

# Winchester Cathedral

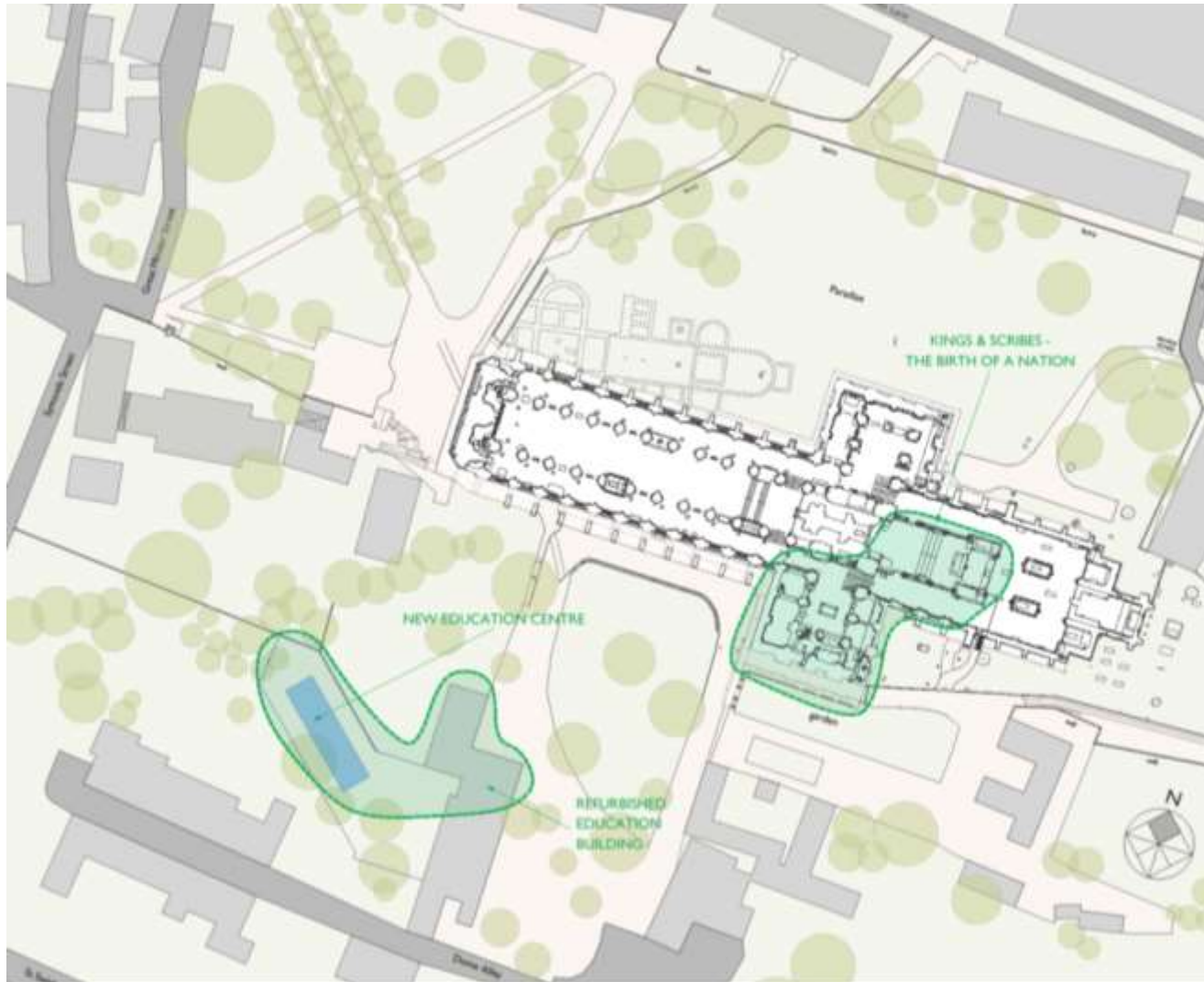
Planning, commissioning and  
using conservation consultants  
when managing major projects



# Kings and Scribes - The Birth of a Nation

Three key areas of work

- New Learning Centre
- Presbytery – conservation work
- South Transept – new exhibition



# Commissioning conservation consultants

So just how many conservation consultants do you need?

