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Agnès Gall-Ortlík

**A Concise Bibliography on the
Technology, Deterioration and
Conservation of Enamels on Metal**

Contents

7

Preface ↘ Agnès Gall-Ortlík

8

Foreword ↘ Pau Maynés

10

Introduction

13

List of abbreviations

14

**Recipes, Manuals
and Enamelling Treatises**

15

Technology

30

Defects and Deterioration

35

Conservation

56

Authors' Index

60

Subjects Index

64

Impressum

Preface to the 2018 3rd edition

This new version of the enamel bibliography has been edited on the occasion of the 7th ICOM-CC Experts' meeting on enamel on metal conservation held in Germany at the State Academy of Art and Design Stuttgart, June 7-8 2018. With the addition of 109 new references it has grown to 436 references since the last publication in 2010. The style of the references has not changed very much, even if the international conventions and in particular ICOM have evolved. The extended abstracts published on the occasion of the ICOM-CC ENAMEL network meetings has contributed significantly to this increase, as well as the addition of students' thesis from France, Germany and Italy. Since 2010, one of the most important references to have been added is the book by Isabelle Biron, conservation scientist working at the Centre de Recherche et de Restauration des Musées de France (C2RMF) in Paris. In 2015 she published the sum of more than twenty years of research on enamels of all kinds and periods, a project completed with collaboration of some of the top French experts.

I would like to thank all the colleagues who have sent me new articles and references during these years, to « feed the beast » and in particular Goran Budija for his never ending perseverance in sending internet references and Gerhard Eggert for having insisted on publishing this updated version of the bibliography before 2020 and to welcome it in the publication of the 2018 ENAMEL meeting.

Let the passion for enamels on metal keep shining brilliantly.

Agnès Gall-Ortlik

Foreword to the 2010 edition

The bibliography you are about to use is a comprehensive list of references related to the field of enamel on metal conservation. It is an outstanding materials science resource for a conservator interested in studying the history, the making, the deterioration and the conservation of enamels. It has been gathered as a natural consequence of her practice by Agnès Gall-Ortlík (Paris, France, 1972), conservator specialised in glass, ceramic and enamel on metal conservation.

Originally home-printed in 2001 and distributed to a limited number of colleagues, this list of references has grown during this last decade and is now presented in book form with the aim to become a daily reference for conservators, historians and scientists. It is also offered to the professional community through the webpage of the ICOM-CC Glass and Ceramics group.

From 171 articles and books listed in 2001, the total number has grown to 327 references in this 2010 edition. The information is organised in four different chapters and inside each one the references are listed chronologically.

Recipes, manuals and treatises includes now 22 references, going from a 9th century manual to the recent book by the Catalan master in the art of enamelling Andreu Vilasís. The chapter *Technology* gathers 115 references from 1872 to 2010, giving information on different enamelling techniques and examination, datation and authentication methods. *Defects and deterioration* is a compilation of 28 articles for those interested in the cracking, weathering, corrosion or other degradation phenomena affecting glass and metals, published between 1931 and 2008. In the chapter *Conservation*, the professional studios will find a total of 190 references on case studies and conservation and restoration practices going back to 1866. The *Author's Index* allows to find the reference you are looking for in case that you want to check a known author. Finally, the *Subject's Index*, presents a crossreferenced list of subjects.

Agnès Gall-Ortlík has been actively involved in the ICOM-CC Enamel network and has collaborated in the organisation of Expert's meetings as a strategy to promote the creation of an international network. Professor Gerhard Eggert, Béatrice Beillard, Isabelle Biron, Terry Drayman-Weisser and Véronique Notin, as well as other experienced conservators and colleagues, have stimulated her curiosity and determination to contribute to that network. As a consequence, Agnès is today offering to the community this new working tool.

Finally, all bibliographers know that time passing, once published, their list of references becomes very soon incomplete, sometimes obsolete. For this reason, the readers who have information that could be added to this work and wish to complete the exchange started by Agnès, please do not hesitate to contact her through the Enamel group network. You will be contributing to the next edition of this useful bibliography.

Pau Maynés

Introduction to the 2010 edition

This bibliography, presented at the Frick Collection during the 3rd Expert's Meeting on Enamel on Metal Conservation, is an updated version of a bibliography first edited in June 2001. It is a compilation of 327 references related to the technology, deterioration and conservation of enamels on metal.

