



The ACE and Sustainable Architecture

A Presentation by
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The ACE:

- Member Organisations from All EU Countries plus Norway, Switzerland and Candidate Countries
- 47 Member Organisations Representative at National Level
- Regulatory and Professional Bodies
- Represents Over **480,000** Architects



The Challenge:

- Climate Change
- “Greatest Market Failure Ever”
Stern Review
- Energy Efficiency
- Responsible use of Resources
- Quality, Sustainable Built Environment
- Continued Prosperity



Definition:

- **Sustainable Design Integrates Consideration of Resource and Energy Efficiency, Healthy Buildings and Materials, Ecologically and Socially Sensitive Land Use and an Aesthetic that Inspires, Affirms and Enables**



International Union of Architects

Declaration of Interdependence for a Sustainable Future, Chicago 1993



Meaning:

- **Integrated and Holistic Approaches**
- **The Building and its Environments**
- **The Environment and its Buildings**
- **Energy Efficiency and Climate Change**
- **Resource Efficiency**
- **Urban Design**
- **Research Needs**



Implementation:

- **Architecture Responsive to Climate, Human Needs**
- **Design That Takes Optimal Advantage of Ambient Energy Sources**
- **Orientation, Choice of Materials, Indoor Air Quality**
- **Dramatically Reduced Energy Demands**



Galway Institute of Technology, Ireland - Murray O'Laoire Architects



The Choice:

- **Engineered Systems to Heat, Cool and Light for Satisfactory Indoor Conditions**

versus

- **Approach Integrating Users and Environment in an Architecture that Uses Ambient Energy Sources, Seasonal and Diurnal Changes to Reduce Reliance on Engineered Systems**



Private Dwelling, Ardeches, France



Actions to Date:

ACE Member Organisations

- RIBA: Combating Climate Change Programme - UK
- CNOA: CD-ROM Sustainable Development - France
- Part of Continuing Professional Development: FR, DE, AT, UK ...
- CPD Compulsory in IE, HU ...



foRum, Rum, Austria - Richard Freisinger and Manspeter Gruber, Architects

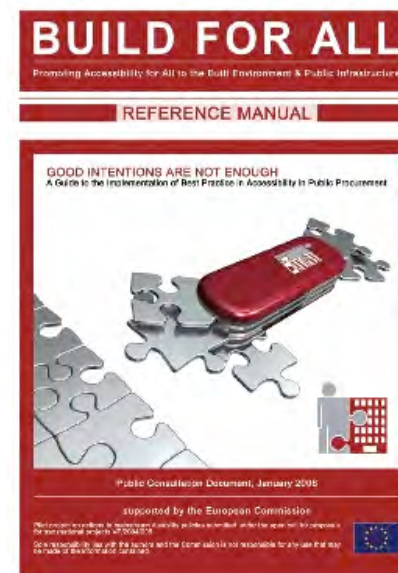


Actions of the ACE:

Involvement in Research Projects:

- A Green Vitruvius
- PISA - Integrated Photovoltaics
- Build-for-All
- Towards Class A
- E2B European Initiative

- Open House
- Common Language



Actions of the ACE:

Common Language Project:

- In Partnership with the European Concrete Platform
- Generate Generic Definitions of Terms Used in Sustainable Construction
- Launch at ESEW 2010
- Using a Wiki to Ensure Acceptability



Actions of the ACE:

Positions and Inputs:

- Energy Performance of Buildings Directive
- Energy Efficiency Action Plan: Major Energy Renovation plus Target for 2020
- ECF Statement on Eco-labelling of Buildings
- Declaration and Policy on Architecture and Sustainability



The Future:

- **Integrated, Holistic Design of our Built Environment**
- **Greater Emphasis on Existing Buildings and their Renovation**
- **Eco-Efficient Economy not Solely Based on GDP**
- **Architectural Profession and its Organisations Playing Greater Role**



