2010 READING LIST: Sustainable Environmental Design

This reading list has been given to the library by a unit tutor or is compiled from the 2009/10 Course Booklet. We have placed the list on the internet in the form that we received it. Please note that the library does not necessarily hold all the books included on this reading list and that only a percentage of items maybe held on the unit Programme Shelf. For location details please consult the library catalogue.

The published literature on the topics covered by the SED programme is vast and continues to grow very rapidly. Random reading and uncritical internet surfing are strongly discouraged. The items listed here have been carefully selected to match the specific objectives and learning outcomes of the taught programme. They include very recent publications as well as earlier ones that have stood the test of time. Items preceded by an ‡ are Required Reading. These must be sought and read carefully very early in the year as they deal with material that is essential for following the taught programme and undertaking project work. Items marked with an † are Recommended Reading. These contain complementary information and technical data that will be needed by the course and project work. Other items in the list can be consulted in due course. The books and papers in the list have been grouped under 15 topic categories that are arranged alphabetically as follows:

- Built examples & Case Studies
- Climatology, Climate Change, Urban Climatology, Microclimatic Design
- Comfort, Post-Occupancy Evaluation, Behavioural Studies
- Conference Proceedings (PLEA)
- Construction Techniques & Materials
- Daylighting
- Design Principles
- Engineering
- Environmental Analysis Tools & Data
- Environmental Assessment
- Environmental Sustainability Issues & Theories
- Passive Heating & Cooling
- Periodicals
- Solar Geometry, Shading, Solar Control
- Ventilation

Books and papers that relate to more than one topic category may appear under more than one topic category. The symbol <see also:> is used to cross-reference the topic categories as well as refer to additional sources. All of the items listed below are
available at the AA Library in printed and/or digital forms. Moreover, most of the Required and Recommended items will be also available to download in pdf format from the programme’s folder on the AA School’s File Server. These items are identified below with [FS]. Access to the AA File Server will become available after students have registered with the AA Computer Lab at the beginning of the academic year. Key Required / Recommended items are also held in printed form or on CD at the programme's Studios. Items available on CD are identified below with [CD].

An important online source is the IHS Information Service (www.uk.ihs.com), a very useful resource that provides free access to numerous technical guides and other publications including RIBA and CIBSE publications. AA students must register to access this site. To register contact: edward@aaschool.ac.uk

A good, free online search engine for locating scientific and technical papers in the topic areas listed above is Scirus (www.scirus.com). Advice on reading and discussion of selected readings will be a regular feature of the weekly Research Seminar. Further reading material will be introduced as the year progresses.

**Built examples, Case Studies**


see also: AA E+E SED Building Studies Projects from previous years (kept in AA E+E SED Office).
Climatology, Climate Change, Urban Climatology, Microclimatic Design

† see also http://www.metoffice.gov.uk/climatechange/

Comfort, Post-Occupancy Evaluation, Behaviour Studies

Baker N V. (2001). We are really outdoor animals. Moving comfort standards in the 21st century Conf.


— see also Appendix on Software list for tools for assessing Thermal Comfort.

— see also *Design Principles* section

— see also: PROBE (Post-occupancy Review of Buildings and their Engineering) case studies at: [www.usablebuildings.co.uk/](http://www.usablebuildings.co.uk/)

**Conference Proceedings (PLEA)**


GRECO (Eds. 2002). *Design with the Environment*. Proc. of the 19th PLEA Conference (two volumes), GRECO & ACAD, Toulouse. [CD]


— see AA Library for Proceedings of earlier PLEA Conferences published annually since 1982.

**Construction Techniques & Materials**


— see also Environmental Design Principles & Data, Engineering Manuals, Environmental Analysis Tools & Data sections.

**Daylighting**


Design Principles


see also Passive heating/cooling, Ventilation, Daylighting, Solar Control sections.

Energy / Environmental Targets & Benchmarks


see also BRECSU Best Practice Programme Energy Consumption Guides

Engineering


Environmental Analysis Tools, Modelling & Simulation Data

ASHRAE. Handbook of Fundamentals. American Society of Heating Refrigerating and Air Conditioning Engineers.

see also: www.barbour.info for building regulations and construction data (AA Library for login)
see also: UK Building Regulations and Building Research Establishment (BRE) Publications.
Specialist environmental software used on MArch / MSc project work see are listed in section 9.3.

Environmental Assessment, Life Cycle Costing


**Environmental Sustainability Issues & Theories**


‡ Yannas, S. (2002). *How Do I Know if it is What They Say it is?* Environment & Energy Studies Programme, AA Graduate School, London. [FS]


**Passive Heating & Cooling**


† Santamouris, M. (Ed. 2007). *Advances in Passive Cooling*. Earthscan. (see chapters by different authors).


**Periodicals**

The *Architectural Review* (monthly), Emap Architecture, London. See for example some of the following issues among many others devoted to environment-related architectural topics:

No. 1343 (2009) Houses
No. 1341 (2008) Landscape
No. 1330 (2007) Emerging Architecture
No. 1301 (2005) Thinking Green
No. 1276 (2003) Hot Stuff (designs for warm climates)
No. 1237 (2000) Light
No. 1235 (2000) Green Issues
No. 1195 (1996) Sustainable Architecture
No. 1169 (1994) Energy Matters
No. 1152 (1993) Natural Sources
No. 1132 (1991) Architecture and Climate
No. 1123 (1990) Green Architecture

**Solar Geometry, Shading, Solar Control**


see also: Daylighting; Passive Heating & Cooling

**Ventilation**


