



LANDSCAPE EUROPE Newsletter – December 2014

Dear Landscape Europe Network readers,

We have prepared the last 2014 issue of the Landscape Europe News. You can find here an **offer for a post-doc position** in the Mediterranean Institute for Biodiversity and Ecology (France) and information about chance to apply for **two fellowships** funded by the Mellon Foundation, Dumbarton Oaks (U.S.A.) in urban landscape disciplines. Then we would like to remind you some interesting **events and conferences** that are ahead in 2015. We would also like to draw your attention on a project **HERCULES**. The newsletter ends with a list of **current publications** and a few recently issued **books**.

I would like to especially thank those who informed us about interesting new events and publications.

In case, you would like to support us with new information for our next issue, please do so. We will be glad to **pass all relevant information** to the Landscape Europe community via our web page and through the LE-Newsletter.

On behalf of the Landscape Europe, I wish you a peaceful Christmas season, strong health, prosperity and successful New Year 2015.

Wishing you interesting reading and looking forward to receive your comments and inputs for the next issue of the LE-News.



With kindest regards

Jana Borovská and the ILE SAS team
Network coordination Office



POST DOC POSITION



PostDoc position on modelling land biosphere Dynamics

The Mediterranean Institute for Biodiversity and Ecology ([IMBE, Aix-Marseille University, Aix-en-Provence, France](#)), in its research group "[Macroecology and Biogeography of Global Change \(MacroBio\)](#)" has a **PostDoc position** open for applications. The post has a duration of 36 months, the initial contract is made for 18 months, being extended based on an assessment of performance. The position is funded by the European Commission through the FP7 Research Project [LUC4C](#) and affiliated to the French National Scientific Research Centre (CNRS).

The main topic is to improve the way LULCC processes are represented in the DGVM LPJmL through enhanced soil and vegetation process representation. Work should improve the model's capacity to project climate-LULCC interactions for the computation of net climate effects, and ecosystem services. One focus is on the representation of diverse agricultural management systems, cropland abandonment/afforestation and forest management, in order to develop ways to account for their effects on biochemical cycles and biophysics.

The PostDoc will also contribute to the actual assessment of indirect effects and trade-offs of LULCC. The team will look into the indirect effects of land-based mitigation options for climate change, and the interplay with climate change, across and within regions.

The successful candidate will have completed a doctorate in one of the environmental sciences. Substantial earth system modelling and programming skills are required, familiarity with highly modular C-code. Experience with Dynamic Global Vegetation Models will be a great advantage. The working language is English.

We will begin interviewing suitable candidates after December 1, 2014. The position will be filled when a suitable candidate has been identified. To apply for this position, please send a letter of application, demonstrating your ability to understand the task, and your CV **as soon as possible, but before the 31st of January 2014, by e-mail** to Ms. Gabriela Boéri (Gabriela.Boeri@imbe.fr). For any questions about the task, working conditions, or the LUC4C project, please contact Dr Alberte Bondeau (alberte.bondeau@imbe.fr).

Prof. Dr. Wolfgang Cramer

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FELLOWSHIPS IN URBAN LANDSCAPE TOPICS

As part of a new program in urban landscape studies funded by **the Mellon Foundation, Dumbarton Oaks**



is offering fellowships for historians and designers

pursuing advanced research in urban landscape topics, both historic and contemporary. The program is funded through the Foundation's initiative in "**Architecture, Urbanism, and the Humanities,**" intended to foster the joint contributions that the humanities and the design and planning disciplines may make to the understanding of the processes and effects of burgeoning urbanization.

Two fellowships will be offered each fall and spring, and are available to humanities scholars, landscape architects and urban designers.

The Mellon Fellowships are intended to build constructive dialogue between them about the history and future of urban landscapes, encouraging them to bridge the gap between their professional modes of thinking. To foster this interchange, Dumbarton Oaks seeks candidates with a demonstrated capacity for cross-disciplinary work, and encourages collaborative applications from designers and historians working on similar topics or the same city. Field research funds are also available. **The application deadline for the 2015-16 academic year is February 1, 2015.**

For additional information on the urban landscape initiative, see www.doaks.org/research/garden-landscape/mellon-initiative-in-urban-landscape-studies/overview.

For fellowship terms and applications, see www.doaks.org/research/fellowships-and-grants/fellowships/mellon-fellowships-in-urban-landscape-studies.

