Sustainability at Universities – Opportunities, Challenges and Trends
# Table of Contents

Preface ........................................................................................................................................... 9

Chapter 1
Implications of Sustainability for Training Nutritionists for the 21st Century
  *Anne Sibbel* .................................................................................................................................. 11

Chapter 2
Introducing a New Technology to Enhance Community Sustainability
  – An Investigation of the Possibilities of Sun Spots
  *Suppachart Tantisureeporn, Leisa J. Armstrong* ................................................................. 27

Chapter 3
Pragmatic Truths – When Ritual Meets the Reality of Community Engagement
  *Joyce Hendricks, Vicki Cope, Maureen Harris* ........................................................................ 37

Chapter 4
Teaching Sustainable Stormwater Management Using Project Based Learning
  *Niranjali Jayasuriya* .................................................................................................................. 51

Chapter 5
Community Engagement for Sustainability: An Invitation and a Challenge to all Universities
  *John Renner, Jim Cross* ............................................................................................................. 61

Chapter 6
Service Learning for Sustainable Development in Foreign Languages
  *Joshua M. Pearce, Eleanor E. ter Horst* ...................................................................................... 73

Chapter 7
Developing and Sustaining Perpetual School University Partnerships
  *Will Turner* .................................................................................................................................. 87
Chapter 8
Greening the Teacher Education Program at Universiti Sains Malaysia
   – A Report on Baseline Studies
   Sharifah Norhaidah Syed Idros, Abdul Rashid Mohamed......................... 95

Chapter 9
Teaching Urban Sustainability – New Approaches for Emerging Needs
   Pamela Robinson............................................................................................. 109

Chapter 10
Greening Higher Education as a Procedure of Institutional Learning
   Alessandra Pavesi, Carmen Roselaine de Oliveira Farias,
   Haydée Torres de Oliveira........................................................................... 121

Chapter 11
Waste Management and Sustainability at ‘Canada’s Green University’™
   Danielle P. Smyth, Arthur L. Fredeen, Annie L. Booth, David J. Connell .... 133

Chapter 12
Designing an Integrated Environmental Science Curriculum Using an
   IRMA Chart
   Michael A. Reiter, Patrick C. Coggins, Mark E. Howse ............................ 153

Chapter 13
Environmental Education of Key People for Sustainable Development:
   a Case-Study
   María Novo, M. Angeles Murga .................................................................... 163

Chapter 14
Developing a Tool to Audit Curricula Contributions to Sustainable
   Development
   Rodrigo Lozano, Ken Peattie ......................................................................... 179

Chapter 15
Skilled in Sustainability – Teaching Sustainability in Skills-Based Courses
   Heather Burns ............................................................................................... 195

Chapter 16
Sustainability Leadership by Implementing the ISO 14001 Framework on a
   Latin-American Campus
   Luis Velazquez, Nora Munguía, Andrea Zavala, Javier Esquer .............. 207
# Table of Contents

**Chapter 17**  
International Cooperation in Higher Education by Means of a Joint Master’s Programme in Sustainable Development  
*Alfred Posch* ................................................................. 225

**Chapter 18**  
Integrating Sustainability into Design Curriculum  
*Deborah Schneiderman, Kara Freihoefer* ................................. 241

**Chapter 19**  
Educating and Communicating about Climate Change  
– Challenges and Possibilities  
*Diane Pruneau, Abdellatif Khattabi, Joanne Langis, Charline Vautour* ... 257

**Chapter 20**  
Interdisciplinary Research Approaches to Sustainability  
– the Young Scientists’ Perspective  
*Melf-Hinrich Ehlers, Vanesa Castán Broto, Maya K. Gislason* ........... 273

**Chapter 21**  
Assessing & Planning for Environmental Sustainability  
– A Framework for Institutions of Higher Education  
*Dianne Chambers* ................................................................................................................................. 287

**Chapter 22**  
Transdisciplinarity: Realising its Potential to Support Effective Postgraduate Sustainability Teaching and Learning  
*Juliet Willetts, Naomi Carrard, Jade Herriman* ................................. 299

**Chapter 23**  
Sustainability at Universities – Opportunities, Challenges and Trends  
*Walter Leal Filho* ................................................................................................................................. 313

About the Authors ................................................................................. 321

Thematic Index ......................................................................................... 339