

Bibliographie

Orientation bibliographique : identification et traitements des encres ferrogalliques (2007-2017)

Centre de documentation du département de la Conservation, BnF

Contact: Francisca Cabrera (documentation.conservation@bnf.fr)

Mots-clés: bibliographie, encre métallogallique, encre ferrogallique, identification, traitement, conservation-restauration

Keywords: bibliography, iron gall ink, conservation, restoration, identification, treatment

Cette bibliographie présente des références d'articles et ouvrages parus dans la dernière décennie portant sur la problématique des encres métallogalliques. Elle propose ainsi une vision d'ensemble des différentes orientations de la recherche, en France et à l'international, visant à trouver des solutions de conservation, traitements curatifs et restauration des documents graphiques attestant la présence de ces encres.

2017 - 2016 - 2015 - 2014 - 2013 - 2012 - 2010 - 2009 - 2008 - 2007

2017

BAZEMORE, A. «Chelatin soluble iron (II) from iron gall ink using calcium phytate in agar gel». In *Gels in the Conservation of Art*. London: Archetype Publications : 2017, p. 116-118.

GALEOTTI, M., Montalbano, L., Spera, E. «Le problematiche degli inchiostri metallo gallici. Considerazioni e nuove tipologie di applicazione a dieci anni dalla sperimentazione del fitato di Calcio». In *OPD restauro*, Vol. 28, p. 174-183, ill.

JOLY, O., Bouvet, S., Le Bourg, E. «Phytate treatment: from Study to Practice» [poster]. In *Actualités de la conservation*, no. 34, 2017. [En ligne]: http://www.bnf.fr/fr/professionnels/lettre_conservation_34/x.lettre_conservation_34.html [consulté le 28/12/2017]

MILLER Z., Whitby, G., Garside, P. «Investigating the ability of phytate gel systems to treat iron gall ink at the British Library». In *Gels in the Conservation of Art*. London: Archetype Publications : 2017, p. 77-81.

REHÁKOVÁ, M., Gál, Lukáš et al. Identification of iron-gall inks in historical drawings by Fibre Optics Reflection Spectroscopy – Extension to the NIR spectral range (Dedicated to Professor Ľubomír Lapčík, in honour of his 80th birthday). In *Journal of Cultural Heritage*, vol. 27, October 2017, p. 137-142.

SISTACH, M.C., Marin, E. et Garcia, J. «Evaluation of Alkaline Compounds Used for Deacidification and Simultaneous Lining of Extremely Degraded Manuscripts.» *Restaurator. International Journal for the Preservation of Library and Archival Material*. <<https://www.degruyter.com/view/j/rest.2017.38.issue-3/res-2016-0034/res-2016-0034.xml?format=INT>.> [Consulté le 28/12/2017]

YUN LIU, Kralj Cigic, I., Strlic, M., 2017. «Kinetics of accelerated degradation of historic iron gall ink-containing paper». In *ScienceDirect. Polymer Degradation and Stability* 142, 255–262. DOI: <https://doi.org/10.1016/j.polyimdegradstab.2017.07.010> [consulté le 28/12/2017]

2016

JOLY, O., Bouvet, S., Le Bourg, E. «Phytate treatment: from study to practice [Abstract]». *Experience and evidence ICOM-CC graphic documents working group interim meeting*, 1-3 June 2016 / ICOM. Committee for conservation.

POGGI, G., Sistach, M. C., Marin, E. and al., 2016. «Calcium hydroxide nanoparticles in hydroalcoholic gelatin solutions (GeolNan) for the deacidification and strengthening of papers containing iron gall ink». In *Journal of Cultural Heritage*, n. 18, p. 250-257.

SURMAK, A. «Study of discoloured iron-gall ink inscriptions – case of the Gradual of Lviv Benedictines from Krzeszow», In *CeROArt* [En ligne], EGG 5 | 2016, mis en ligne le 25 février 2016, consulté le 28 décembre 2017. URL : <http://journals.openedition.org/ceroart/4909>

2015

BAGLIONI, P., Chelazzi, D., Giorgi, R. «Deacidification of Paper, Canvas and Wood» in *Nanotechnologies in the conservation heritage*. Springer, (2015) Chap.5, p. 117-144. DOI: <https://dx.doi.org/10.1007/978-94-017-9303-2>

DESREUMAUX, A. «Des couleurs et des encres dans les manuscrits syriaques». In *Manuscripta Syriaca: des sources de première main - Cahier d'études Syriaques*, no. 4/ Edité par Françoise Briquel Chatonnet et Muriel Debié, p. 161-193.

