Curriculum vitae

Name	Nicolaas (Niko) Roorda
Adress	Van Ruijsdaelstraat 27, 5161 VJ Sprang-Capelle, Netherlands
Tel.	+31 (0)6 23976254
E-mail	nroorda@planet.nl
Website	https://roorda.nu
Linkedin	www.linkedin.com/in/nikoroorda
Date of birth	12 April 1955
Nationality	Dutch

Brief characterization

Stimulating developer and coach who inspires others with his energy and his enthusiasm. Original, creative and independent thinker, exceptionally broadly educated and experienced, who connects theory and practice, producing original and practical methods and results.

Professional experience

Details: see appendix

Senior consultant: for organizations, boards, managers and teams in a range of countries. Themes: sustainability, future focus, vision development, organization development, strategy & policy, CSR, education.

Coach: of board members, managers, staff members, lecturers, freelancers, graduate students.

Manager: Responsible manager of a university department. Initiator and program manager of various intensive pioneering projects, partly international.

Supervisor: Member of board commission. Member of visitation commission. Chair of examination committee. Auditor and certifier of individuals and institutions. Jury member, e.g. for a British sustainability award for universities.

Developer: A range of management methods, applied in more than twenty countries. A four-year academic program (BSc) 'sustainable technology'. Two post-academic programs 'sustainable entrepreneurship'. The formally recognized certificate 'Sustainable Higher Education'.

Author: Nine books: Dutch and international academic textbooks; management books; books for a main public. More than forty articles and chapters in scientific and other journals and books.
The book 'Fundamentals of Sustainable Development' and its Dutch equivalent 'Basisboek Duurzame Ontwikkeling' have been studied by more than 25,000 lecturers and students in higher education worldwide.

Researcher: Practice-based scientific research on sustainable development since 1991. Editor of an international scientific journal, reviewer for three other journals. BSc astronomy (1976), MSc physics and philosophy (1981), PhD sustainable development and organization science (2010).

Lecturer: Three senior level education qualifications. Acted as a lecturer for sustainable development, corporate social responsibility, organization science, quality management, technology, mathematics, physics, informatics, statistics, communication. Developed and taught training courses in four continents.

Acquisitioner: Acquired ca. three million euros (3.4 million US dollars), consisting of project subsidies, program sponsoring and paid orders.

Presenter: Ca. one hundred papers and keynotes for international conferences, universities, and special occasions, e.g. celebrations.

Special recognitions

First prize: 'The Egg of Columbus – Dutch National Award for Innovation and Sustainable Development', awarded by the Dutch Ministries of Environmental Management and of Education, 2001

Nomination: 'Brabant Award for Innovation' by the Province of North Brabant, 2000

Second prize: 'Tilburg Modern Industrial City Award for Sustainable Development', 1995

Education

α-science:

PhD Social sciences, Maastricht University 2010. Focus of the action research: sustainable development, higher education, organization development, didactics, education quality, societal responsibility

γ-science:

Advanced level in Management, 1991 – 1993

A range of other education programs and recognitions, 1990 – 2012: see post-graduate courses and certification

β-science:

Senior level qualification to teach mathematics, Utrecht University 1986. Senior level qualification to teach physics and astronomy, Utrecht University 1981

MSc. Theoretical Physics and Philosophy, Utrecht University 1981

BSc. Astronomy, Leiden University 1976

Post-graduate courses and certifications

Registration CRKBO (Central Register Vocational Education) since 2012

Auditor Certificate for Education, Hobéon SKO 2012

Auditor Certificate of Sustainable Development, DHO 2002

'Master class Leadership', 1998

'Integral chain management', 1998

'Human resource management', 1997

'Education development using Visual Basic', 1997

'Tutor training for Problem Based Learning', 1996

'Sustainability in European Engineering Education', 1996

'Problem Based Learning and Project Education', 1996

'Computer Aided Education Development with C++', 1995

'Information management', 1994

'Environmental management through life cycle assessment', 1993

'Quality management', Berenschot 1991

'Innovations in mathematics teaching', 1990

'School management', 1990

'Student counselling and independent learning', 1987

Languages

Dutch (native)

English (fluent)

German and French (moderate)

Other experiences

Interviews and reviews for radio and magazines, from 2008

Designer of *fractals* (mathematical art), from 2005

Poems in books and magazines, from 2002

Columns and articles in public and ICT magazines, 1997 - 2007

Software developer, e.g. of serious games, artificial life and computer aided education, from 1982

