, F. Farioli, F. Yamba, A. Blake, R. Kutter, "Sustainability science in action – A review of the state of the field through case studies on disaster recovery, bioenergy, and precautionary purchasing", *Sustainability Science Online* DOI: 10.1007/s11625-014-0261-9

2.154 2014 **van der Leeuw, S.E.,** "Transforming Lessons from the Past into Lessons for the Future", in *The Resilience and Vulnerability of Ancient Landscapes: Transforming Maya Archaeology through IHOPE* (A. F. Chase & V. Scarborough, eds.), Archeological Papers of the American Anthropological Association, 24, pp. 215–231, New York: Wiley

2.155 2014 Chase, A.F., L.J. Lucero, V.L. Scarborough, D.Z. Chase, R. Cobos, N.P. Dunning, S.L. Fedick, V. Fialko, J.D. Gunn, M. Hegmon, G. Iannone, D.L. Lentz, R. Liendo, K. Prufer, J.A. Sabloff, J.A. Tainter, F. Valdez Jr., **S.E. van der Leeuw**, “Tropical Landscapes and the Ancient Maya: Diversity in Time and Space”, in *The Resilience and Vulnerability of Ancient Landscapes: Transforming Maya Archaeology through IHOPE* (A. F. Chase & V. Scarborough, eds.), Archeological Papers of the American Anthropological Association, 24, pp. 12-29, New York: Wiley

2.156 2014 A. Wiek, A. Xiong, K. Brundiers, **S.E. van der Leeuw**, Integrating Problem- and Project-Based Learning Into Sustainability Programs – A Case Study on the School of Sustainability at Arizona State University, *International Journal of Sustainability in Higher Education* 15(4) 431-449

2.157 2014 **van der Leeuw, S.E.** "French Resilience: Designing for Change on the Comtat Plain" *Solutions* (Special Issue on EPA "Resilience" conference, Washington DC, April 2013), vol 5(5): 88-92

2.158 2014 **van der Leeuw, S.E.,** Y. Zhang, "Are we part of the solution or part of the problem?", Working Paper 14-11-044, Santa Fe Institute

2.159 2014 Rockström, J., G. Brasseur, B. Hoskins, W. Lucht, J. Schellnhuber, P. Kabat, N. Nakicenovic, P. Gong, P. Schlosser, M. Manez, A. Humble, N. Eyre, P. Gleick, R. James, A. Lucena, O. Masera, M. Moench, R. Schaeffer, S. Seitzinger, **S. van der Leeuw**, B. Ward, N. Stern, J. Hurrell, L. Srivastava, J. Morgan, C. Nobre, Y. Sokona, R. Cremades, E. Roth, "Climate change: the necessary, the possible and the desirable", *Earth's Future,* e-version:<http://onlinelibrary.wiley.com/doi/10.1002/2014EF000280/pdf>

2.160 2014 Knappett, C.A. & **S.E. van der Leeuw**, "A developmental approach to ancient innovation: the potter’s wheel in the Bronze Age east Mediterranean", *Pragmatics and Cognition* (vol. 22(1): 64-92, (Special issue on *Creativity, Cognition, and Materiality* (L. Malafouris ed.) doi: 10.1075/pc.22.1.04kna

2.161 2015Read, D.W. & **S.E. van der Leeuw**, “The Extension of Social Relations in Time and Space during the Palaeolithic” In: *Settlement, Society and Cognition in Human Evolution* (F. Coward, R. Hosfield, M. Pope & F. Wenban-Smith, eds.), pp. 31-53, Cambridge: Cambridge University Press

2.162 2015 Schoon, M. & **S.E. van der Leeuw** "The Shift toward Social-Ecological Systems Perspectives: Insights into the Human-Nature Relationship" invited paper, *Nature, Sciences, Sociétés* 23, 166-174

2.163 2015 Verburg, P. H., J. Dearing, J. Dyke, **S.E. van der Leeuw**, S. Seitzinger, W. Steffen, J. Syvitski, "Methods and Approaches to Modelling the Anthropocene", *Global Environmental Change* 39*:*328-340

http://dx.doi.org/10.1016/j.gloenvcha.2015.08.007

2.164 2015 Bai, X, **S.E. van der Leeuw**, K. O’Brien, F. Berkhout, F. Biermann, W. Broadgate, E. Brondizio, C. Cudennec, J. Dearing, A. Duraiappah, M. Glaser, A. Revkin, W. Steffen, J. Syvitski, 2015 "Plausible and Desirable Futures in the Anthropocene: A New Research Agenda?", *Global Environmental Change* [39](file:///Users/vanderle/Desktop/Personal/CV/39): 351-362

<http://www.sciencedirect.com/science/article/pii/S0959378015300546>.

2.165 2015 **van der Leeuw, S.E.,** "Repenser le débat climatique: du “partage des contraintes à la croissance verte” in "*Quelles solutions face au changement climatique?*" (B. Laville, S. Thiébault, A. Euzen, eds.), pp. 240-248 Paris: Éditions du CNRS

2.166 2015 **van der Leeuw, S.E**. “Reframing the climate debate: from ‘burden sharing’ to ‘green growth’”, in: *Designing solutions to climate change* (B. Laville, S. Thiébault, A. Euzen, eds.), pp. 240-248 Paris: ISBN 978-2-35113-239-5

2.167 2015 **van der Leeuw, S.E.,** “Scientific Illiteracy: What is the Reality, What are the Pitfalls?" in *Fernweh. Crossing borders and connecting people in archaeological heritage management – Essays in Honor of Willem J.H. Willems* (M. van den Dries, S. J. van der Linde & A. Strecker, eds.), pp. 122-126, Leiden: Sidestone Press

2.168 2016 Schimel, D., K. Hibbard, D. Costa, P. Cox, **S.E. van der Leeuw**, "Analysis, Integration and Modeling of the Earth System (AIMES): Advancing the Post-disciplinary Understanding of Coupled Human-Environment Dynamics in the Anthropocene" *Anthropocene online* <http://dx.doi.org/doi:10.1016/j.ancene.2016.02.001>

2.169 2016 Audouze, F. J. Bérato, Bui Thi Mai, Ph. Marinval, **S.E. van der Leeuw**, with the collaboration of M. Dubar and Michèle Ballinger "L’habitat perché et fortifié du Peigros, Sainte-Maxime, Var" (full excavation report), pp. 143-191, *Documents d'Archéologie Méditerranéenne* 37*,* Lattes: Editions DAM

2.170 2016 **van der Leeuw, S.E.,** "Uncertainties", in: *Uncertainty and Sensitivity Analysis in Archaeological Computational Modeling* (M. Brouwer-Burg, H. Peeters, W. Lovis, eds.), pp. 157-169, New York: Springer

2.171 2016 **van der Leeuw, S.E.,** "La science, les politiques et le public: quelle réalité / quels écueils?" (« Science, politics and the general public: what is the reality, what are the pitfalls?) *Nature, Sciences, Sociétés* 24, 160-167 (2016), [http://dx.doi.org/doi: 10.1051/nss/2016014](https://asu.zoom.us/j/9649558854)

2.172 2016 **van der Leeuw, S.E.,** "Adaptation and Maladaptation in the Past: a Case Study and Some Implications" In: *Complexity and Evolution: Toward a New Synthesis for Economics*, D. S. Wilson and A. Kirman (eds.). pp. 240-269, Strüngmann Forum Reports, vol. 19, J. Lupp, series editor. Cambridge, MA: MIT Press, ISBN 978-0-262-03538-5

2.173 2016 Gowdy, J., M. Mazzucato, S. Page, J.C.J.M. van den Bergh, **S.E. van der Leeuw**, D. Sloan Wilson, "Shaping The Evolution Of Complex Societies", In: *Complexity and Evolution: Toward a New Synthesis for Economics*, D. S. Wilson and A. Kirman (eds.). pp. 327-350 Strüngmann Forum Reports, vol. 19, J. Lupp, series editor. Cambridge, MA: MIT Press ISBN 978-0-262-03538-5.

2.174 2017 **van der Leeuw, S.E.,** “It is all a question of discipline…”, in: *“Europe: Identités et Migrations / Europe: Identities and Migrations”* (L. Manolakakis, N. Schlanger, A. Coudart, eds.), pp. 31-42, Leyden: Sidestone Press.

2.175 2017 Coudart, A., L. Manolakakis, N. Schlanger, **S.E. van der Leeuw** “Jean-Paul Demoule, an intellectual scholar … beyond European archaeology, in *“Europe: Identités et Migrations / Europe: Identities and Migrations”* (L. Manolakakis, N. Schlanger, A. Coudart, eds.), pp. 11-22, Leyden: Sidestone Press.

2.176 2017 **van der Leeuw, S.E.** “Some Considerations Concerning “Sustainability””, in: *Environmental Reality: Rethinking the options* (proceedings of HM King Carl Gustaf of Sweden’s 12th Royal Colloquium, May 2016), (E. Kessler and A. Karlquist, eds.), pp. 15-20, Stockholm: The Royal Colloquium. ISBN 978-91-639-2969-4

2.177 2017 Xiao-Bing Hu, Pei-Jun Shi, Ming Wang, Tao Ye, M. S. Leeson, **S. E. van der Leeuw**,O. Renn, C. Jaeger, "Quantitative Understanding of the Complexity of Social-Environmental Systems: From Connection to Consilience" *Intl. Journal of Disaster Risk Science,* DOI 10.1007/s13753-017-0146-5

2.178 2018 **van der Leeuw, S.E**. “Closing remarks: Novel approaches to complex social change and sustainability”, *Sustainability Science* (special issue on the ICSS 2017 conference). DOI: 10.1007/s11625-018-0581-2

2.179 2018 **van der Leeuw, S.E**. “Whither archaeology?” *Japanese Journal of Archaeology* 5 (2018): 95–105

2.180 2018 **van der Leeuw, S.E.,** “Are cities resilient? – Les villes, sont elles résilientes”, in: Risques Urbains/Urban Risks (B. Barroca, D. Serre, eds.), vol 18(2):1-9 1-London: *ISTE Open Science* DOI : [10.21494/ISTE.OP.2018.0267](https://www.openscience.fr/Are-cities-resilient)

2.181 2018 Sachs, J., N. Nakicenovic, D. Messner, J. Rockström, G. Schmidt-Traub, S. Busch, G. Clarke, O. Gaffney, E. Kriegler, P. Kolp, J. Leininger, K. Riahi, **S.E. van der Leeuw**, D. van Vuuren, C. Zimm, “Transformations for Sustainable Development: A Synthesis” in: *Transformations to Achieve the Sustainable Development Goals – Report from “The World in 2050” Initiative* (E. Kriegler, D. Messner, N. Nakicenovic, K. Riahi, J. Rockström, Jeffrey Sachs, S.E. van der Leeuw, D. van Vuuren, coordinating authors) Laxenburg, Austria: International Institute for Applied Systems Analysis (IIASA), pp. 6-27, www.twi2050.org

2.182 2018 **van der Leeuw, S.E.**, A.P. Aguiar, L. Berg, D. Buscaglia, S. Busch, I. Chabay, K. Ebi, A. Goujon, H. Haberl, D. Messner, A. Miola, K. Murray, R. Muttarak, N. Nakicenovic, A. Popp, J.- M. Puyana, V. Rauchenwald, P. Scheelbeek, J. Schmidt, S. Sellers, U. Svedin, A. Vafeidis, Greg, G.Verburg, “The Challenge Ahead: Non-linear Interactions in Current Societal Dynamics” Chapter 2 in: *Transformations to Achieve the Sustainable Development Goals – Report from “The World in 2050”Initiative* (E. Kriegler, D. Messner, N. Nakicenovic, K. Riahi, J. Rockström, Jeffrey Sachs, S.E. van der Leeuw, D. van Vuuren, coordinating authors), Laxenburg, Austria, International Institute for Applied Systems Analysis (IIASA), pp. 35-68, [www.twi2050.org](http://www.twi2050.org)

2.183 2018 Contreras, D.A., E. Hiriart, A. Bondeau, A. Kirman, J. Guiot, L. Bernard, R. Suarez, **S.E. van der Leeuw** “Regional Paleoclimates and Local Consequences: Integrating GIS Analysis of Diachronic Settlement Patterns and Process-Based Agroecosystem Modeling of Potential Agricultural Productivity in Provence (France)”, *PLOS One* 13(12): e0207622.

2.184 2018 **van der Leeuw, S.E.,** “Going with the (information) flow”, in: *The Chronicles of Evolution* (Sydney Brenner’s 10-on-10) (S. Sim, B. Seet, eds.), pp. 181-191, Singapore, Wildtype Books.

2.185 2019 **van der Leeuw, S.E.** “The role of narratives in human-environmental relations: an essay on elaborating win-win solutions to climate change and sustainability”, *Climatic Change* 160(4): 509-519 (Special Issue on win-win solutions to climate change, D. Mangalagiu, A. Bisaro, J. Hinkel, and J. D. Tàbara, eds.). CLIM-D-18-00612R1, DOI: <https://doi.org/10.1007/s10584-019-02403-y>

2.186 2018 Niles, D., **S.E. van der Leeuw**, “The Material Order” *Technosphere Magazine, pp. 1-9, https://technosphere-magazine.hkw.de/p/The-Material-Order-4gK5EMpZ3SzB79aTePfJo7*

2.187 2019 **van der Leeuw, S.E.,** A.-P. Aguiar, L. Berg, D. Buscaglia, S. Busch, I. Chabay, K. Ebi, A. Goujon, H. Haberl, D. Messner, A. Miola, K. Murray, R. Muttarak, N. Nakicenovic, A. Popp, J.-M. Puyana, V. Rauchenwald, P. Scheelbeek, J. Schmidt, S. Sellers, U. Svedin, A. Vafeidis, G. Verburg,, “The challenge ahead: Non-linear interactions in current societal dynamics” Brussels: GSTIC (Separate publication of Chapter 2 of the TWI 2050 Report 2018)

2.188 2019 Bai, X., B. Begashaw, M. Bursztyn, I. Chabay, S. Droy, C. Folke, K. Fukushi, J. Gupta, H. Hackmann, E. Hege, C. Jaeger, A. Patwardhan, O. Renn, G. Safonov, P. Schlosser, P., Skaloud, C. Vogel, **S. van der Leeuw**, Y. Zhang, “Changing the scientific approach to fast transitions to a sustainable world. Improving knowledge production for sustainable policy and practice” - IASS Discussion Paper, July. DOI: [http://publications.iass-potsdam.de/pubman/item/escidoc:4408890](http://publications.iass-potsdam.de/pubman/item/escidoc:4408890:3)

