Credit crunch conservators
Conservators without Borders achieve a lot with a little in Peru, Jordan and Greece – pages 4 and 5

Czech wall paintings
Martin Martan and Roman Ševčík on a major project in the Czech Republic – see page 6

IIC Call for Papers
Details of submissions for the IIC 2010 Congress in Istanbul announced - see page 7

No. 10, February 2009

News in Conservation
The newspaper of the International Institute for Conservation of Historic and Artistic Works

New research on Sweden’s Vasa
A new project aimed at understanding and tackling the deterioration of the wooden structure of Sweden’s 17th century warship Vasa has begun. Called “A future for Vasa”, the 18 million kronor (£1.5 million, $2.27 million) research is to safeguard the long-term future of the ship. The new research will be keenly followed worldwide by those involved in the conservation of marine archaeological material.

The Vasa sank on her maiden voyage in 1628, lying for over 300 years beneath Stockholm’s harbour. She was raised in the early 1960s and open to permanent public display in 1990 after 30 years of conservation, drying, reassembly and restoration.

The project is a follow up to “Preserve the Vasa” which ran from 2003–2006. “Preserve the Vasa” specifically tackled problems associated with the iron and sulphur compounds in the wood, its microbial status, and the eventual formation of sulphuric acid in the hull and related wooden artefacts. “Preserve the Vasa” also prompted questions which have informed the framework of “A future for Vasa”. The new research will be conducted over three-years in cooperation with organisations such as the Swedish University of Agricultural Sciences, the Swedish Pulp and Paper Research Institute STFI, the Royal Institute of Technology and the National Museum of Denmark.

“The Vasa timbers contain a cocktail of chemicals,” according to Professor Lars I. Elding, scientific co-ordinator of the project, “Sulphur in different chemical forms accumulated in the wood during the 333 years on the seabed, iron bolts and cannon balls rusted, and the iron compounds were distributed over the entire hull during the 17 years of conservation spray treatment.”

During the course of this treatment, about 50 tonnes of polyethylene glycol – the conservation agent – were taken up by the timbers, and micro-organisms in the anaerobic bottom sediments transformed sulphur compounds and consumed much of the cellulose in the oak. After salvage, the exposure to atmospheric oxygen started a multitude of chemical processes that may, in the long-term, alter the timbers and conservation agent. The nature, extent and rates of these processes are key issues for the present project, as well as their influence on the mechanical properties of the timbers. The hull weighs almost 1000 tonnes and its support structure has to be designed taking the long-term changes of the timbers into consideration.

Some twelve researchers plus the staff of the Vasa museum will be involved in the initial period of this project. The researchers will look more closely at Vasa’s wood, will try to measure how quickly the wood is deteriorating and investigate the amount and types of strain that it can tolerate. The project will also test new methods for analysis of wood and degradation products, metering gas diffusion, and monitoring oxygen consumption. Tests of mechanical properties will be closely integrated into the chemical investigations.

In the time scale of a few years, Vasa’s condition is stable. A recently installed system controls relative humidity in the museum: transport of chemicals in the timbers and salt outbreaks at the surfaces due to RH variations have ceased. “At some point, Vasa will deteriorate, but we don’t know how quickly this process is taking place. Our job is to make sure that it goes as slowly as possible,” says Magnus Olofsson, Head of the Vasa Unit.

Led by a team from the Swedish National Maritime Museums, the research is a cooperative effort between several institutions and is funded by the Swedish National Maritime Museums, the Swedish Research Council FORMAS, the Swedish Foundation for Strategic Research (SSF), the Swedish Research Council (Vetenskapsrådet, VR) and the Swedish Governmental Agency for Innovation Systems (VINNOVA).

For more information see: http://www.vasamuseet.se/~/media/PDFER/Vasa/Bevara_Vasa_rapport.ashx

Construction of Ilisu dam on hold
A consortium of European insurance companies has halted the construction of the proposed £1.2 billion Ilisu dam in the south of Turkey by stopping their financial backing. The dam on the river Tigris, close to the borders of Iraq and Syria and due to be completed in 2013, has courted international controversy due to its potential environmental and social impact, as well as its effect on numerous archaeological sites, many of which are unrecorded. The dam was set to submerge numerous settlements, destroy habitats and displace between 50-80,000 people. If it had gone ahead as proposed, it would also have drowned the ancient town of Hasankeyf and hundreds of other important archaeological sites.

Hasankeyf has a human history stretching back thousands of years and many cultures have left their mark on the town, from the Byzantine fort above the Tigris to the 12th century Artukid bridge across it. Some of Hasankeyf’s ancient rock-cut dwellings are still inhabited and other sites of importance include a number of medieval mosques and the mausoleum of Zeynal Bey. Uncertainty over the future of Hasankeyf inhibits the development of tourism in the area and the town’s population has dwindled over the past few years. Hasankeyf was put on the World Monuments Fund watch list of the 100 most endangered sites in 2008.

The Swiss, German and Austrian firms funding the project concluded that the dam failed to meet necessary standards on the environment, heritage, neighbouring states and the relocation of people in flooded areas. Half a billion euros of financial support has been withheld unless the Turkish government meets 150 World Bank conditions relating to these standards within 180 days of the 23rd December 2008.