Dancing teacher for various groups, 1975 – 1990

Chair, secretary and board member of various amateur associations, from 1973

CV Appendix

Professional experience *(details)*

Freelancer, 2008 - present

- Advisor and Developer for an international Erasmus+ Program on behalf of UNECE, from 2016
- Independent consultant and auditor for sustainable development, from 2011, e.g. for UCLL, Belgium
- Visiting lecturer, from 2012, e.g.: Maastricht University; HAS University, Den Bosch
- Presenter for Speakers Academy, from 2009, http://www.speakersacademy.eu/speakers/niko-roorda

Avans University of Applied Sciences (Netherlands), 1990 - 2015

- Developer and sr. consultant, 2011 - 2015:
    - Development and implementation of the sustainability strategy of Avans University
    - Development and implementation of the management method 'Future Focused Entrepreneurship'
    - Development and implementation of the post-academic course 'Sustainable Entrepreneurship'
    - Development of an external network of companies and organizations
    - Coaching of academies, managers, lecturers and graduate students
- Delegated to the Foundation for Sustainable Higher Education, 2002 – 2011 (see below)
- Developer and program manager of Project Cirrus (pioneering project for the implementation of sustainable development within the 13 BSc programs of the Faculty of Technology), 1998 – 2002
- Developer and (from 1994) manager of the BSc program of Sustainable Technology, 1991 - 1998
- University lecturer in mathematics, physics, statistics, informatics and communication; graduation coach, 1990 - 1998

Foundation for Sustainable Higher Education (DHO), 2000 - 2011

- Chairman of the examination commission for the certification of auditors for sustainability in higher education, 2002 - 2011
- Consultant for sustainable development in higher education, from 2001. For universities in e.g. Netherlands, Belgium, Sweden and Latin America this implied for instance:
    - Strategic consultation towards university Boards on organization development, quality management, system integration of sustainable development, didactics
    - Assistance with policy development, coaching of education managers
    - Education and training of university lecturers
    - Coaching of lecturers with their education program development
    - Visiting lecturer for various universities and institutions
    - Assessment and certification of faculties and academies
- Developer of the assessment tool AISHE 1.0 ('Assessment Instrument for Sustainability in Higher Education'), 2000 – 2001, and AISHE 2.0, 2006 – 2008, www.eauc.org.uk/theplatform/aishe. AISHE has been formally recognized by the Dutch & Flemish Accreditation Organization of higher education (NVAO), and is applied in more than twenty countries, e.g. the Netherlands, Belgium, Germany, Sweden, Finland, Spain, Ukraine, Brazil, Bangladesh, Ghana. The awarding of the 'Certificate for Sustainable Higher Education is based on AISHE audits.

Secondary education, 1977 - 1990

- Lecturer of mathematics and physics, Agnes College, Leiden, 1984 - 1990
- Lecturer of physics, Spieringshoek College, Schiedam, 1981 - 1985
- Substitute lecturer of physics, Stedelijk Gymnasium Leiden, 1980
- Substitute lecturer of physics, Rijnlands Lyceum Wassenaar, 1977

Memberships *(selection)*

Member of the Editorial Board of the *Journal of Higher Education and Sustainability*, from 2015, www.inderscience.com/jhome.php?jcode=ijhes

Jury member of the *Green Gown Awards*, annual award for British universities that excel regarding sustainable development, from 2014, www.eauc.org.uk/green_gown_awards

Platform for Sustainability Performance in Education, from 2012, www.sustainabilityperformance.org

College of Experts on CSR and Sustainability, Hobéon, from 2011

Visitation commission of the Expert Centre of Innovation, Energy & Product Realization, Rotterdam University of Applied Sciences, 2010

Reviewer of the *Journal of Education for Sustainable Development* (JESD), from 2010

Jury member of the award 'Netherlands 2040', Ass. of Water and Land Planning, 2010

Member of the Advisory Council for Regional Sustainability Assessment, 2009 – 2010

Reviewer of the *Journal of Cleaner Production* (JClePro), from 2009

Chair: International AISHE 2.0 Project Group, from 2007

Reviewer and Advisory Board member of the *International Journal of Sustainability in Higher Education* (IJSHE), from 2005

Chair: Working Group on Criteria for Sustainable Higher Education, 1999 – 2006

Dutch Commission on Sustainability in Higher Education (CDHO), 1999 – 2005

Protocol Commission for the Charter for Sustainable Development for Universities of Applied Sciences, 2001 – 2004

Environmental Working Group of the Business Consultation Forum of the Tilburg Region, 2000 – 2002

Working Group on General Engineer Qualifications, Association of Universities of Applied Sciences (HBO-Raad), 2000 – 2001

Task group on Strategic Development of the Environmental Technology Valley Association (ETVA), 1999 – 2000

Books

'Future Focused Entrepreneurship', 2018. Publication in preparation.