2.189 2019 Nakicenovic, N., D. Messner, C. Zimm, G. Clarke, J. Rockström, A.-P. Aguiar, B. Boza-Kiss, L. Campagnolo, I. Chabay, D. Collste, L. Comolli, L. Gomez-Echeverri, A. Goujon, A. Grubler, R. Jung, M. Kamei, G. Kamiya, E. Kriegler, M. Kuhn, J. Leininger, C. Martin-Shields, B. Mayor-Rodriguez, J. Miller, A. Miola, K. Riahi, M. Schewenius, J. Schmidt, K, Skierka, O, Selomane, U. Svedin, P. Yillia, with contributions from: T. Arimoto, B. Colglazier, A. Contejean, I. Dombrowsky, T. Jaluka, H. Lotze-Campen, K. Murray, M.l Noussan, M. C. Roco, L. Spini, M. Stoeckle, **S. van der Leeuw**, D. van Vuuren, E. Zusman “*The Digital Revolution and Sustainable Development: Opportunities and Challenges*” Report from “The World in 2050” Initiative. <http://pure.iiasa.ac.at/id/eprint/15913/>

2.190 2019 Ma,Y., T. F. Thornton, D. Mangalagiu, J. Lan, D. Hestad, E. Apostoli Cappello, **S.E. van der Leeuw**, “Co-creation, co-evolution and co-governance: understanding green businesses and urban transformations” *Climatic Change* (Special Issue on win-win solutions to climate change, D. Mangalagiu, A. Bisaro, J. Hinkel, and J. D. Tàbara, eds.). <https://doi.org/10.1007/s10584-019-02541-3>

2.191 2019 **van der Leeuw, S.E.**, “The evolution of human information-processing”, *Journal of Integrated Creative Studies* No. 2019-010-e, <http://www2.yukawa.kyoto-u.ac.jp/~future/icis/wp/wp-content/uploads/2019/12/2019-010-e.pdf>

2.192 2020 Renn, O., I. Chabay, **S.E. van der Leeuw**, S. Droy, “Beyond the indicators: Improving science, scholarship, policy and practice to meet the complex challenges of sustainability” *Comment*, *Sustainability MDPI* 651485; doi: 10.3390/su12020578

2.193 2020 **van der Leeuw, S.E.,** “Perspectives urbaines pour la resilience”, in: *Quelles stratégies pour quels risques: La ville en question?* (B. Barroca, ed.), pp. 7-23,Paris: Presses des Ponts et Chaussées

2.194 2020 Schlosser, P., M. Laubichler, C. Edwards, S. Beschloss, N. Berman, **S.E. van der Leeuw**, J. Adamson, C. M. Barton, M. Bernstein, S. BurnSilver, G. Dirks, J. Franz, N. B. Grimm, J. Gwiszcz, D. Helitzer, C. Lloyd, K. Merrigan, O.Sala, C. Wharton D. White, “COVID-19: The Ultimate Stress Test for Our Global Futures”, *Medium,* March 28, 2020 <https://medium.com/@asuglobalfuture/covid-19-the-ultimate-stress-test-for-our-global-futures-af5c2d478e0c>

# 2.195 2020 Schlosser, P. S. Beschloss, C. Edwards, N. Berman, M. Laubichler, S. E. van der Leeuw, J. Franz, “**Earth Day at 50: A Call for a New Engagement with Our Planet” *Medium*, April 22, 2020**

# 2.196 2020 van der Leeuw, S.E., Laubichler, M, Schlosser, P., “**Societal Planetary Boundaries: When Global Society Endangers the Future of Our Planet” *Medium* May 8, 2020**<https://asuglobalfuture.medium.com/societal-planetary-boundaries-when-global-society-endangers-the-future-of-our-planet-ce6af69e17ff>

2.197 2020 Nakicenovic, N., A. Grubler, J. Leininger, C. Zimm, G. Clarke, K. Ebi, J. Rockstrom, D. Messner, **S.E. van der Leeuw**, A.- P. Aguiar, A. Al Khourdajie, D. Arent, T. Arimoto, A. Bhowmik, B. Boza‐Kiss, H. Carlsen, F. Carrero‐Martínez, K. Ciampi‐Stancova, I. Chabay, C.‐W. Chao, W.E. Colglazier, D. Collste, L. Comolli, K.‐T. Chou, P. Gadelha, L. A. Galvao, B. Garret, R. Guerino Stabeli, A. Hernandez, A.‐K. Hornidge, M. Iizuka, N. Kanehira, M. Kamei, J.-A. Linnerooth‐Bayer, M. Matusiak, J. Miller, J. Millward‐Hopkins, R. Muttarak, R. Ngerng, M. Obersteiner, Y. Oswald, K. Oyamada, S. Pachauri, R. Paes de Sousa, A. Rainoldi, N. Rao, A. Roehrl, A. Rosenbaum, Y. Saheb, J. Schmidt, J. Steinberger, U. Svedin, I. Suzuki, K. Tilmes, M. Visbeck, C. Wingens, C. Wilson, H. Yamada, E. Zusman, “*Innovations for Sustainability: Pathways to an efficient and sufficient post-pandemic future*” Report from “The World in 2050” Initiative. Laxenburg: International Institute for Advanced Systems Analysis, Laxenburg, Austria. [www.twi2050.org](http://www.twi2050.org) Available at: <http://pure.iiasa.ac.at/id/eprint/16533/>

2.198 2020 **van der Leeuw, S.E.**, “COVID-19 and the Role of Information Processing”, *Global Sustainability* 3 e27 1-5 DOI: <https://doi.org/10.1017/sus.2020.22>

## 2.199 2020 Aguiar, A.-P., D. Collste, Z.V. Harmackova, L. Pereira, O. Selomane, D. Galafassi, D. van Vuuren, S.E. van der Leeuw, “Co-designing global target-seeking scenarios: a cross-scale participatory process for capturing multiple perspectives on pathways to sustainability” [*Global Environmental Change*](https://www.sciencedirect.com/science/journal/09593780) 65, 102198

2.200 2020 Renn, O., Chabay, I., **van der Leeuw, S**., Droy, S. (2020), Beyond the Indicators: Improving Science, Scholarship, Policy, and Practice to Meet the Complex Challenges of Sustainability. *Sustainability* 12(2): 578. doi:10.3390/su12020578

2.201 2021 **van der Leeuw, S.E.,** Folke, C., “The social dynamics of basins of attraction”, (Special issue: Beyond social-ecological traps: fostering transformations towards sustainability, H. Eriksson, J.L. Blythe, H. Österblom, and P. Olsson, eds.) *Ecology & Society* 26(1):33 <https://www.ecologyandsociety.org/vol26/iss1/>

2.202 2021 Elmqvist, T, Andersson, E, McPhearson, T, Bai, X, Bettencourt, L, Brondizio, E, Colding, J, Daily G, Folke, C., Grimm, N, Haase, D, Ospina, D, Parnell, S, Polasky, S, Seto, K C, **van der Leeuw S.E.,** 2021 “Urbanization In And For The Anthropocene”, *Nature Urban Sustainability* 2021 (1): 6 DOI: <https://www.nature.com/articles/s42949-021-00018-w2.203>

2.203 2021 Niles, D., **van der Leeuw, S.E**., “The Material Order” in: *Jinshinsei wo tou: Jinbun, kankyo, ajia no shiten (Anthropocene and Asia: Investigation, Critique, and Contribution from the Environmental Humanities Perspective)*, M. Terada, D. Niles (eds.), RIHN Science Series, Kyoto: Kyoto University Press, 2021, pp. 287-306, in Japanese

2.204 2021 **van der Leeuw, S.E.,** “Resilience: The importance of the long term”, *Archéologie, Société, et Environnement / Archaeology, Society and Environment* vol. 2(1) [https://www.openscience.fr/Numero-1-591](https://urldefense.com/v3/__https:/www.openscience.fr/Numero-1-591__;!!IKRxdwAv5BmarQ!NrLPw_EdxO6KVU5v9aqQhymkbPc0-ar2SCkyLdKnvfG81OuhJVawmczmcALhipIzdKM6Ew$)

2.205 2021 Warszawski, L., Kriegler, E., Rockström , J., Lenton T.M., Gaffney, O., Jacob, D., Klingenfeld, D., Koide, R., Máñez Costa, M., Messner, D., Nakicenovic, N., Schellnhuber H. J., Schlosser, P., Takeuchi, K., **van der Leeuw, S**., Whiteman, G., “Time to get real on 1.5°C: we need all-rounders not silver bullets”, *Environmental Research Letters* 16 (6) 064037<https://doi.org/10.1088/1748-9326/abfeec> ('ERL Best Article of 2021')

2.206 2021 Brovkin, V., E. Brook, R. DeConto, J. McManus, T. Lenton, M. Barton, J. Williams, J. Donges, S. Bathiany, A. Ganopolski, A. Abe-Ouchi, M. Claussen, H. Cheng, M. Crucifix, A. de Vernal, G. Gallopin, V. Iglesias, D. S. Kaufman, T. Kleinen, F. Lambert, **S. van der Leeuw**, H. Liddy, M.-F. Loutre, D. McGee, S. Praetorius, K. Rehfeld, R. Rhodes, A, Seddon, M. Trauth, L. Vanderverken, and Z. Yu, “Past tipping points and cascading impacts in coupled climate-ecological-social systems: Lessons for the future”, *Nature Geoscience* July 2021 DOI: <https://doi.org/10.1038/s41561-021-00790-5>online [https://www.nature.com/articles/s41561-021-00790-5](https://urldefense.com/v3/__https:/www.nature.com/articles/s41561-021-00790-5__;!!IKRxdwAv5BmarQ!P_pRs3RRmGTWxtW5OTLyq6d_WI5cy7srReqlc1rOHLiChIvNaZiz8skrGm5gjyc$)

2.207 2021 Chabay, I., O. Renn, **S.E. van der Leeuw**. “Transforming Scholarship to Co-create Sustainable Futures”, *Global Sustainability* 4, e19. DOI: <https://doi.org/10.1017/sus.2021.18>

2.208 2021 **van der Leeuw, S.E.,** M. Murase, “Ignorance, creation, destruction”, in: *Creative Complex*

*Systems: From Constructive Destruction to Destructive Construction* (K. Nishimura, M. Murase & K. Yoshimura, eds.), Ch 21, pp. 351- 372, Tokyo: Springer

2.209 2021 Grumbach, S, **S.E. van der Leeuw**, (2021). “The evolution of knowledge processing and the sustainability conundrum”. *Global Sustainability* 4, e29, 1–11. <https://doi.org/10.1017/sus.2021.29>

2.210 2021 Haas, A., **S.E. van der Leeuw**, M. Schoon, “Catching Green Swans”, preprint available on SSRN at <https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3640187>

2.211 2022 **van der Leeuw, S.E.,** “From “Pre-classic” to “Classic” and “Post-Classic” among the Maya: The Role of Information Processing and Socio-Environmental-Economic Values in the Emergence and Decline of “Watery” Cities”. In: *Sustainability and Water Management in the Maya World and Beyond* (Larmon, J.T., L.J. Lucero, and F. Valdez, Jr., eds.) pp. 171-183, Boulder: University Press of Colorado.

2.212 2022 Barton, M., M. Janssen, A. Lee, **S.E. van der Leeuw**, G. Tucker, C. Porter, J. Greenberg, L. Swantek, K. Frank, M. Chen, B. Jagers, “A New Model for FAIR”, *Proceedings of the National Academy of Sciences* (USA) Vol. 119 No. 35 e2202112119

2.213 2022 **van der Leeuw, S.E.** “Higher Education – Where to go, what to do?” In: *Fit for purpose? The futures of universities”*(J.W. Vasbinder & J.M. Sim, eds.) pp. 197-224 Singapore: World Scientific Publishing

2.214 2023 Misevic, D., Mainguy, G., Hannon, V., Poquet, S., Mann, R., Kizilcec, R., Michelucci, P., Irrmann, O., Pescetelli, N., Soellner, M., Macedo, M., Santolini, M., Sanagustin, M. Perez, Tupikina, L., Evans, L., Lemoie, K., Escamilla, J., Sevin, J.-M., Rafner, J., Sherson, J., Smith, J., Nikolayeva, I., Atal, I., Soulié, F., Taddei, F., Cherel, E., Lazega, E., Walker, E., Regester, D., Bedard, D., Shahaf, D., Huron, C., Masselot, C., Lindner, A., Ogan, A., **van der Leeuw, S.E.** “Harnessing collective intelligence for the future of learning – a co-constructed research and development agenda”, *Human Computation* 10(1) <https://hcjournal.org/index.php/jhc>

2.215 2023 Collste, D., Aguiar, A. P., Harmáčková, Z., Galafassi, D., Pereira, L., Selomane, O., **& van der Leeuw, S.E.**, “Participatory pathways to the Sustainable Development Goals: Inviting divergent perspectives through a cross-scale systems approach”. *Environmental Research Communications*. [https://doi.org/10.1088/2515-7620/acce25](https://urldefense.com/v3/__https:/doi.org/10.1088/2515-7620/acce25__;!!IKRxdwAv5BmarQ!d0B3D3BWq6heKHofI2EGQeTHUaw54lhJDGYMQJTNvqQvhlYCSMSyQ27vuKse5l-cfJrg5kcMXRDPTzFoHv7flw$)

2.216 2023 **van der Leeuw, S.E.**, “Tipping Points Emerge in the Interaction Between Narrative and Reality”, in: *Positive Tipping Points Towards Sustainability, (*A. Flamos, D. Mangalagiu, D. Tabara, eds), Springer

2.217 2023 **van der Leeuw, S.E.,** « Spatial Archaeology and Environmental Crisis : The last forty years » In: *Dynamiques des peuplements, des territoires et des paysages. Bilan et perspectives en archéologie spatiale, hommages à Jean-Luc Fiches. pp. 219-228,* Nice : APCDA

**Papers submitted or in press.**

2.218 Renn, O., I. Chabay, **S.E. van der Leeuw** & S. Droy, “The Role of Scientific Expertise for Sustainability Transformations”, under reconsideration.

2.219 **van der Leeuw, S.E.,** “Innovation, Perspectives and Commons”, background paper for workgroup 1 of the 33rd Strüngmann Forum “How Collaboration Arises and Why It Fails,” May 8-13, 2022, to be published by MIT Press (2024).

2.220 Pacheco-Vega, R., R. D. Hardin, A. C. C. Coolen, G. E. Marcus, C. Nierstrasz, J. Sulik, S. E. van der Leeuw, P. Verschure, A. Von Schenk, “What is collaboration good for?” Group synthesis paper of workgroup 1 of the 33rd Strüngmann forum “How Collaboration Arises and Why It Fails,” May 8-13, 2022, to be published by MIT press (2024).

2.221 **van der Leeuw, S.E.** & G. Dirks, “From Comprehension to Competency”, to be submitted to *Nature Sustainability*

2.222 **van der Leeuw, S.E.** & G. Dirks, “The Illusion of Control”. Invited paper prepared for the conference *Illusion of Control* (J.-W. Vasbinder, organizer), Stockholm, May 15-17, 2023, submitted as a Special Issue in “*Global Perspectives*” (J.-W. Vasbinder, V. Galaz, S.E. van der Leeuw, eds.). (2024)

2.223 Dirks, G., **S. E. van der Leeuw,** in press, “Society-Building as Collaborative Selection of Information-Processing Dimensions?”

2.224 **van der Leeuw, S.E., M. Schoon, D. Biggs, H. Biggs**, “Climate Change, Covid-19, Black Lives Matter …”

**Reviews, etc. in print**

3.1 1978 CA\* comment on: D.W. Read and S. LeBlanc, “Descriptive statements, Covering Laws and Theories in Archaeology”, *Current Anthropology* 19, pp. 328-9.

