

## **Staying Essential: Articulating the Value of Object Based Learning**

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UMAC ICOM Vienna, August 2007

### **Introduction**

This paper will discuss the value of university museums in teaching and research and, more specifically, the value of object handling and object based learning (OBL). At University College London (UCL) over the past five years we have been re-thinking what university museums can do and how we can make ourselves essential to our host institution. In this paper I will discuss two projects which have helped raise our profile within UCL by their cross disciplinary teaching and research nature, the core theme of which has been to understand and articulate the value of object handling and OBL.

### **UCL Museums & Collections: Object Based Learning**

UCL has three public museums: the Petrie Museum of Egyptian Archaeology, the Grant Museum of Zoology and the UCL Art Collections. It also houses over fifteen departmental collections covering anthropology (including ethnography and biological anthropology), archaeology, medicine, geology and other sciences (including medical physics, physiology and electrical engineering to name but a few). The departmental collections, although not housed in publicly accessible museums, are accessible by appointment and can be seen along with objects from UCL Museums in temporary exhibition spaces across the university. We estimate we accommodate around 800,000 objects, but as with many university museums, this figure is an estimate. We are currently in the process of undertaking a comprehensive collections review to understand the full scope and content of our museums and collections.

At UCL OBL with our collections is an integral part of undergraduate and postgraduate teaching for a large range of students including those from the Engineering Sciences (Civil Engineering), Life Sciences (Anatomy, Biology and Zoology), Maths and Physical Sciences (Earth Sciences, Chemistry, Palaeobiology) and Social and Historical Sciences (Anthropology, Archaeology, History of Art, Museums, Conservation and Heritage Studies). We have around 3000 students per year using the collections across 100 courses in the university. Collections are also used in tertiary education (university and further education) by students from outside UCL.

Objects are employed in a variety of ways to enhance and disseminate subject specific knowledge, to facilitate the acquisition of practical, observational and drawing skills and for inspiration. Objects are used both within disciplines and across, for example arts students produce installations in the Grant and Petrie Museums. In addition, each year MA Museums Studies students from UCL use the collections in teaching and research and in the development of exhibitions in UCL's temporary exhibition spaces.

At UCL Museums & Collections one of our core strategic goals is to reposition our collections to make them an essential component of university teaching and research. One of the advantages of university museums is the ability to actively research and to generate new areas of research. The projects discussed below are based around articulating the value of object handling and critically involve both teaching and research elements.

### **Touch and the Value of Object Handling**

The first project was funded by the UK's Arts and Humanities Research Council and involved the organisation of a series of workshops exploring the value and role of touch and object handling in a variety of contexts. The aims was to bring together a diverse range of experts from academic, clinical and museum environments with a view to establishing a network where information regarding the value of object handling can be shared and developed. We organised six workshops across six months in 2006-7 which looked at:

- The history of touch
- New technologies for exploring object interpretation
- Touch, memory and reminiscence
- Therapeutic approaches to touch
- Knowledge transfer in object handling, particularly for disadvantages or underrepresented groups such as diaspora.

Contributors gave both theory based and experiential talks. The history of touch and the science behind touch, including the psychological and neurological basis of touch, was explored by both museum professionals and academics. There were many examples of case studies, such as the development and success of a 1940's Nostalgia Room at London's Newham University Hospital. This room was created to replicate as closely as possible a living room from 1940's Britain. It contains furniture and objects either loaned from museums, private individuals or purchased. The room was geared towards elderly patients in the hospital as a place where they were invited to explore the contents of the room and reminisce. This interaction evokes deep emotional responses in the patients who use the room. We heard of one female patient with Alzheimer's disease who had not spoken a coherent sentence for five years. On engaging with objects in the room and on hearing the piano the patient gave a word perfect rendition of a popular

wartime song. Her family and doctor who had accompanied her to the room were overwhelmed and thrilled at the response this interaction elicited and the example demonstrates the power and potential value of collection's interactions. This is just one of the many examples and case studies we heard about the value of object handling. The project culminated in a final workshop seeking to bring together the various themes and our experiences are currently being written up as a book to be published in January 2008.

For further information go to:

[http://www.ucl.ac.uk/museums/learning/touch\\_research](http://www.ucl.ac.uk/museums/learning/touch_research)

### **Museum Loan Boxes as an Enrichment Activity in Hospitals: a research project undertaken by medical students at UCL**

The second project involved research undertaken by medical students as part of their Special Study Module (SSM) and investigated the therapeutic or enrichment potential of taking museum loan boxes to patients' bedsides.

SSM's are defined by the UK's General Medical Council as:

*"...that part of the course which goes beyond the limits of the core, that allows students to study in depth in areas of particular interest to them, that provides them with insights into scientific method and the discipline of research and that engenders an approach to medicine that is constantly questioning and self-critical".*

SSM's are a compulsory component in the first and second year of a medical degree and students are free to select a research project of their choosing from across the biomedical sciences.