Any questions related to the Mellon Fellowship Program or to the suitability of proposed fellowship applications should be directed to Mellon@doaks.org. Preference will be given to candidates with final degrees such as PhD or MLA.

Links: www.doaks.org/research/garden-landscape, www.doaks.org/research/fellowships-and-grants

EVENTS

URBES Conference: Nature's Solutions for European Urban Areas

14 January 2015, 09:30-14:00

Brussels, Belgium



The URBES – **Urban Biodiversity and Ecosystem Services project (2012-2014)** is an EU unded project, led by the Stockholm Resilience Centre, with the involvement of numerous research institutes, ICLEI (Local Governments for Sustainability), IUCN – International Union for Conservation of Nature, and the cities: Stockholm, Berlin, Salzburg, Barcelona, Rotterdam, Helsinki and New York.

Over the past three years, the project has contributed to informing urban planners and decision-makers on how to best integrate the natural environment into city planning, by bridging the knowledge gap on the importance of urban biodiversity and ecosystem services for human well-being. Nature is of great value to cities – it improves quality of life, reduces ecologic footprints and climate change impacts, and also strengthens the green economy.

The URBES project has resulted in multiple research outcomes related to the role of biodiversity and ecosystem services in urban landscapes.

On 14 January 2015, a conference will be held in Brussels to present these results, build on the project's insightful findings and identify areas for future collaboration.

For more information about URBES please visit www.urbesproject.org

8TH FORUM FOR THE FUTURE OF AGRICULTURE

31 March 2015

Brussels, Belgium



The Forum for the Future of Agriculture will **return on** Tuesday, March 31, 2015, at the Square Meeting Center in Brussels.

FFA2015 Secretariat

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For more information about previous conferences, please visit our FFA website:
<http://www.forumforagriculture.com/>

Culture(s) in Sustainable Futures: theories, policies, practices

6-8 May 2015

Helsinki, Finland



International conference in Helsinki 6-8 May 2015

CULTURE(S) IN SUSTAINABLE FUTURES:

theories, practices and policies

This international transdisciplinary conference explores the roles and meanings of culture in sustainable development. The new ideas generated in the conference will inform and advance understandings of sustainability with cultural studies and practices, and vice versa. The invited speakers of the conference are internationally well-known scholars and actors in this field:
<http://www.culturalsustainability.eu/helsinki2015/speakers>

Four thematic streams:

- Theories, conceptual approaches and methodologies
- Incorporating culture in sustainable development policies
- Cultural and ecological transitions and transformations
- Crafting and grafting urban and rural environments

Link: <http://www.culturalsustainability.eu/helsinki2015>

Conference “SUSTAINABLE MOUNTAIN REGIONS: MAKE THEM WORK”

14-16 May 2015

Rila Mountain resort of Borovets, Bulgaria



The conference will bring together academic researchers, practitioners, and representatives of governmental institutions and non-governmental organizations involved in sustainable development of mountain areas.

The conference will not be just a forum of academic researchers, practitioners, and representatives of governmental institutions and non-governmental organizations involved in sustainable development of mountain areas. **One of its main goals** is to bring further scientific evidence, advocate, and promote the idea that **Southeastern Europe**, if not the EC as a whole, **needs a Convention on Sustainable Development of Mountain Regions**, similar

to the Alpine and the Carpathian conventions. To this end, the **SEEmore (Southeastern Europe Mountain Research) Network** will hold its **business meeting**, which takes place on a bi-annual basis, during the conference. **Everybody is welcomed** to attend, join, propose, and discuss ideas and projects.

Special workshop

The conference features a special workshop on "**Ecosystem Services in Sensitive Mountain Areas**" in relation to the joint Bulgarian-German Project "Ecosystem based information system covering sensitive mountain areas in Bulgaria", organized and chaired by Dr. St. Nedkov, Sofia University.

Link: http://geography.bg/MountainRegions_Sofia2015/index.php?t=3

17th International Symposium - Landscape and Landscape Ecology

27-29 May 2015

Nitra, Slovak Republic



Institute of Landscape Ecology, Slovak Academy of Sciences and Constantine the Philosopher University in Nitra with collaboration of the Slovak Ecological Society organize the 17th International Symposium – Landscape and Landscape Ecology.