3.2 1981 CA\* comment on: P. Rice, “Evolution of specialised pottery production”, *Current Anthropology*, 22, pp. 235-236.

3.3 1982 Review of: D.L. Clarke, “Analytical Archaeology”, 2nd ed., *Bibliotheca Orientalis*, 39 (5-6), col. 676-679.

3.4 1983 Review of: O.S. Rye, “Pottery Technology: Principles and Reconstruction*”*, *American Antiquity,* 48 (1), pp. 206-207.

3.5 1983 Review of: S. Champion, “Archeologische Termen en Technieken” (Dutch edition of Dictionary of terms and techniques in archaeology), *Bulletin Koninklijke Nederlandse Oudheidkundige Bond*, 82(2), pp. 36-37.

3.6 1985 Review of: “25 years of medieval archaeology” (D.A. Hinton, ed.), *Archaeological Journal,* 1984, pp. 349-350.

3.7 1987 Review of: “Archäologische und schriftliche Quellen zur spätmittelalterliche und neuzeitliche Geschichte der Hansestadt Lübeck” (A. Falk, R. Hammel, eds.) *Nouvelles de'l Archéologie* 29, pp. 61.

3.8 1994 Review of : Gérard Chouquer & François Favory. “Les Arpenteurs Romains: Théorie et Pratique”. *Antiquity.* 68 : 461-462.

3.9 1999 “ Prospection thématique des ateliers de potiers d’Argonne ”, *Bilan Scientifique du Service Régional de l’Archéologie Lorraine* 1997, pp. 131-132

3.10 2001 “Ateliers de potiers de l’Argonne*”, Bilan Scientifique du Service Régional de l’Archéologie de Champagne-Ardennes* 1999, pp. 134-136

3.11 2002 « Introduction », in *Princesses celtes en Lorraine* (L. Olivier, ed.), Jarville-Malgrance : Musée de l’Histoire du Fer, pp. 1-4.

### 3.12 2010 (with Anick Coudart) « Serge Cleuziou », *Annales de la Fondation Fyssen* 2010, pp.

3.13 2017 « Preface », in: *« Peupler la terre - de la préhistoire à l’ère des métropoles* » (L. Sanders, ed.), Besançon: Presses Universitaires François Rabelais

3.14 2021 « Preface » in « Peopling the World – from prehistory to the age of the metropoles » (L. Sanders, ed.), [https://books.openedition.org/pufr/](https://urldefense.com/v3/__https:/books.openedition.org/pufr/__;!!IKRxdwAv5BmarQ!KzrbzrvCwjGc5hPlb2M9qr4MT93Lh94vGMTnUZZUv1n0XWqbF2bJgfbI0eOkMuikIT3c1A$).

3.15 2023 “Preface”, in: H. J. M. de Vries *“Sustainability Science*”,2nd edition*.* Cambridge University Press.

**Reports and unpublished manuscripts**

4.1 1972 Westeuropa en de Levant in de vroege Middeleeuwen: enige opmerkingen bij het gebruik van protohistorische methoden bij de studie van prehistorische verschijnselen (Western Europe and the Levant in the Early Middle Ages: some remarks concerning the use of the methodology of protohistory in studying prehistoric phenomena), Unpubl. 'Doctoraal' (M. Litt.) thesis, University of Amsterdam, iv + 132 pp.

4.2 1980 *Analysis of the Early Neolithic pottery from Piana di Curinga, Calabria.* (Report to the Laboratorio di Ecologia, Universita di Parma, Italy.)

4.3 1993 (editor) *Understanding the natural and anthropogenic causes of soil degradation and desertification in the Mediterranean basin*, (First year report to the Commission of the European Communities, DG XII, on contract EV5V-0021). 450 pp.

4.4 1993 (editor, with J.-L. Fiches and F. Audouze), *Hommes, espaces et techniques dans la région de Fréjus. Occupation et environnement dans le bassin de l’Argens depuis le Néolithique* (Rapport d’ATP “Grands Projets d’Archéologie Métropolitaine), 543 pp.

4.5 1994 / 5 (ed. and author of a number o(cf. van der Leeuw  *the natural and anthropogenic causes of soil degradation and desertification in the Mediterranean ba­sin*. Bruxelles : DG XII de l'Union Européenne (Final report of the ARCHAEOMEDES I Project ), 6 vol.

Vol. 1 : *Land degradation in Epirus*, 330 p.

Vol. 2 : *Temporalities and desertification in the Vera basin*, 326 p.

Vol. 3 : *Dégradation et impact humain dans la moyenne et basse vallée du Rhône dans l'Antiquité*, 2 parts, 281 p. + 315 p.

Vol. 4 : *Degradation, desertion and urban impact in the lower Rhone valley 1800-1990*, 159 p.

Vol. 5 : *Agricultural production and water quality in the Argolid, Greece*, 2 vols, 166 p. + 88 p.

Vol. 6 : *Synthesis*, 442p.

4.6 1995 (editor, with N. Winder), *Environmental perception and policy making: Cultural and Natural Heritage and the Preservation of Degradation-Sensitive Environments in Southeern Europe* (First year report to the Commission of the European Communities, DG XII, on contract EV5V-CT94-0486), 156 pp.

4.7 1996 (ed., with N. Winder) *Environmental perception and Policy Making: Cultural and Natural Heritage and the Preservation of Degradation-Sensitive Environments in Southern Europe.* Brussels:DG XII of the European Union (2nd annual report), 2 vols, 227 pp.

4.8 1996 (ed.) *Les ateliers céramiques gallo-romains et médiévaux de l’Argonne.*Metz: SDA de Lorraine (1st. annual report), 56 pp.

4.9 1997 (ed., with N.P Winder) *Environmental perception and Policy Making: Cultural and Natural Heritage and the Preservation of Degradation-Sensitive Environments in Southern Europe.* Brussels:DG XII of the European Union (final report ), 4 vols, 522 pp.

Vol. 1 : P. Filippucci, S. Green, P.A. Jeffrey, R. Langevin, M. Lemon, R.A. Seaton, S.E. van der Leeuw, N.P. Winder, B. Wirtz. Perception, policy and unforeseen consequences: an interdisciplinary synthesis, 191 pp.

Vol. 2 : P. Filippucci, The politics and perception of territorial value: the case of Bassano, Italy, 120 pp.

Vol. 3 : S.F. Green. Notes on the nature and making of margins in Epirus, 116 pp.

Vol. 4 : M. Lemon. Integrative method and policy-relevant research in the Argolid, Greece, 94 pp.

4.10 1997 (ed.) *ARCHAEOMEDES II: Policy-relevant models of the natural and anthropogenic dynamics of degradation and desertification and their spatio-temporal manifestations.* Brussels : DG XII of the European Union (1st annual report), 331 pp.

4.11 1997 (ed.) *Les ateliers céramiques gallo-romains et médiévaux de l’Argonne.* Metz: SRA de Lorraine, 5 vols (2nd annual report), 738 pp.

4.12 1998 (ed.) *ARCHAEOMEDES II: Policy-relevant models of the natural and anthropogenic dynamics of degradation and desertification and their spatiotemporal manifestations*. Brussels : DG XII of the European Union (2nd annual report), 396 pp.

4.13 1999 (ed.) *Les Ateliers céramiques gallo-romains et médiévaux de l’Argonne*. *Rapport* *Triennal (1996-1999) .* Metz: SRA de Lorraine, 9 vols. (Final report)

vol. 1: *Introduction, conclusions, recommandations* (R. Brandt and S.E. van der Leeuw

vol. 2: *Prospections pédestres* (Chr. Denimal, M. Gazenbeek, L. Lautier, P. Martin-Ripoll, A.J. Spruijt)

vol. 3: *Carrottages, prospections géophysiques* (R. Exaltus, J. Orbons, S. Papamarinopoulos, S.E. van der Leeuw, P. Verhagen)

vol. 4: *Pré-étude des photographies aériennes* (S. Robert)

vol. 5: *Les fouilles de quelques fours gallo-romains* (M. Gazenbeek, L. Lautier)

vol. 6: *Les mollettes gallo-romaines de l’Argonne* (P. van Ossel, W. Dijkman, L. Meyer)

vol. 7: *Inventaire des sites* (M. Gazenbeek)

vol. 8: *Inventaire des céramiques trouvées en prospection* (C. Denimal, A.J. Spruijt)

vol. 9: *Analyse technique des céramiques* (A.J. Spruijt, S.E. van der Leeuw)

4.14 1999 (ed.) Final Report, *ARCHAEOMEDES II: Policy-relevant models of the natural and anthropogenic dynamics of degradation and desertification and their spatiotemporal manifestations,* Brussels : DG XII of the European Union

vol. 1 : *A policy-relevant integrative framework for examining socio-natural dynamics in the Marina Baja (Spain) and the Argolid (Greece)* (M. Lemon, T. Oxley, S.F. Green, M. Mata-Porras, C. Blatsou, P.M. Allen, A. Robinson), 446 pp

vol. 2 : *Negotiating preceptions of fragile environments in Epirus, Northwestern Greece* (S.F. Green, S. Servain-Courant, V. Papapetrou, V. Nitsiakos, G.P.C. King), 152 pp.

vol. 3 : *Environmental sustainability and the recent socio-spatial changes in the portuguese region of Baixo Mondeg*o (P. Hespanha, J. Reis, P. Reis, L. Sampaio, P. Triboulet), 118 pp.

vol. 4 : *Human ecodynamics and land-use conflict: monitoring degradation-sensitive environments in the Empordà, north-east Spain* (J. McGlade and M. Picazo, eds.) 260 pp.

vol. 5 : (tomes 1 and 2) *A multiscalar investigation into the dynamics of land abandonment in Southern France* (S. Lardon, L. Sanders, et al.), 286 + 178 pp.

vol. 6 : *A MODFLOW model of aquifer flow in the Argolid, Greece* (A. Poulovassilis & T. Giannoulopoulos), 115p.

vol. 7 : N.P. Winder, *The Path-Finder as a Historian*, 212 pp.

4.15 2000 “Policy makers, policies and policy problems seen from the field” (with M. Mata-Porras, C. Blatsou, R.A.F. Seaton, N.P. Winder), in: *MODULUS, A spatial modelling tool for integrated environmental decision-making* (G. Engelen, ed.), 3 vols. + 1 CD-ROM, Brussels: European Union (DG Research), pp. 28-100.

4.16 2001 (ed., with S. Oberg) *“Environmental Communication*” Final Report to DG Research of the European Commission on the Concerted Action*“Environmental Communication”* (contract ENV5-CT97-0684). Brussels: European Union (DG Research), 240 pp.

4.17 2001 S.E. van der Leeuw. Brief report on a preliminary study of the shaping techniques used to make some of the vessels from the Hili cemetery (Abu Dhabi, UAE), 30 pp.

4.18 2001 S.E. van der Leeuw. *Note sur l’Etat et le Développement de l’Archeologie Environnementale en France*. Rapport pour le Président de l’Institut National pour la Recherche en Archéologie Préventive, 21 pp.

4.19 2002 (ed.). *Développement d’outils pour une politique de valorisation du patrimoine paysager: le cas de l’Argonne*. Rapport au ministère de l’Environnement et de l’aménagement du Territoire. Paris : MATE, 2 vols, 232 + 198 pp.

4.20 2002 (with M. Godelier, Ph. Laredo, H. Bruhns et al.) *L’état des Sciences de l’Homme et de la Société en France et leur rôle dans la construction de l’Espace Européen de la Recherche.* Report to the Prime Minister of France, Paris: Maison des Sciences de l’Homme/EPHE

4.21 2003 (with M. Godelier, M. Kaase, John H. Smith) *Defining a Methodology to Assess the State of the Art of the Social Sciences and Humanities in Europe*. Discussion Paper, Prepared for the European Commission’s Directorate-General for Research. Brussels.

4.22 2004 (ed.), Comptes-rendus du “*Colloque de Prospective* *Societe-Environnement”.* Proceedings of the (French) national meetings on the Society-Environment research program of the CNRS/INSU. Paris, February 2004, 175 pp.

4.23 2005 (with many others), *Global Land Project Science Plan and Implementation Strategy*, Stockholm: IGBP

4.24 2007 (coordinator, with J. Buizer, D. Sarewitz and C. Redman, members), *Transforming The Global Institute Of Sustainability: Inventory, Analysis and Strategy Suggestions*. Report prepared for the Provost and the Vice-President for Research and Economic Affairs of Arizona State University, 120 pp + 280 pp appendices.

4.25 2009 (with K.A. Hibbard, R. Costanza, C. Crumley, S. Aulenbach, J. Dearing, J. Morais, W. Steffen, Y. Yasuda) *Developing an* *Integrated History and Future of People on Earth* *(IHOPE):* *Research Prospectus,* Stockholm: IGBP

4.26 2010 (with J.A. Dearing, R.W. Battarbee, S. Bhagwat, R. Costanza, M.E. Edwards, P. Gell, K. A. Hibbard, T. Kiefer, R. Marchant, J.M.F. de Morais, S.Sugita, M. Umer, H. Wanner, K.J.Willis) *“Long term human-environment interactions”* Scoping paper for IPCC AR5 Working Group II produced by IGBP-PAGES-PHAROS and IGBP-IHDP-IHOPE research communities.

4.27 2011 “Long-term study of complex society-environmental interactions (WP7)” in: Final report of the *Global Systems Dynamics and Policy Project* of the EU's ICT Directorate, pp. 65-83

4.28 2013 Jaeger, C., P. Jansson, S.E. van der Leeuw, M. Resch, J.D. Tabara, *"GSS: Towards a Research Program for Global Systems Science"*. Prepared for the Second Global Systems Science Conference, Brussels, June 10-13. 2013.

4.29 2013 van der Leeuw, S.E., *Late Lessons from Early History - an experimental project in trans-disciplinary research funded by the ASU President's Science Initiatives Fund,* Report to the President of Arizona State University, Tempe AZ.

4.30 2016 Quirion, R., G. Brasseur, P. Domenech Rosell, F. Gianotti, N. Labrie, J. Payette, C.M. Sotomayor Torres, **S.E. van der Leeuw**, L. Vinet, *Évaluation Scientifique du CNRS*, confidential report to the Director General of the CNRS, Paris. Conclusion of the evaluation in July 2016.

4.31 2019 Verviers, D., A.-M. Adam, S. Faravel, E. Rostang, M. Roth-Zehner, M.-P. Ruas, **S.E. van der Leeuw**, *Rapport d’évaluation de l’Institut national de Recherches Archéologiques préventives (Inrap)*. Report submitted to the *Haut Comité de l’évaluation de la Recherche Scientifique*, Paris. Conclusion of the 2018-2019 evaluation.

4.32 2019 Aguiar, APD, D. Collste, D. Galafassi, Z. Harmackova, K. Houngbedji, M. Mesfin, D. Ndahiro, L. Pereira, O. Selomane, **S.E. van der Leeuw**, *The Second African Dialogue on the World In 2050: How to attain the SDGs within planetary boundaries: Agriculture and food systems.* Report on a Multi-Actor Dialogue for TWI2050, 30 – 31 October 2018, Kigali, Rwanda. Sustainable Development Goals Center for Africa and SwedBio/Stockholm Resilience Centre at Stockholm University.

