

Programme modulaire pour le nettoyage des polychromies

(Modular Cleaning Program MCP)

Session de formation permanente organisée par le département des restaurateurs

16, 17, 18 novembre 2016

Orientations bibliographiques réalisées par la bibliothèque de l'Inp

Tous les documents ci-dessous peuvent être consultés à la Bibliothèque de l'INP, à l'exception de ceux précédés d'un astérisque.

Les mémoires de fin d'études de l'Inp sont accessibles en ligne. Pour pouvoir les consulter, vous devez préalablement demander l'autorisation au service de la documentation des oeuvres par courrier électronique à documentation.oeuvres@inp.fr Un identifiant et un mot de passe personnels vous seront attribués.

BARTON, A.F.M. *CRC Handbook of Solubility Parameters and other Cohesion Parameters*, 1991, 2nd Edition. Boca Raton: CRC Press, LLC.

BLANK, S., and STAVROUDIS, C. "Solvents and Sensibility: Parts I-III: No Teas-ing". 1989 - *WAAC Newsletter* 11: 2. pp 2-10.

BURNSTOCK A., KIESLICH T., « A study of the clearance of solvent gels used for varnish removal from paintings », in *ICOM Committee for Conservation, 11th Triennial Meeting, Edinburgh, Scotland, 1-6 September*, Londres, James and James, 1996, p. 253-262

CARLSON J., PETERSEN W. C., « Aging characteristics of surfactants », in *Solvent gels for the cleaning of works of art, the residue question, Research in Conservation*, Los Angeles, The Getty Conservation Institute, 2004, p. 84-111

CARRETTI E., DEI L., WEISS R. G., BAGLIONI P., « A new class of gels for the conservation of painted surfaces », *Journal of Cultural Heritage*, Septembre-Décembre 2008, Vol. 9, n°4, p. 386-393

DESVOIS Laetitia, *Le Programme de Nettoyage Modulaire, une approche systématique de décroissage des couches picturales : étude, analyse et application de la méthode*, Paris, Université Paris I Panthéon Sorbonne, 2009, cédérom (107 p.)

DESVOIS Laetitia, CRIOLLO Andrea, « The modular cleaning program: An approach for treating oil stains on paper? », *Journal of Paper Conservation*, Vol. 14 (2013), n° 1, p. 16-20

DORMAN, N. "Conference Review: The Cleaning of Acrylic Paint Surfaces 3 London Workshop – A space-time continuum of pH and conductivity". *WAAC Newsletter*. 34:3, 2012, pp. 18-23.

EASTAUGH N., « The visual effects of dirt on paintings », in *Dirt and Pictures separated, Papers given at a conference held jointly by UKIC and the Tate Gallery, January 1990*, London, United Kingdom Institute for Conservation of Historic and Artistic Works (UKIC), 1990, p. 19-24

ERHARDT D., BISCHOFF J. J., « The role of various components of resin soaps, bile soaps and gels and their effect on oil paint films », *Studies in Conservation*, 1994, vol. 39, n°1, p. 3-27

FELLER, R. L., N. STOLLOW, and E. JONES. On Picture Varnishes and Their Solvents. Washington D.C.: National Gallery of Art, 1985.

FELLER, R. L. Solubility Parameters. *Bulletin of the American Group – The International Institute for Conservation of Historic and Artistic Works*. 8:2, 1968, 20-24.

FORD B., BYRNE A., « The lipid stripping potential of resin soap gels used for cleaning oil paintings » [en ligne], *AICCM Bulletin*, 1991, vol. 17, n° 1 et 2, p. 51-60
<http://www.academia.edu/996884/The_lipid_stripping_potential_of_resin_soap_gels_used_for_cleaning_oil_paintings> (consulté le 4 octobre 2016)

FUSTER LOPEZ L., CHAROLA A.E., MECKLENBURG Marion F., DOMÉNECH CARBO Maria Teresa, *Cleaning 2010 : New insights into the cleaning of paintings* : [conference preprints (abstracts), Universitat politècnica de Valencia, May 26th-28th 2010], Valencia, Universidad politècnica de Valencia, 2010, 108 p.

GRIMA A., KAKOULLI I., « Trial testing chelating agents and surfactants for the cleaning of unvarnished paint layers », in *Modern Art, New Museums, Contributions to the Bilbao Congress, 13 au 17 septembre 2004*, London, The International Institute for Conservation of Historic and Artistic Works, 2004, p. 227

HACKNEY, S., Townsend, J. and Eastaugh, N. 1990. *Dirt and Pictures Separated*. London: United Kingdom Institute for Conservation.

