

The Principles of Designing with Natural Light

Suitable for building design students , architects, interior designers, planners, builders, electrical installers and building managers.

Each seminar counts as 6 CPD Hrs + 4 CPD points

by Jane Gosney BSc MSc (arch) FSL FRSA www.janegosney.co.uk

Good Design for Daylight in Buildings

Window and roof light design looking at sizing, situation, orientation and glazing issues and a review of the latest construction industry good practice guidance . A workshop will look at how to make simple physical models to aid design and basic calculations of daylight factor .

Good Design for Sunlight in Buildings

Direct sunlight and shadow path appraisals for planning applications and exterior site issues and interiors design issues relating to glare, blinds and solar gain. A workshop will look at how to do desktop shadow studies and how to determine the size of exterior sunshades using sun angle data .

Transparent Building Materials

A review of the latest glass and low emission coatings, glazing systems, including double and triple glazing with and without blinds and transparent insulation eg polycarbonates, ETFE (Eden Project) . Case studies will include residential, office, retail , transport , education ,arts, heritage and gallery projects and also decorative glass such as stained or screen printed art glass.

Innovative Natural Lighting Systems

A review of the latest systems of “off the shelf” and bespoke systems which reflect and redirect diffuse daylight and sunlight: light pipes, light shelves, prisms, new materials special films and reflector systems .Case studies will include residential ,office ,retail transport ,education ,arts ,heritage and gallery projects

A bibliography and website addresses will be provided at the seminars and also information about the use of computers in design Regulations and Quality Assurance issues.

The Principles of Low Energy Electric Lighting Design

(applied to different building types taking daylight entry into account)

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Low Energy Lighting and Lamps

An overview of Building Regulations Part L1 + 2 and EU standards and compliance issues applied to new construction including a review of new lamp technology and switching linked to daylight and occupancy for residential and commercial sectors. The latest lamp recycling and disposal Regulations are covered.

Conservation Lighting for Heritage Sites and Galleries

Advice about how to limit damage from daylight exposure due to ultraviolet and infrared radiation to paintings and artefacts : display solutions including fibre optics, LEDs and display cases and switching for reduced lux hours exposure. Building energy savings and running costs issues including maintenance for the whole site (not just display areas) are also discussed.

Retail and Leisure Sector Lighting Design

An overview of design solutions for the small shop, deep plan store and retail shed looking at lamp and luminaire selection, switching, energy saving and maintenance issues. A simple running cost savings model will be presented illustrating the best use of occupancy sensors and daylight linked lighting controls.

Lighting for workplaces (with computer display screens)

EU Workplace Directive for Visual Display Units

Advice about how to appropriately light environments where people work with computer screens (VDUs) eg schools, shops , factories and offices. The directive is part of Health and Safety in the Workplace Legislation and there are requirements to provide the correct furniture ,lighting and window blinds : examples will be provided.

A bibliography and website addresses will be provided at the seminars and also information about the use of computers in design, Regulations and Quality Assurance issues as applied to design in practice.