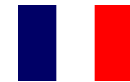


BROMECC

Bulletin of
Research
on Metal
Conservation

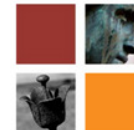
*Keeping you up to
date on research
between the
ICOM-CC Metal
Working Group's
Triennial meetings*



Pour ceux qui ne connaissent pas le Bulletin de Recherche sur la Conservation des Métaux, BROMECC est une publication en ligne qui informe la communauté de la conservation des métaux des activités de recherche réalisées entre les congrès triennaux du groupe ICOM-CC métal.



International Conference
on Metal Conservation
16 - 20 September 2013



Online publication of metals conservation:

- Research abstracts
 - Calls for collaborations
 - New, ongoing and finalised projects
 - Implementation of research into conservation practice
- General information
 - Future conferences and workshops
 - Announcements
 - Websites
 - National Contact Persons and email addresses

Les informations publiées par BROMECC comprennent principalement des résumés qui présentent les activités de recherche. Des informations sur les congrès à venir et sur les sites utiles sont également publiés.

Vous y trouverez également les coordonnées de vos Contacts Nationaux.

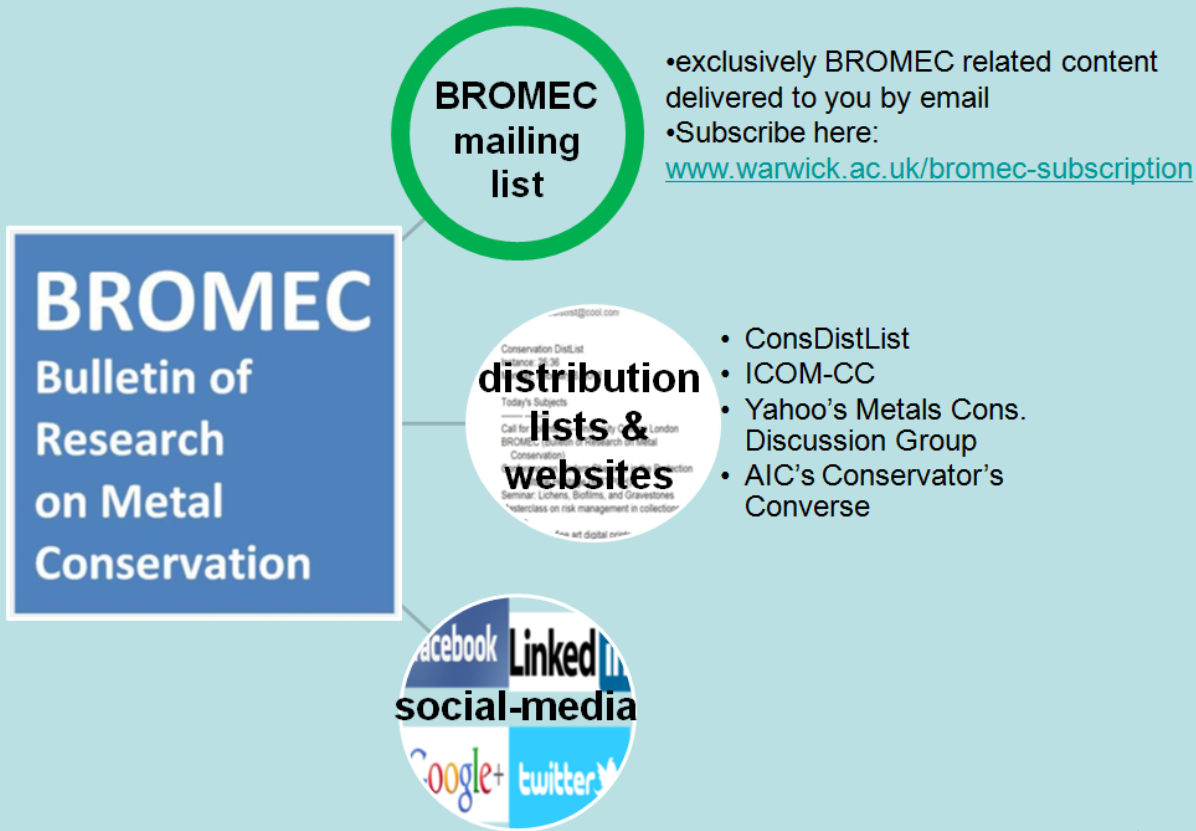
Open access to all BROMECC editions:

www.warwick.ac.uk/bromec

The screenshot shows the Warwick University Department of Physics website. At the top, there is a navigation bar with 'WARWICK' on the left, 'Text only | Sign in' in the middle, and a search box on the right containing 'Physics' and 'More...'. Below this is a dark blue banner with 'Department of Physics' in white text. A red navigation bar contains links for 'Prospective Students', 'Current Students', 'Research', 'People', 'News & Events', 'Physics A to Z', and 'Outreach'. Below the navigation bar is a brown bar with 'Condensed Matter Physics » Analytical Science Projects » BROMECC » BROMECC 34 English BROMECC 34 Français BROMECC 34 Español'. The main content area is titled 'BROMECC - Bulletin of Research on Metal Conservation'. It features three featured articles: 'BROMECC 32 Boletín de Investigación en Conservación-Restauración de Metal' (March 2011), 'BROMECC 33 Bulletin de Recherche sur la Conservation-Restauration du Métal' (January 2012), and 'BROMECC 34 Bulletin of Research on Metal Conservation' (April 2013). Each article has a blue header box with the issue number and title, and a small image. Below the featured articles, there are three columns of text, each starting with 'Editorial' and a date. The first column is for March 2011, the second for January 2012, and the third for April 2013. The text in these columns is small and partially obscured by the image quality.

Tous les précédents bulletins sont en accès libre via le site de l'Université de Warwick, tandis que les sites web du Groupe Yahoo et de l'ICOM-CC offrent un accès limité aux abonnés.

BROMECC updates; for the reader or contributor



Actuellement, vous pouvez recevoir des appels à contributions ou les avis de publication, soit par:

- email, suite à l'abonnement à ce site internet, SOIT
- différentes listes et sites de diffusion, SOIT
- les réseaux sociaux.

Il est intéressant de noter que l'adhésion via les réseaux sociaux, tels que Facebook et LinkedIn a récemment augmenté chez les professionnels de la conservation, plus particulièrement en Iran et en Egypte.

Cependant, le moyen le plus efficace de communication que nous vous recommandons, reste l'inscription à la liste de diffusion BROMECC, qui représente actuellement 1080 emails.

Submissions made
in either English,
French or Spanish



Translated and
published in the 3
official languages
of ICOM

BROMECE 32

Boletín de Investigación en Conservación-
Restauración de Metal



BROMECE 33

Bulletin de Recherche sur la Conservation-
Restauration du Métal



BROMECE 34

Bulletin of Research on Metal Conservation



Marzo 2011

Editorial

El BROMECE 32 presenta principalmente investigaciones de post grado, un sector en la investigación de la conservación-restauración metálica, que no sólo proporciona una formación para los conservadores restauradores y científicos de la conservación, sino que también hace una importante contribución para la comprensión global de la investigación en nuestro campo. La investigación de post grado en conservación de metales es apoyada por el BROMECE mediante su difusión internacional, y alerta a los directores y a sus estudiantes a presentar sus mejores trabajos en este ámbito internacional. En este número se presentan cuatro nuevos proyectos de investigación y un proyecto en desarrollo. Dentro de los nuevos proyectos de investigación, se están investigando opciones de tratamientos para sanefilagos líticos de material compuesto metálico-orgánico que estaban sumergidos en un área urbana de Berlín como parte de unas prácticas de moler en conservación y restauración. Desde el

Janvier 2012

Editorial

Ce numéro du BROMECE contient un large éventail de thèmes de recherche sur la conservation des métaux en Europe et au Moyen-Orient. Ces activités de recherche persistent malgré une économie mondiale « malade » et d'importantes tensions politiques régionales : de récentes nouvelles des contacts nationaux mettent en évidence des coupures budgétaires sévères et la fermeture de centres de formation en conservation et d'instituts de conservation en Hongrie, au Royaume-Uni et en Roumanie (notamment, le National Research Laboratory for Conservation and Restoration of Movable National Cultural Heritage). Il serait intéressant de mesurer combien la recherche a été, ou sera, affectée par ces récents changements.

April 2013

Editorial

This edition highlights innovative European research addressing some common challenges which confront metallic heritage collections. More particularly when options for analysis, conservation or restoration of metal-composite artefacts are restricted. The abstracts emphasize a range of approaches for ancient and modern metals concerning marine, terrestrial or atmospheric environments. In the light of decreasing funding avenues, the resourcefulness demonstrated by the research abstracts – whether it is financial, organisational or collaborative – is noteworthy. All projects featuring in BROMECE provide funding information; giving potential researchers some ideas of how to source their own financial support. In this edition, research on in situ or post-excavation conservation treatments for iron or copper alloy-organic composite archaeological artefacts feature twice. The

Les contributeurs au BROMECE peuvent présenter leur texte en anglais, en français ou en espagnol. Ces textes sont revus et traduits par l'équipe du BROMECE.