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Editorial

A very happy new year to you all! It has been a busy start to the year here at IIC with the AGM at the end of January (there will be more about that in the next issue). As you can see from the IIC News section on page 7, the call for papers for the 2010 IIC Congress in Istanbul is now open. IIC looks forward to your submissions on the topic of Conservation and the Eastern Mediterranean. We are also looking at the options available for a venue in 2012, so please be in touch with your ideas and suggestions about that too.

This issue there is a remarkable story from Dominica D’Arcangelo, Melina Smirniou and Christie Pohl who started the volunteer organisation Conservatori without Borders in 2006. Staffed by volunteer conservators and working on a very tight budget, the organisation offers archaeological conservation assistance all over the world where resources are scarce: Here they describe their successful first ventures in Greece, Peru and Jordan. On page 6, Martin Martan and Roman Ševčík talk about their conservation of wall paintings in a chapel in theGrabštejn Castle, Czech Republic. It was previous restorations that proved the biggest challenge to their work on the 16th century paintings there. They had to tackle damage done by an unsuitable surface consolidant, overzealous over painting, and poorly applied cement repairs.

The call for papers for the 2010 IIC Congress in Istanbul is now open. IIC looks forward to your submissions on the topic of Conservation and the Eastern Mediterranean.

Also this issue, Hans-Christoph von Imhoff has some interesting thoughts on future collaboration between IIC and the other major heritage conservation organisations ICOMOS and ICOM-CC (page 3). He is particularly excited about the other major heritage conservation organisations ICOMOS and ICOMOS.

Lucy Wrapspon
Editor

News in brief...

Extra funds for French museums and heritage sector

French President Nicholas Sarkozy has pledged an additional €100 million ($131.3 million, £90 million) a year to national heritage, including conservation. The money will be used to make entrance fees to all national museums, including the Louvre, free to the under 25s beginning from 4th April. The conservation sector is specifically promised a boost with money being directed towards the restoration of cathedrals, abbeys and museums.

Boost for England’s historic places of worship

English Heritage (EH) has launched a £1.5 million scheme to support historic places of worship. EH funds will provide 50% of the costs over three years for the appointment of Heritage Officers to support Historic England. The call for papers for the 2010 IIC Congress in Istanbul is now open. IIC looks forward to your submissions on the topic of Conservation and the Eastern Mediterranean.

Members’ news

Terahertz radiation is a form of microwave radiation. Terahertz (THz) rays can penetrate opaque materials and analyze multi-layer objects. The technique’s time-domain spectroscopy and tomography have been used for medical imaging and THz has been used in surveillance, such as security screening for concealed weapons. THz rays can also perform non-destructive cross-section observations in artworks.

The National Institute of Information and Communications Technology (Tokyo, Japan) and Istituto di Fisica Applicata ‘Nero Carrara’ (Florence, Italy) have applied THz imaging to the analysis of Giotto’s Badia polyptych (c. 1300). This is a key work from the early Renaissance and is currently undergoing conservation by Stefano Scarpelli in the Uffizi Gallery, Florence. THz imaging was done with the Picosrtect T-ray(TM) 4000. This equipment includes a fibre coupled transmitter and receiver that can be used to collect either transmission or reflection images by scanning over the object’s surface. The frequency range used in this work was from around 0.5 to 1.2 THz, taking approximately 10 minutes scanning time, at a distance of approximately 20mm, to observe a 150mm square area at required resolution. The strength of reflection is displayed as grey scale, highest as white and the lowest as black in the illustration.

The non-destructive cross section image shown in the figure was obtained along the line labelled (b). The layered structure of the painting can be clearly seen, with an example of the waveform shown as a red line on the figure. In the case of 14th century polyptychs, a glue layer was made on a base of wood, a cloth was placed on this, and gypsum layers were then applied as preparation for painting. Sometimes gesso was also used beneath the cloth to smooth the wooden surface. The non-destructive cross section image by THz imaging matches this structure. The wood has an uneven surface because it was carved from a thicker board to make the panel and its integral frame. The lowest gypsum layer has been used to even up the carved wood base.

The information obtained using THz imaging could not be gained through normal methods without having to destroy a small area of the painting. Time domain tomography can easily obtain a map of the layer of interest and construct a 3D model of its internal structure. In the first image (a), the amplitude of the reflection from the upper surface was used to provide information about the pigments and gold leaf. In the second figure (c), we focused the analysis variously on, the base wood layer, the cloth, and the surface pigment in the area. The image of the wood shows the contours of tool marks. The middle layer, analysed at higher resolution, shows the rough surface of the cloth layer. The third image of the pigment shows traces of load white that give a higher reflection on the surface of the paint. These experimental results indicate that THz rays can reveal the internal structure clearly, as well as the condition of gold and pigments on the surface, non-destructively and quickly. Results of this and other analyses will be available in the near future.

Many thanks to the Uffizi Gallery for access to the Badia polyptych and use of images.

Kaori Fukunaga

© Conservation Society of University of Applied Arts Vienna

The paintings were examined and their condition was registered in a database.