This reference book is the result of my personal experience : while carrying out the conservation treatment of two enamels on metal in 1999, I realised that it was hard to find information related to this field, because there are very few articles dealing with enamels conservation and they are often scattered in sources that are not directly connected to the conservation world (manuals, industrial magazines, art publications, congresses, etc.).

This bibliography is mainly addressed to objects' conservators who need information about enamels on metal. It contains only published sources and excludes classical literature on the conservation of glass and metal, because it is considered already known by the reader. The emphasis is in conservation, but the compilation approaches also the technology and the deterioration of these composite objects. Although there is a lot of articles on the history and technology of enamels, only the most useful for a conservator have been selected here.

I took advantage of a one year scholarship at the Corning Museum of Glass in 2001 and one year of fellowship at the Villa Medici in Rome in 2007 to collect most of the references presented in this bibliography.

The principal sources consulted during my research were the Art Index¹, the Art and Archaeology Technical Abstracts², the Repertory of the Literary of Art³, the Bibliography of the History of Art⁴ and the bibliography of J. Tudor⁵. The libraries I originally used were those of the *Institut de Formation des Restaurateurs d'Oeuvres d'Art* (IFROA, Paris) and the Rakow Library (Corning, NY). For this new 2010 edition, I completed the research working at the library of the International Centre for the Study of the Preservation and Restoration of Cultural Property (ICCROM, Rome).

The bibliographic quotation form was hard to choose, as conservation field is at the crossroads of sciences and humanities. There are, moreover, many variations between published works, not to mention the differences between English and French systems. The system finally adopted for the references is the following:

- for books: Author name, *Title*, Town: Publisher, date.
- for articles: Author name, "Title" in *Periodical Title*, volume, number, date, pages.
- for exhibitions: *Title*, Museum, Town, date, pages.

There are references in English, German, French, Spanish and Italian. I found very few references in Dutch, Russian, Polish, Chinese, and none in Arabic or Japanese. This doesn't mean they don't exist, but they are hardly within the reach of the occidental researcher.

The references are organized chronologically in four major themes:

- *Historical manuals*: this category lists written sources for enameling technology lacking a critical contemporary point of view. The list is not comprehensive and contains the works more often cited in reference material or those useful for a certain century.
- *Technology*: comprises information about the different enameling techniques, analysis and composition.
- *Defects and deterioration*: also includes the manufacture defects cited in manuals and deterioration processes.
- *Conservation*: all publications related to conservation care and treatments of enamels (preventive conservation, remedial conservation and restoration). References that mention old repairs have also been taken in account.

Authors and subjects indexes at the end allow other thematic searches.

In comparison with the 2001 version, this new one has been enriched with 156 references. The Enamel group has significantly contributed to increase the number of references by making available through the ICOM-CC webpage the abstracts of the papers presented during the Expert's meetings since 2008. Italian authors are now better represented (a lot of papers were missed the first time, because they were difficult to reach). Theses, even if not published work, have been also added (one Italian and one Spanish). Moreover internet has greatly evolved in this last decade: in 2001, while looking for enamel conservation resources on the web, I noted that I just found one reference! In 2010,

numerous and valuable information can be found, like translated papers from rare languages or digitized antique books (as the *Bulletins de la Société scientifique, historique et archéologique de la Corrèze*, found on Google Books). This way of collecting resources will need to be seriously taken in account for the next edition of this bibliography.

Finally, I would like also here to thank all the people who, by helping me in many ways, took part in the elaboration of this bibliography and without whom this work would not have been possible: above all, the devoted librarians of the *Rakow*, IFROA and ICCROM libraries, as well as Pau, Lisa and Steve. I also would like to express my gratitude for the support given by the French *Ministère des Affaires Etrangères*, with a Lavoisier grant, as well as the French *Ministère de la Culture*, for a fellowship at the Villa Medici.

↘ *Art Index*, New York, NY: The H.W.Wilson Company, 1929-1994.

↘ AATA, London: IIC, 1967-1999.

↘ RILA, New York, NY: Volt Information Services, 1975-1989.