MARÍN, E., Sistach M.C., Jiménez M.C., Garcia G., Garcia J.F., 2015. Distribution of Acidity and Alkalinity on Degraded Manuscripts Containing Iron Gall Ink. In *Restaurator* 36 (3), p.229-247.

OULFA, B., Vez, S., Meslet-Struyve, S. «The Dutch Fe-migration mending test». In *Journal of Paper Conservation* Vol. 15, N. 1, p. 9-15, ill.

ROUCHON, V, Bernard, S., 2015. «Mapping iron gall ink penetration within paper fibres using scanning transmission x-ray microscopy.» In *Journal of Analytical Atomic Spectrometry*, vol. 30 (3), 635-641.

2014

BELHADI, O., Phan Tan Luu, C., Jacobi, E., Meslet-Struyve, S., Vez, S., Reissland, B. and Rouchon, V. « The Dutch Fe-migration mending test ». In *Journal of Paper Conservation*, 15 (1): 9-15.

CIGLANSKÁ, M., Jancovicová, V., Havlíková, B., Machatová, Z., Brezová, V., 2014. «The influence of pollutants on accelerated ageing of parchment with iron gall inks.» In *Journal of Cultural Heritage*, vol. 15 (4).

GOULD, A. «The treatment of archaeological papers affected by iron corrosion using calcium phytate». In *Journal of the Canadian Association for Conservation = Journal de l' Association canadienne pour la conservation et la restauration* Vol. 39, p. 17-30, ill.

MALESIC, Jasna, Sala, Martin, Selih, Vid S., Kocar, Drago, 2014. «Evaluation of a method for treatment of iron gall ink corrosion on paper.» In *Cellulose*, vol. 21 (4), p 2925-2936.

MILLS, David, Curtis, Antoinette, Davis, Graham. «Apocalypso : revealing the Bressingham roll.» In *Journal of Paper Conservation*, Vol. 15, N. 3, p. 14-19, ill.

MOŽIR, Alenka, Cigić, Irena Kralj, Marinšek, Marjan, Strlic, Matija. «Material properties of historic parchment : a reference collection survey». In *Studies in conservation* Vol. 59, N. 3, p. 136-149, ill.

OULFA, B. et al. « Un nouvel outil pour évaluer le risque de migration d'encre ferrogalliques : possibilités et limites ». In *Support Tracé*, 61-67, 2014.

VELIVASAKI, G. «Investigation of the deterioration degree of parchment marked with iron gall inks», *CeROArt* [En ligne], HS | 2014, mis en ligne le 08 septembre 2014, consulté le 28 décembre 2017. URL : <http://journals.openedition.org/ceroart/4447>

ZEKRGOO, S. «Methods of creating, testing and identifying traditional black Persian inks.» In *Restaurator, International journal for the preservation of library and archival material*, Vol. 35, N. 2, p. 133-158, ill.

2013

DIETZ, G., Brahms, I., Eser, T., Hahn, O. «Dürer's early master drawings : a technical analysis of his inks and papers.» In *Journal of paper conservation*, Vol. 14, N. 3, p. 5-14, ill.

ENG, C. «Examination of an ink drawing by Vincent van Gogh : non-invasive techniques have produced unexpected results». In *Journal of paper conservation*, Vol. 14, N. 4, p. 19-25, ill.

FERRER, N., Sistach, M. C. «Analysis of sediments on iron gall inks in manuscripts.» In *Restaurator: international journal for the preservation of library and archival material*, Vol. 34, N. 3, p. 175-193.

GIACOMELLO, A., Pesaro, A. «Restauro di due codici del XV secolo.» Trieste : Regione Autonoma Friuli Venezia Giulia, Centro di catalogazione e restauro dei beni culturali 2013.

JACOBI, E. «The Dutch Fe-migration mending test». In *Journal of paper conservation*, Vol. 14, N. 4, p. 38, ill.