Andy Burnham, UK Secretary of State for Culture, Media and Sport who launched the scheme said: “I have always believed that our historic places of worship are unique in what they offer, representing at the same time the finest of the country’s built heritage, and the heritage of ordinary people in every community.”

“This excellent scheme is about helping these landmarks to survive, using expertise where it is needed among those that care for these buildings. I am confident that we will see real benefits with congregations better able to look after these buildings, ensuring they are better equipped to meet future challenges, and able to fulfil their potential within local communities.”

Organisers are encouraging potential new officers to contact them. To find out more see: http://www/english- heritag.org.uk/inpsired/server/show/nav.19414

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Conservator, Hans-Christoph von Imhoff, talks about the big three, ICOM-CC, ICOMOS and IIC, giving his thoughts on their potential for collaboration

Yes, we can!

2008 was the year of the great conservation conventions of the three big international conservation organisations. The biohyster cycles of these big players intersected with each other in September 2008; each one of them held its bi- or triennial Congress; in week N°38 it was IIC in London, in week N°39 ICOM-CC (International Council of Museums, Committee for Conservation) in New Delhi and in week N°40 ICOMOS (International Council of Monuments and Sites) in Quebec City. The congress themes were IIC: Conservation and Access; ICOM-CC: Diversity In Heritage Conservation - Tradition, Innovation, and Participation; and ICOMOS: Finding the Spirit of Place.

Conservation Leap Years

This year’s near simultaneity of conservation congresses repeats itself every six years; next in 2014, then 2020. I propose to call these years Conservation Leap Years (CLY). Up to now only ICOM-CC and IIC have made use of this coincidence to fix their congress dates and venues so that they would happen in consecutive weeks in locations not more than a day’s travel apart. This has allowed participants from far away to attend both conferences. In 2008, like before, a number of participants travelled to attend both conferences. There is a great potential for collaboration in these years – it could even lead to the co-organisation of a common congress in 2014, the hallmark of the next CLY. At this point it might be helpful to give a short description of the functioning of the three organisations.

IIC

This is an international association of individuals; an NGO which also has institutional members. Membership is not limited to conservation professionals but open to all. Members of IIC may also apply for Fellowship status and their applications are screened by IIC’s Council and then put to a ballot of the existing Fellowship. The Council is elected by the entire membership and there is a Secretary General and an Executive Secretary. There are also the Regional Groups, consisting of representatives of all National IIC associations and a developing Student Group as well. IIC holds a Congress every even year, with an overall theme and approximately 45 contributions. These are presented consecutively over 4 days, all in one venue, and published in the superb IIC preprints. IIC also publishes the leading conservation journals Studies in Conservation, Reviews in Conservation and, of course, News in Conservation. IIC recently launched a series of roundtable discussions, Dialogues for the New Century, the first of which focussed on conservation and climate change.

ICOM and ICOMOS

These NGOs are very similar to each other as both were founded by UNESCO, one to bring together people who work in museums and movable heritage, and the other people who work on sites and in built heritage. Both are based on membership of individuals, but both also offer institutional membership. They have a nearly identical organisational structure: an elected Executive Council with a President, a Secretary General as well as permanent National Committees, and subject orientated International Committees (ICs). The chairs of all the national and international committees constitute the respective advisory councils, the ‘parliament’ of the organisations. The difference between ICOM-CC and ICOMOS is that ICOMOS is one of the ICs of ICOM and has in itself 22 working groups often with large memberships. This means that the working groups’ coordinators are not part of the ICOM advisory council, only the Chair of the Conservation Committee is – a difference in administrative hierarchy.

Common ground and points of contact

Why is this of particular interest? ICOMOS has 28 ICs and of these, 12 have the same or a very similar name to 12 of the working groups of ICOMOS (Stone, Documentation etc.). Each of these ICs’ working groups is only as outgoing as its respective chair (at ICOMOS) or coordinator (at ICOM-CC). ICOM-CC has few problems in this regard, while ICOMOS’ ICs seem to suffer considerably from inefficiency, as expressed in the report of the outgoing ICOMOS president, Michael Peterz. He proposes that the ICOMOS IC “Conservation-Restoration of Heritage Objects in Monuments and Sites” (ISCR) “should operate as a kind of partner of the very strong ICOM-CC with its 22 working groups.”

In my opinion, rather than ICOMOS-ISCOR operating as a partner to ICOM-CC, it would be preferable for the ICOMOS Scientific Council, which governs all ICOMOS-ICs, to be regarded as the “complementing” partner of ICOM-CC, as there are at least twelve points of contact (ICs) to stimulate collaboration.

The cause of ICOMOS IC problems seems an obvious one – committees have just one day to meet and do not present their results at the plenary. At times 10 committees deliver in parallel in advance of the “General Assembly and Scientific Congress”, the core of this huge event (>800 delegates attend). Contrary to the rather low profile of ICOMOS’ ICs, the ICOM-CC working groups are the centre of the ICOM-CC triennial event. Their core activity at the congress is the presentation of their efforts over the previous three years. Five parallel presentations are held over three days, and the summptuous triennial preprints with approximately 150 papers and abstracts of 40 posters, are the reward. It is to be noted that after rigorous selection and peer review, only about a third to half of the submissions to IIC and ICOM-CC are accepted for presentation and publication, ensuring a high standard.