4.33 2019 X. Bai, B. Begashaw, M. Bursztyn, I. Chabay, S. Droy, C. Folke, K. Fukushi, J. Gupta, H. Hackmann, E. Hege, C. Jaeger, A. Patwardhan, O. Renn, G. Safonov, P. Schlosser, P. Skaloud, C. Vogel, **S. van der Leeuw**, Y. Zhang, *Changing the scientific approach to fast transitions to a sustainable world: Improving knowledge production for sustainable policy and practice*, Global Sustainability Strategy Forum, March 3-6, 2019, Discussion Paper, Institute for Advanced Sustainability Studies, Potsdam

4.34 2020 Zhang, Y., B. Moseley, S. Zheng, **S. van der Leeuw**, J. LIN, Y. (Nina) Chen, X. Li, W. Xu, J. Yang, D. Li, L. Liu, T. Li, X. Qiu, X. Yu, Y. Zhang, X. Cong, *Accelerating China's Green Urbanization Based on Ecological Civilization,* (Green Urbanization Strategy and Pathways toward Regional Integrated Development Special Policy Study), Beijing:China Council for International Cooperation on Environment and Development

4.35 2020 Chabay, I., S. Droy, A. Patwardhan, O. Renn, **S.E. van der Leeuw**, “*Science and Business: Working together for Sustainability – Workshop Summary*” Institute for Advanced Sustainability Studies, Potsdam: Global Sustainability Strategy Forum. [https://www.iass-potsdam.de/en/output/publications/2020/global-sustainability-strategy-forum-science-and-business-working-together](https://urldefense.proofpoint.com/v2/url?u=https-3A__www.iass-2Dpotsdam.de_en_output_publications_2020_global-2Dsustainability-2Dstrategy-2Dforum-2Dscience-2Dand-2Dbusiness-2Dworking-2Dtogether&d=DwMGaQ&c=l45AxH-kUV29SRQusp9vYR0n1GycN4_2jInuKy6zbqQ&r=ZmvZRicwtZ5aGYhQJwg99hyQmE7O2dx-9K0_MuWLELw&m=ObbT-5f4HD3YOGXqh8NVUV9tVrOdmWCl-faEMp9YSUw&s=Y98ghJWn96KaMKLBlzBgZO7ePl_u_yA_3OkmuTVZulI&e=)

# 4.36 2021 Gwiszcz, J., S.E. van der Leeuw, Sha Xin Wei, “Sea Change Horizon Scan Report” Submitted April 2021 to the United Nations Development Program’s Office of Human Resources under RFP “Horizon scan study for future professional certifications”. Tempe, Arizona, ASU Synthesis Center.

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Urbanization and urban dynamics

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(With A. Coudart) Europe: A Continent Rediscovered by Archaeology

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1990 : “ Ceramic Petrography of the Late Minoan on Eastern Crete ” (P. Day) ;

* “ Ceramic Technology of the Nubian pottery from Quasr Ibrim ” (L.M.V. Smith).
* “ Dynamical Modelling of Long-term Trends in the archaeology of Wessex ” (J. McGlade).

1993 : “ Ritual and Rubbish in the Iron Age of Wessex ” (J.D. Hill).

1994 : “ Burial rite of Middle Neolithic Beaker Cultures in Britain ” (K. Misoguchi) ;

* “ Acculturation in the Caribbean: the case of ‘La Poterie’ ” (S. England) ;
* “ Ceramic Ethnoarchaeology of Bolivian and Peruvian Highland Pottery ” (W.J.M. Sillar).

1995 : “ Burial customs of three Etrurian Cities ” (D. Thoden van Velsen) ;

* “ Social Structure and Cemeteries of the Iron Age in Eastern France ” (L. Olivier) ;
* “ Manufacture of Textiles in Iron Age England ” (D. DeRoche) ;

1997: “ Bronze Age / Iron Age Transitions in Northwestern Poland ” (H. Zawadska) ,

* “ Modelling Prehistoric Communications ” (S. Hudson).

**Université de Paris I / Panthéon-Sorbonne**

1995 : “Occupation du sol et évolution environnementale depuis le néolithique dans la Montagnette et la partie occidentale des Alpilles ” (M. Gazenbeek).

1998 : “ La céramique du haut moyen âge (6e-10e s.) du sud de la vallée du Rhin supérieur ” (M. Châtelet)

1999 : “ Les poteries et les potiers de Vallauris, 1501-1945 ” (J.-F. Petrucci) ;

* “ Outils isotopiques pour l’analyse des pratiques d’élevage au néolithique ” (M. Balasse)
* **Habilitation:** “ Dynamique des paysages et intervention humaine, du Tardi-glaciaire à l’Holocène, de la Méditerranée aux préalpes sud-occidentales - apport de l’analyse anthracologique ” (S. Thiébault)

2000 : “ Contribution des micromammifères de la Balma d’Abeurador à la connaissance de l’évolution des paysages tardi-glaciaires et holocènes en Languedoc-Roussillon ” (V. Mistrot).

2001 : “ Subsistance, systèmes techniques et gestion territoriale en milieu insulaire antillais précolombien - Exploitation des Vertébrés et des Crustacés aux époques Saladoïdes et Troumassoïdes de Guadeloupe (400 av. J.-C. à 1 500 ap. J.C.) ” (S. Grouard).

2002 : “ Étude de la malacofaune des sites mésolithiques et néolithiques de la façade atlantique. Contribution à l’économie l’identité culturelle des groupes concernés ” (C. Dupont)

* “ Méthodes de télédétection en infra-rouge : applications à l’archéologie en Crète et dans la vallée de l’Aisne ” (M. Civet) :
* “ Paysage et peuplement dans l’est lyonnais et l’Ile Crémieux de la protohistoire au moyen âge” (E. Gonzalez) :

2003 :“ Pétro-archéologie des mortiers de support des peintures murales romaines ” (A. Coutelas)

* “ Artefacts, environnements naturels et comportements des chimpanzés du Sud-Ouest de la Côte d’Ivoire : une approche étho-archéologique ” (V. Leblan) ;
* “ Mollusques terrestres holocènes et caractérisation de l’anthropisation en Provence à différentes échelles d’espace et de temps ” (S. Martin);
* “ L’exploitation des invertébrés marins par les populations précolombiennes des petites Antilles ” (N. Serrand)

2004 : “ Géographie historique d’une région frontalière du Sud du Cambodge. Le Phnom Bayang et ses environs ” (E. Bourdonneau)

* “ L’évolution de l’agriculture depuis le néolithique jusqu’à l’époque historique à travers les données archéo-botaniques en Syrie ” (G. Klesly);

2005 : **Habilitation:** “ Angelus novus : temporalités archéologiques et temps du passé ” (L. Olivier)

**Taken over by others because of my departure**

* J.-C. Bats (université de Paris I) : “Représentation sociale et appropriation de l’espace : Les eaux de surface”
* S. Dommelier (université de Reims) : “Paléo-parasitologie du néolithique alpin” ;
* L. Galfo (université de Paris I) : “Études des techniques d’exploitation des domaines et de l’organisation économique et administrative des ordres militaires de Picardie (XIe-XVIe siècle)” ;
* J. Tourneur (université de Paris I) : “Étude de la céramique médiévale des fouilles du Collège de France” ;
* O. Tsepova (université de Paris I) : “L’art décoratif en Bactriane à l’époque Kouchane (1er s. av. J.-C. au 4e s. de notre ère)” ;
* P. Verdin (université de Paris I) : “Établissement d’une typologie des structures de stockage de l’âge du fer en Ile de France par l’analyse des phytolithes”.
* **Habilitation:** F. Djindjian (université de Paris I) : “ Contribution aux méthodes et techniques en archéologie quantitative”

**Arizona State University**

2013 J. Watts “The Organization and Evolution of the Hohokam Economy: Agent-Based Modeling of Exchange in the Phoenix Basin, AD 200-1450”.

2013 C. Roberts "The Form, Aspect, and Definition of Anglo-Saxon Identity: A study of Medieval British words, deeds, and things"

2015 S. McClintock, "Challenges of Advocacy for Sustainability Scientists"

**Principal Funded Research Projects**

* 1972-1976, *"Euphrates Valley Survey and Soundings, Syria",* Netherlands Organization for Scientific Research, co-PI
* 1979-1982, *"Assendelver Polders Survey and Excavations, The Netherlands",* Netherlands Organization for Scientific Research,co-PI, Dfl 450,000
* 1988-1991,*"Histoire de l'occupation humaine du bassin de l'Argens et des Maures Orientales"***,** Centre National de la Recherche Scientifique and Ministry of Culture, France, co-PI, FFr 250,000
* 1991-1993*, "Massif des Maures Survey, France",* British Academy, PI
* 1992-1993*, "ARCHAEOMEDES I: Understanding the natural and anthropogenic causes of soil degradation and desertification in the Mediterranean basin",* DG Research of the European Union, PI, ECU 1,500,000
* 1996-1999, *"Les Ateliers céramiques gallo-romains et médiévaux de l’Argonne",* French Ministry of Culture, PI, FFr 1,000,000
* 1993-1994, *"Environmental Perception and Policy Making",* DG Research of the European Union, PI, ECU 200,000
* 1995-1997*, "ARCHAEOMEDES II: Policy-relevant models of the natural and anthropogenic dynamics of degradation and desertification and their spatiotemporal manifestations ",* DG Research of the European Union, PI, ECU 2,000,000
* 1997-1999, *"MODULUS: A spatial modelling tool for integrated environmental decision-making",* DG Research of the European Union, co-PI, ECU 500,000
* 1997-2001, *"Environmental Communication",* DG Research of the European Union, co-PI, ECU 200,000
* 1998–2004, *European Heritage Laboratory “Archives of European Archaeology”*, DG Culture of the European Union and various national bodies, co-PI, ECU 1,800,000
* 2002–2005, *“The resilience of urbanised socio-natural systems”* James McDonnell Foundation (USA), co-PI, US$ 500,000
* 2000-2002*, "Développement d’outils pour une politique de valorisation du patrimoine paysager: le cas de l’Argonne*", Ministry for Public Works and Spatial Planning, France, PI, FFr 550,000
* 2000-2004, “ A European Network on Long-term socio-environmental research ” – DG Research of the European Union, co-PI, Euro 450,000
* 2003-2007, *"The Information Society as a Complex System"*, DG Information and Communication Technology, European Union, co-PI, Euro 1,500,000
* 2005-2015, International Project Office *"Urbanization and Global Environmental Change*", US National Science Foundation, co-PI, US$ 4,000,000
* 2006-2009, *"The Phoenix Innovation Project",* Kauffman Foundation, USA, PI, US$ 300,000
* 2011-2013, *"Global Systems Dynamics and Policy"*, DG Information and Communication Technology, European Union, co-PI, Euro 1,500,000
* 2011-2014, *"INSITE"*, DG Information and Communication Technology, European Union, co-PI, Euro 1,000,000
* 2014-2017, "*Linking Earth System and Socio-economic models to predict and manage changes in land use and biodiversity*", PI, NSF through Future Earth, US$ 100,000
* 2015-2018, "GREEN-WIN", DG Research of the European Union, Euro 4,500,000, Senior Scientist
* 2015-2018, “CECAN” (Centre for the Evaluation of Complexity Across the Food-Water-Energy Nexus) Senior Scientist, UK Research Councils, PST 4,500,000
* 2018-2021, “Global Sustainability Strategy Forum”, Co-PI, Volkswagen Foundation, Euro 250,000
* 2019-2021, “Establishing the Open Modelling Foundation”, co-PI, Sloan Foundation, $ 150,000
* 2020-2021, “UNDP-ASU ‘Sea Change’ project, Senior scientist, $ 102,000

# Conferences, symposia organised

1980 • International Symposium on 'Growth of Complexity', Institute for Pre- and Protohistory, University of Amsterdam, Holland, Sept. 3-4.

• Symposium on 'Roman and Native in the Low Countries', Department of Archaeology Free University, Amsterdam, Holland, December 17-18, (Co-organiser with R.W. Brandt, J. Slofstra and W.J.H. Willems)

1982 • Second Wenner-Gren Symposium on Ceramics: 'Multidimensional Approaches to the Study of Pottery', held in Lhee, Holland, March 14-20.

1984 • Symposium on the 'Assendelver Polders Project', Theoretical Archaeology Group Conference, Cambridge, December 15.

1986 • Symposium on 'Social and Economic Contexts of Technological Change', World Archaeological Congress, Southampton, September 4-7 (Co-organiser with Dr. R. Torrence).

1987 • Symposium on 'Contrastive Strategies in Archaeology', Theoretical Archaeology Group Conference, Bradford, December 7.

1988 • 'Empires in Comparative Perspective', Society for American Archaeology, Phoenix, AZ, April 28 (with Dr. T. Earle).

• Workshop on Ancient Ceramic Technology, Université de Paris I - Sorbonne, June 8-9

• 'Problems in Iron Age Archaeology', Cambridge, Dec. 8-9. (With Dr. C. Morgan & G. Woolf).

1989 • ERASMUS Advanced Seminar on "Archaeological Reconnaissance", Cambridge (Department of Archaeology & Fitzwilliam College), April 1-13.

• ERASMUS Advanced Seminar on "Ancient Ceramic Technology", Paris (Université de Paris I - Sorbonne), May 15-26.

• Anglo-French Comparative Workshop on Technology, Cambridge, November 16.

1990 • ERASMUS Advanced Seminar on "Archaeology as a Resource", Amersfoort (Rijksdienst voor het Oudheidkundig Bodemonderzoek), The Netherlands, May 13-23

• ERASMUS Advanced Seminar on "Stone Tool Technology", Etiolles-Pincevent,Cuiry-lès-Chaudardes (University of Paris I/Sorbonne, URA 12 & 28, CRA/CNRS) June 21-July 1,

• Wenner-Gren Symposium on "Dynamical Modelling and Human Systems", Cambridge, December 10-14 (With A.C. Renfrew),

1991 • ERASMUS Advanced Seminar on the Data Processing of Archaeological Images, Valbonne, June 20-July 1.

1992 • Table-Ronde sur "Les frontières de l'Empire Romain dans une perspective comparative", Nemours, May 17-20 (with P. Brun, Chr. Goudineau and D. Whittaker).

• ERASMUS Advanced Seminar on "the Archaeological Landscape and its Management", Valbonne, September 1-11.

1994 • 15th Rencontres Internationales d'Archéologie et d'Historie, Antibes, on "L'Homme et la dégradation du milieu", October 20-22, 1994

1995-96 • Member of the Organising Committee, "International Conference on Desertification and Land Degradation in a European Context : Research Results and Political Consequences", Sissi, GR, 28.10-1.11.1996

1997-99 • Member of the Organising Committee, MEDESERT 1999, Perpignan (Fr.)