ROUCHON, V., M. Duranton, O. Belhadj, M. Bastier Desroches, V. Duplat, C. Walbert, B. Vinther Hansen, 2013. «The use of halide charged interleaves for treatment of iron gall ink damaged papers». In *Polymer Degradation and Stability*, 98 (2013).

VEZ, S. «Probatio Pennae : conservation-restauration de deux manuscrits carolingiens dans une reliure gothique remaniée : De Astra Celi et Comes de Murbach, Ms 184, Bibliothèque municipale de Besançon : mise en évidence de l'influence des traitements humides de mise à plat des parchemins sur la migration des encres ferrogalliques». Mémoire de fin d'étude, diplôme de restaurateur su patrimoine. Aubervilliers : Institut national du Patrimoine, 2013.

2012

GUILD, S., Tse, S., Trojan-Bedynski, M. «Technical note on treatment options for iron gall ink on paper with a focus on calcium phytate.» In *Journal of the Canadian Association for Conservation (CAC)*, Vol. 37, p.17-21.

MALESIC, J., Kocar, D., Fabjan, A. B. «Stabilization of copper- and iron-containing papers in mildly alkaline environment.» In *Polymer Degradation and Stability*, Vol.97 No.1, p.118-123.

MOZIR, A., Gonzalez, L., Kraij Cigic, I., Wess, T., J., Rabin, I., Hahn O., Strlic. «A study of degradation of historic parchment using small-angle X-ray scattering, synchrotron-IR and multivariate data analysis». *Analytical and Bioanalytical Chemistry*, vol.402, pp. 1559–1566.

PROCEEDINGS EUROPEAN WORKSHOP ON IRON-GALL INK CORROSION, June 16 – 17, 1997, Rotterdam: Museum Boijmans van Beuningen. Amsterdam: Netherlands Institute for Cultural Heritage, 1997, 64 p.

ROUCHON, V., Letouzey, M., Desroches, M., Duplat, V., Duranton, M., Pellizzi, E., Stordiau-Pallot, J. «Traitement de restauration des manuscrits endommagés par des encres ferrogalliques : atouts et limites du traitement au phytate de calcium.» In *Support tracé*. Revue de l'association pour la recherche scientifique sur les arts graphiques, 2011, 11, pp.106-115. <hal-01447275>

ROUCHON, V., Duplat, V., Desroches, M. «An Aqueous Treatment for Highly Damaged Manuscripts: Minimising the Risk of Mechanical Damage.» In *Journal of paper conservation*, Vol. 13, n° 1.

ROUCHON, V., Duranton, M., Belhadj, O., Cauliez, N., Joly, O., Walbert, C., Vinther Hansen, B. «Conservation de manuscrits altérés par les encres ferrogalliques : faisabilité d'un traitement antioxydant par contact en milieu humide.» In *Actes du colloque Sciences des matériaux du patrimoine culturel – 2* • Paris, 20 et 21 novembre 2012. Actes publiés en ligne (pdf): <<http://www.culturecommunication.gouv.fr/Thematiques/Enseignement-superieur-et-Recherche/La-recherche/Archives/Programme-de-recherche-sur-les-materiaux-du-patrimoine-2003-2013/Actes-du-colloque-Sciences-des-materiaux-du-patrimoine-culturel>> [Consulté le 16 janvier 2018]

SIROST, J.-C. *L'encre d'imprimerie: composition, fabrication, propriétés*. Paris : Dunod, 1997, 281 p.

TINTENFRABSCHÄDENUNDIHREBEHANDLUNG, hrsg. von G. Banik und H. Weber, Stuttgart: W. Kohlhammer, 1999, 308 p. : ill. (Werkhefte der Staatlichen Archivverwaltung Baden-Württemberg. Serie A, Landesarchivdirektion, 10).

TSE, S., Guild, S., G., A. «A comparison of aqueous versus ethanol modified calcium phytate solutions for the treatment of iron gall ink inscribed paper». In *Journal of the Canadian Association for Conservation (CAC)*, Vol.37, p.3-16.