One of the key reasons UCL Museums & Collections embarked on this initiative and developed an SSM research project was to involve museum objects in teaching and research in an innovative way to demonstrate the unique, interdisciplinary, role collections can play in university life. Importantly the project sought to provide medical students with patient communication skills, methods of assessing wellbeing and research techniques. The core research aim to be investigated by the medical students was to evaluate the potential of object handling as a novel enrichment activity in hospitals. In doing this research the initiative also provided patients at University College London Hospital with a novel engagement activity and widened access to UCL Museums & Collections to a previously excluded audience.

The clinical basis for this project lies in the fundamental idea that improving the quality of the hospital environment and enriching patient's lives whilst in hospital

can have a positive effect for patients and staff. This was perhaps first noticed by Florence Nightingale in the 1860's who noted that:

*“The effect in sickness of beautiful objects, and especially of brilliancy of colour is hardly at all appreciated [by the authorities]...[The] variety of form and brilliance of colour in the objects presented to patients are actual means of recovery.”*

Some of the first clinical evidence came from Roger Ulrich in 1984 who showed that patients with a view trees had a reduced length of stay in hospital compared to those with a view of a brick wall. Since then further clinical evidence has shown that arts in health has several positive therapeutic and medical outcomes for patients including:

- Reduction of stress
- Reduction of depression and anxiety
- Reduced blood pressure
- Reduced pain intensity
- Reduced need for medication
- Improved mental health
- Reduced length of stay

Further, there are positive effects for staff and benefits in the education and training of medical practitioners including:

- Improved morale and job satisfaction
- Improvement in job retention
- Increased communication and awareness between patients and staff
- Reduced stress levels
- Increased observational skills

A discussion of the role of arts in health can be found in Dolev *et al.* (2001) and Staricoff (2006).

Today arts programmes, including artist residencies, music therapy and dog patting, are becoming an integral part of life in many hospitals.

The aim of this research was to establish if museum collections and object handling could play a beneficial role for hospital patients, staff and students. We recruited five second year SSM medical students who took loan boxes comprising objects from across UCL museums and collections (including artworks, archaeological artefacts and natural history specimens) to patients bedsides during the winter and spring terms of 2006-7. Prior to data collection students were given training in object handling, infection control, patient communication skills and data handling and analysis.

With training complete the students began a series of visits to patient's bedsides at UCL Hospital in November 2006. The students began their sessions by asking several quantitative questions whereby patients completed a mood adjective checklist and two wellbeing scales. The former presented a series of moods (e.g. sluggish, nervous, vigorous, lively) with options to grade these emotions, from 'not at all' to 'extremely'. The wellbeing scales comprised linear metric scales with grades from 0 (e.g. worst imaginable health state and extremely dissatisfied with life) to 100 (e.g. best imaginable health state and extremely satisfied with life). Patients were required to grade their mood, their perception of their overall health status and provide an overall life satisfaction score at the start and end of each handling sessions.

The handling session comprised the student asking the patient to choose an object and then a series of questions were posed, such as:

- Why have you chosen that object?
- What do you think this object is?
- What does the object feel like?
- Can you think of any experience that might relate to this object?
- Where do you think it comes from?
- What material do you think it is made out of?

Sessions were recorded using digital audio recorders and at the end of the data collection period (March 2007) the students analysed the data using quantitative statistics and qualitative mind mapping techniques to interpret the data and establish trends.

## **Outcomes**

Quantitative analyses indicated an increase in overall wellbeing and patient's perception of their health status at the end of the session. Qualitative analyses revealed patients felt positive about the role of object handling sessions as a distraction from everyday ward life and had a positive impact on relationships amongst staff and patients. As pilot research these outcomes are very informative and we are using these methods in parallel projects across the hospital to extend and continue this research.

A critical factor in the success of this project was engaging key people from the hospital, including clinical staff. The project was co-run by the Arts Curator at UCL Hospital and his contribution was crucial in engaging doctors, nurses and support staff to help with training and the logistics of gaining access to patients. We also had to obtain Research Ethics Committee approval prior to the start of the project.

The initiative demonstrates the value for medical student training in providing first hand experience of patient contact in a context outside their clinical care. This provided the student's with a different perspective of patient care and gave an insight into patient's emotions whilst in hospital.

Critically the project has significantly raised the profile of UCL Museums & Collections within UCL, demonstrating our value as a core resource in teaching and research. The teaching and research elements of the project exemplify that collections can be useful tools for inspiring cross disciplinary study, providing a novel research area for a new body of students using the collections.

### **Future Directions**

In the future we will continue to raise the profile of UCL's Museums & Collections by promoting the valuable role university museums can play in achieving the strategic goals of Universities, particularly with regard to teaching and research. Further initiatives are planned for wider involvement of the collections in cross disciplinary undergraduate and postgraduate teaching and the Museum Loan Box SSM will continue to be run for medical students. Finally, we are continuing our research into the role and value of object handling for: knowledge transfer and learning, skills acquisition, wellbeing, emotions and enjoyment.

For further information about these projects please contact:

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### **Bibliography**

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