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ICOMOS, parallel to its IC’s activity and like IIC, chooses a specific theme for its three day Scientific Symposium. During the preparation period between their bi-annual GA-Symposia, all aspects of the general theme are analysed and each one worked on by specific interest groups. This time there were 18 groups working on The Spirit of Place, each presenting between 4 and 12 papers. Altogether there were 117 related contributions, but no pre- or postprints. As I understand, these groups might try to produce postprints individually at a later stage using their own financial resources, but their success is not guaranteed.

Since its 1999 conference in Lyon, ICOM-CC also chooses a theme, but it is not at the core of the meeting. The theme is mentioned in the chair’s foreword in the preprints and the call for papers suggests considering it when proposing a paper. It really comes into its own, however during the mid-week afternoon plenary session at the triennial conference, where it is discussed and analysed in presentations and papers.

The synergetic potential

All three NGOs work intensely between their congresses to prepare their future ones; some of their ICs or working groups also have interim meetings. In view of the next CLY, IIC and ICOMOS could use this period to discuss and, consulting with ICOM-CC, choose a common conference theme, work at it and then present its results. This could be done in parallel groups over two and a half days as it is done now, but with both organisations working and presenting together, with a half day plenary presentation of the results.

ICOM-CC and ICOMOS could get their ICs and working groups with common activities and interests to work together. They could plan a common call for papers then present their combined selection over another two and a half days, with a half day for their presentation at a plenary session. Together this makes for five days of intense and parallel presentations of research papers, and a day of plenary discussions.

The CLY event

Such an event could be expected to attract 1000 or more participants who might accumulate some 500 or more papers; occasion to produce quite extraordinary preprints. In the days before or after the triple congress the organisations may wish to arrange common excursions to sites, museums, and conservation facilities, but also for each to hold individual plenary session(s) and General Assemblies. This event would not only provide a much needed opportunity for conservators, but also to all other partners in preservation. It would cover not only practical topics and problems, but also historical, theoretical, ethical and other issues. This is much needed as the three organisations know relatively little about each other's activities, so are some way off proper mutual understanding. Where we should be heading? At the moment we don't really know where we are, or how to get there. This must be put to a debate so that we can brainstorm and discuss our common and mutual aims constructively. And there is certainly space for another edition of IIC’s Dialogues for the New Century.

Can we do it?

In order to embark on this course, a lot of energy, engagement and work is needed on all levels, in all three organisations. Do we want a CLY 2014 common conference of all three institutions? Do we want to invest in such a broad collaboration? Can we achieve that? I say yes we can. Let’s go!

Author Biography

Hans-Christoph von Imhoff is a paintings conservator, lecturer and writer in history, theory and practice of conservation. Based in Switzerland, he is a member of ICOM-CC and a member of the Council of IIC. These are his personal views and do not necessarily reflect the view of Council or members.

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Archaeological conservators know that they can achieve a lot through creative use of minimal resources. Dominica D’Arcangelo, Melina Smirniou and Christie Pohl show how Conservators without Borders, an international volunteer organisation, has used conservation expertise to demonstrate to stakeholders in Greece, Jordan and Peru how they can look after their artefacts without it costing the earth.

Conservation Thrift
Achieving a Lot with a Little

In two years, with an overall budget of just £12,570, Conservators without Borders (CWB), has initiated five unique projects in Greece, Jordan and Peru. Since its birth, the organisation has successfully laid solid foundations for the improved protection of archaeological artefacts by heightening awareness about conservation and promoting the principles of preventive care. In the current economic climate, CWB demonstrates that big changes can result from strategic, well managed conservation input.

As post-graduate conservation students at UCL’s Institute of Archaeology in 2006, Melina Smirniou, Christie Pohl and Dominica D’Arcangelo together identified a need for increased conservation participation on archaeological sites. Devising an international volunteer initiative called Conservators without Borders (CWB), the founding members looked at how conservators could become more actively involved in archaeological projects through improved communication with archaeologists, specialists and heritage professionals.

They also designed outreach and training programmes to aid information exchange on-site. The ultimate aims were to build sustainable preventive conservation programmes and empower local stakeholders, giving them the confidence to make decisions regarding their tangible heritage.

A grant was awarded to CWB by UCL Futures in the spring of 2007. This timely award allowed CWB to run a two-year pilot programme from 2007–2008 which provided the opportunity to put the theory into practice. The team lost no time looking for archaeological sites to fit their mission: To provide field conservation support to archaeological sites where insufficient funding and expertise does not allow for any on-site conservation activity. Priority is given to sites where finds are in need of special or urgent conservation attention and where there is a keen interest in artefacts’ preservation.