HANSEN, C.M. 2000. *Hansen Solubility Parameters: A User's Handbook*. Boca Raton: CRC Press, LLC.

HEDLEY, G. 1980. *Solubility Parameters and Varnish Removal: A Survey*". *The Conservator* 4:12-18.

HEDLEY G., ODLYHA M., BURNSTOCK A., TILLINGHAST JHUSBAND C., « A study of the mechanical and surface properties of oil paint films treated with organic solvents and water », in *Measured Opinions*, London, UKIC, 1993, p. 103-111

KANEGSBURG B., and KANEGSBURG E., *Handbook for Critical Cleaning*. Boca Raton: CRC Press, LLC, 2001.

KHANDEKAR N., « Detection of residues on the surfaces of museum objects previously cleaned with aqueous gels », in *Solvent Gels for the Cleaning of Works of Art, the Residue Question*, Los Angeles, The Getty Conservation Institute, 2004, p. 116-130

KHANDEKAR N., « Research into potential problems arising from the use of aqueous cleaning systems », in *Solvent Gels for the Cleaning of Works of Art, the Residue Question*, Los Angeles, The Getty Conservation Institute, 2004, p. 12-17

KHANDEKAR N., « A survey of the conservation literature relating to the development of aqueous gel cleaning on painted and varnished surfaces », in *Reviews in Conservation*, 2000, n°1, p. 10-20

KHANDEKAR N., « Gelled Systems: theory and early application, in *Solvent Gels for the Cleaning of Works of Art, the Residue Question*, Los Angeles, The Getty Conservation Institute, 2004, p. 5 -11

LEANER T and ORMSBY B., "Cleaning Concerns for Acrylic Emulsion Paints". *The Conservation of Easel Paintings*, Eds. Stoner, J.H. and Rushfield, R. UK: Routledge. 2012, pp. 564-570.

LEANER T., SMITHEN, P., KRUEGER, J., and SCHILLING, M.. *Modern Paints Uncovered: Proceedings from the Modern Paints Uncovered Symposium*. Los Angeles: Getty Publications, 2007.

LEANER T., *Analysis of Modern Paints*. Los Angeles: Getty Publications, 2004.

McGLINCHY C., Boundaries of the Teas Solubility Concept". *WAAC Newsletter* 24:2. 2002, p. 17-19.

MICHALSKI S., « A physical model of varnish removal from oil paint », in *Cleaning, Retouching, and Coatings. Technology and Practice for easel paintings and polychrome sculpture. Preprints of the Contributions to the Brussel Congress, 3-7 September*, London, International Institute for Conservation of Historic and Artistic Works, 1990, p. 85-93

ODEGARD N., CAROLL S., and ZIMMT W., "Chapter 2: Chemical Safety". *Material Characterization Tests for Objects of Art and Archeology*. London: Archetype Publications. 2000, p. 7-17.

PERRY R., « Problems of dirt accumulation and its removal from unvarnished paintings : a practical review », in *Dirt and Pictures separated, Papers given at a conference held jointly by UKIC and the Tate Gallery, January 1990*, London, United Kingdom Institute for Conservation of Historic and Artistic Works (UKIC), 1990, p. 3-7

PHENIX A., BURNSTOCK A., « The deposition of dirt : a review of the literature, with scanning electron microscope studies of dirt on selected paintings », in *Dirt and Pictures separated, Papers given at a conference held jointly by UKIC and the Tate Gallery, January 1990*, London, United Kingdom Institute for Conservation of Historic and Artistic Works (UKIC), 1990, p. 11-19

PHENIX A., BURNSTOCK A., « The removal of surface dirt on paintings with chelating agents », *The Conservator*, 1992, n° 16, p. 28-38

PHENIX A. and WOLBERS, R., "Removal of Varnish: Organic Solvents as Cleaning Agents". *The Conservation of Easel Paintings*, Eds. Stoner, J.H. and Rushfield, R. UK: Routledge. 2012, p. 524-554.

PHENIX A., The Swelling of Artists' Paints in Organic Solvents. Part I, A Simple method for measuring the in-plane swelling of unsupported paint films. *Journal of the American Institute for Conservation*: 43-60, 2002.

PHENIX A., The Swelling of Artists' Paints in Organic Solvents. Part I, Comparative swelling powers of selected organic solvents and solvent mixtures. *Journal of the American Institute for Conservation*: 61-90, 2002.