'The Seven Competences of the Sustainable Professional', with Anouchka Rachelson. Routledge-Greenleaf, 2017.

'De zeven competenties van de duurzame professional', Garant, Antwerpen, 2015, ISBN 978 90 4413 302 8, www.maklu.be/MakluEnGarant/BookDetails.aspx?id=9789044133028

'Fundamentals of Sustainable Development'. Routledge, 2012. Second edition: 2017. See: www.routledge.com/books/details/9781849714198

Dissertation: '*Sailing on the winds of change. The Odyssey to Sustainability of the Universities of Applied Science in the Netherlands*'. Maastricht University Press, 2010, ISBN 978 90 5278 980 4. Download from: https://app.box.com/shared/nz75typdk5
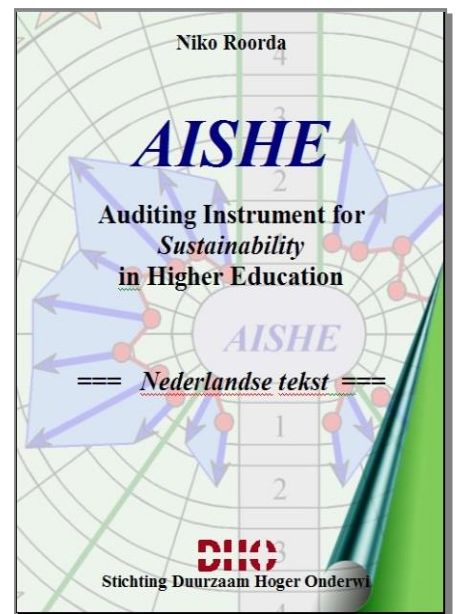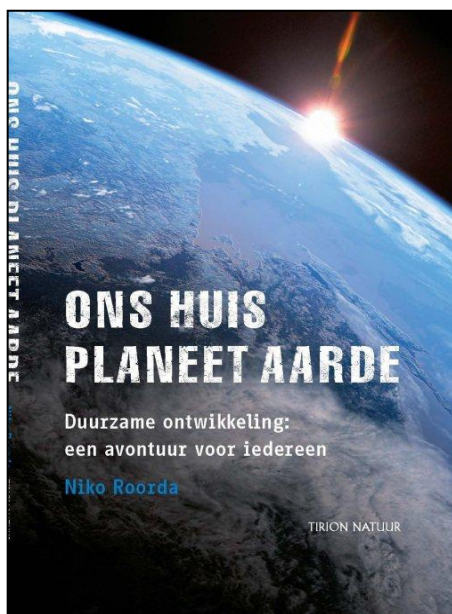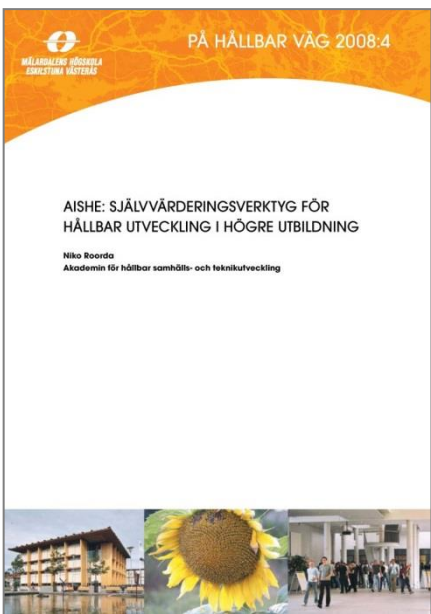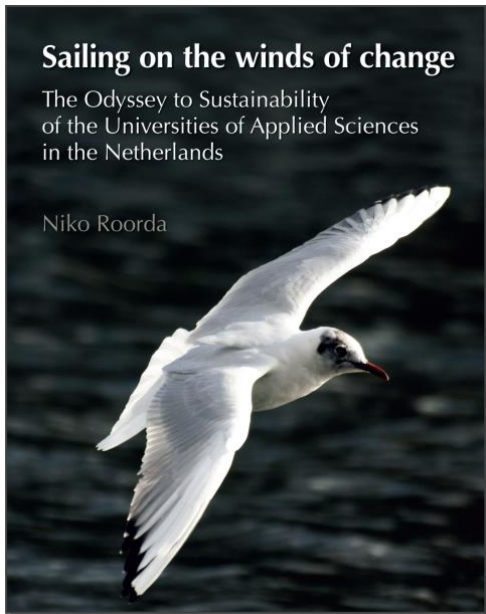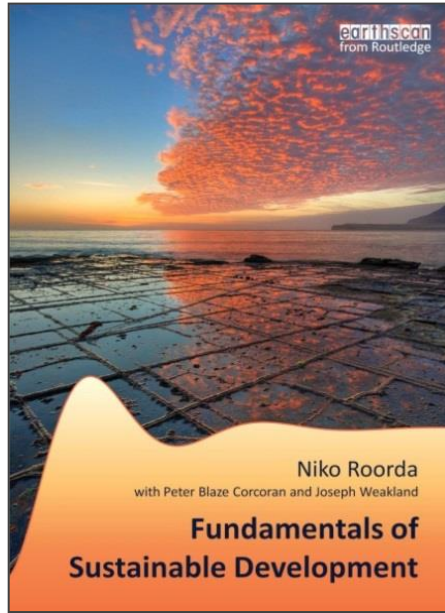
'Ons huis, Planeet Aarde. Duurzame ontwikkeling: een avontuur van iedereen' ('Our home, Planet Earth: an adventure for everybody'), a book aiming at a broad general public. Tirion, 2008, ISBN 978 90 5210 742 4