2000 • (with T. Kohler) Santa Fe Institute workshop on “ Conceptualisation of human-environmental dynamics: steps towards a unified evolutionary modelling framework ” Santa Fe Institute, NM. December 4-7, 2000

2001 • (with U. Svedin and T. Kohler)FORNAS-SMC workshop on “ Emergence, Transformation and Decay in Socio-natural Systems ”, Abisko/Kiruna, May 19-24, 2001

2001 • (With C. Lévèque, M. Grove and C. Redman) CNRS-NSF collaborative planning workshop on urban ecology, Baltimore, October 25-29, 2002

2001 • Round table “ Influence des pressions humaines sur les grandes dynamiques naturelles ” in the conference on “ Quelles natures voulons-nous, Quelles natures aurons-nous ? ”, of the “ Environnement, Vie et Société ” Program of the CNRS, Lille, 13 November*,* 2003

2004 • National research planning conference ‘Sociétés et Environnements’, INSU/CNRS, Paris, February 5-6, 2004

• Joint Santa Fe Institute – Slovenian Academy of Sciences workshop and symposium on "The Dynamics of Groups and Institutions. their emergence, co-evolution, and environment", Ljubljana, June 5-11, 2004

• (with T. Kohler) Santa Fe Institute Workshop on “Modeling Long-Term Culture Change”, Santa Fe, October 24-27, 2004

2005 • IHDP Mid-Term Review Workshop “Key Challenges for Human Dimensions Research”, Tempe, AZ, February 9-12, 2005

• IHDP Workshop on “Modeling Socio-Environmental Systems”, Tempe, AZ, February 13-14, 2005

• Plenary Session “The Challenge of Inter–disciplinarity in Global Change Research: Epistemological and Organizational Aspects”, IHDP Open Science Meeting, Bonn, Germany, October 12, 2005

2006 • (with G. Brasseur, T. Hoskins, P. Leadley, G. Gallopin)“Future Directions in Earth System Modeling”, symposium organized at the Earth Systems Science Partnership Open Science Conference, Beijing, China, November 12, 2006

2007 • (with P. Bourgine, R. Dum, J. Johnson) DG Research workshop on “Science of Complex Systems: Can Science Guide Policies?”,Brussels, December 16-17, 2007

2008 • First IHOPE-Americas workshop on SW US Archaeology, School for Advanced Research, Santa Fe NM, January 20-23, 2008

• (with M. Hegmon) Second IHOPE-Americas workshop on SW US Archaeology, Santa Fe Institute, July 17-21, 2008

• (with R. Costanza and L. Graumlich) First IHOPE International workshop, National Center for Ecological Analysis and Synthesis, Santa Barbara, CA, November 9-13, 2008

2009 • (with V. Scarborough) First IHOPE-Americas workshop on Maya Archaeology, School for Advanced Research, Santa Fe NM, January 14-17, 2009

• (with R. Costanza and L. Graumlich) Second IHOPE International workshop, National Center for Ecological Analysis and Synthesis, Santa Barbara, CA, September 23-26, 2008

2007-2009 • Member, International Organizing Committee, 7th Open Science Meeting, International Human Dimensions of Global Environmental Change Programme, Bonn, April 26-30, 2009

2008-2009 Member, Organizing Committee, “Sustainable Development: A Challenge for European Research”, Brussels, May 26-28 2009

2009-2010 • Member, Program Committee, Society of American Archaeology Annual Meetings, April 2010

2009-2011 • Co-Chair, International and Local Organizing Committees of the “Resilience 2011” International Meetings, Arizona State University, March 11-16, 2011

2010 • (with V. Scarborough) Second IHOPE-Americas workshop on Maya Archaeology, Arizona State University, January 13-17, 2010

• (with V. Scarborough) Third IHOPE-Americas workshop on Maya Archaeology, Amerind Foundation, Dragoon, AZ, August 14-17, 2010

• (with R. Costanza and L. Graumlich) Third IHOPE International workshop, National Center for Ecological Analysis and Synthesis, Santa Barbara, CA, September 16-19, 2011

• Chair of Local Organizing Committee "Resilience 2011" - Open Science Meeting, Arizona State University, March 2011

2011 • Member, Executive Program Committee, American Anthropological Association Meetings, Montreal (Canada), November 16-20, 2011

2012 • Organizer, International Conference on Sustainability Science 2012, Arizona State University, February 21-24, 2012

* Co-organizer (with C. Jaeger), Ist Open Global Systems Science Conference, Brussels, October

2013 • Co-organizer, Workshop on "Global Systems Science", Arizona State University, February 25-26, 2013

• Co-organizer, Workshop on "The role of narratives in science communication", Brussels, March 13-14, 2013

• Co-organizer, Workshop on "Innovation in Biology and Society", ECLT, Università Ca'Foscari, Venice, March 18-21, 2013

• Co-organizer, Workshop on "Urbanization, Resilience and Prosperity", Arizona State University, April 17-19, 2013

• Co-organizer, II Open Global Systems Science Conference, Brussels, June 10-13, 2013

2014 • Organizer, Workshop on "Rescuing Climate Negotiations", Arizona State University,Tempe AZ, February 5-6

• Co-organizer, III Open Global Systems Science Conference - "*Unpacking Green Growth*", Beijing, Brussels, Tempe AZ, Lu'An (Anhui, PRC), October 8-10 (with DG CONECT of the European Commission (Dr. R. Dum, Prof. N. Gilbert), Development Research Council of the State Council of the People's Republic of China (Prof. Y. Zhang), Global Climate Forum (Dr. D. Tabara), Beijing Normal University, PRC (Dr. Y. Lue).

• Organizer, Workshop "*The co-evolution of the Maya civilization as a complex system: lessons for the present and future*”, Tempe, November 15-17

2015 • Chair, CCS 2015 Global Conference on Complex Systems, Tempe, September 27-October 2 Organized together with the European Complex Systems Society and the Santa Fe Institute.

2016 • Co – Organizer, Workshop “Innovative Green Development Model in Less Developed Regions in China and its Global Implications” sponsored by the Development Research Center of the State Council, PRC, Global Green Growth Institute and Arizona State University, Shishou, Hubei Province, August 1-6

## • Organizer, Third Workshop “Modeling Challenges for Sustainability”, Research Institute For Humanity and Nature, Kyoto, Japan, September 27-October 1

2017 • Organizer, Fourth Workshop “Modelling Challenges for Sustainability”, Institute for Advanced Sustainability Studies, Potsdam, Germany, March 12-15

• Organizer, “AIMES 2.0 – Integrated Modeling of socio-environmental systems” Symposium session at the Resilience 2017 meetings, Stockholm, Tuesday 21 August

2018 • Organizer, WG 6 GREEN–WIN workshop, ECLT Venice, March 26-27

2019 • Co-organizer, workshop on “Approaches to understanding the future”, Arizona State University, January 8-9

• Co-organizer, two sessions on “Narratives”, Leuphana conference on “Leverage Points”, Leuphana University, February 6-8

• Co-organizer, Global Sustainability Science Forum, IASS/ASU, Potsdam, March 4-8

• Co-organizer, planning workshop on “Societal impacts on carbon-intensive regions”, Paris, March 28-29

• Co-organizer, workshop on the Open Modelling Foundation, IASS Potsdam, May 6-7

* Co-organizer, AIMES workshop on Large-scale land use modeling approaches, Tempe, September 8-10
* Co-organizer, workshop on “Intergenerational Futures”, RIHN, Kyoto, November 7-9

2020 • Co-organizer, Global Sustainability Science Forum, IASS/ASU, Potsdam, March 22-24

• Co-organizer, workshop Open Modelling Foundation, ASU, May 18-19

• Co-organizer, workshop Open Modelling Foundation, ASU, October 6-7

• Co-organizer, Global Sustainability Science Forum, IASS/ASU, Potsdam, October 14-16

1. • Co-organizer, “Buying Time” workshop, February 15-17, 2021

2022 • Co-organizer, “Illusion of Control” conference, Stockholm, May 15-17, 2023

# Other

1994 Scientific adviser, "Les apprentis sorciers", Film produced for DGXII and FR3 on desertification in Southern Europe.

1995 Contributor, travelling exhibition "Science, Technologie et Patrimoine en Europe" (French Ministries of Culture and Science)

**Related activities**

1984 Founder-Member of the Dutch Society for Ethnoarchaeological Research (SEAON), Utrecht

1986 - 2000 Member, Editorial Board, *Advances in Archaeological Method and Theory* (U.S.A.).

1987 - 2001 Member, Editorial Board, *Journal of World Prehistory* (Plenum, U.S.A.).

1988 - 1993 Member, Editorial Board*, Journal of Mediterranean Archaeology* (U.K.).

1988 - 1994 Member, Conseil Scientifique, Centre de Recherches Archeologiques, CNRS, France.

1988 - 1991 Member of the Council, Royal Anthropological Institute (and Chair, Archaeology-Anthropology Committee).

1989 - 1992 Member, Editorial Board, *MAN* (U.K.)

1989 - 1993 Coordinator, ERASMUS programme on Archaeology with Universities of Amsterdam, Universitat Autonoma de Barcelona, Université de Paris I-Sorbonne, Universitá di Padova, Universität des Saarlandes, Istituto Universitario Orientale, Napoli.

1991 - 1993 External examiner, Department of Archaeology, University of Edinburgh.

1995 - 2002 Co-editor of the series *Environment and Society* , Gordon and Breach publishers, London.

1996 - 1999 Member of the Steering Committee of the Concerted Action "*Degradation and desertification in Europe* of DG XII of the European Union

1996–2000 : Member of the International Scientific Board of the *Spatial Modelling Centre*, universités de Uppsala et d’Umea, Kiruna, Suède.

1997 - present  Expert to DG XII of the Commission of the European Union on matters concerning the *Climate and Natural Hazards Research Programme*

1997 - present Expert to DG X of the Commission of the European Union on matters concerning the *Archaeological Heritage*

1997 - 2004 Director of the DEA *Environnement et archéologie*, universities of Paris I, Paris VI, Paris X, MNHN, université de Franche Comté.

1999 – 2002 Member of the Advisory Board, *Mappa Mundi* Project of the *Hollandse Maarschappij der Wetenschappen*, Haarlem, Netherlands

2000 – 2009 Member, Conseil Scientifique, Fondation Fyssen, Paris

2000 – 2001 Member, Comité scientifique and Comité de suivi, Colloque “Les SHS dans l’espace européen de Recherche”, Ministère de la recherche, Paris.

2001 – 2003 Director of the section “ Archéologie environnementale ” of the l’UMR 7041–ArScAn, CNRS/universités de Paris 1 et 10, Nanterre.

2001 – 2003 Member, Editorial Board, *Ecosystems* (U.S.A.)

2001 – 2003 Member, Steering Committee, Concerted Action “MEDRAP”, DG Research, European Union.

2001 – 2002 Member of the Steering Committee, CNRS Research Programme on “ Société, Environnement, Développement Durable ”, Paris, France.

2001 – 2003 Fellow, Spatial Modelling Centre, University of Umea, Sweden.

2001 – 2003 Secretary-General (‘Rapporteur-Général’), French National Coordination Council for the Social Sciences and Humanities, Ministry of Research, Paris, France.

2001 – 2002 Member, working group preparing a report for the French prime minister on the development of the social sciences and humanities in a European context

2001 – 2002 Member of the Steering Committee, CNRS (Programme “Environnement, Vie, Société”) initiative on “Zones Atelier”, Paris, France.

2001 – 2003 “*Chargé de Mission*” on Environmental Archaeology for the Institut National de la Recherche en Archéologie Préventive (INRAP), Paris, France.

2002 – present Member, Editorial Board, *Natures, Sciences, Sociétés* (Elsevier, Paris).

2002 – 2004 Member of the Steering Committee of the Concerted Action “ MODLUC ”, DG Research, European.

2002 – 2005 Coordinator (with C. Lévèque) of the programme “ *A European network on long-term socio-environmental research*” funded by the DG Research of the European Union.

2003 – 2004 Deputy director, National Institute for the Sciences of the Universe, Paris

2004 – present Member of the Editorial Board of “*Ecology & Society”*

2004 – 2009 Member of the Scientific Council of the International Human Dimensions of Global Change Program

2004 – 2015 Member, Editorial Board of *“Global Environmental Change”*

2004 – 2008 Founding Member (and Member of the Board of Governors) of the Arizona Academy of Science, Technology and Arts

2005 – 2008 Member of the Council of the (European) Complex Systems Society

2005 – 2008 Member of the *Conseil Scientifique* of the *Réseau National des Systèmes Complexes*, France

2005 – 2008 Member of the *Conseil Scientifique* of the *Institut des Systèmes Complexes–Paris Ile de France*, France

2007 ­– 2009 Treasurer of the International Human Dimensions of Global Change Program

2007 – 2009 Member, International Program Committee, 7th Open Meeting, International Human Dimensions of Global Change Program

2007 – 2016 Member, Scientific Steering Committee, Analysis Integration and Modeling of the Earth System Program (IGBP)

2007 – 2010 Member, Board of Trustees, Global Institute of Sustainability, Arizona State University

2008 Member, Midterm Evaluation Committee, Department of Archaeology, Leyden University

2008 – 2015 Co-Chair, Scientific Steering Committee, IHOPE Research Program (IGBP-IHDP)

2009 – 2014 Member, Scientific Steering Committee, International Human Dimensions of Global Change Program

2009 – 2020 Chair, Board of Directors, *Digital Antiquity* (funded by the Andrew Mellon Foundation)

2010 – 2013 Member, Editorial Board, *Complexity Economics*

2011 – 2013 Member, Evaluation panel, ERC 'Synthesis' grant programme

2014 – 2019 Co-Chair, Scientific Steering Committee, Analysis Integration and Modeling of the Earth System Program (IGBP)

2014 Chair, Evaluation Panel of VU-IVM contribution to SENSE (Sustainability) Doctoral School of the Dutch Universities, The Netherlands.

2014 – 2016 Member of the Board of the European Conference on Complex Systems

2015 – Member, Advisory Board, *Urbanization*

2011 – 2019 Member, International Scientific Committee, OT-MED Laboratory of Excellence, France

2015 – 2018 Appointed Foreign Expert, Scientific Council, Centre National de la Recherche Scientifique, France

2015 – 2016 Vice-Chair, Program Evaluation Committee, Research Institute for Humanity and Nature, Kyoto (Japan)

2016 – Director Emeritus, Julie Ann Wrigley Global Institute of Sustainability

2016 Member, Visiting Committee, Centre national de la Recherche Scientifique (Paris, France)

2017 – 2018 Chair, Program Evaluation Committee, Research Institute for Humanity and Nature, Kyoto (Japan)

2018 HCERES evaluation committee of the *Institut national de la recherche en archéologie préventiv,* Paris (France)

**Fieldwork, etc.**

1968 Excavation of Neolithic/Bronze Age settlement near Medemblik, Holland. Director: H.H. van Regteren Altena, 2 months.

1970 Excavation of medieval church (Nicolaikerk), Utrecht, Holland. Field director (Project director H.H. van Regteren Altena), 6 months.

1971 Excavation of medieval deserted village at Kootwijk, Holland. Field director ad interim (Project directors H.H. van Regteren Altena and H.A. Heidinga), 1 month.