CWB’s first project took place on the Greek island of Kythera hosted by the Kythera Island Project (KIP) and co-directed by Cyprian Broodbank and Evangelia Kiriati. CWB travelled to Kythera in summer 2007 and again to complete the project in 2008. Co-director Melina Smirniou describes the background to the project, “The archaeological material in need was excavated in the 1960’s by the British School at Athens and stored at the Kythera Archaeological Museum in Athens and stored at the Kythera Archaeological Museum in Athens and stored at the Kythera Archaeological Museum in Athens and stored at the Kythera Archaeological Museum in Athens and stored at the Kythera Archaeological Museum in Athens and stored at the Kythera Archaeological Museum in Athens and stored at the Kythera Archaeological Museum in Athens and stored at the Kythera Archaeological Museum in Athens and stored at the Kythera Archaeological Museum in Athens and stored at the Kythera Archaeological Museum in Athens and stored at the Kythera Archaeological Museum in Athens and stored at the Kythera Archaeological Museum. The conservation team also collaborated with researchers, exposing researchers, archaeologists and specialists to real-world situations.”

Following initial contact and subsequent conversations with the Jordanian Department of Antiquities (DoA), a project plan soon took shape to work in Jordan in autumn 2007. The proposal was for CWB to treat post-excavated material in storage. This would involve objects from all over the country including the National Archaeological Museum in Amman, Umm Qais Archaeological Museum, Dar Assaraya Museum in Irbid, Jarash Archaeological Museum, Karak Archaeological Museum and Petra Archaeological Museum.

This was an ambitious aim for the team, but the success of three weeks’ work in 2007 led to an invitation to revisit the country in 2008. Over the two years CWB carried out collection-based work and multiple training sessions. They worked with local museum employees and archaeologists on both preventive and practical conservation techniques, visited several museums and storage facilities and also gave public lectures and practical demonstrations at the DoA Headquarters in Amman.

With limited resources, Conservators without Borders aims to make a lasting impact in a short period of time

Generally, CWB’s practical work consists of first aid conservation on newly excavated or unstable objects and helping to improve artefacts’ packaging in storage. With limited resources, CWB aims to make a lasting impact in a short period of time by restricting complex remedial conservation treatments to the most urgent cases. In Jordan, CWB discovered a broad need for individual object rehousing and repacking the pottery from Early Bronze Age tombs.

The two teams worked in the same room together, allowing them both to benefit from close interdisciplinary collaboration, and the archaeologists to extend their understanding of conservation processes. Cyprian Broodbank commented that, “Such collaboration should be intrinsic to the research design of any field project.”

The conservation team also collaborated with researchers who visit the site every summer to study its artefacts. New packaging was tested to ensure the collection was easily accessible with minimal handling. The changes were enthusiastically received by the visiting researchers. By exposing researchers, archaeologists and specialists to preventive measures, CWB managed to raise the conservation awareness of the collection’s stakeholders.

Based on their advance knowledge of the situation, CWB bought and travelled with the necessary tools and coordinated the purchase of packaging supplies. In total, 751 finds were stabilised and re-housed as a result.

CWB impressed their first hosts with their on-site achievements. Broodbank said of the experience, “I was impressed with the expert, informed yet pragmatic approach to real-world situations.”

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treatments in the collections, but the policy remained to communicate knowledge to local museums that will help build long-term preventive programmes.

CWB impressed workshop participants by demonstrating how much conservation can be done with basic and simple tools. Dependent on securing further funding, CWB and the DoA have identified the potential for future project work. A CWB team worked on two separate sites in Peru for 3 weeks in 2008, to maximise efficiency and impact. One project was based at San José de Moro, a Moche period funerary complex in collaboration with Project Director Luis Jaime Castillo. Another took place at Magdalena de Cao, a colonial period site which abuts the El Brujo Archaeological Complex. There the team worked with Principal Investigator Jeffrey Quilter to conserve paper, textiles and metal finds excavated from the site's church and town.

The work at San José de Moro involved the conservation and restoration of unfired clay house models, maquetas, found in tombs during the 2007 excavation season. Christie Pohl comments, “The conservation of the maquetas was very challenging but it gave our team an opportunity to demonstrate how we can assist archaeologists in a timely manner and add to their greater understanding of an excavation site by conserving the associated finds.” CWB worked with excavation assistants to find joins between the clay maquila fragments and collaborated with them on designing a roof support. Some of the field school students were interested in conservation and participated in the remedial work. The conservators also assisted with the excavation and lifting of fragile textile samples associated with human remains. CWB concluded their visit with a lecture on archaeological conservation methods for the field and a summary of the work completed on-site.

“Conservators without Borders has recognised that a small, efficient and enthusiastic team of volunteers armed with compact conservation tools and a range of packaging materials is a very efficient combination”

Christie Pohl – co-director CWB without Borders

At Magdalena de Cao, conservators carried out documentation, cleaning and re-housing tasks using conservation-grade packaging materials. The team implemented a visible storage system for all of the 2008 paper finds which minimised handling and allowed researchers to view both sides. In addition to the work on the colonial period finds, CWB also had the opportunity to discuss several different conservation issues and concerns with the El Brujo Archaeological Complex employees, technicians and archaeologists. During this process, suggestions were made for preventive conservation practices and long-term care of vulnerable materials. The CWB team demonstrated different conservation techniques, showing the variety of tools and materials used during the project. CWB has been invited to continue collaborative work at San José de Moro and Magdalena de Cao.