Symposium main topics:

1. Theoretical issues of landscape ecology: current concepts and trends
2. Methods in landscape research
3. Landscape and ecosystem services: concepts and applications
4. Landscape governance and management
5. Environmental awareness and education in landscape ecology

Symposium workshops:

- A. The landscape, the European Landscape Convention and the law
- B. Ecosystem Services in Changing Landscapes: How to assess tradeoffs and land use options?
- C. Implementation of the EU Danube Region Strategy
- D. Family farming or industrial farming

Link:

http://www.uk.sav.sk/index.php?option=com_content&view=article&id=311&lang=en

GUIDOSTOOLBOX WORKSHOP: Image Pattern Analysis and More

Date and Time: Tuesday, 26 May 2015, from 9:00 to 18:00.

Nitra, Slovak Republic

Charges: free of charge.



17th International Symposium



27 – 29 May, 2015
Nitra, Slovakia

Objectives:

Processing of satellite data including analysis of pattern, connectivity, fragmentation; use of gdal-libraries for pre-/post-processing; producing GoogleEarth image overlays.

Target audience:

People interested in generic image object analysis, specifically on pattern, connectivity, fragmentation, and change analysis.

Course Summary:

The [GuidosToolbox software](#) includes a wide variety of generic image processing tools for the analysis of raster images. Morphological Spatial Pattern Analysis ([MSPA](#)) classifies the shape and connectivity of image objects, which can be transformed into a network setup for further examination with graph-theory software. Further routines are available for the quantitative assessment of fragmentation, change analysis, and Landscape Mosaic. This course will use sample data of forest maps to illustrate the use and added value of these routines. Additional tools within GuidosToolbox address generic image analysis and batch processing, which can be employed for a wide variety of pre- and post-processing tasks, as well as data publishing in GoogleEarth.

Course outline:

Part 1:

Motivation for new ways of image object analysis: pattern, connectivity, fragmentation and more. GuidosToolbox: program features and application examples

Part 2:

Hands-on training using sample datasets:

- a) Data preparation for image pattern analysis
- b) MSPA, connectivity, fragmentation, change analysis
- c) Import/export to ArcGIS/QGIS, export to GoogleEarth overlays
- d) Help with user data, discussion and suggestions

Necessary tools and material:

The GuidosToolbox software and the workshop material are [freely available](#). A customized version of the workshop material (adapted to the organizer's requirements if needed) will be provided to the course participants two weeks before the course. Installing the software requires a laptop with 4GB RAM and 10 GB free disk space. If necessary, installation help will

be provided. Course participants should bring their own laptop with GuidosToolbox and the workshop material already installed. Having such a laptop is highly recommended but not mandatory to participate in this course.

Venue: [Constantine the Philosopher University in Nitra](#), Trieda A. Hlinku 1, 949 74, Nitra, Slovak Republic (Symposium venue).

Instructor and registration:

Peter Vogt, European Commission, Joint Research Centre, Institute for Environment and Sustainability, Forest Resources and Climate Unit.

[For registration and any question please write to Peter.Vogt\(at\)jrc.ec.europa.eu.](mailto:Peter.Vogt(at)jrc.ec.europa.eu)

Links: http://www.uke.sav.sk/index.php?option=com_content&view=article&id=311
<http://forest.jrc.ec.europa.eu/download/software/guidos/>

**24th International Symposium
"Deltas and Wetlands" 2015**

19-21 May 2015

Tulcea, Romania



Sections:

- Biodiversity, taxonomy and nature conservation.
- Optical methods for characterization and biomonitoring of natural aquatic environments.
- Environmental factors, ecological reconstruction and human impacts in the Black Sea Basin.
- Natural resources and socio-economic aspects
- GIS, modeling, transport and fate of organic and other pollutants"

Link: http://www.ddni.ro/index.php?page_id=334&siteSection=7§ionTitle=Events



CHeriScape Conference III (Landscape / Heritage and Community)

in Oslo, Norway

18-22 May 2015.