1972-1974 Survey, soundings and excavations in the Euphrates Valley, Syria (Chalcolithic, Bronze Age, Iron Age, Roman and Medieval periods). Field director (with H.J. Franken in 1st and 2nd seasons) in toto about 15 months.

1978 Excavation of Late Iron Age settlement in Schagen, Holland, Director, 2 months.

1979-1980 Consultant on ceramic analysis, Lubbub Archaeological Project, University of Michigan, Tuscaloosa, Alabama, U.S.A.

1979-1981 Regional research programme, including survey, soundings and excavations, Assendelver Polders, Holland. Director (with R.W. Brandt and A. Voorrips), total fieldwork 9 months.

1981 Ethnoarchaeological fieldwork on pottery manufacture, Bais Anthropological Project, University of Michigan, Negros Oriental, Philippines, 2 months.

1981-1985 Oer-IJ Estuary project, Holland, Survey and excavations, Co-investigator and consultant.

1987 Consultant on ceramic technology, University of Massachussetts, Amherst, Mass., U.S.A.

1987 Excavations of Iron Age artificial mound, Uitgeest, Holland, 1 month.

1987 Ethnoarchaeological fieldwork on decision making among potters, Mexico, 1 month.

1988 Analysis of Burial Remains of Late Mississippian Cemetery at Nodena, Arkansas in Alabama Museum of Natural History, Mound State Monument, AL, U.S.A

1988 Excavation of Late Neolithic/Middle Iron Age site, Saconin nr. Soissons, France, 3 wks.

1989 Ethnoarchaeological fieldwork on decision making among potters, Michoacan, Mexico, 1 month.

1990-91 Excavation of an Iron Age defended hilltop site, Peigros (Ste Maxime, Var, France), 2 months.

1991 Ethnoarchaeological fieldwork on decision making among potters, Michoacan, Mexico, 1 month.

1991-3 Survey of Massif des Maures (Var, France), 12 weeks.

1993 Soundings in the Massif des Maures (Var, France), 1 month

1994 Soundings in the Massif des Maures (Var, France), 1 month

1995 Survey and soundings in the Massif des Maures (Var, France), 1 month

1996-8 Survey and soundings of the roman pottery workshops in the Argonne, France, 5 months

2002 Analysis of bronze-age ceramics from the Hili cemetery, United Arab Emirates, 1 week

2003 Analysis of bronze-age ceramics from the Hili cemetery, United Arab Emirates, 1 week

2008 Ethno-archaeological fieldwork on pottery-making at Masafi, United Arab Emirates, 1 week

**Papers read since 1985**

1985 • "Pots may speak, but do we know their language?" Invited lecture, Department of Prehistory and Archaeology, Sheffield University, February 26.

* "Some remarks on ceramic variability." School of American Research Advanced Seminar on "Social and Behavioural Sources of Ceramic Variability" (W. A. Longacre, organiser), Santa Fé, N.M., March 25-29.

• "Social Change in the Late Bronze Age/Iron Age in Western Holland" Invited lecture, Department of Anthropology, Columbia University, New York, April 2.

• "Pots may speak, but do we know their language?" Invited lecture, Department of Anthropology, State University of New York at Binghamton, April 4.

1986 • "Revolutions Revisited. Theories of Social Change in Prehistory: an appraisal and some new directions", Paper presented at the V. Gordon Childe Symposium, Universidad Nacional Autonoma de Mexico, Mexico D.F., July 7-11.

• "Why Government, why cities?" Some remarks on the origins of Complex Societies and Urbanism", Invited Lecture, Instituto de Investigaciones Anthropologicas, Universidad Nacional Autonoma de Mexico, Mexico D.F., August 1.

• "A Dutch example of wet-site archaeology and its potential." International Conference on wet-site archaeology, University of Florida, Gainesville, U.S., December 11-14.

1987 • "Prospections et fouilles de sauvetage en milieu humide, en Hollande", Invited lecture, GS Terrains et Théories, Université de Paris I - Sorbonne, January 9.

• "Societé et comportement : risques, perception et innovation", Invited lecture, GS Terrains et Théories, Universite de Paris I - Sorbonne, January 12.

• "A proximal approach to the study of the end of the Roman Empire". Paper presented at the Symposium on the 1st millennium A.D., Danish Academy, Rome, January 14-17.

• "Ceramic Technology." Invited Lecture, Istituto per gli Studi del Medio ed Extremo Oriente, Rome, May 29.

• "Research Strategies in the European Iron Age". Paper presented in the symposium Contrastive strategies in Archaeology', Theoretical Archaeology Group Conference, Bradford, December 17.

1988 • Lecture Series "Donnees Archeologiques, Perception et Information : Modèles pour une société et processus individuels", Université de Paris I/Sorbonne (GS Terrains et Theories), January-May.

• "Crafts, specialisation and Innovation" Paper presented in the Symposium 'Crafts and Society' (D.A. Papousek, convener) at the 46th International Congress of Americanists, Amsterdam, July 4-8.

• "Nonlinear modelling of settlement patterns", Paper presented at the symposium "Problems in Iron Age Archaeology', University of Cambridge, December 9.

1989 • "Chaine Opératoire et tradition dans la fabrication de la poterie : un exemple" Invited lecture, GDR "Techniques et Culture", Université de Paris I -Sorbonne. January 27.

• "Perspectives on Settlement Patterns" Invited Lecture, Department of Geography, St.Davids University, Lampeter, February 11.

• "Power and Information: some preliminary remarks" Paper presented to the Wenner-Gren Conference on 'Symbol, Meaning & Power in Prehistory', Cascais, Portugal, March 17-­26.

• "Los Alfareros de Michoacan", Invited Lecture, Instituto de Investigaciones Antropologicas, Universidad Nacional de Mexico, Mexico City, September 15

• "Assendelft: un exemple", Paper presented at the X-iemes Rencontres Internationales d'Archeologie et d'Histoire d'Antibes (Archeologie et Espaces), Antibes, October 19-21.

• "Archaeology, material culture and innovation", Paper presented at the Symposium "Novation in Thought", School of Cultural Studies, Tel Aviv University, December 18-22.

1990 • "Technological Analysis and potters' choices: the Beaker pottery example", Invited lecture, Department of Archaeology, University of Liverpool, February 3.

• "De organisatie der Archaeologie en haar problemen", Invited lecture, Rijksdienst voor het Oudheidkundig Bodemonderzoek, Amersfoort, February 16

• "Giving the Potter a choice", Paper, presented at the Tagung "Ethnoarchaeologie und Keramik", Museum fuer Voelkerkunde, Hamburg, February 19-22.

• "Cognitive aspects of pottery technology", Paper, presented at the Workshop on an Explicitly Scientific Cognitive Archaeology, Cambridge, April 10-14.

• "Ethnoarchaeology: some worries", Paper presented at the 4th annual workshop of the SEAON, Groningen, The Netherlands, October 12.

• "Dynamical modelling and the origins of urbanism", paper presented at the conference on "Dynamical Modelling and Human Systems", Cambridge, December 10-14. (with J. McGlade)

1991 • "Information, coherence et dynamique urbaine", Paper presented in the seminar on "Temporalités Urbaines", Institut National d'Études Démographiques, Paris, February 8.

• ‘Tradition and innovation’, Paper presented at the XIIth Rencontres Internationales d'Archeologie et d'Histoire d'Antibes (Archeologie et Espaces), Antibes, October 17-19.

1992 • "Analyse des céramiques", Paper presented at the Direction des Antiquités, Besançon, France, May 14.

• "Roman expansion: when, how & how much?", Paper presented at the colloquium "*Les Frontières de l'Empire Romain dans une perspective comparative* " (P. Brun, Chr. Goudineau, S.E. van der Leeuw & D. Whittaker, eds.), May 17-20.

• "Tradition et innovation", Paper presented at the Schlumberger Foundation Seminar on "The Human origins of Techniques -the Technical Origins of Humans" (B. Latour & P. Lemonnier, conveners) Les Treilles, France, June 15-20.

• "Archaeology et non-linearité", Series of invited papers presented at the Department of Mathematics, University of Burgundy, Dijon, France, July 2-3.

• "Tradition and innovation" Paper presented in the Symposium "Ceramic Ethno­archaeology", M. Pollard, convener, at the Annual Meeting of the Theoretical Archaeology Group, Southampton, December 14

• "Technique : Rupture et continuité", Paper presented in the series "Penser la Technique" at the Collège International de Philosophie, Paris, December 16.

1993 • "Innovation", Department of History and Philosophy of Science/Linacre College, Oxford, May 13

• "Social and environmental change", DG XII Environment Programme Summer School on Desertification in a European Context, Alicante, October 7

• "Perception and the degradation of the environment: the Argolid case study" (with R. Seaton & M. Lemon), DG XII Environment Programme Summer School on Desertification in a European Context, Alicante, October 9

1994 • « Tradition et innovation dans la céramique artisanale du Michoacan, Mexique », invited lecture, UFR d'Histoire de l'Art et d'Archéologie, Université Paris I - Sorbonne, May 18

1995 • « Perception temporelle : innovation et analyse de la culture matérielle », seminar for the UFR d'Histoire de l'art et d'archéologie, Université Paris I, Paris, March 8

• "Land degradation in the Vera basin as a socio-natural process", International Workshop on Human reactions to climate change, Rice University, Houston, TX, September 2-7.

1996 • « Continuity, innovation, and cognition in the early neolithic. Making tools from stone and clay ”, Istituto italiano per gli studi filosofici, Naples, March 27.

• « Conclusions », Colloque international Sallèles d’Aude : vingt ans de recherche autour d’un atelier de poterie. AMPHORALIS, Sallèles de l’Aude, September 18-19.

• "Degradation and desertification. Some lessons from the long-term perspective", "Keynote lecture". International Conference on Desertification and Land Degradation in a European context: research results and their political implications. Sissi, Greece, October 28.

• "Trade and exchange in pottery: are we asking the right questions?" International Workshop on Trade and Exchange in Greek Pottery. University of Amsterdam, November 8-9.

1997 • "ARCHAEOMEDES: Desertification and Archaeology", Invited paper, Space Applications Institute, Joint Research Centre of the European Union, Ispra (Italie), June 3; Department of Anthropology, University of Papua New Guinea, Port Moresby, September 1; Department of Archaeology, LaTrobe University, Melbourne, Australia, September 17; Department of Archaeology, Sydney University, Australia, September 23

• "Crise environnementale et temporalités ", PIREVS Symposium « Les temporalités de l’environnement », Toulouse, November 5-7

• "Some new directions in pottery studies ", Mexico DF, Jalapa (Veracruz) and Merida (Yucatan), Mexico, December 1-15

1998 • « The present and the past in understanding environmental issues » Department of land tenure, University of Wisconsin, Madison, Wisconsin, March 19

• « The role of archaeology in European environmental research », Department of Anthropology, University of California, Berkeley, California, March 20

• « Urban-rural relations in past and present », Department of Anthropology, Washington State University, Pullman, Washington, March 23

• « The present and the past in understanding environmental issues », Plenary session, Society for American Archaeology Annual Meeting, Seattle, USA, 27 March

• « Shaping the landscape: defining the role of technique in socio-environmental interaction », Department of Anthropology, University of Chicago, Chicago, Illinois, March 30

• « Settlements, environmental choices, and the advent of the Romans in Southern France », Department of Anthropology, University of Arizona, Tucson, Arizona, 3 April

• « The importance of the long term in environmental research », Institute of Environmental Studies, Arizona State University, Tempe, Arizona, 4 April

1999 • « An archaeological direction for future geophysical contributions in prospection », XXIV European Geophysical Society General Assembly, April 20

• « Some potential problems with the Implementation of annex IV of the UN Convention to Combat Desertification ». Advanced Study Course "Desertification in Europe: mitigation strategies, land use and planning", Alghero, Sardinia, June 9

• « Developing an approach to long-term socio-natural co-evolution », Invited lecture, Santa Fe Institute, Santa Fe, NM, USA, October 22

• « A socio-natural approach to water depletion«, invited plenary lecture in the symposium « Water and Human Sustainability » at the 1999 Annual Meetings of the Geological Society of America, Denver, Colorado, October 24

• "ARCHAEOMEDES Program, on the subject of human-environmental relations in the past and present, on the northern rim of the Mediterranean", invited lecture, All Scientists meeting, CAP-LTER, Institute for Environmental Studies, Arizona State University, Tempe, AZ, December 13

2000 • “Interdisciplinarity”, LTER/NSF workshop on the integration of the Social Sciences in environmental studies, Tempe, Arizona, January 18-20

• “Interdisciplinarity and the study of man-made disasters: the case of the Argolid”. Morrison Institute for Population and Resource Studies, Stanford University, February 2

• (with A. Coudart) “Invited Lecture, Department of Anthropology, Arizona State University, February 15

• “Interdisciplinarity and planning” Arizona Historical Society/Pima County/Arizona State Museum, March 6

• “Politiques publiques et paysage dans l’Argonne”, First colloquium of the research programme “Politiques publiques et paysage” of the French Ministry of the Environment, Albi, March 28-29

• “The role of legacies in socio-natural systems” and “A socio-natural approach to environmental problems”, Invited lectures, LTER workshop, Annual Meeting of the Ecological Society of America, Snowbird, Utah, USA, August 6 – 7

• “Overshoot, collapse and sustainability in socio-natural systems”, 2000 Abisko Workshop of the Swedish Council for Planning and Coordination of Research, on “ Systems shocks, systems resilience”, Abisko, May 22-26

• “Overshoot, collapse, and sustainability in socio-natural systems: lessons from history?”, Symposium “Understanding the Complexity of Transition Scenarios to Sustainability”, The Balaton Group, Csopak, Hungary, September 5

• « An interdisciplinary approach to the human dimensions of global change? » Symposium « Towards Integration in Global Change Research - outlook from a Human Dimensions perspective », Friibergh Manor, Örsundsbro, Sweden, November 17-19

• (with C.L. Redman), “Placing Archaeology at the Center of the Study of the Socio-Natural Interface”, Annual Meeting of the American Anthropological Association, San Francisco CA, November

2001 • « Is culture natural or is nature cultural? A game of mirrors », Invited Lecture, Beijer Institute, Royal Swedish Academy of Sciences, Stockholm, May 7, 2001

• « Some experiences of the ARCHAEOMEDES programme », Invited Lecture, Beijer Institute, Royal Swedish Academy of Sciences, Stockholm, May 8, 2001

• « The complexities of integrating social and natural systems », Workshop on « Complexity–unifying themes for the sciences and new frontiers in mathematics », Max Planck Institute for Mathematics in the Sciences, Leipzig, May 14.

• « Approaches to modeling phase transitions in socio-natural systems », FORNAS-SMC workshop on “Emergence, Transformation and Decay in Socio-natural Systems”, Abisko, Sweden, May 19-26.

• « The Application of Complex Systems Theory to Planning », Western Regional Planning Conference, Santa Fe, NM, USA, August 8.

• « Introduction : historique et rôle de la géomatique ». École thématique *« Géomatique et Archéologie »* CEPAM-CNRS, Valbonne, October 17.