In conclusion CWB has proven that small, organised teams of conservators travelling with minimal resources can improve the visibility of conservation. Through cost-effective exercises, including training, small teams can give basic knowledge and tools to encourage the use of preventive methods. As Co-director Christie Pohl puts it, “Communication and sharing knowledge is free. CWB aims to tailor their conservation activities and training sessions to a project’s specific needs. CWB has recognised that a small, efficient and enthusiastic team of volunteers armed with compact conservation toolkits and a range of packaging materials is a very efficient combination.”

Working internationally also presents conservators with unique challenges to get the job done. When asked if she would participate on another project, volunteer conservator Jackie Chapman commented, “Yes, it was a great experience and it made me realise that I prefer this type of conservation. It is very different to working in a laboratory or museum, you have to think on your feet a lot faster and work within the limitations of being on-site and having limited access to materials and supplies. As a result you have to be more innovative in your approach, problem solving any issues that may arise.”

So far, CWB has been positively received by the conservation community at large. The directors are currently looking for funds to continue their international work. CWB is enormously indebted to its volunteers. Its success is due to their commitment and contribution of their expertise, time and energy. Thank you to Saray Naidorf, Amy Drago, Jackie Chapman, Judy Jungels, Diana Medellin and Margrethe Eilert. The directors would also like to acknowledge the support of their respective employers who have granted leave requests allowing the coordination of all of CWB’s projects: the Smithsonian’s Museum Conservation Institute, The Peabody Museum, The British Museum and the Institute of Archaeology, UCL.

For more information on CWB and details on how to get in touch, please visit our website: www.conservatorswithoutborders.org

Author Biographies

Dominica D’Arcangelo, Christie Pohl and Melina Smirniou together founded and currently co-direct Conservators without Borders. They all have MScs in Conservation from University College London (UCL), Dominica and Christie both have MScs in Conservation for Archaeology and Museums from the Institute of Archaeology, UCL, and Melina has an MSc in Conservation, also from UCL.

Dominica D’Arcangelo works as a research assistant in the conservation department at UCL’s Institute of Archaeology. She has a deep interest in communicating conservation across disciplines and to the general public. Christie Pohl was a Kress Foundation post-graduate fellow at the Smithsonian’s Museum Conservation Institute from 2006–2007 and is currently working at the Peabody Museum of Archaeology and Ethnology, Harvard University, on a Mesopotamian plaster cast refurbishment project. Melina Smirniou works as a conservator at the British Museum and is finishing a PhD on Late Bronze Age glass production, at the Institute of Archaeology, UCL.
Restoring the wall paintings of St. Barbara Chapel

In 2007 Martin Martan and Roman Ševčík started the complete restoration of more than 310 square metres of wall paintings within the St. Barbara Chapel. The chapel is located within the walls of Grabstein Castle which was founded in the middle of the 13th century by the lords of Donin, on a promontory near Hrádek nad Nisou in the Czech Republic. In spite of repeated attacks, the castle remained in the Donin's control until 1562 when the German vice-chancellor in Bohemia, Jiri Mehl purchased the indebted estate. Mehl modified the medieval castle and created a Renaissance château with a large park, planted with rare trees. Additional significant changes came in the late 18th century when the castle became the property of the Clam-Gallas dynasty. Major restorations and more recent stabilisation efforts. Ten years prior to this study, a concentrated solution of Sokrat (a low viscosity water based dispersion of styrene-acrylate copolymer) was applied to the paintings as a surface consolidant. Although Sokrat was most commonly used in the building industry within the Czech Republic, it became a common consolidant for wall paintings in the 1990s. This left areas of the paintings' surfaces marred by drips and dark coloured residues, as well as an uneven and patchy gloss which disrupted the visual unity of the works. Its uneven distribution also led to significant surface tension causing separation of the over-painted areas and of the original paint layer from the ground preparation layer and the wall. The biggest problem faced in restoring the paintings would not arise from the various damaged areas, but rather from the materials and application of past restorations.