VAN BERGE-GERBAUD, M. «Bistre, encre métallogallique, sépia, encre au carbone ? Tentative de caractérisation de ces encres anciennes» Mária Van Berge-Gerbaud, Alain Duval, Hélène Guicharnaud, Carlo James. In *Technè*, 2007, n° 25, p. 38-44.

2010

DURANTON, Maroussia et al. «Impact de l'anoxie sur la conservation des manuscrits endommagés par les encres ferrogalliques.» In *Support tracé*, 2010, n° 10, p. 114-121.

GERSTEN, T. «La problématique des encres ferrogalliques à travers l'observation d'un manuscrit musical non autographe du 18^e siècle», *CeROArt* [En ligne], EGG 1 | 2010, mis en ligne le 17 novembre 2010, consulté le 28 décembre 2017. URL : <http://journals.openedition.org/ceroart/1698>

HAHN, Oliver. «Analyses of Iron gall and Carbon Inks by Means of X-Ray Fluorescence analysis: a non-destructive approach in the field of archaeometry and conservation science.» In *Restaurator*, 2010, Vol. 31, n° 1, p. 41-64.

ORLANDINI, Valeria. «Affects of aqueous treatments on Nineteenth-Century Iron-Gall-Ink documents: Calcium phytate treatment: optimisation of existing protocols.» In *The Book and paper group annual : vol. 29 : papers presented at the Book and Paper session, AIC' 38th Annual Meeting, May 11-14, 2010 , Milwaukee, Wisconsin / AIC, 2009, p.137-146.*

STEFANIS, E., Panayiotou, C. «Deacidification of documents containing iron gall ink with dispersions of Ca(OH)₂ and Mg(OH)₂ nanoparticles». In *Restaurator*, 2010, vol. 31, n° 1, p. 19-40.

SCIANNA, Nicolangelo. «Restoring paper documents». Chapitre 2. In *Solving cases : books and paper artefact restoration*. Brepols, 2010. p. 41-57.

TSE, S. et al. «Calcium phytate treatment on 19th century iron gall ink documents : overall summary of research results and implications on treatment decisions» [résumé]. In *The Book and paper group annual : vol. 29 : papers presented at the Book and Paper session, AIC' 38th Annual Meeting, May 11-14, 2010 , Milwaukee, Wisconsin / AIC, 2009, p. 79.*

2009

AALDERINK, B. et al. «Clearing the image: a quantitative analysis of historical documents using hyperspectral measurements.» In *The Book and paper group annual* : vol. 28 / AIC. The Book and paper group annual, 2009, n° 28, p. 115-120.

BANIK, G. «Scientific conservation : transfer of scientific research on ink corrosion to conservation practice : does it take place?» In *Restaurator*, 2009, vol. 30, n°s 1 & 2, p. 131-146.

GAMBARO, A. «Study of 19th century inks from archives in the Palazzo Ducale (Venice, Italy) using various analytical techniques». In *Microchemical Journal*, March 2009, Volume 91, Issue 2, p. 202-208.

GLOTZ, D. «Visible (420-720nm) Hyperspectral imaging techniques to access inks in historical documents.» In *Restaurator*, « 2009, vol. 31, n° 3, p. 199-221.

MEYER, F., Neumann, A. «Recombinant proteins, a new material for the chemical stabilisation of copper pigment corrosion on paper.» In *Restaurator*, 2009, vol. 30, n°s 1 & 2, p. 96-130.

PATAKI, A. «Remoistenable tissue preparation and its practical aspects». In *Restaurator*, 2009, vol. 30, n°s 1 & 2, p. 51-69.

ROUCHON, V. et al. «The Water sensitivity of Iron Gall Ink and its Risk Assessment» In *Studies in conservation*, 2009, vol. 54, n° 4, p. 236-254.

ROUCHON, V., E. Pellizzi, et J. Stordiau. « Les traitements de restauration employés sur des manuscrits comportant des encres ferrogalliques Partie 2 : pertinence des tests préliminaires et migrations de fer provoquées par l'apport d'eau ». *Actualités de la conservation*, n° 28 (2009). http://www.bnf.fr/fr/professionnels/anx_actu_conservation/a_cn_act_num28_art1.html. [Consulté le 9 janvier 2018]

ROUCHON, V. et al. «Restauration de manuscrits comportant des encres ferrogalliques : les risques liés à l'apport d'eau.» *Support Tracé*, 2009, n° 9, p. 90-100.

