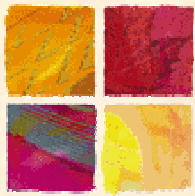


Royal Academy of Engineering  
Visiting Professors in Engineering Design  
for Sustainable Development

The IESD Experience

Greig Mill





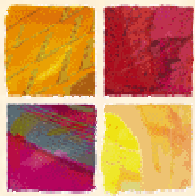
# Timescale and activities

Oct 1999 to Sept 2002

- Proposed:
  - 4 case studies, first by June 2000
- Delivering:
  - Queens Building double-length case study
  - 2 others

Oct 2002 to Sept 2004

- 2 further case studies
- ‘Added value’ and ‘disengagement’ strategy



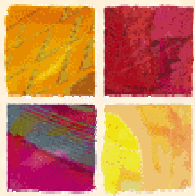
# Progress - fast and slow

## Slow:

- 6 months contractual delay
- Change of Director
- Novel medium
- Cross-disciplinary team
- Staff leave

## Fast:

- Shared vision develops
- Dedicated research assistant
- Enthusiasm grows with use



# Project output

## Queens Building

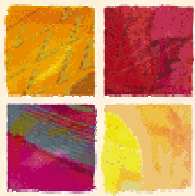
- Individual rooms
- Whole building scale

## Leicester Climate Change Strategy

- The city and beyond

## London Renewable Energy

- Urban energy ‘hinterland’ and renewable energy



# Supporting your VP

## Senior staff

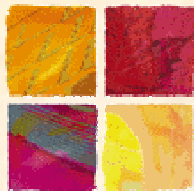
- Not 'too' senior
- Co-ordinate and enthuse

## Research assistant

- Technical skills
- Time

## Contributors and users

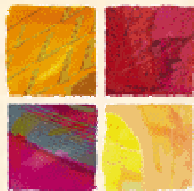
- Belief in the concept develops with use



# Case Studies in Teaching

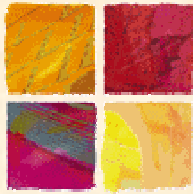
## MSc Climate Change & Sustainable Development

- 20 attending students
  - Workshops: what's good, bad, redesign, team interactions, etc.
- 30 distance students
  - Electronic discussion groups
  - Variation in learning style
- Further developments in next phase...



# The Next Phase

- Two further case studies
  - UK building regulations, EC directives
  - Urban refurbishment
- Develop CPD for wider impact
  - Funding from National Energy Foundation
- Research into learning effectiveness
  - Liaison with School of Education
- Electronic media
  - Document design philosophy and details
  - Liaison with School of Computing Sciences



# Summary

- Innovation takes time and team building
- Quality material fosters enthusiasm
- Many ‘extra’ benefits:
  - Flexible teaching tool
  - Cross-disciplinary collaboration
  - Support from users
  - Development of expertise
  - Marketing tool
- Support your VP!