Among many structural cracks in the walls was a particularly large example that ran along the axis of the vault and continued along the western wall all the way to the floor. These cracks had been filled with cement as part of past restoration and repair campaigns. When viewed using oblique lighting, a planar offset of either side of the cracks was evident, indicating a shift in the wall structure. There was also evidence that the underlayer of plaster in the area of the cracks had separated from the wall leaving numerous hollows between the wall surface and the painted layers. Poorly applied cement was used in numerous places on the painting. Large areas of retouching and over-painting had changed the overall character of the paintings. Around the figures over-painting had changed the overall character of the original. Stabilisation began with local consolidation and re-attachment of the layered paints to the preparation layer of the wall. The cement used to fill the cracks had lost its cohesion and was obscuring large areas of original painting, so was removed. The voids under the paint layer were filled with coarse-grained lime plaster followed by a "light" stucco. This layer was worked to imitate the polished plaster surface so typical of Renaissance stucco and wall paintings. When applying this we were careful not to cover any original painted surface. Sub-surface cavities were filled and each area was pressed back to the wall with gentle pressure until set. The unsuitable surface consolidant used in past restorations was removed using a solvent mixture of acetone and ethanal. A gel carrier prevented the solvent mixture from penetrating too deeply into the porous substrate, or evaporating too rapidly. Application was timed carefully to prevent any unnecessary exposure of the painting to solvent action. Treatment was carefully limited to areas of over-paint and not allowed to extend to areas of the original painting. It was found that in areas of extensive water damage, the over-paint had become irreversible. Rather than take too many unnecessary risks associated with trying to remove the altered over-paint, it was thinned and then in-painted to make it visually in keeping with the rest of the painting. Following the removal of over-paint, the entire surface of the painting was rinsed with distilled water and consolidated. In-painting was performed with the goal of unifying the painting visually, without introducing any reconstructions. The borders framing the scenes in each of the vaults where retouched to make the losses invisible, restoring the discrete nature of each section. In areas where there was a 19th century brocade decoration, the damaged original surface was retouched to bring the brocade to the foreground, more in keeping with the original intent of this compositional element, but without reconstructing the full decorative detail of the ornament. Ironically, the biggest challenges faced in the conservation of the paintings of the St. Barbara Chapel were not actually due to damage caused by centuries of exposure, but in removing, reducing and stabilising the effects of unsuitable materials and methods used in previous restoration campaigns. This serves as a lesson to us all as conservators, before using new materials we must take the necessary precautions to ensure that they will not damage the art.
Call for Papers

We now invite the submission of proposals for papers at this event. Papers presented at an IIC Congress and published in the preprints undergo a rigorous peer review process. To this end, IIC Council appoints a Technical Committee of international experts who will make selections from the proposals received and will then invite draft papers. The drafts will be reviewed and the content of the programme will be determined. Final paper programmes will be edited for publication by the Editorial Committee, chaired by David Saunders. IIC encourages you to submit your proposal for a paper via the web at www.iconconservation.org/conf/council/istanbul2010/send_abstract.php

Further details may be found at the home page of the IIC Congress at www.iconconservation.org – just follow the link to Congress.

A call for posters will be made later in 2009.

IIC News
IIC Congress – Istanbul 2010
Istanbul welcomes you!

The lands and the islands of the Eastern Mediterranean, from the Balkans through Turkey and the Levant to Egypt, have been home to many of the world’s most important and most ancient civilisations. The material evidence of such traditions and legacies is everywhere: in archaeological sites, in museums and in buildings. Today this region presents a vivid and dynamic cultural mosaic as museums, palaces, sacred places, libraries and archives, cultural centres, sites, monuments and living communities continue to add to the rich and varied legacy. From ancient sites to contemporary sculpture; luxury textiles to elaborate manuscripts; painted masterpieces to civic monuments and grand buildings, the Eastern Mediterranean offers insights unique to its heritage. Come and follow the thread from the depth of antiquity to the vibrant cultures of today.

Deadline for receipt of summaries: 30 April 2009.

You will receive a response from the Technical Committee by the end of June. Draft manuscripts will be required by 30 September 2009 and the Technical Committee will make their selection by the end of November. Final manuscripts will be due on 15 January 2010.

We look forward to seeing you in Istanbul!

IIC Congress 2012 – Call for VENUES

IIC’s 2008 Congress in London was a great success as we were able to repeat this with our much anticipated 2010 event, to be held in Istanbul. Currently, IIC’s Council is looking at options for venues for the IIC Congress to be held in the autumn of 2012. If you feel that your organisation or institution could host an international conference in just over three years time please contact the IIC office for further details of what this would involve and how to make a full proposal.

New IIC Fellows elected

Congratulations to all newly elected IIC Fellows. As well as those featured below, other recently elected fellows are: Ute Utermohlen, Katherine Ara, Marc Harnd, Helen Hughes and Katsutaka Masuda will be profiled in future editions of News in Conservation.

Alan M. Farancz


Robert Gowing

Robert Gowing received his professional degree in art conservation from Carleton University, Ottawa, before undertaking the postgraduate diploma course in the conservation of wall paintings at the Courtauld Institute of Art, London. He has worked on wall painting conservation projects in England, Spain and Austria. Robert was employed by the Courtauld as a research and teaching assistant before undertaking the post of Wall Painting Conservator at English Heritage. English Heritage’s Senior Wall Painting Conservator since 2002, he has specific responsibility for providing technical support across England on building conservation projects involving the conservation of wall paintings, and is active in the Conservation Department’s research and publications programmes. This has included co-editing two conference proceedings (Conserving the Painted Past (2003), and All Manner of Murals (2007)), and the production of the English Heritage Practical Information Leaflet for wall painting conservation. Within the professional community, Robert was on the Council of the UKIC, and then became a Trustee of the Institute of Conservation (Icon) from its founding in 2004. He was also the Project Manager responsible for Icon’s corporate branding. Robert is also a member of the International Advisory Board for the MA Conservation course at the Courtauld Institute.