PHENIX A., Solubility Parameters and the Cleaning of Paintings: an update and review. *Kunsttechnologie Konservierung*. Heft 2, Jargang 12. 1998, p. 387-409.

or

BURKE J., "Solubility Parameters: Theory and Application". *The Book and Paper Annual*, 3. AIC. 1984, pp 13-58. (Also online: <http://cool.conservation-us.org/byauth/burke/solpar/>.)

PORE J., *Émulsions, micro-émulsions, émulsions multiples*, Neuilly, Éditions techniques des industries des corps gras, 1992

PUISIEUX F., SEILLER M., *Agents de surface et émulsions ; les systèmes dispersés*, Paris, Lavoisier, 1983, XXIV-591p. (Galenica 5)

STAVROUDIS C., DOHERTY T., and WOLBERS R., "A Novel Approach to Surface Cleaning: Using Mixtures of Concentrated Stock Solutions and a Database to Arrive at an Optimal Cleaning System". *Oberflächenreinigung: Material und Methoden (Surface Cleaning – Material and Methods)*, ed. Cornelia Weyer. Verband der Restauratoren e. V. (VDR). 2006, p. 68-81.

STAVROUDIS C., "Pemulen TR2 – The Once and Future King (of Conservation)", *WAAC Newsletter*, 36:2. 2014, p. 10-11.

STAVROUDIS C. and DOHERTY T., "The Modular Cleaning Program in Practice: Applications to Acrylic Paintings", *New Insights into the Cleaning of Paintings: Proceedings from the Cleaning 2000 Conference*, Ed. M.F. Mecklenburg et al. 2013.

STAVROUDIS C., "Carbopol Resins," "Formulation Guidelines for Carbopol Resins," *CM (Conservation Materials) Times*.

STAVROUDIS C., « Azeotropes from A to Z », *WAAC Newsletter*, 2006, vol. 28, n° 3, p. 14-17
<<http://cool.conservation-us.org/waac/wn/wn28/wn28-3/wn28-304.pdf>> (consulté le 4 octobre 2016)

STAVROUDIS C., « More from CAPS 3: surfactants, silicone-based solvents, and microemulsions », *WAAC Newsletter*, 2012, Vol. 34 n° 3, p. 24-27
<<http://cool.conservation-us.org/waac/wn/wn34/wn34-3/wn34-306.pdf>> (consulté le 4 octobre 2016)

STAVROUDIS C., « Pemulen Revised: pHuck the pH Meter », *WAAC Newsletter*, 2012, vol. 34, n° 2, p. 19
<<http://cool.conservation-us.org/waac/wn/wn34/wn34-2/wn34-206.pdf>> (consulté le 4 octobre 2016)

STAVROUDIS C., « Sorting Out Surfactants », *WAAC Newsletter*, 2009, vol. 31, n° 1, p. 18-21
<<http://cool.conservation-us.org/waac/wn/wn31/wn31-1/wn31-105.pdf>> (consulté le 4 octobre 2016)

STAVROUDIS C., « Using Pemulen with the MCP », *WAAC Newsletter*, 2010, vol. 32, n° 3, p. 16
<<http://cool.conservation-us.org/waac/wn/wn32/wn32-3/wn32-307.pdf>> (consulté le 4 octobre 2016)

STAVROUDIS C., DOHERTY T., « A Novel Approach to Cleaning II: Extending the modular cleaning program to solvent gels and free solvents, part 1 », *WAAC Newsletter*, 2007, vol. 29, n° 3, p. 9-15
<<http://cool.conservation-us.org/waac/wn/wn29/wn29-3/wn29-304.pdf>> (consulté le 4 octobre 2016)

STAVROUDIS C., DOHERTY T., WOLBERS Richard C., « A new approach to cleaning I: using mixtures of concentrated stock solutions and a database to arrive at an optimal aqueous cleaning system », *WAAC Newsletter*, 2005, vol. 27, n° 2, p. 17- 28
<<http://cool.conservation-us.org/waac/wn/wn27/wn27-2/wn27-205.pdf>> (consulté le 4 octobre 2016)

STULIK D., WOLBERS R., « Spin-offs, and future research needs », in *Solvent gels for the cleaning of works of art, the residue question*, Los Angeles, The Getty Conservation Institute, 2004, p. 131 - 144

STULIK D., KHANJIAN H., DORGE V., DE TAGLE A., « Scientific investigation of surface cleaning processes : quantitative study of gel residue on porous and topographically complex surfaces », in *ICOM, 13th Meeting, Rio de Janeiro, 22-27 septembre 2002*, Hobbs, U.K., 1992, p. 245-251

STULIK D., MILLER D., KHANJIAN H., WOLBERS R., CARLSON J., PETERSEN W., and DORGE V., "Project Outcomes, Spin-offs, and Future Research Needs". *Solvent Gels for the Cleaning of Works of Art: The Residue Question*. Los Angeles: Getty Publications, 2004.