Editor and author team member: 'Duurzaam Ondernemen' ('Sustainable Entrepreneurship'), a correspondence course for managers and staff of profit- and non-profit organizations. Euroforum, 2007

'Werken aan duurzame ontwikkeling', ('Working on sustainable development'), textbook for advanced students in higher education. Wolters-Noordhoff, 2007, ISBN 978 90 01 40030 9.

'Basisboek Duurzame ontwikkeling', ('Basic book on sustainable development'), textbook for first-year students in higher education. Noordhoff, 2005, ISBN 90 01 26709 2. Second edition: 2011. Third edition: 2015.

'AISHE, Auditing Instrument for Sustainability in Higher Education'. Dutch and English edition: DHO, Amsterdam, 2001. Swedish edition: HU2, Stockholm, 2008, ISBN 978 86135 17 1. French edition: MESA, Nairobi, 2013. See: www.eauc.org.uk/theplatform/getting_started

Basisboek Duurzame ontwikkeling

Dr. Niko Roorda

Derde druk

Noordhoff Uitgevers

earthscan from Routledge

Niko Roorda
with Peter Blaze Corcoran and Joseph Weakland

Fundamentals of Sustainable Development

Niko Roorda

De **7** **competenties** *van de* *duurzame professional*

Garant

Sailing on the winds of change

The Odyssey to Sustainability
of the Universities of Applied Sciences
in the Netherlands

Niko Roorda

Schriftelijke leergang in 10 lessen
Startdatum 28 september 2007

schriftelijke leergangen

Duurzaam ondernemen

UITGEVERIJ
EUROFORUM

PÅ HÅLLBAR VÄG 2008:4

MÄLARDALENS HÖGSKOLA
ESKILSTUNA VÄSTERÅS

AISHE: SJÄLVVÄRDERINGSVERKTYG FÖR
HÅLLBAR UTVECKLING I HÖGRE UTBILDNING

Niko Roorda
Akademin för hållbar samhälls- och teknikutveckling

ONS HUIS PLANEET AARDE

Duurzame ontwikkeling:
een avontuur voor iedereen

Niko Roorda

TIRION NATUUR

Niko Roorda

AISHE

Auditing Instrument for *Sustainability* **in Higher Education**

AISHE

=== *Nederlandse tekst* ===

Stichting Duurzaam Hoger Onderwi

Other publications *(selection)*

Book chapter: 'Future Focused Entrepreneurship'. In: 'Corporate social responsibility in management and engineering', C. Machado & J.P. Davim (eds.), River Publishers, 2018