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Edition: www.bromec.org
METAL CONSERVATION
February 2002 **BROME C 1**

Editorial

After the announcement of the publication of the BROME C some months ago, here is the first issue. Just before Christmas, my task has been to promote the bulletin and to find correspondents in different countries. Until now, only a few countries represented are in the European Community but we hope that more will be added in the next issues.

For those disinterested in the past, you may wonder why we are publishing this bulletin. The objectives are just different: we expect to inform regularly (4 times per month) the conservation community on the progress of research in metal conservation. The projects presented can be implemented in research institutions, conservation laboratories. Short studies conducted by conservation students from other fields (archaeology, chemistry, physics) are welcome. Because the outcomes of such works are rarely published, the BROME C could be the medium to promote them.

The BROME C is structured around four themes:

- research projects already achieved with outcomes currently applied in the field but which need optimisation
- ongoing research projects
- new research projects
- other information (seminars, workshops, web-sites) specific to the conservation of metals

All the data given in the bulletin are provided by the editor and the correspondents from the following countries (e-mail addresses and phone numbers are given at the end of the bulletin):

- **Belgium:** [Patrick Storme](mailto:patrick.storme@kuleuven.be), conservator and lecturer at the Hogeschool Antwerpen, Royal Academy of Fine Art, Antwerpen and [Gilberte Dewaeckel](mailto:gilberte.dewaeckel@kuleuven.be), conservator at IRPA (Institut Royal du Patrimoine artistique), Bruxelles
- **Denmark:** [Karen Steensen Petersen](mailto:karen.steensen@statenshistoriska.museum.dk), conservator, The National Museum of Denmark, Copenhagen
- **Germany:** [Gerhard Egger](mailto:gerhard.egger@staatlakademie-stuttgart.de), head, study program "Object Conservation", Staatliche Akademie der Bildenden Künste, Stuttgart

BROME C 34
Bulletin of Research on Metal Conservation

April 2013

Editorial

This edition highlights innovative European research addressing some common challenges which confront metallic heritage collections. More particularly when options for analysis, conservation or restoration of metal-composite artefacts are restricted. The abstracts emphasize a range of approaches for ancient and modern metals concerning marine, terrestrial or atmospheric environments. In the light of decreasing funding avenues, the resourcefulness demonstrated by the research community is particularly noteworthy.

All projects presented in this issue focus on the conservation of iron- or steel-based objects. The first is a study on the corrosion of iron-ore artefacts, and the second is a newly launched Greek-French project. Another French project studies a particular corrosion of bronzes excavated from a river. It highlights the importance of controlling and maintaining relative humidity during conservation and museum display. Four innovative projects from Switzerland outline the application of diagnostic, electrochemical and microbiological techniques for material analyses or conservation-restoration treatments. Two of these again focus on problems resulting from organic-composite and/or multi-component metal objects. The title image depicts the application of a tool under development: an electrolytic pen for locally removing tarnish from gilt silver. Finally a consortium from the Czech Republic is analysing the composition and corrosion of excavated archaeological silver. This will be followed by reproduction of this jewellery by contemporary silversmiths.

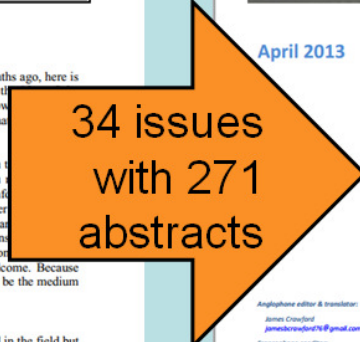
New details for upcoming conferences are given for: Iron and Steel 2013: Rust, Regeneration and Romance; the 7th International Congress on the Application of Raman Spectroscopy in Art and Archaeology (RAA 2013); the 18th International Conference on Ancient Bronzes, BUAA VIII; International Conference on the Beginning of the Use of Metals and Alloys; Big Stuff 2013; and ICOM-CC's Metal 2013. Notably, early (i.e. discounted) registration for Metal 2013 is open until the end of June and accommodation information for the conference in Edinburgh is now online.

New announcements include a PhD thesis on the dechlorination of marine archaeological iron (see also BROME C 29 and 32) and an introduction to the ICOM-CC Enamel Working Group.

New links for website resources include the American Institute for Conservation (AIC) Metals Conservation Wiki, presentations from Big Stuff 2007, the British Museum's Library Catalogue, and abstracts from last year's Bronze Conservation Colloquium.