Gillian McMillan

Gillian McMillan is Senior Conservator for Collections at the Solomon R. Guggenheim Museum in New York City, where she has worked since 1984. She received her Diploma in the Conservation of Easel Paintings from Gateshead Technical College in the United Kingdom in 1979 and was the Andrew W. Mellon Intern at the Intermuseum Conservation Association, Oberlin College, Ohio, in 1981–82. She was Paintings Conservator at The Art Gallery of New South Wales in Sydney, Australia from 1979-1984. While in Australia she helped establish the Sydney division of the Australian Institute for the Conservation of Cultural Material and led a committee that organized one of the early conferences devoted to the conservation of contemporary art. Gillian has conducted numerous technical examinations and has attended and performed the treatment of many modern paintings from the 19th and 20th centuries, including signature works by Paul Cézanne, Vincent van Gogh, Edouard Manet, Camille Pissarro, Pablo Picasso, Robert Delaunay, Vasily Kandinsky, Jackson Pollock and Robert Rauschenberg. Gillian has recently commenced work on her PhD dissertation at the University of Northumbria in the UK.

Paul Whitmore

Paul Whitmore was trained as a chemist, gaining a B.S. in chemistry from Caltech and a Ph.D. in physical chemistry from the University of California at Berkeley. He has worked in conservation science for his entire professional career, starting at the Environmental Quality Laboratory at Caltech studying the effects of air pollution on works of art. From there, he went to the Fogg Art Museum at Harvard University, where he worked as a scientist in what is now the Straw Art Center for Conservation. Since 1988 he has been at Carnegie Mellon University, as director of the Art Conservation Research Center and research professor in the Department of Chemistry. His current research interests are in material degradation chemistry and environmental risk factors for those processes, remote sensors for material aging and stability, and the effects of conservation treatment strategies on those processes. Articles on these subjects and has edited a book, Contributions to Conservation Science, a compilation of research papers published by the Center, Robert Feller. He is currently senior editor of the Journal of the American Institute for Conservation.

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IIC Regional Groups

Time and Eternity: Caring for Sacred Art

November 7th and 8th, Krems, Austria

The Austrian Conservator-Restorers Association (Österreichischer Restauratorenverband, ORV) held its 21st biennial Convention themed Time and Eternity: Caring for Sacred Art at the Former Church of the Minor Brothers in Krems, Lower Austria. Experts from a wide range of fields including conservators, art historians, architects and curators discussed specific requirements and challenges faced when confronted with artwork in a religious or ritual context. These works of art often have a certain function within a religious ceremony or rite, a characteristic which constitutes an integral part of the object and must be taken into account along with its material value.

Numerous case studies from a variety of fields were presented demonstrating problems, approaches and decision-making processes associated with preservation and conservation of sacred objects. The spectrum of projects ranged from devotional paintings and liturgical objects to façades, graveyards and temple complexes. Presentations and discussions made clear that solutions can only be found in dialogue with users and typically compromise and integrate more than one technical or material measurement such as climate control, training of personnel, handling instructions and maintenance that will contribute positively to the preservation of cultural heritage. The case of Jewish graveyards in Austria is a sad example due to lack of such arrangements and the consequence has been dramatic damage and loss. The Austrian Conservator-Restorers Association welcomes the date of this year’s convention, 70 years after the November 7th, as an occasion to broach the issue of studying and caring for evidence of Jewish Culture as part of this country’s past and present.

The conference included not only discussions about artefacts from Christian, Jewish and Islamic, but also from non-European cultural backgrounds. The conflicting results from demands to preserve material aspects of artefacts and the effort to understand and respect other, non-material values will necessarily lead to doubts and questions about conventional methods and approaches established in western conservation traditions. A new and brave definition of a conservator’s range of skills and responsibilities has to be mapped, as examples from conservation projects in Bhutan, India and at the Museum of Ethnology in Vienna demonstrated.

The proceedings of the conference will be published in summer 2009 in German and can be ordered at www.orv.at.

Christa Hofmann
Courtauld Gallery

Conservator of Works on Paper

The Courtauld Gallery is one of the world’s finest small museums with outstanding collections and an acclaimed programme of temporary exhibitions. Set in historic Somerset House in central London, the Gallery is an integral part of the Courtauld Institute of Art, an international centre for the teaching and study of the history of art and conservation.

The Gallery is seeking to appoint a conservator who will be responsible for the conservation and preventive care of The Courtauld’s collection of approximately 7,000 drawings and 20,000 prints. The postholder will help to deliver the Gallery’s conservation plan, undertaking routine conservation and monitoring as well as substantial treatments; you will also be required to support the Gallery’s busy exhibitions and loan programme as well as contributing technical and other specialist research.

A recognised qualification in the conservation of works on paper, specialist knowledge and experience of conserving works on paper are required. The successful candidate should also have knowledge and experience of technical research and recent developments in the field.

For further details and an application pack, please download details at http://www.courtauld.ac.uk/vacancies/index.html or email recruitment@courtauld.ac.uk or telephone 020 7848 1881.

Closing Date: 12.00 pm, 11 February 2009
Interview Dates: 26/27 February 2009

The Courtauld Institute of Art promotes equal opportunities.