LANDSCAPE AS COMMUNITY

One of the strongest ties that binds landscape and heritage is their relationship to people, individually but above all in communities of various sorts, notably of place or of interest and (as in the Faro Convention) heritage communities. Heritage and landscape are key issues in local society. One of the substantive and oldest meanings of landscape is that of community, a shared territory, a body of custom. The third CHeriScape conference will therefore take 'community' as its starting point and will aim to bring specialists and stakeholders into fruitful discussion about the capacity of landscape to support socially and environmentally sustainable decisions and futures. We will discuss how landscape can create a structure within which communities can engage in decision making and participatory processes in planning. Words such as identity, awareness, stewardship, communality and responsibility will be key concepts in this conference. Reconnecting to and through landscape is a live debate these days, perhaps especially in the more intangible areas of heritage and landscape, in relation to social and demographic change and how communities share or reserve their land, goods and services.

Link: <http://www.cheriscape.ugent.be/conferences/conference-3/>

More information: http://www.cheriscape.ugent.be/wp-content/uploads/2014/01/CHeriScape_Session_Helsinki.pdf



**52nd World Congress of the International Federation of Landscape Architects
7-15 June 2015**

St. Petersburg, Moscow, Russia

"History of the Future"

The Russian Federation is currently experiencing a real "boom" in the development of landscape architecture. Every year the Russian landscape architecture profession offers new designs and publishes professional journals and books. In 2011, the country accepted the Bologna educational system and opened landscape architectural training courses at bachelor, masters and PhD levels. In a growing economy, the landscape architectural profession has become a very specific demand.

For the first time in the history of the IFLA World Congresses, this 52nd Congress will be held on the territory of Russia with its extensive natural, semi-natural and man-made landscapes. The dramatic story of the region gave the international landscape architecture world amazing examples of revitalisation and reconstruction of 'lost' landscapes.

Call for abstracts

History of the Future caters for a wide range of interests on the challenges and opportunities of the past, the present and the future for landscape architecture and landscape architects:

- East to West: methods of integration and innovations in modern landscape architecture
- Historical and 'Natural' Landscapes in the 21st century - conservation, reconstruction and restoration; research for integration into modern urban and rural landscape
- Green-blue infrastructure and sustainable urban development

Important dates:

15 January: submission of abstracts

15 February: announcement about acceptance of abstracts and posters, and call for full papers

15 March: submission of full papers

15 April: comments on full papers will return from reviewers

Link: <http://www.ifla2015.com/en/congress/>



11th

International Conference of the European Society for Ecological Economics (ESEE) 2015: Transformations

30 June – 3 July 2015

Leeds, U.K.

ESEE is a non-profit, member-governed, organisation dedicated to advancing understanding of the relationships among ecological, social and economic systems for the mutual well-being of nature and people.

This conference takes place as this century's key challenges for human society become ever clearer and more entrenched: increasing levels of resource use and environmental impacts; threats to food, water and energy security; unequal distribution of economic and physical wealth; power imbalances and conflicts; new waves of political and economic migration; and the lack of international will to address the reality of planetary threats such as climate change and global biodiversity loss.

ESEE 2015 explores solutions for the transformation to a sustainable society, building on the distinctive contribution of ecological economics, by shining a spotlight on the interdependency of economic activity and natural systems, and identifying options that prioritise human wellbeing within planetary boundaries. The conference will contribute to the dissemination of knowledge on these issues, through oral and poster presentations, keynote lectures from prominent scholars, and lively formal and informal discussions. It also aims to foster future research collaborations between academics and stakeholders, and provide training and learning opportunities for younger researchers through an associated summer school which will feed into the main conference.

Under the banner of *Transformations*, the **themes of the conference include:** *post-growth economics; natural resources, ecosystem services and environmental quality; development, consumption and well-being; power, politics, institutions and the reality of achieving change; new business models and understandings of human behaviour; and theory, methods and practice of ecological economics.*

Link: <http://www.esee2015.org/page/7/home/>



ISIE conference 2015: Taking Stock of Industrial Ecology

7-10 July 2015

Guildford, UK

The next in the International Society of Industrial Ecology's series of biennial conferences will be held in July 2015 at the University of Surrey, a campus University about 50kms from London and convenient from both Heathrow and Gatwick airports.

The conference will run from Tuesday 7th July to Friday 10th July 2015. In an exciting addition to the usual platform and poster presentations of current research, there will be a series of presentations and panel discussions around the theme of the conference – "Taking Stock of Industrial Ecology". These will review what industrial ecology has achieved so far, how it is being applied and how it needs to develop in future. A book of specially written essays will be published around the time of the conference to provide a background for these special sessions.

ISIE's Subject Sections and Student Chapter will be organising extra activities on Monday 6th and Saturday 11th July.