Book chapter: 'The seven competences of a sustainable professional. The RESFIA+D model for HRM, education and training'. In: 'Management for sustainable development', C. Machado & J.P. Davim (eds.), River Publishers, 2016, http://riverpublishers.com/book_details.php?book_id=348

Book chapter: 'Education for Sustainable Development', with Han van Son. In: 'Sustainability Science', H. Heinrichs, A. Wiek, G. Michelsen, P. Martens (eds.), Springer Verlag, 2015, www.springer.com/in/book/9789401772419

'The future of money', Fiscaal Praktijkblad 2014-4

'Evaluation of sustainability using the AISHE Instrument: case study in a Brazilian University'. L.L. Brandli, M.A.L. Frandoloso, N. Roorda, K.T. Fraga, L.C. Vieira. Brazilian Journal of Science and Technology 2014, 1:4

Book chapter: 'A strategy and a toolkit to realize System Integration of Sustainable Development (SISD)'. In: 'Sustainability Assessment Tools in Higher Education Institutions – Mapping Trends and Good Practice at Universities round the World", Springer Verlag, 2014, www.springer.com/gp/book/9783319023748

'Review of: Dynamic Sustainabilities: Technology, Environment, Social Justice'. Journal of Education for Sustainable Development 5:1 (2011): 147–151

'A Roadmap to SISD: System Integration of Sustainable Development in Higher Education', in: GUNI Newsletter, February 2011, www.guni-rmies.net/newsletter/2011/newsletter_02_2011.html

'Sustainability, Science and Higher Education: The Need for New Paradigms', with Pim Martens and Ron Cörvers, in: 'Sustainability, the Journal of Record', 2010

'Sustainability in primary and secondary education', in: Didaktief, 2010

'Assessment and Certification of Higher Education for Sustainable Development', with Pim Martens (Maastricht University), in: 'Sustainability, the Journal of Record', Vol. 1, No. 1, 2008, www.liebertpub.com/products/product.aspx?pid=252

Book chapter: 'Quality management of higher education for sustainable development -principles and assessment', with P. Pérez Salgado, in: 'Crossing Boundaries. Innovative Learning for Sustainable Development', De Kraker, Lansu & Van Dam-Mieras (eds.), United Nations University Press, 2007

Book chapter: 'Continuing Education for Updating Teachers of Environmental Science', in: Encyclopedia of Life Support Systems (EOLSS), Online encyclopedia on sustainable development, UNESCO, 2005, www.eolss.info

Book chapter: 'Interactive Workshops, Games, and Software: examples', in: Encyclopedia of Life Support Systems (EOLSS), Online encyclopedia on sustainable development, UNESCO, 2005

'Special quality characteristics and accreditation of higher education', in: Congresverslag 'Accreditatie in het Hoger Onderwijs', Studiecentrum voor Bedrijf en Overheid, 2004

Book chapter: 'Policy development for sustainability in higher education – results of *AISHE* audits', in: ''Higher Education and the Challenge of Sustainability', Wals & Corcoran (ed.), Wolters-Kluwer, 2004, page 305 – 318

'Implementation of sustainable technological development in higher technology education: Project Cirrus Final Report'. Hogeschool Brabant, Tilburg, 2003

'Assessment and Policy Development in Sustainability in Higher Education with *AISHE*', in: 'The Declaration, Journal of the Association of University Leaders for a Sustainable Future', Washington DC, May 2002, page 13 - 16

Book chapter: 'Assessment and Policy Development in Sustainability in Higher Education with *AISHE*', in: 'Teaching Sustainability at Universities- towards curriculum greening', W. Leal Filho (ed.), Peter Lang Verlag, Frankfurt, 2002, page 459 - 486

'Backcasting the future', in: International Journal of Sustainability in Higher Education (IJSHE), Vol. 2, no. 1, 2001, pp. 63 – 69, ISSN 1467-6370

'Auditing Sustainability in Engineering Education with AISHE', in: Entree 2000 Proceedings, page 13 - 30, Brussels 2000, ISBN 90 76760 02 0

'Integrating sustainable technology into higher education', in: IACEE (International Association for Continuing Engineering Education) Newsletter Vol. 9, no. 2, winter 1999, ISSN 0786-9916

'Sustainable Technology, a University Education Programme', in: Praktijkjournaal Duurzaam Bouwen, July 1997, page 11

Presentations *(selection)*

Guest Lecture: 'Your Personal Social and Environmental Responsibility as a (future) Professional'. Miami Dade College, Florida, 2017. Video available on https://niko.roorda.nu/presentations/miami-lecture.