• « Modélisation multi-agents de la prise de décisions en matière d’organisation spatiale régionale ». Ecole thématique *« Géomatique et Archéologie »* (CEPAM-CNRS), Valbonne, October 25.

• « Vulnerability, resilience, innovation: looking at socio-natural systems ». Invited lecture, IULM, Milan, Italy, December 13.

• « A social science contribution to effective soil erosion control ». First MEDRAP Workshop, Athens, Greece, December 15.

• « *Crises vécues, crises perçues* ». Interdisciplinary seminar *« Sociétés et ressources renouvelables »*, PEVS-CNRS, Paris, December 19.

2003 • “Climate, hydrology, land use, and environmental degradation in the lower Rhone Valley during the Roman Period”, Paper presented in the session on “Human-Induced Perturbations of the Water Cycle” at the “Water Symposium” of the Académie des Sciences, Paris, September 16

2004 • “Resilience of Socio-Ecological Landscapes”, 2004 William G. Armour III Symposium (G. Feinman and C. Fischer, organizers), Field Museum, Chicago, March 5

• Discussion of symposium: “The Socio-Natural Connection: Integrating Archaeology And Environmental Studies For 21st Century Conservation”, Annual Meeting of the Society for American Archaeology, March 29

* (With B. Göbel), "Challenges for Research on Global Environmental Change: Social Science Perspectives", Workshop on the Commons, Indiana University at Bloomington, April 22.

• “The emergence of social institutions”, Santa Fe Institute/ Slovenian Academy of Sciences joint Workshop and Symposium on “The Dynamics of Groups and Institutions. their emergence, co-evolution, and environment”, Ljubljana, Slovenia, June 9

• “Modeling social dynamics in terms of information flows: an archaeologist’s perspective”, Santa Fe Institute/ Slovenian Academy of Sciences joint Workshop and Symposium on “The Dynamics of Groups and Institutions. Their emergence, co-evolution, and environment”, Ljubljana, Slovenia, June 11

• “The Role of the very long term in understanding socio-environmental systems”, symposium on “Historical Knowledge and Environmental Management” (J. Tainter, convener), International Monitoring Science and Technology Symposium, Denver CO, September 22

• “Understanding Land Degradation: The Role of the Very Long Term”, Symposium on Effects of Land Abandonment and Global Change on Plant and Animal Communities (W. Cramer, convener), Capri, Italy, November, 12

• (with J.-F. Berger) “Modeling the role of resilience in socio-environmental co-evolution: the middle Rhone valley between 1000 BC and AD 1000”, Santa Fe Institute Workshop on “Modeling Long-Term Culture Change”, Santa Fe, NM, November 27

• “Integrated Assessment: an example from Southern Greece”, EU-FET Workshop on “'Integrated assessment using complex systems”, Torino, Italy, December 8

2005

* (with D. Ferrari) “Modeling Information Flows and Social Dynamics”, Paper presented at the ISCOM Workshop, Venice, April 3
* “Invention and Innovation in Complex Human Social Systems”, Presentation to the Science Board of the Santa Fe Institute, Santa Fe, May 14
* “Information Processing and Its Role in the Rise of the European World System”. Paper presented at the 97th Dahlem Workshop on “Integrated History and future Of People on Earth (IHOPE)” (Robert Costanza, Lisa Graumlich, and Will Steffen, Conveners), Dahlem, June 12–17
* “Why Dutch archaeology isn’t what it was forty years ago”, Paper presented at the symposium in honor of Roelof W. Brandt, Royal Netherlands Academy of Sciences, Amsterdam, September 30
* (with Oran R. Young, Frans Berkhout, Gilberto Gallopin, Marco A. Janssen, Elinor Ostrom) “How Will Globalization Affect the Resilience, Vulnerability, and Adaptability of Socio-Ecological Systems at Various Scales? An Agenda for Scientific Research”, IHDP Open Science Meeting, Bonn, Germany, October 11
* (With John M. Anderies, Marina Fischer-Kowalski, Gilberto C. Gallopin, Alex Haxeltine, Gregor Laumann, Matthias Lüdeke, Antonie Veldkamp), “Modelling Global Change Dynamics”, IHDP Open Science Meeting, Bonn, Germany, October 12

2006

* “Society and Environment in Classical Antiquity: some lessons from a case study” Lecture for the Central Arizona Chapter of the Archaeological Institute of America, Tempe, February 13
* “The Role of Archaeology in Modern Environmental Research”, Invited lecture, Department of Anthropology, University of Arizona, Tucson, April 6
* “Archaeology and the changing academic landscape”, Paper presented in the Forum "Stepping Out: Contemporary Relevance of Archaeological Research,” (M. Nelson and S. Ingram, conveners) Annual Meeting of the Society for American Archaeology, San Juan, Porto Rico, April 29
* (with D.W. Read, D.A. Lane, D. Ferrari) “The long-term evolution of social organization” Paper presented at the Final ISCOM workshop, Venice, June 6
* “Information processing and the long-term evolution of social organization”, Paper presented at the 25th Anniversary Meeting of theBalaton Group, Hungary, September 19
* “Complex Systems Modeling in the Anthropocene”, Plenary paper presented at the European Conference on Complex Systems,Oxford, UK, September 27
* “The Capacity and Policy Challenges in Global Change Research”, Paperpresented at the Beijing IHDP-CAS Workshop, November 6
* “Developing Cross-Cutting Themes: Vulnerability-Resilience-Adaptation”, Paper presented at the Beijing IHDP-CAS Workshop, November 7
* “What is the future for environmental anthropology?”, Paper presented in the symposium (N. Haenn, organizer), Annual Meetings of the American Anthropological Association, San Jose, CA, November 19
* “Complex Systems Modeling in the Anthropocene”, Paper presented at the DG Research workshop on “Science of Complex Systems: Can Science Guide Policies?”,Brussels, December 20

2007

* Could Trans-Humans Be Human After All?” Invited Paper, prepared for the Templeton Research Workshop “Facing the Challenges of Trans–humanism: Religion, Science, Technology”, Arizona State University, April 16
* “Land and Water, Land to Water, Water to Land: Resources, extreme events and institutional development in Medieval and Early Modern Rijnland”. Invited Paper, prepared for the symposium "The UNESCO Water Project: The Legacy of the Ancient Past” (V. Scarborough, convener), Annual Meetings of the Society for American Archaeology, Austin, TX, April 26
* “The School of Human Evolution and Social Change at ASU”, Invited Paper, prepared for the Workshop “The Discipline of Archaeology” (D.T. Price, Convener), Annual Meetings of the Society for American Archaeology, Austin, TX, April 28
* “The role of cognition and communication in the emergence of social organization”, Invited paper presented at the International Conference on Living Technologies, Venice, May 25-26
* “Climate and Society: Lessons from the past 10,000 years”, Invited Presentation to theRoyal Colloquium "Past Climate Change: Human Survival Strategies. What can Present Civilizations Learn from the Strategies of Past Civilizations?" convened by HM King Carl XVI Gustaf of Sweden, Narsaq, Greenland, June 26
* “Biology is only part of the story …” (with D.W. Read), Invited Paper for the Workshop “The Sapient Mind” (McDonald Institute of Archaeological Research and The Royal Society, A.C. Renfrew and L. Malafouris, conveners), Cambridge (UK), September 8
* “The long view on our ‘looming disaster’”, Invited Paper presented at the Joint Meeting of the European Complex Systems Society and the Collegium International, Paris, 28 September
* “European diversity”, Plenary address to the 4th Annual Meeting of the Rocky Mountain European Scholars Consortium, Tempe, October 19

2008

* IHOPE: Archaeology and Sustainability, Paper presented at the Annual Meeting of the Society for American Archaeology, Vancouver, BC, March 28, 2008
* Achieving sustainability: the role of archaeology, Paper presented in the Symposium “Archaeological contributions to understanding socio-ecological systems: emerging collaborations between archaeology and ecology” (K. Spielmann, convener), Annual Meeting of the Society for American Archaeology, Vancouver, March 30, 2008
* “Resilience-Vulnerability-Adaptation: The ASU workshop”. Paper presented at the Vulnerability and Resilience Workshop, Stockholm, April 10, 2008
* “Resilience and transformation in urban landscapes: What is the role of innovation?”, Remarks at the ‘Resilience in urban landscapes’ session of the Resilience 2008 Conference, Stockholm, April 14, 2008
* “IHOPE: Archaeology and Sustainability”, Paper presented at the IHOPE session of the Resilience 2008 Conference, Stockholm, April 15, 2000

2009

* “Roman Lessons for today’s environmental crisis”, Invited lecture, Department of Anthropology, Central University of Nationalities, Beijing, China
* *“*Innovation and Sustainability: The lesson from a long-term perspective”, Invited Lecture in the symposium on “Complexity Perspectives on Innovation” in the “Science beyond Fiction” Conference, organized by the EU’sFuture and Emerging Technologies Program, Prague (Czech Republic), April 22
* (with A. Wiek), “Transformative Governance for Global Change”, 7th Open Science Meeting of the International Human Dimensions of Global Change Program, Bonn (Germany), April 29
* “Innovation and Sustainability: Can we break our path dependency?” 7th Open Science Meeting of the International Human Dimensions of Global Change Program, Bonn (Germany), April 28
* “Introducing Planetary Boundaries” – discussion around the Rockstrom et al. “Nature” paper, Tallberg Forum 2009, June 29
* “Reconstructing historic socio-environmental interactions: the role of the very long term”, PAGES 3rd Open Science Meeting, Corvallis, OR, July 8-11
* “Crises – the long term view”, Colloque “Changer pour Durer”, Cérisy-La Salle, September 14
* “The University as a Complex System: The Complex Adaptive System Initiative at ASU” Invited lecture at the Institut Henri Poincaré, Paris, on the occasion of the ISC-IDF/RNSC Scientific Committee Meeting, September 17
* “The Archaeology of Innovation: Inventing our way out of trouble”, *Invited Lecture*, Long Now Foundation, San Francisco, CA, November 18
* “The Archaeology of Innovation”, *Invited Lectures*, University of Modena and Reggio Emilia, October 13-November 10.
* “Climate and Society: Lessons from the past 10,000 years”, *Invited Lecture,* Ca’Foscari University, Venice, November 26.

2010

* “The Archaeology of Innovation: Inventing our way out of trouble” ‘Dynamical Discussion’ for Consortium of Biosocial Complex Systems at ASU, January 21
* “Sustainability and innovation”, Plenary presentation, National Association of Engineers Regional Meeting “Grand Challenges”, Phoenix, AZ, April 8
* “IHOPE: the role of the very long term in reconstructing socio-environmental interactions”, AIMES (IGBP) Open Science Conference, Edinburgh (UK), May 13
* “The Archaeology of Innovation: Inventing our way out of trouble”, Invited lecture: Martin Prosperity Institute, University of Toronto, October 29
* “Information processing: a long-term perspective”, Invited lecture for Future Technology and Society workshop, ICT Directorate, European Commission, Brussels, November 18

2011

* “Innovating our way out of trouble: the story of socio-environmental co-evolution”, Invited presentation, conference "*The prehistory of the others. How archaeology and anthropology consider the past of non western societies*." Musée du Quai Branly, January 18
* “Complexity Perspectives in Innovation and Social Change”, Workshop ‘Crossing the chasm – crisis, opportunity, and transformation’, *Resilience 2011 Conference*, Phoenix AZ, March 13
* “Complexity Perspectives in Innovation and Social Change”, INSITE Workshop, Venice, April 7
* “Innovation, Sustainability and ICT” *Future Technologies* Conference (EU Directorate for ICT), Budapest, Hungary, May 4
* “Sustainability, Science and Art”, Invited Lecture, Symposium “*A Fluid Resilience*”, Fondazione Quirini-Stampalia, Venice, June 4
* “*L'illettrisme scientifique : quelle réalité/quels écueils*”, Invited plenary lecture, Summer School of the Institut des Hautes Etudes en Sciences et Technologie (Paris, France), Gréoux-les-Bains (France), August 28
* “Global Systems Dynamics and Policy: Lessons from the distant past”, paper presented at the First annual meeting of the GSDP Project, Berlin, October 10-12
* “Systemic approaches to sustainability”, Invited Lecture, Graduate Program in Sustainability Science (GPSS), University of Tokyo, October 24
* "The Archaeology of Innovation: lessons for the sustainability of our times” Plenary address to the workshop: “*Beyond collapse*”, Research Institute for Humanity and Nature, Kyoto, Japan, October 26
* “Reflexivity and human history: the long view”, invited lecture to the workshop on “*Reflexivity and social change*”, Central European University/Institute for New Economic Thinking, Budapest, November 4

2012

* “For Every Solution There Are Many Problems: The Role and Study of Technical Systems in Socio-Environmental Co-evolution” Invited paper presented at the Workshop “*Exploring Causalities - The societal effects of climate change*” (A. Reenberg, convener), Copenhagen, 16-18 January
* “Mobilizing civil society for a socially sustainable future”, invited paper, Mobilizing Civil Society to Construct a Socially Sustainable Society (D. Lane et al., conveners), Università Ca’Foscari, Venice, January 26-27
* “Human societal evolution: the cognitive and communication perspective”, invited paper, Transdisciplinary workshop on Social Complexity (P. Turchin and S. Gavrilets, conveners) NIMBioS Knoxville TN, February 6-8
* “How does globalization work at the local scale ... An anthropologist's view” Invited paper presented in the session *Globalization Then and Now: Scale, Complexity, and Communication of Sustainability* (C. King and J. Tainter, conveners), Annual Meeting of the American Association for the Advancement of Science, Vancouver, BC, Canada, February 19.
* “Complex Systems Theory, Sustainability and Innovation”, Invited Paper presented at the *“More is Different” Conference* (J.W. Vasbinder, convener), Nanyang Technical University, Singapore, February 27-29
* "Resilience", Invited Paper, New America Foundation, Washington DC, March 22
* "Collective Action and the transition to a sustainable society: A research and action proposal" International *Planet under Pressure Conference*, London, March 26
* "IHOPE: Searching the past for clues to the future", International *Planet under Pressure Conference*, London, March 28
* "Crises, crises all around?”, Invited Panel Presentation, *Conference on Financial Risks, Green Growth and Jobs. Challenges to Global Systems Science: from Climate Change to Market Governance*, World Trade Centre, Barcelona, May 4,
* "Sustainability at ASU", *18th World Forum of the International Association of Jesuit Business Schools*, IQS School of Management, Barcelona, Spain, July 23
* 'Global Risks – an integrated governance approach’. Invited panel remarks, *4th International Disaster and Risk Conference on "Integrative Risk Management in a Changing World -   
  Pathways to a Resilient Society"*, Davos August 29
* 'Innovating our way out of, and into, trouble', Invited lecture, Pennsylvania State University, September 28
* "Information and energy, innovation and sustainability" *INSITE evaluation meeting*, Venice October 15
* "Cities and global system dynamics", *1st Open Global Systems Science Meeting*, Brussels, November 10
* "Complex Systems, Sustainability and Innovation" Wrigley lecture, Arizona State University, November 15