Link: http://www.surrey.ac.uk/ces/news/key_events/isie_conference/

GI_Forum 2015: Geospatial Minds for Society

7 -10, July 2015

Salzburg, Austria



The GI_Forum 2015 provides a platform for dialogue among geospatial minds in an ongoing effort to support the creation of an informed GISociety. Bearing in mind different perspectives from a variety of professions, presentations, workshops and exhibitions will concentrate on innovations in education, science and technologies, in the spatial domain and their possible contribution to a more just, ethical and sustainable society. **Prominent keynote** speakers will highlight new developments, offer insights into trends and visions, and at the same time be available for our **Young Researchers' Corner** for more individualized interaction with young researchers.

Themes & Application Fields. GI_Forum solicits contributions in full paper and extended abstract versions in, but not limited to the following topics:

- Advances in GIScience
- Innovations in geospatial technologies
- Monitoring Global Change
- Citizenship and education
- Empirical research in education
- Learning Environments in Primary and Secondary Education

This year the GI_Forum will host a number of **specialty sessions, tracks and workshops:**

- **School on the cloud** - Special Track.
- **EO-based support of Humanitarian Operations (EO4Hum)** - Special Workshop within "Global Change" track.
- **Geoinformation for Public Health / Health GIS** – Special Session.
- **Hydrology GIS** - Special Workshop "GI Science in Hydrology".

Types & Deadlines.

GI_Forum 2015 gives authors choices about the type of submission they want to make in order to accommodate a variety of interdisciplinary contributions. Submissions must be in English language. The review is double-blind. Consult the author information guidelines published at the conference website for further details. Publication will be both hardcopy and online (see www.austriaca.at/gi_forum). The publication is included in Thomson Reuters Conference Proceedings Citation Index.

Conference stipends: A total of 5 conference stipends are available for outstanding international contributions from MSc/PhD/PostDoc researchers. These stipends are € 400 each and will typically cover both the conference fees and accommodation during the conference. Stipends are available for full-paper contributions in English only. They are awarded based on the results of an international review process.

February 1, 2015 deadline for submission of full papers, extended abstracts, extended abstracts for poster presentation

March 16, 2015 notification of acceptance

April 15, 2015 final paper versions

June 6, 2015 late deadline for submission of extended abstracts for poster presentation

Online submissions only, starting from **December, 1st 2014** at www.gi-forum.org.

PROJECT



Sustainable Futures for Europe's Heritage in Cultural Landscapes:

Tools for understanding, managing, and protecting landscape functions and values

We appreciate cultural landscapes – those landscapes of distinct human shape that surround us – for many different reasons, whether for their cultural heritage, as recreational areas, or for their environmental virtues.



Sustainable Futures for Europe's Heritage in Cultural Landscapes, commonly known as HERCULES, is a 3-year project between 13 partners funded through the EU's 7th Framework Programme for research, technological development and demonstration. The project develops insights, tools, technologies and strategies and applies and tests these at regional case studies that have major environmental and land use history gradients throughout Europe. The project's vision is to identify local needs for landscape management and to provide a forum for general exchange on findings developed by the project consortium. (For more information on the project's objectives visit the project's website at www.hercules-landscapes.eu or have a look at its [leaflet](#).)

In order to bring together different stakeholders, including policy makers, farmers, practitioners, scientists, NGOs and industry to ensure that all perspectives are considered both at both at EU and



study landscape level HERCULES will host a series of workshops entitled *A Dialogue for Landscape Action*.

3 workshops will take place at EU level to discuss the threats and benefits of cultural landscapes and 15 local workshops will take

2014

place in (Greece, the Netherlands, Spain and the UK) to better understand the driving forces and actors responsible for the observed changes in the recent past and to discuss and refine existing landscape practices in the area. *(To learn more on the study landscapes click [here](#) and to discover our workshops so far visit our website at www.hercules-landscapes.eu)*



As part of the project, HERCULES website boasts a **Cultural Landscape Blog**:

The idea of this “Cultural Landscapes Blog” is to establish a forum for debate around cultural landscapes within and across the communities of landscape science, practice, and policy. Contributions from project members and other people affiliated with the project are scheduled to appear once or twice a month. Landscapes tend to generate intense and passionate debates. We welcome these kinds of debates and hope that this blog could serve as a rallying point for discourse on global, European, national and local landscapes; “scientific” and “lay” approaches; and personal and passionate accounts and descriptions.