SEASON, Tse et al. «Effects of Aqueous treatments on 19th c. Iron gall Ink Documents: assessment using hyperspectral imaging.» *The Book and paper group annual* : vol. 28 /AIC. The Book and paper group annual, ed. Jim Hinz, Whitney Baker, Richard Homer, Orelia Dann, 2009, n° 28, p. 75-82.

TITUS, S. et al. «Stabilising local areas of loss in iron gall ink copy documents from the Savigny Estate.» In *Restaurator*, 2009, vol. 30, n°s 1 & 2, p. 16-50.

2008

ALBRO, S. et al. «Developing guidelines for Iron Gall Ink treatment at the Library of Congress.» In *AIC. The book and paper group*, vol. 27, 2008, p. 129-166.

COURAL, N. et al. «Conservation and digitization of the Lamberty manuscript: the problem of opacity induced by lining [Poster].» In ICOM-CC. Preprints (15 , New Delhi, 2008). 15th Triennial Conference New Delhi, 22-26 September 2008: preprints, p. 325.

DELKE, C., Haude, M. E. «Iron gall ink treatment at the Library of Congress : Old Manuscripts: new tools.» In *AIC. The book and paper group*, vol. 27, 2008, p. 15-26.

HAHN, O. «Influence of aqueous calcium phytate, calcium hydrogen carbonate treatment on the chemical composition of iron gall inks.» In *Restaurator*, 2008, vol. 29, n° 4, p. 235-250.

HUHSMANN, E., Hähner, U. «Work standard for the treatment of 18th and 19th century iron gall ink documents with calcium phytate and calcium hydrogen carbonate.» In *Restaurator*, 2008, vol. 29, n° 4, p. 274-318.

HENNIGES, U., Potthast, A. «Phytate treatment of metallo-gallate inks : investigation of its effectiveness on model and historic paper samples.» In *Restaurator*, 2008, vol. 29, n° 4, p. 219-234.

KOLAR, J. et al. «The Study of two humidification and flattening methods for albumen prints to determine their Impact on the Evolution of the Cracks in the Albumen layer.» In *Restaurator*, 2008, vol. 29, n° 3, p. 45-69.

KOLAR, J., Možir, A., Balažic, A., et al. (2008). «New Antioxidants for Treatment of Transition Metal Containing Inks and Pigments.» *Restaurator*, 29 (3), pp. 184-198. Retrieved 15 Nov. 2017, from doi:10.1515/rest.2008.013

LEE, A. S. et al. Identification of iron-gall inks with near-infrared Raman microspectroscopy. In *Journal of Raman spectroscopy*, 2008, vol. 39, no. 8, p. 1079-1084.

REISSLAND, B. «Preparation of 500 ml of 2 % of gelatine» [document électronique] : May 2007 /, 2 P. Document en ligne : < https://irongallink.org/images/file/pdf%207_gelatine%20solution_ok.pdf> [consulté le 16 janvier 2018]

ROUCHON, V. et al. «Iron gall ink aqueous treatments:

measurement of elemental changes by proton induced x-ray emission.» In *PapierRestaurierung: Mitteilungen der IADA* 9, 2008, no. 2, p. 18-28

ROUCHON, V. «La table ronde : de la théorie à la pratique.» In *Support tracé*, 2008, n° 8, p. 145-148.

ROUCHON, V. «La restauration des manuscrits comprenant des encres ferrogalliques : État de la recherche.» Présentation aux Journées du Patrimoine écrit, 25-26 septembre 2008. Pdf en ligne: <<http://www.patrimoineecrit.culture.gouv.fr/files/jpe/2008/rouchon.pdf>> [consulté le 16/01/2018]

ROUCHON, V. et al. «Possibilities and impossibilities of aqueous treatments performed on severely damaged manuscripts» [poster] / [Poster] In ICOM-CC. Preprints (New Delhi , 2008) 15th Triennial Conference New Delhi, 22-26 September 2008: preprints , p. 326.