2013

* "Sustainability as culture", Some comments on the symposium "The Whole of Culture:  Anthropology Back on Track", *Annual Meetings of the American Association for the Advancement of Science.* Boston, February 15
* "Cities – the long term ", *ASU Workshop on Urbanization, Resilience and Prosperity*, Tempe, April
* "The future of sustainability research and education",invited lecture at the*Green Development National Forum,* Ulanbaataar, Mongolia, June 3, 2013
* Why Global Systems Science?", *2nd Open Global Systems Science Conference*, Brussels, June 10-13, 2013
* "For Every Solution There Are Many Problems: The Role and Study of Technical Systems in Socio-Environmental Co-evolution", invited lecture at the *Beijing Forum on Landscape Sustainability*, Beijing Normal University, Beijing, PRC, June 27-29, 2013
* "Resilience and sustainability: science and governance" invited presentation, *International Workshop on Complexity and Governance*, Nanyang Technical University, Singapore, July 18-20, 2013
* "Invention and innovation: the long term", Paper presented at the workshop "Opening the Black Box of Innovation", Santa Fe Institute, August 23.
* "Towards a transformative sustainability science: Future Earth and other frontiers in Environmental Studies", Lecture series at the Research Institute for Humanity and Nature, Kyoto, Japan, October-December 2013
* "The need for a Global Systems Science approach - lessons from the past", Keio University, Shonan Campus, Environmental Innovators Graduate Program, October 1, 2013
* "Risk: Some Lessons from History", 2013 Annual Workshop and Core Steering Group Meeting of the Hazard and Risk Science Base at Beijing Normal University, October 30, 2013
* "The Changing Role of Science", Kyoto University, Graduate School of Environmental Sciences, December 10, 2013
* "For Every Solution There Are Many Problems: The Role and Study of Technical Systems in Socio-Environmental Co-evolution", University of Tokyo, Graduate School of Frontier Studies, Sustainability Program, December 16, 2013

2014

* (Invited) Series of lectures on different aspects of sustainability, Faculty of Management, University of Johannesburg, South Africa, March 10-14
* "Résilience des Systèmes Complexes : à chaque solution ses problèmes. Plenary lecture, III Resilience Conference, Montpellier, France, May 6
* "A Global Social Boundary", Concluding workshop, INSITE Project, Venice, Italy May 9
* "Risk - some lessons from the Past" - Beijing Normal University Summer Institute on the Management of Risks and Natural Hazards, July 28, Beijing, China
* "Solutions Create Unintended Problems - A Case Study"- Beijing Normal University Summer Institute on the Management of Risks and Natural Hazards, July 30, Beijing, China
* "The Changing Role of Science" - Beijing Normal University Summer Institute on the Management of Risks and Natural Hazards, August 8, Beijing, China
* "Systemic Risk, Inequality and Climate Change: The long-term view" Invited contribution to “The 2020 triangle: Financial Stability, Financial Inclusion and Green Growth” workshop at the 14th ECCS Meetings, Lucca, Italy
* "Looking through the other side of the telescope", Invited Lecture at the Annual OT-Med Programme Meetings, Marseille, France, November 29

2015

* "Invention and innovation: the long term" Invited Lecture, University of Waterloo, Canada, January 13
* "Unintended consequences, diversity and innovation" International Conference on Sustainability Science, United Nations University, Tokyo, January 22
* "Redefining the GEC debate: the role of science" International Conference on Sustainability Science, United Nations University, Tokyo, January 22
* "Are we part of the solution or part of the problem?", "4th *Para Limes* conference on Emerging Patterns", Nanyang Technological University, Singapore, March 3
* "Invention and innovation: the long term", Conference "[Restoring Eden at NTU: Ecology, Art, Design, and Culture along the Silk Road",](http://www.adm.ntu.edu.sg/NewsnEvents/Pages/Events-Detail.aspx?news=5415e75c-4fbb-4218-b934-0beb02ff5b4b)  Nanyang Technological University, Singapore, March 5
* "Sustaining Heritage: New Directions for Archaeology", Annual Meeting, Society of American Archaeology, San Francisco, April 17
* "IHOPE (Integrated History and Future of People on Earth): International and Interdisciplinary Projects Working to Make the Past Better Serve the Future", Annual Meeting, Society of American Archaeology, San Francisco, April 18
* "A Co-Evolutionary Understanding of the Origins of Urbanization", invited lecture at the 4th Nobel Cause Symposium on Global Environmental Change, Hong Kong, April 22-24
* "Designing (and implementing) the New American University", presentation to the Conseil Scientifique of the Centre national de la Recherche Scientifique, Paris, 29 April
* "A co-evolutionary perspective on urban dynamics", Invited plenary lecture, Joint session, Workshop on *'The Complexity Lens'* and 2015 Foresight Conference: "*Global Cities in 2035:* *Flows, Spaces and Flux"*, Nanyang Technological University and Centre for Strategic Studies, Office of the PM, Singapore, 9 – 10 July
* Lecture series in the combined Beijing Normal University Summer Institute on the Management of Risks and Natural Hazards and the ASU-BNU graduate summer course on Sustainability, July 27-August 14
* "For every solution there are many problems: the role and study of technical systems in socio-environmental co-evolution", invited lecture, Institute of Systems Science, Chinese National Academy of Sciences, Beijing, August 11.
* "Evolutionary Medicine, Environmental Co-Evolution", presentation at the satellite meeting "What Complex Systems Theory Offers to Evolutionary Medicine" (Randolph Nesse, convener), Conference on Complex Systems 2015, Arizona State University, September 30.
* “Resilient Cities”, paper presented at the Colloque « La résilience métropolitaine peut-elle se concevoir par l’aménagement ? » 26 novembre 2015 - 27 novembre 2015 - Marne-la-Vallée and Paris
* “Understanding invention in ceramic manufacture”, Paper presented at the Fyssen Foundation seminar: “Social and cognitive dimensions of technological change”, Paris, December 2-3

2016 • “Human co-evolution: Complex Systems, Innovation and Sustainability”, invited lecture, Institut Méditerranéen de Recherches Avancées, Marseille, March 17

* “Archéologie, Environnement et Développement durable”, Invited lecture, Maison Méditerranéenne des Sciences de l’Homme, Aix-en-Provence, May 19
* “Socio-environmental systems - The long-term perspective”, *2016 Royal Colloquium Environmental reality: Rethinking the options*, Rosersberg (Sweden), May 23-25
* “Analyzing arboriculture in the Argolid, Greece”, paper presented at the International conference *Agricultural sustainability in the Mediterranean: Towards a common assessment and modelling strategy* (S. Targetti, organizer), Institut Méditerranéen de Recherches Avancées, Marseille, May 27
* “Understanding invention in ceramic manufacture”, invited lecture, European Center for Living Technology, Università Ca’Foscari, Venice, June 3
* “Landscape archaeology and sustainability: transforming our vision of the past into a vision for the future”, paper presented at the symposium *New Developments In Landscape Archaeology: Communication, Visualization and Sustainability* (C. Corsi and S.E. van der Leeuw, organizers),Institut Méditerranéen de Recherches Avancées, Marseille, June 9
* “From fieldwork to systems thinking in contemporary environmental studies：Improving our studies?” Series of four lectures presented at the Research Institute for Humanity and Nature, Kyoto, Japan, October-December 2016.
* “Consequences of rural abandonment and aging on the economy of Epirus, Greece”, Plenary Lecture, International Symposium on Global Sustainability Challenges: Kyoto Initiative in ‘Future Earth’ Kyoto University, December 21

2017

* ”Social Planetary Boundaries”, invited presentation, Workshop “Systemic views on Planetary Boundaries: interactions across boundaries, scales and SDGs” (H. Hoff & F. Schmidt, organizers), in the conference “Making the Planetary Boundaries work”, organized by the German Ministry of the Environment, Berlin, and the Stockholm Resilience Center, April 24
* “The Information Society as a Complex System - Sustainability and the ICT revolution”, Invited lecture, Institute for Advanced Sustainability Studies, Potsdam, Germany, May 10
* “Integrated modeling of the future of socio-environmental dynamics”, Invited lecture, Institute for Advanced Sustainability Studies, Potsdam, Germany, May 11
* “The Information Society as a Complex System – Sustainability and the ICT revolution”, Invited lecture, Vienna Complexity Science Hub, Vienna, Austria, May 23
* “Not an ordinary tipping point: ICT and the future of sustainability” Invited lecture to the EU’s CONECT Directorate General on the occasion of the preparatory workshop of the Center of Excellence on Global Systems Science, Brussels, May 29
* “The Information Society as a Complex System – Sustainability and the ICT revolution” Invited paper presented at the Stockholm Resilience Center, Stockholm University, Stockholm, May 31
* “The archaeology of pre-modern economies”, Invited paper, Department of Archaeology, Cologne University, Cologne, June 2
* “Integrated modeling of the future of socio-environmental dynamics”, invited lecture, Department of Ecological Modeling (OESA), Helmholtz Centre for Environmental Research, Leipzig, June 20
* Closing Remarks: Novel Approaches To Complex Social Change And Sustainability, 7th International Conference on Sustainability Science (co-sponsored by Future Earth), Stockholm, August 26
* “Archaeological Perspectives on the Evolution of Social Complexity”, Workshop on the Evolution of Social Complexity, Complexity Science Hub Vienna, October 2
* “The Evolution of Innovation”, invited public lecture in the series “10 - on - 10: The Chronicle of Evolution”, Nanyang Technological University, Singapore, October 13
* Public panel discussion “Past, Present, and Future of the Anthropocene”, Lensing Theatre, Santa Fe NM, October 17

2018

* “The Role of Narratives” plenary paper presented at the final “Green-Win conference, Barcelona, March 13
* “The Past and the Future of the Technosphere”, paper presented at the symposium Approches pluridisciplinaires de la technosphère – comment les disciplines représentées se sont-elles ou non construites autour de l’existence de la technosphère ?, University of Lyon III, March 29
* “Sustainability – the next 100 years”. Lecture at the United Nations University, Tokyo, April 18
* “Sustainability is a societal challenge (and not an environmental one)” Plenary lecture for the GLP-GEfIL program of the University of Tokyo, April 19
* “What have we learned?” Discussant at the Opening Session (Presidential Forum) of the Annual Meeting of the Society for American Archaeology Washington, D.C. April 13.
* “Sustainability – the next 100 years” Paper presented in the symposium “The Intersection of Sustainability and Climate Change in Tropical Social Systems, Annual Meeting of the Society for American Archaeology Washington, D.C. April 13.
* “Sustainability – the next 100 years”. Lecture at the United Nations University, Tokyo, April 18
* “Sustainability is a societal challenge (and not an environmental one)” Plenary lecture for the GLP-GEfIL program of the University of Tokyo, April 19
* Invited lecture, Stockholm Resilience Center, May 30
* “Resilience: The importance of the long term” Meetings of the International Union of Pre- and Protohistoric Sciences, Paris, June 5
* “Evolutionary comparison between ancient and modern agricultural communities” Meetings of the International Union of Pre- and Protohistoric Sciences, Paris, June 7
* “Leaning from the past, about the present, for the future” Invited lecture, Meetings on *Scientific Agenda on Cultural Evolution: Social Impact of Transdisciplinary Thinking on Biocultural Diversity*, UNESCO, Cuernavaca, Mexico July 5 (by video)
* “The Present between Past and Future”, Invited Lecture, Kochi University of Technology, September 16
* “Sustainability is a societal challenge (and not an environmental one)”. Invited Lecture, Kochi University of Technology, September 17
* “What about narratives?”, Invited Lecture, Kochi University of Technology, September 17
* “The Information Dynamic”, invited lecture, Research Institute for Humanity and Nature, Kyoto, Japan, 21 September
* “What about narratives?”, World Social Science Forum, Fukuoka, Japan, 28 September
* “The Challenge Ahead: Non-linear Interactions in Current Societal Dynamics”, 2nd Kigali Meeting on the world in 2050, SDG Center Africa, Kigali, Rwanda, 31 October
* “What about narratives?”, Invited Lecture, Institute for Applied Sustainability Science, Potsdam, 6 November
* “Tipping points in early human history and some lessons we can learn from them” Joint workshop AIMES-PAGES, Max Planck Institute for Meteorology, Hamburg, 14 November

2019

* “Resilient Cities”, Stockholm Resilience Center, January 28
* “The role of narratives in transforming societies “, “Leverage Points” Conference, Leuphana University, February 7
* “Framing the discussion: Sustainable and unsustainable drivers”, Global Sustainability Strategy Forum, Potsdam, March 5
* “Closing Remarks” : French-Japanese workshop “Does Nature Think?”, Paris, June 8
* “Sustainability is a societal challenge (and not an environmental one)”, Earth League Meeting, Hamburg, July 3
* “Narratives: the role of open and closed categories” PopRebel symposium, Brussels, July 17
* “Sustainability is a societal challenge (and not an environmental one)“ Gaia symposium, Exeter University, July 30
* “Models from Biology in the Social Sciences: the study of invention”, Invited Plenary Lecture, Kyoto University International Symposium, October 26
* “It’s not only the environment!”, Kyoto University Public lecture, October 29
* “Where should sustainability research be going? Some Lessons from Europe and Japan”, Plenary lecture at the Research Institute for Humanity and Nature, Kyoto, Japan, on the occasion of the award of an Honorary Fellowship
* “The three horizons approach to narrative elicitation?” Intergenerational Futures workshop, Research Institute for Humanity and Nature, November 9
* “Complex Systems, Sustainability and Innovation”, Vietnam-Japan University, Hanoi, November 21
* “Where should sustainability research be going?”, Vietnam-Japan University, Hanoi, November 21
* “Solutions cause problems”, Vietnam-Japan University, Hanoi, November 22
* “Integrated socio-environmental modeling: the social scientist’s perspective” Climathparis symposium, École Normale Supérieure, Paris, December 6

2020

* Participant, “Buying Time” workshop, Warnsveld, The Netherlands, January 12-15
* “Alternative futures after the pandemic”, invited lecture, online meeting, Balaton Group, June 18
* “Mobilizing the social sciences for sustainability” invited lecture, Conference on “Humanities & Social Sciences for Sustainability”, October 21,
* “Invention … in ceramics and the environment”, invited plenary, Conference “Archaeological Approaches to the Study of the Potter’s Wheel”, Amsterdam, November 24

2021

* Lecture “Moving Modeling Forward”, workshop “Modeling adaptation of ancient agricultural societies to climate change” Universités de Nice and Besançon, Online, January 26-27,
* Discussant, “Buying Time” workshop (J.-W. Vasbinder, org.) Online, February 14-17

2022

• “Transformations in people’s attitudes to work”, paper presented at the 4th Anticipation Conference session on “the Future or Work”, (Joffa Applegate, org.), Arizona State University, November 17, 2022

• “Archéologie Spatiale et Crise Environnementale : les quarante dernières années », Plenary contribution, 42nd French National Meetings on Archaeology, Nice, October 12-14, 2022

• “The evolution of information processing, categorization and the illusion of control” Invited lecture, Rutgers University Sustainability Program, December 9, 2022

Signature