TSANG, J., and ERHARDT, D., "Current Research on the Effects of Solvents and Gelled and Aqueous Cleaning Systems on Oil Paint Films". *Journal of the American Institute for Conservation*. 31:1, 1992, p. 87-94.

WOLBERS Richard C., « Notes for workshop on new methods in the cleaning of painting prepared by Richard C. Wolbers with Nanette T. Sherman and C. Stavroudis », in *Stage animé par M. R. Wolbers assisté de Mme G. Guillaume-Chavannes, 17-29 juin 1991*, Paris, ARAAFU, 1991

WOLBERS Richard C., « Recent developments in the use of gel formulations for the cleaning of paintings », in *Restoration '92: Conservation, training, materials and techniques : latest developments. Preprints to the Conference held at the RAI International Exhibition and Congress Centre, Amsterdam, 20-22 octobre 1992*, London, UKIC, 1992, p. 74-75

WOLBERS Richard C., « The use of a synthetic soiling mixture as a means for evaluating the efficacy of aqueous cleaning materials on painted surfaces », in *Conservation-Restauration des Biens Culturels (CRBC)*, Octobre 1992, n°4, p. 22- 29

WOLBERS Richard C., STAVROUDIS Chris, DOHERTY Tiarna, « A new approach to cleaning: using mixtures of concentrated stock solutions and a database to arrive at an optimal aqueous cleaning system », *WAAC newsletter*, 2005, Vol. 27, N° 2, p. 17-28.

WOLBERS R. and STAVROUDIS C., "Aqueous Methods for the Cleaning of Paintings". *The Conservation of Easel Paintings*, Eds. Stoner, J.H. and Rushfield, R. UK: Routledge. 2012, p. 500-523.

WOLBERS R. and STAVROUDIS C., "The Cleaning of Paintings". Eds. Kanegsberg, B., and Kanegsberg, E. *Handbook for Critical Cleaning 2nd Ed.: Applications, Processes and Controls*. Boca Raton: CRC Press, LLC, 2011.

WOLBERS R., *Cleaning painted surfaces, Aqueous methods*, London, Archetype Publications, 2000, 198 p. Trad. it. [*La Pulitura di superfici dipinte : metodi acquosi*], Saonara, Il Prato, 2005. Trad. fr. [*Le nettoyage des surfaces peintes : méthodes aqueuses*] MIRABAUD Sigrid, DESVOIS Laetitia sous la direction de PALMADE-LE DANTEC Nathalie, Paris, Eyrolles / Institut national du patrimoine (Inp), 2013.

WYPYCH G., *Handbook of Solvents*. Toronto: ChemTech Publishing, ed. 2001.

Vidéos

Getty Conservation Institute videos prepared for the Cleaning Acrylic Paint Surfaces (CAPS) workshops :

Calibrating Conventional pH Meters

<https://www.youtube.com/watch?v=9Ktlz0uw6kw>

Calibrating pH and Conductivity: Horiba Meters

https://www.youtube.com/watch?v=_nx3gNnKsUE

Preparing pH- and Conductivity- Adjusted Water

<https://www.youtube.com/watch?v=hGAUAgNYZjl>

Preparing a Pemulen Gel from MCP and Making an Emulsion

<https://www.youtube.com/watch?v=2O5pYyc45Qo>

Making Agarose Gel and Preparing an Agarose Plug

<https://www.youtube.com/watch?v=SX4n2DO6Lao>

Measuring Surface pH and Conductivity Using Water Drop and Agarose Plug Methods

<https://www.youtube.com/watch?v=bOqZEE7Kb8Y>

Mixing and Using Velvessil Plus

<https://www.youtube.com/watch?v=i6cet8sa-6Y>

Preparing a Dow Mineral Spirits Microemulsion (With Cosurfactants)

<https://www.youtube.com/watch?v=SGkf3i7rnDw>

Preparing a Silicone Microemulsion (With Cosurfactant) – [without cosurfactant]

<https://www.youtube.com/watch?v=xDpwloLqJS4>

Droits d'auteur

© Institut national du patrimoine