Read and Subscribe to our blog at www.hercules-landscapes.eu/blog.php

Project partners:

This project has received funding from the European Union's Seventh Framework Programme for research, technological development and demonstration under grant agreement no 603447.

FP7, Collaborative Project

1 December 2013 – 30 November 2016

PUBLICATINS

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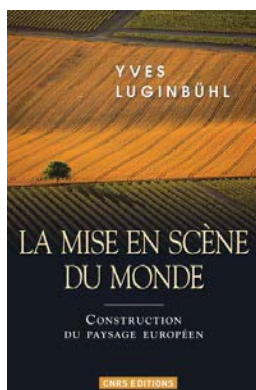
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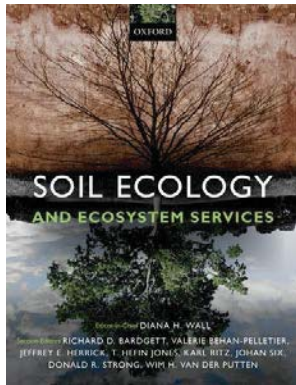


Putting the World on Stage
Building the European Landscape
 by Yves Luginbühl

The idea of a landscape originated in the 16th century, when the land-scape became a pictorial genre and therefore a source of inspiration for painters and architects. This arrangement of traits, of forms and elements from a delineated space called a

"landscape" gradually became a means of revealing our own sensibilities. From then on, the landscape took on growing importance in our modern societies. Tourism and the ecology have rediscovered the landscape and exploited it. In 2000 the Council of Europe put forward the European Landscape Convention. All of this is evidence of how the landscape has risen to its acknowledged importance – and isn't it true that France offers an exceptional variety of landscapes, almost so much so that it seems an essential trait of national identity?

Yves Luginbühl works as both an historian and a geographer in the context of land management. He describes social sensibilities, including the idea of environment. He seizes upon both the biological materiality of the countryside and its importance as a symbol. He holds up the *natural* reality of the landscape to the *cultural* one. His analysis takes us from "beautiful nature" to "landscape development," from imposing order on it to putting it on stage.



Soil Ecology and Ecosystem Services

Edited by Diana H. Wall, Richard D. Bardgett, Valerie Behan-Pelletier, Jeffrey E. Herrick, T. Hefin Jones, Johan Six, Donald R. Strong, and Wim H. van der Putten
Karl Ritz

424 pages | 246x189mm

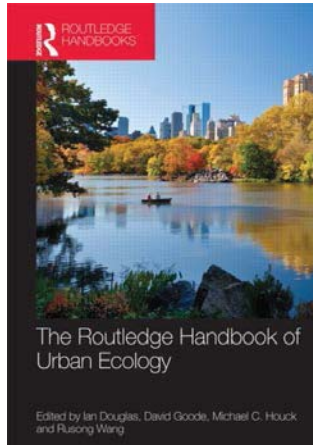
978-0-19-968816-6 | 18 July 2013

- Novel, research level book linking soil ecology with the contemporary paradigm of ecosystems services
- Emphasizes the integrative biodiversity of soils, adopting an ecosystem approach
- Consolidates the discipline within an ecosystem services framework, providing a series of models for further research

This multi-contributor, international volume synthesizes contributions from the world's leading soil scientists and ecologists, describing cutting-edge research that provides a basis for the maintenance of soil health and sustainability. The book covers these advances from a unique perspective of examining the ecosystem services produced by soil biota across different scales - from biotic interactions at microscales to communities functioning at regional and global scales. The book leads the user towards an understanding of how the sustainability of soils, biodiversity, and ecosystem services can be maintained and how humans, other animals, and ecosystems are dependent on living soils and ecosystem services.

This is a valuable reference book for academic libraries and professional ecologists worldwide as a statement of progress in the broad field of soil ecology. It will also be of interest to both upper level undergraduate and graduate students taking courses in soil ecology, as well as academic researchers and professionals in the field requiring an authoritative, balanced, and up-to-date overview of this fast expanding topic.

Readership: A valuable reference book for academic libraries and professional ecologists worldwide as a statement of progress in the broad field of soil ecology. It will also be of interest to both upper level undergraduate and graduate students taking courses in soil ecology, as well as academic researchers and professionals in the field requiring an authoritative, balanced, and up-to-date overview of this fast expanding topic.