↘ BHA, Vandoeuvre-les-Nancy: Centre National de la Recherche Scientifique, Santa Monica: The J. Paul Getty Trust, 1991-1999.

↘ Tudor (J.), *Vitreous Enamels. A Bibliography of Processes, Objects and Enamelists*, Edgewood, WA: Jane Tudor, 1994.

List of abbreviations

AIHV

Association Interntionale pour l'Histoire du Verre

APROA-BRK

Association Professionnelle de Conservateurs-Restaurateurs d'Oeuvres d'Art - Beroepsvereniging voor Conservators-Restaurateurs van Kunstvoorwerpen

C2RMF

Centre de Recherche et de Restauration des Musées de France

CIMTEC

World Ceramic Congress and Forum on New Materials

Cf.

confer = see

ConsDistList

Conservation Dist List

ed.

editor / edition

EMCN

Enamel on Metal Conservation Network (became the Enamel group)

IAPH

Instituto Andaluz del Patrimonio Histórico

ICOM-CC

International Council of Museums - Committee for Conservation

Inp.

Institut national du patrimoine

IRPA

Institut Royal du Patrimoine Artistique

JAIC

Journal of the American Institute of Conservation

n.e.

no editor

n.p.

no page

n.t.

no town of edition

OPD

Opificio delle Pietre Dure

print

printed

SFIIC

Section Française de l'Institut International de Conservation

UKIC

United Kingdom Institute for Conservation

sept.

September

tr.

translation

V&A

Victoria and Albert Museum

WG

Working Group

Recipes, Manuals and Enamelling Treatises

<9th century

1. *Mappae clavicula*. Cf. English tr. by Smith (C.S.), Hawthorne (J.G.), Philadelphia: American Philosophical Society, 1974.

12th century

2. Eraclius, *De coloribus et artibus romanorum*. Cf. the English tr. by Merrifield (M.P.), *Original Treatises on the Art of Painting*, 1849, New York, NY: Dover, 1967 ed.

12th century

3. Theophilus, *De diversis artibus*. Essentially Book III in the English tr. and ed. by Dodwell (C.R.), Oxford, 1986 (2nd ed.).

16th century

4. Cellini (B.), *I trattati dell'orificeria e della scultura*, Firenze, 1568, Milano: L. De-Mauri, 1927, p. 32-43.

17th century

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18th century

6. Bourguet (J.), *Sur la taille d'épargne en esmail*, 1723.

18th century

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18th century

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19th century

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19th century

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19th century

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19th century

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19th century

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19th century

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20th century

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20th century

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20th century

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20th century

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20th century

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20th century

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Authors' Index

Aceto (M.) 157, 171
Adam (K.) 118, 199, 210
Agnini (E.) 368
Agnoletti (S.) 263
Agostino (A.) 157, 171
Aiken (C.) 319
Aitken (G.) 102
Alcayde (M.J.) 402
Alcouffe (D.) 255
Aldinger (R.) 236
Alembert (d') 7
Andrews (A.I.) 15
Andrianova (O.) 428
Angermann (C.) 201
Antoine (E.) 168
Anwar Mohamed (W.) 399

Baatz (W.) 200, 201
Bagault (D.) 159
Baglioni (R.) 301
Bahezre (C.) 81, 290
Bailey (G.) 173
Baratte (S.) 205, 325
Barbe (F.) 172, 187, 391, 425
Barbier (B.) 165
Barbour (D.S.) 86
Basamakov (K.) 149
Basile (G.) 274, 278, 286
Bateson (J.D.) 33
Bauer (W.) 59, 269
Beauchoux (S.) 134
Becker (L.) 91
Becker (M.) 188
Beillard (B.) 133, 135, 172, 197, 325, 335, 369, 392, 419, 425