- Architect
- Archaeologist
- Structural engineer
- Timber decay specialist
- Timber construction expert
- Paint analyst
- Wall paintings specialist
- Metalwork specialist
- Stained glass conservator
- Stonework conservator
- Sub specialist analysis of materials
- Non-destructive below ground investigations
- Geotechnical analysis

# Consultants are often looking at materials and how they behave in their environment



These materials reside within the building envelope



**Which present an external face...**



**...and an internal face.**



The environment in which all these different materials sit is a key factor in understanding their behaviour.

# Three thoughts on commissioning conservation consultants

- **Brief:** The brief is critical
- **Interrelationship of Disciplines:** A need for dialogue
- **Timing:** You cannot start too soon

# **Presbytery conservation work**

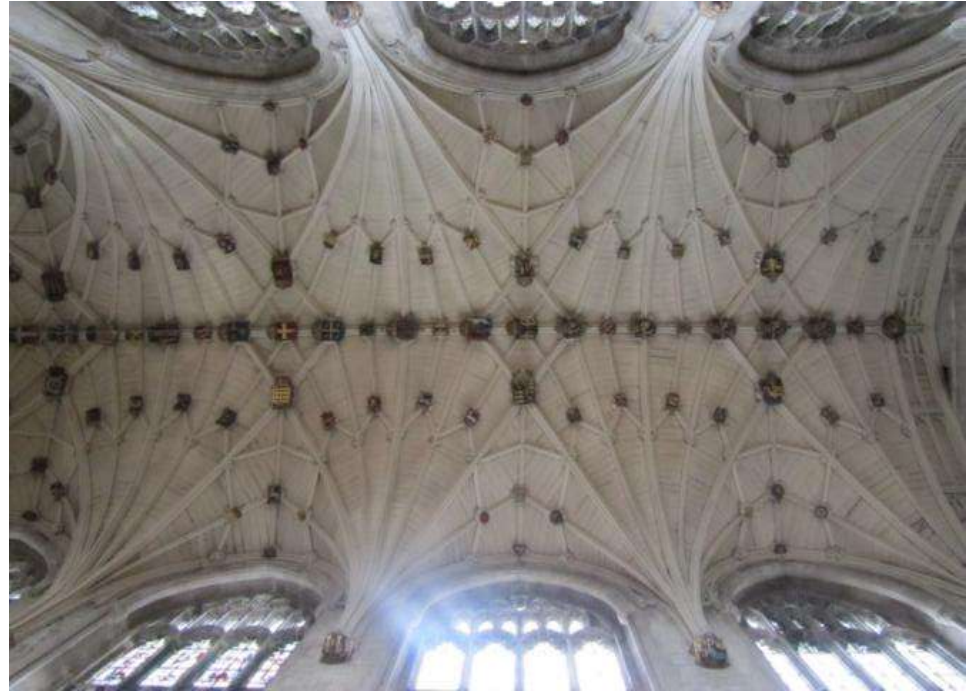
A brief case study



# Renewal of the lead roof coverings



# Repair of the timber vault



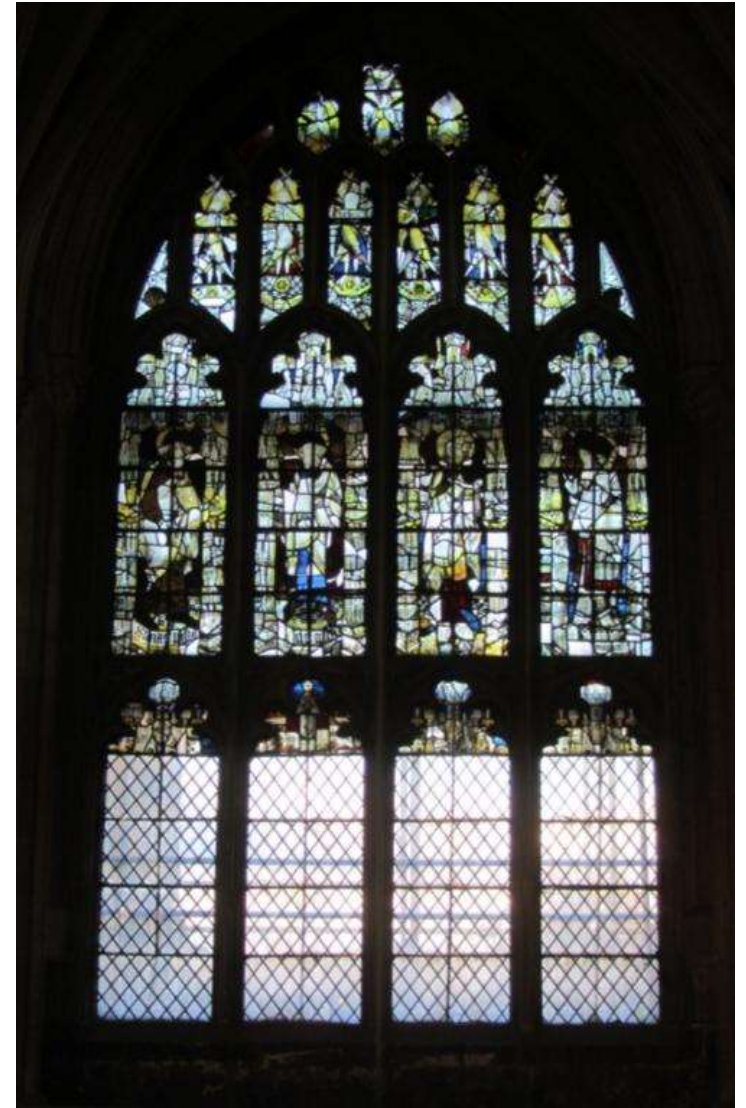


# Conservation of decorative paintwork





# Conservation of the stained glass





# Conservation of mortuary chests

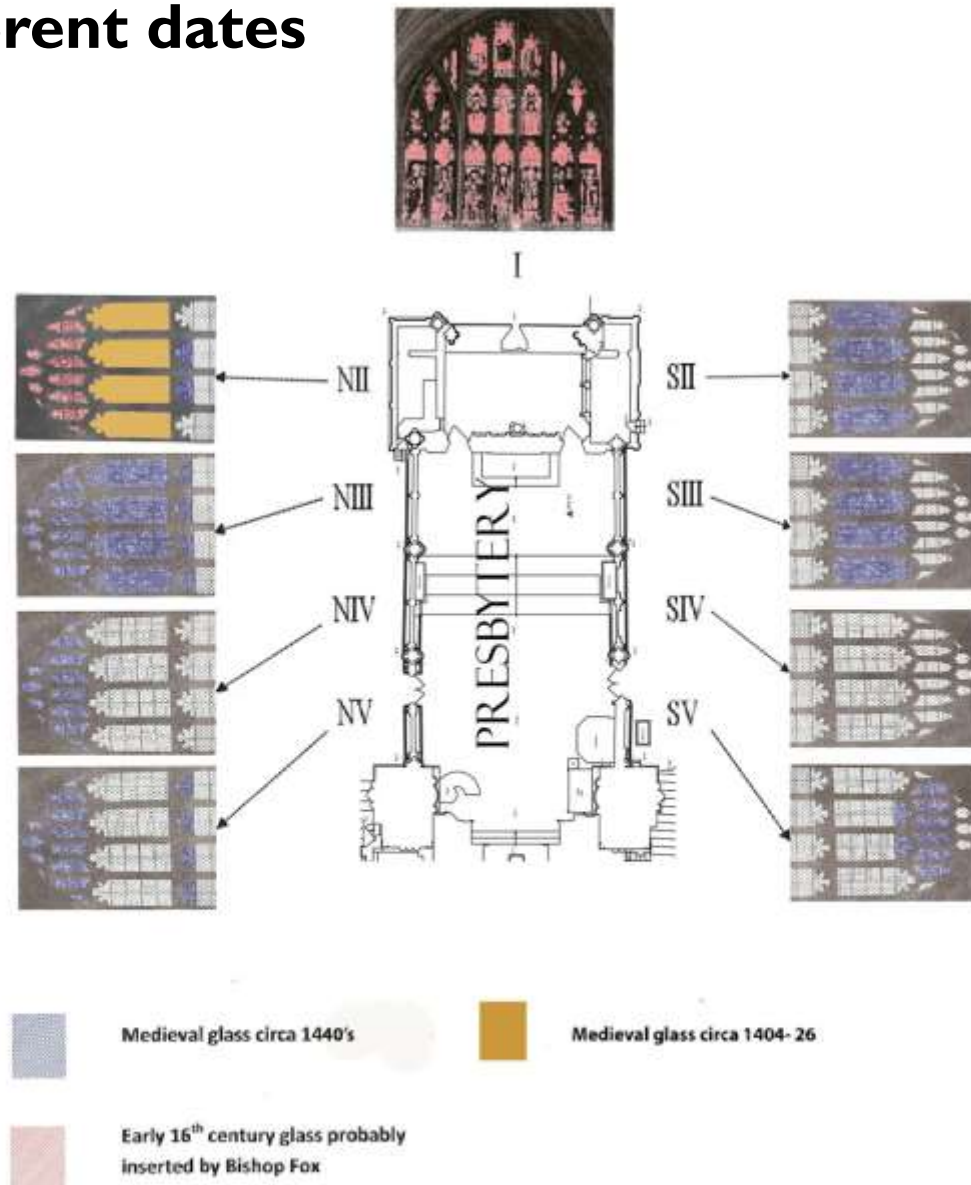


# Understanding the stained glass





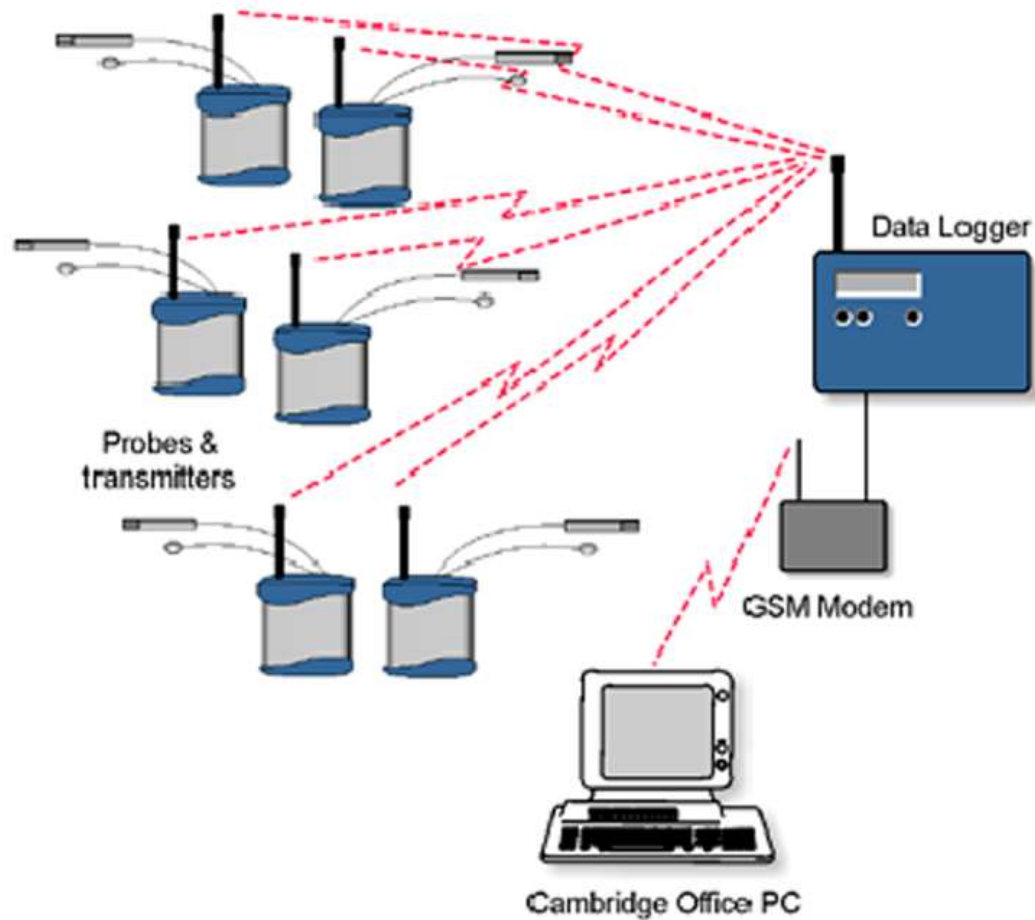
# Glass of different dates



## Winchester Cathedral, Presbytery Clerestory

Distribution of surviving medieval and late medieval glass