Keynote Presentation: 'The Sustainably Competent Educator'. Erasmus+ Project 'A Rounder Sense of Purpose', Budapest (Hungary) 2016

'RESFIA+D: The Seven Competences of the Sustainable Professional'. Eco-campus 3, side-event of COP21, Paris (France) 2015

'A global alliance of Networks of Education for Sustainable Development'. EAUC Annual Conference, Leeds (UK) 2015

Keynote Presentation: 'A strategy and a toolkit to realize System Integration of Sustainable Development (SISD)', UNICA (*Network of Universities from the Capitals of Europe*), Brussels (Belgium) 2014

Keynote Presentation: 'The sustainable world of the future', Sustainabilism Congress, Rotterdam (Netherlands) 2013

'Assessment of Sustainable Development', AASHE Conference, Los Angeles (USA) 2012

'Transition strategies of European Higher Education Institutions'. UNESCO, Conférence des Présidents d'Universités & Conférence des Grandes Ecoles, Paris (France) 2012

Keynote Presentation: 'Sustainable Development in Higher Education'. ISLE (Innovation in the teaching of Sustainability in Life Sciences in Europe) Summer School, Valletta (Malta) 2011

Keynote Presentation: 'Sustainable Business' & Masterclass 'Future Focused Entrepreneurship', Sustainability event, Hanze University, Groningen (Netherlands) 2011

'Successful strategies for ESD (education for sustainable development)'. ERSCP-EMSU Conference, Delft (Netherlands) 2010

'Sustainability and Development Cooperation', Profound Seminar, Den Bosch (Netherlands) 2010

'The use of AISHE 2.0 for the assessment of sustainable development within the education, the research, the operations and the community outreach of universities'. VI Congreso Iberoamericano de Educación Ambiental, Buenos Aires (Argentina) 2009

Keynote Presentation: 'The sustainable future of travelling', Benelux Travel and Retail Association, Antwerp (Belgium) 2009

'Assessment, Policy Development and Certification of Education for Sustainable Development: AISHE 2.0'. EMSU Conference, Barcelona (Spain) 2008

'Education for Sustainable Development', Mykolo Romerio Universitetas, Vilnius (Lithuania) 2007

'Quality Management of Sustainable Development in Universities', Swedish National Conference on Quality Management in Higher Education, Stockholm (Sweden) 2006

'Societal roles of universities', European Meeting on Sustainable Management of Higher Education Institutions, Lüneburg (Germany) 2005

'Sustainable development as an example of a special quality characteristic in the accreditation of higher education', National accreditation congress, NVAO, Rotterdam (Netherlands) 2004

'Assessment of Sustainable Development in Higher Education', European Day Conference, CSR Europe, Brussels (Belgium) 2003

'Auditing of educational content', EnvEdu Conference, Hannover (Germany) 2003

'Policy development for sustainability in higher education – results of AISHE audits', Conference Engineering Education in Sustainable Development, Delft (Netherlands) 2002

'Assessment and Policy Development in Sustainability in Higher Education with AISHE', EMSU Conference, Grahamstown (South Africa) 2002

'Sustainability as an aspect of Quality Management in Higher Education', Stockholm (Sweden) 2001

'Criteria for Sustainable Higher Education', Essence Conference of the AuDes Network, Venice (Italy) 2001

'Assessing Sustainability in Higher Education', ULSF (Association of University Leaders for a Sustainable Future) Conference, Washington DC (USA) 2001

'Environmental education and sustainable development education'. Seminar on the occasion of the presentation of the Explorative Report on Environmental Education Programmes, HBO-Raad, The Hague (Netherlands) 2000

Keynote Presentation: 'Auditing Sustainability in Engineering Education with AISHE'. Presentation and workshop, Entree 2000 Conference, EEE Network, Belfast (Northern Ireland) 2000

'Sustainability in Higher Education'. Presentation and workshop, CCC 2000 Conference, CRE Copernicus, Krakow (Poland) 2000

'Project Cirrus: Integrating Sustainable Technology in Higher Technical Education'. Entree 1999 Conference, EEE Network, Tampere (Finland) 1999