The Routledge Handbook of Urban Ecology

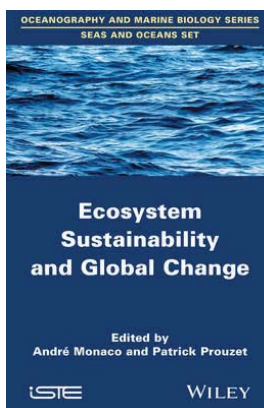
Edited by Ian Douglas, David Goode, Mike Houck, Rusong Wang

Routledge – 2014 – 688 pages

The birds, animals, insects, trees and plants encountered by the majority of the world's people are those that survive in, adapt to, or are introduced to, urban areas. Some of these organisms give great pleasure; others invade, colonise and occupy neglected and hidden areas such as derelict land and sewers. Urban areas have a high biodiversity and nature within cities provides many ecosystem services including cooling the urban area, reducing urban flood risk, filtering pollutants, supplying food, and providing accessible recreation. Yet, protecting urban nature faces competition from other urban land uses.

The Handbook of Urban Ecology analyses this biodiversity and complexity and provides the science to guide policy and management to make cities more attractive, more enjoyable, and better for our own health and that of the planet. This Handbook contains 50 interdisciplinary contributions from leading academics and practitioners from across the world to provide an in-depth coverage of the main elements of practical urban ecology. It is divided into six parts, dealing with the philosophies, concepts and history of urban ecology; followed by consideration of the biophysical character of the urban environment and the diverse habitats found within it. It then examines human relationships with urban nature, the health, economic and environmental benefits of urban ecology before discussing the methods used in urban ecology and ways of putting the science into practice.

The Handbook offers a state-of-the-art guide to the science, practice and value of urban ecology. The engaging contributions provide students and practitioners with the wealth of interdisciplinary information needed to manage the biota and green landscapes in urban areas.



Ecosystem Sustainability and Global Change

by Patrick Prouzet, Andre Monaco

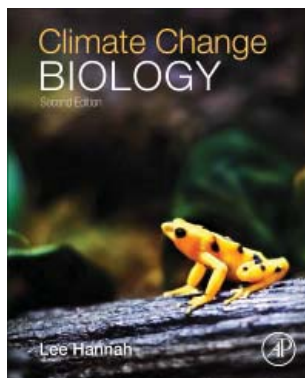
ISTE Ltd and John Wiley & Sons Inc - 2014

This volume provides various examples and dimensions, chemical, biological, climatic, or related to extreme (hazards). It describes, by reciprocity, the vulnerability of ecosystems, resources, heritage, human health and, consequently, economic and social sectors. It considers climate scenarios and socio-economic status indicators research, design strategies and patterns of adaptation,

development of innovative monitoring systems, analysis of perceptions of major hazards and valuation of ecosystem services.

Content:

1. Ocean, biodiversity and resources
2. Pelagic marine ecosystems and biogeochemical cycles
3. Indicators
4. The impact of global change on the dynamics of marine living resources



Climate Change Biology, 2nd Edition

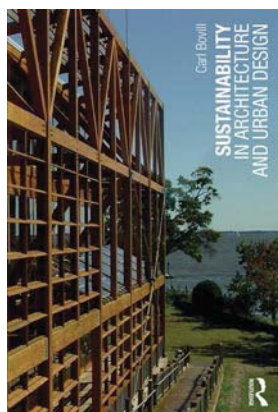
by **L Hannah**

Academic Press – 2014 - 470

Climate Change Biology, 2e explains the impact of climate change on nature. It explores impacts on people, including loss of wildlife, change in ecosystems and their services, and implications for climate regulation.