# Establishing a central data logger





# Establishing baseline data

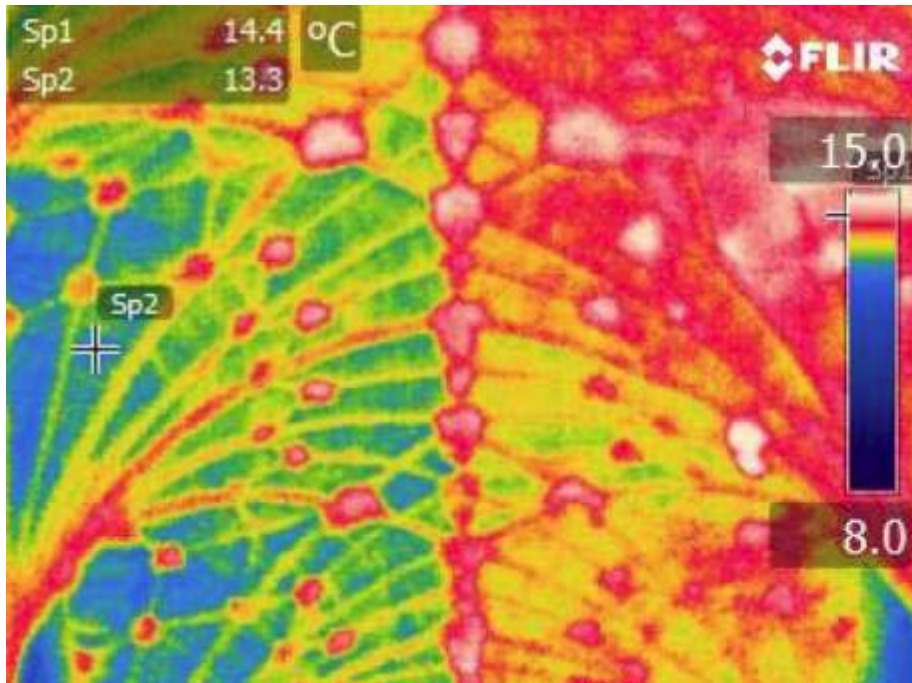


Image courtesy of Tobit Curteis Associates

# Assessing environmental impact



Image courtesy of Tobit Curteis Associates

# Understanding the micro-climate

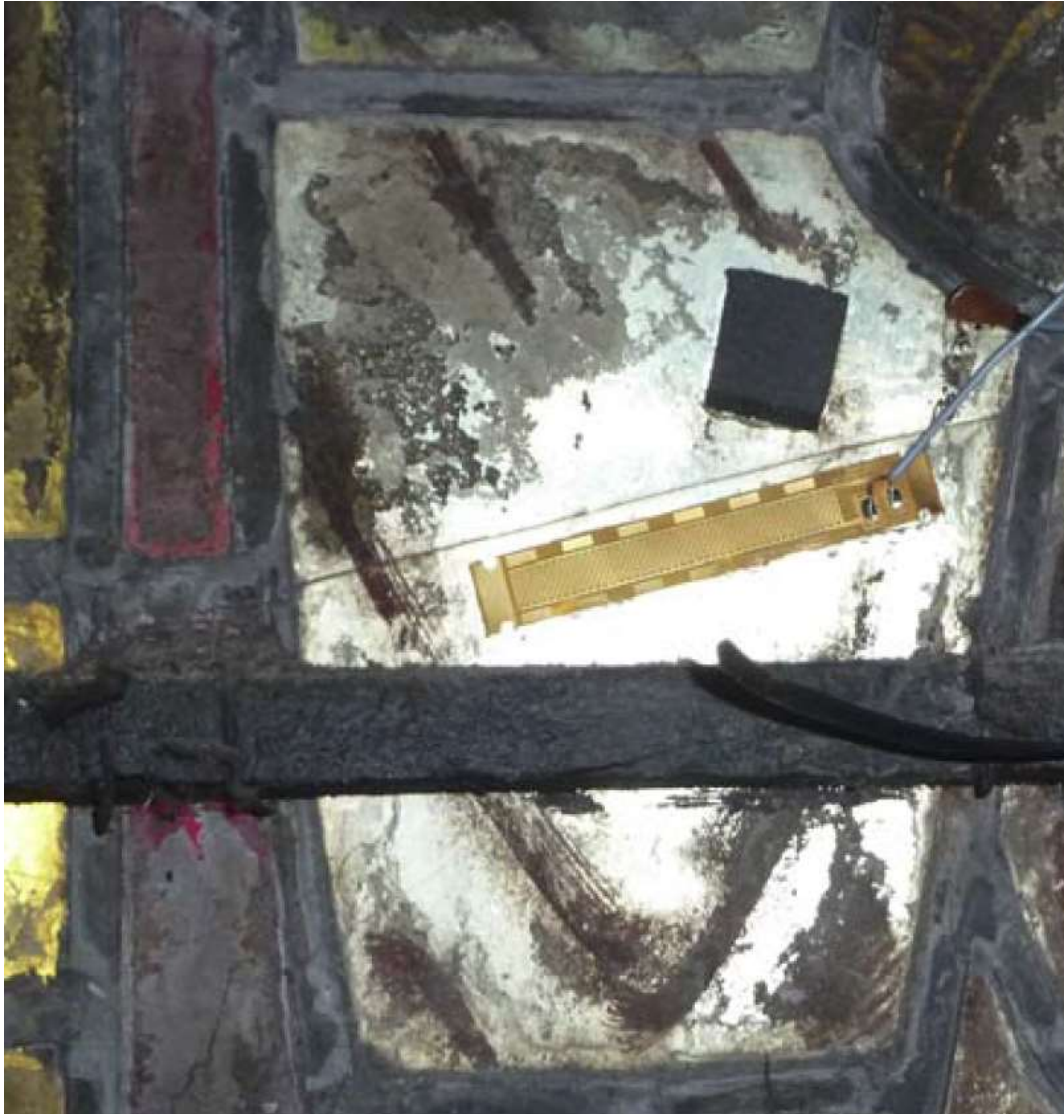


Image courtesy of Tobit Curteis Associates



# Specialist glazier condition assessment



## Winchester Cathedral Presbytery Clerestory

An investigation into the condition  
Of the stained glass with recommendations  
towards a conservation strategy.

Prepared by Stephen Clare  
Stained Glass Consultancy Limited  
July 2012

### 1. Window S11. Panel 5d internal face.

Sample 2 is same surface layer but with an internal crust on the surface of the applied layer.