TSE, S. and Waller, R. «Developing a risk assessment model for iron gall ink on paper.» In ICOM. CC. 15th triennial conference, New Delhi, 22-26 September 2008: preprints/ Bridgland, Janet (Editor). ICOM Committee for Conservation, 2008, p. 301-309

TITUS, S. et al. «Stabilising local areas of loss in iron gall ink copy documents from the Savigny Estate.» In *Restaurator*, 2008, vol. 30, n°s 1 & 2, p. 16-50.

2007

CSÉFALVAYOVÁ, L. et al. «The influence of iron gall ink on paper ageing ». In *Restaurator*, 2007, 28, no. 2, p. 129-139.

FAUBEL, W. et al. «Non-destructive analysis for the investigation of decomposition phenomena of historical manuscripts and prints» . In *Spectrochimica Acta Part B: Atomic Spectroscopy* , July 2007, Volume 62, Issues 6-7, p. 669-676.

HAVLÍNOVÁ, Bohuslava et al. «The influence of iron gall ink on paper ageing.» In *Restaurator*: 2007, vol. 28, n° 2, p. 129-139.

HUHSMANN, Enke & Hähner, Ulrike. «Work standard for the treatment of 18th and 19th century iron gall ink documents with calcium phytate and calcium hydrogen carbonate .» In *Restaurator*, 2007, vol. 29, n° 4, p. 274-318.

HUHSMANN, Enke ,Hähner, Ulrike. «Technical note : Application of the non-woven viscose fabric paraprint OL 60 for float screen washing of documents damaged by iron gall ink corrosion». In *Restaurator*, 2007, vol. 28, n°2, p. 140-151.

JAKUBÍKOVÁ, Z. «The influence of iron gall ink on paper ageing». In *Restaurator*, 2007, vol. 28, n°2 p. 129-139.

JANCOVICOVA, V., Ceppan, M., Havlinova, B., Rehakova, M., Jakubikova, Z. « Interactions in iron gall inks » in *Chemical Papers*, vol. 61, 2007, pp. 391-397.

KOLAR, J. et al. «Historical iron gall ink containing documents : Properties affecting their condition.» In *Analytica chimica acta*, 2006, n° 555, p. 167-174.

KOLAR, J. et al. «Stabilisation of iron gall ink : aqueous treatment with magnesium phytate.» In *e-Preservation*, 2007, n° 4, p. p. 19-24.

KOLAR, J. et al. «The conservation of historical documents carrying iron gall ink by antioxidants.» In *Restaurator*, 2007, vol. 28, n°2 p. 112-128.

LA CAMERA, D. «Crystal formations within iron gall ink: observations and analysis.» In *Journal of the American Institute for Conservation*, 2007, vol. 46, n° 2, p. 153-174.

MAITLAND, C. L. «Where archival and fine art conservation meet : antioxidant and deacidification treatments of corrosive copper watercolours and copper-containing iron gall inks.» Kingston, Ont. : Queen's University (Kingston, Ont.), 2007, 19 p.

ROGER, P., Barrandon, J.-N. «Étude technique d'encres de manuscrits du 12e siècle conservés à la bibliothèque de Troyes. In *Matériaux du livre médiéval : colloque du groupement de recherche 2836*», mercredi 7 et jeudi 8 novembre 2007, Brepols, 2010, p. 279-316.

SMITH, C. «George Washington's last will and testament: the manuscript and a pioneering restoration». In *Journal of the American Institute for Conservation*, Spring 2007, vol. 46, n°1, p. 1-14.

SMITH, C. George Washington's last will and testament: conservation and rehousing. In *Journal of the American Institute for Conservation*, Spring 2007, vol. 46, n°1, p. 15-26.

ROUCHON, V., B. Durocher, M. Letouzey, et S.T. Pallot. 2007. «Les traitements de restauration employés sur des manuscrits comportant des encres ferrogalliques. Partie 1/ examen visuel des phénomènes de migration provoqués par l'emploi d'eau». In *Actualités de la conservation*, n° 26 (janvier-décembre). http://multimedia.bnf.fr/actus_conservation/cn_act_num26_art1.htm. [Consulté le 9 janvier 2018]

VEST, M., Jacobsen J., Larsen R. «Accelerated ageing: effect of heat and relative humidity», Improved damage assessment of parchment (IDAP) : Assessment, data collection and sharing of knowledge, Research Report No.18, 2007, pp.67-68.