Content:

- 1: Climate Change Biology, 2: Climate Change and the Climate System, 3: Changes in species ranges, 4: Changes in Timing and Process: Phenology, 5: Ecosystem Impacts, 6: Past Terrestrial Response, 7: Marine Ecosystem Changes, 8: Past Freshwater Changes, 9: Extinctions, 10: Insights from Experimentation, 11: Modeling Species and Ecosystem Response, 12: Estimating Extinction Risk from Climate Change, 13: Ecosystem Service and Human Linkages, 14: International Policy and Action, 15: Conservation Strategies: Protected Areas, Working Landscapes and Species, 16: Reducing Greenhouse Gas Emissions, 17: Carbon Sinks and Sources, 18: Assessing Risks, Designing Solutions



Sustainability in Architecture and Urban Design

by **Carl Bovill**

Routledge – 2015 – 284 pages

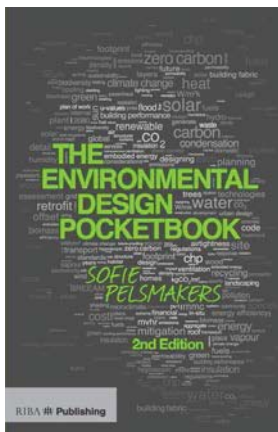
Sustainability in Architecture and Urban Design will help you understand the nature of the sustainability problem and show you how to implement your design for a sustainable future. Organized in six parts, the problem, the environment, the residential scale, the commercial scale, the urban scale, and energy sources, the book presents essential information in

context, so that you get the full picture. Hundreds of drawings, sketches, charts, and diagrams illustrate points author Carl Bovill makes in his clear and direct style, which communicates the basics in a concise way.

You'll learn:

- About environmental economics
- How sustainable architectural design relates to ecology
- How fractal geometry can lead to a new understanding of the structure of the world around us
- How to design energy efficient houses and commercial buildings
- How to design and live in our cities to lower energy use per person
- About LEED points at all scales

A glossary and reading lists encourage you to explore the topics further.



**The Environmental Design Pocketbook
2nd Edition**

by Sofie Pelsmakers

RIBA Publishing – 2014 – 416 pages

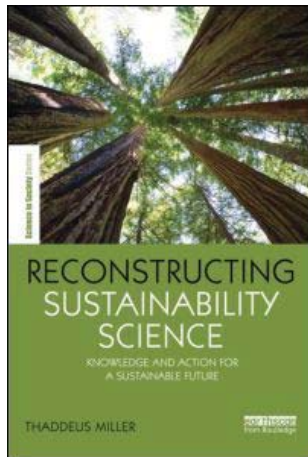
The Environmental Design Pocketbook 2nd ed places the information you need for sustainable, low energy building design at your fingertips.

This 2nd edition is now fully up-to-date with the latest Building Regulations Part L and F legislation (England and Wales), RIBA Plan of Work 2013, new information on the Green Deal and Zero

Carbon and contains revised references and further reading sections throughout.

Content:

1. CO2, Climate Change Mitigation and the Building Industry
2. Design Strategies and Adaptations for a Changing Climate
3. Environmental Site Planning
4. Urban Greenery and Biodiversity
5. Water and Flooding
6. The Internal Environment: Space, Warmth, Light and Air
7. The Building Fabric
8. Retrofit of Existing Housing Stock
9. Key Details
10. Energy Supply and Demand
11. Zero Carbon Buildings
12. Low and Zero Carbon Technologies and Renewables



Reconstructing Sustainability Science
Knowledge and action for a sustainable future

by Thaddeus R. Miller

Routledge – 2015 – 112 pages

The growing urgency, complexity and "wickedness" of sustainability problems—from climate change and biodiversity loss to ecosystem degradation and persistent poverty and inequality—present fundamental challenges to scientific knowledge production and its use. While there is little doubt that science has a crucial role to play in our ability to pursue

sustainability goals, critical questions remain as to how to most effectively organize research and connect it to actions that advance social and natural wellbeing.

Drawing on interviews with leading sustainability scientists, this book examines how researchers in the emerging, interdisciplinary field of sustainability science are attempting to define sustainability, establish research agendas, and link the knowledge they produce to societal action. Pairing these insights with case studies of innovative sustainability research centres, the book reformulates the sustainability science research agenda and its relationship to decision-making and social action. It repositions the field as a "science of design" that aims to enrich public reasoning and deliberation while also working to generate social and technological innovations for a more sustainable future.

Content:

Preface **Part 1: Constructing Sustainability Science** 1. Planet Under Pressure 2. A Science for Sustainability 4. Constructing Sustainability Science 4. Tensions in Sustainability Science **Part 2: Reconstructing Sustainability Science** 5. Reclaiming Sustainability: Limits to Knowledge 6. Sustainability as a Science of Design 7. Conclusion: Sustainability and our Socio-Technical Future