Questions:

- Is the crusted surface on the internal face of the applied layer different to the base material?
  - Is it possibly due to microbial growth?
  - Is it likely that the link between any microbial growth and the applied surface layer is a factor in the loss of painted detail?
- ★ *The layer appears to be an organic pigment - probably a thin wash of oil paint. There is evidence of microbial growth at the interface between the oil paint layer and the glass surface and on the inner surface of the oil paint layer.*

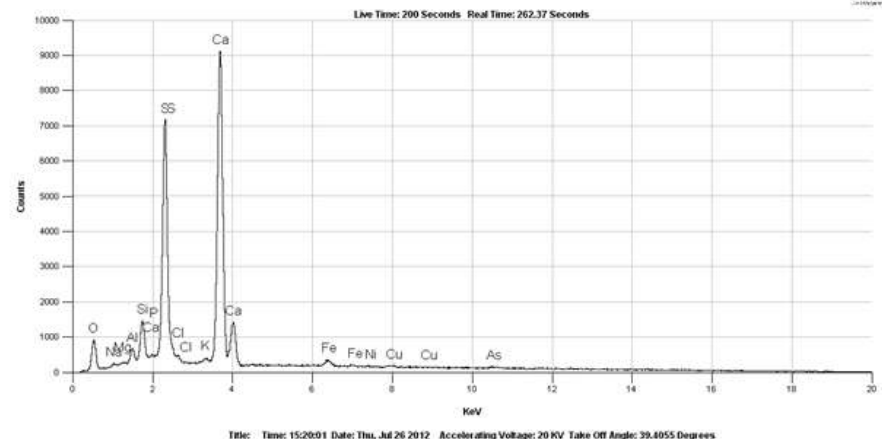


Image courtesy of Stephen Clare



## Key findings from the environmental monitoring included:

**Condensation** occurring on the glass on all elevations throughout the year being most pronounced between September and March and worst on the north windows.

Whilst the north was wetter the **number of wetting and drying cycles** was higher on the south side

The **radiators in the feretory** were having little impact at high level

The **pollutants** on the widows **interact with the condensation**, in this case not only external deposits but also internal one from previous Gurney stove heating systems

The case for protective glazing was strong



## Current state of play



South side



North side



# Design development informed by trials



The goal is to do  
the best we can  
to care for the  
glass for now...



... and in the future