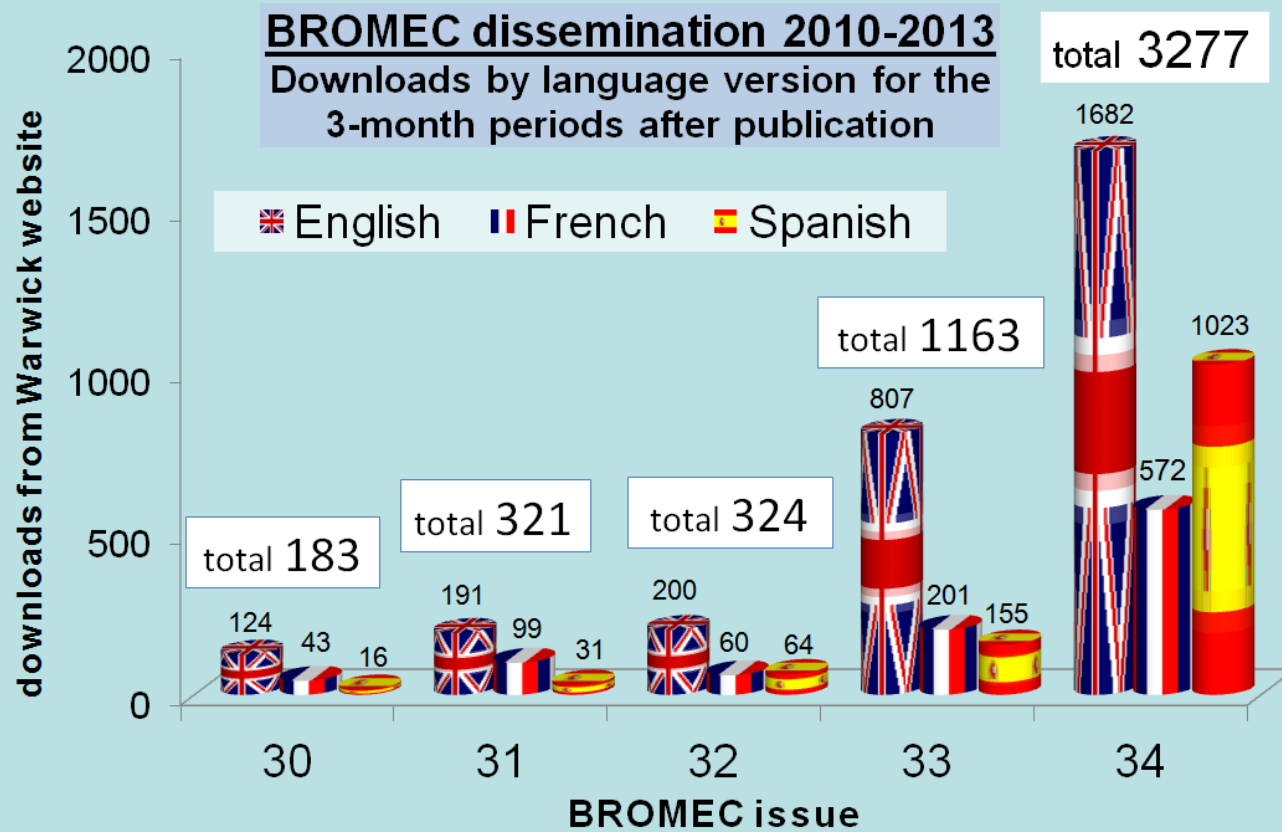
We hope you find this edition informative and enjoyable!

James Crawford



2002

2013



Alors que beaucoup d'efforts ont été mis dans la production simultanée et trilingue de BROMECC depuis 2009, plus récemment l'emphase a été mise sur la diffusion au-delà des circuits habituels. Ces efforts ont été récompensés par une augmentation significative des statistiques de téléchargement pour les 3 versions linguistiques de BROMECC.

Il est clair que le paysage en constante évolution des différents réseaux sur Internet sera crucial afin de promouvoir une diffusion efficace des recherches publiées par BROMECC.

What next for BROMECC?

- Further online promotion of BROMECC in Latin America, with a view to publishing submissions made by Hispanophones
- November 2013: call for contributions to BROMECC 35

Donc, quelle suite pour BROMECC jusqu'à notre prochaine rencontre à Metal 2016 ?

Et bien, pour tous à BROMECC, notre diffusion en-ligne de la recherche en conservation des métaux va se poursuivre, notamment avec l'intention de recevoir des contributions de chercheurs hispanophones étudiant ou travaillant en Amérique Latine.

En attendant, pouvant vous intéresser, vos collègues ou vos étudiants... l'appel à contributions pour la 35ème édition de BROMECC sera lancé en novembre.

Adios, au revoir & bye for now!

...from the BROMECC team of the
2011-2014 triennial

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Ana Crespo

Donc adios, bye & au revoir pour
l'instant !