Belassene (M.) 209
Bellegem (M. van) 370, 393
Bennekom van (J.) 225
Benjamin (S.) 44
Bernardt (R.) 320
Berrie (B.) 285, 292
Bertelà (G.G.) 264
Beuckeleer de (L.) 216
Beyssi-Cassan (M.) 148
Bimbenet-Privat (M.) 122
Bézières (C.) 426
Bimson (M.) 36, 45, 52
Biron (I.) 99, 100, 101, 102, 103, 107, 112, 113, 114, 115, 117, 124, 128, 134, 136, 137, 140, 152, 156, 158, 159, 172, 181, 187, 202, 203, 205, 206, 208, 209, 308, 326, 371, 379
Biskulova (S.) 428
Blanc (M.) 158
Bolognesi (P.) 37
Borel (T.) 113, 115, 159, 308, 326
Bossiere (G.) 197
Bourgeois (L.) 152
Bourguet (J.) 6
Bowman (S.G.E.) 77, 106
Brinker (H.) 73
Bronk (H.) 118, 119, 125, 127, 130, 131
Brun (N.) 82
Buckton (D.) 38, 61
Bulliot (M.) 25
Burgalassi (G.) 272
Bushell (S.W.) 26
Butcher (S.A.) 34

Calcutt (L.) 363
Cagnini (A.) 274
Callori (F.) 178, 184, 217
Campbell (M.) 348, 349
Carlson (J.H.) 46, 108, 162
Carpenter (W.W.) 196
Casado (I.) 39, 40, 41, 47, 48, 49, 53, 54, 55, 56, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71
Casazza (O.) 333
Caselli (L.) 187
Castele van der (E.) 216
CastroNovo (S.) 157
Caudron (S.) 309
Cavalca (N.) 178
Cellini 4
Cerruti Garlanda (A.) 171
Chalet (V.) 83
Chancel -Bardelot (B. de) 326
Cheung (C.S.) 435
Chisholm (R.) 410
Chu (A.& G.) 251
Clark (A.) 300, 301
Coben (L.A.) 42
Collareta (M.) 264
Collura (D.) 271, 351, 352
Colomban (P.) 153, 161
Cordera (P.) 372
Cornini (G.) 348, 349
Cosgrove (M.G.) 250
Creange (S.) 225
Crevat (S.) 327
Cunynghame (H.) 9

Dandridge (P.) 84, 100, 101, 103, 137
David (F.) 360
Day (J.) 403, 404

Dey (A.) 274
Diderot (D.) 7
Didier (R.) 247
Diestelberger (R.) 122
Dietzel (A.) 192
Di Fina (J.) 341
Dimitriev (Y.) 149
Dodwell (C.R.) 3
Dolcini (L.) 272, 275, 277, 287
Dolezel (P.) 59
Doran (J.) 92
Dove (S.) 187
Drayman-Weisser (T.) 342, 350
Driesmans (D.) 305
Drilhon (F.) 57

Ebert (K.) 328
Efanova (S.R.) 359
Eggert (G.) 215, 219, 223, 373
Engeman-Wendt (C.) 321
England (P.) 72
Eracius 2
Erlande -Brandenburg (A.) 133
Espinola (V.B.) 280
Eudel (P.) 228
Euler (H.) 165
Eveno (M.) 198

Faranda (F.) 281
Farris (D.) 75
Fecht (M.) 93
Fekete (L.) 259
Fenoglio (G.) 171
Fernández -Bolaños (M.P.) 226
Ferrand (J.P.) 8
Ferrazza (L.) 412

Ferretti (M.) 174
Ferster (D.C.) 38
Fesenko (O.) 428
Fiorentino (P.) 286, 314, 334, 364
Fischer (A.) 219, 223, 224
Fisher (P.) 282
Flores Madrona (L.) 310, 412, 427
Fontaine -Hodiamont (C.) 261
Fontana (M.) 365
Forwith (J.H.) 239
François (G.) 309
Franz (M.) 138
Freedman (D.) 311
Freestone (I.C.) 45, 77, 85, 87, 106, 121, 357
Fromageot (D.) 198

Gaborit-Chopin (D.) 43, 168
Gabriel (C.) 413
Gai (L.) 267
Gairola (T.R.) 240
Galeotti (M.) 178, 184
Gail-Ortlík (A.) 329, 330, 335, 394, 425
Galli (P.) 351, 352
Gamarra (C.) 225
Gänsicke (S.) 179
Garner (H.) 28
Gauthier (M.M.) 31, 168, 248
Gavrilov (D.) 435
Gedam (P.H.) 50
Genachte-Le Bail (A.) 430
Germain-Bonne (D.) 202, 203, 206
Geymet 10
Gharib (A.) 415
Gimeno (D.) 402
Giulietti (S.) 226
Giusti (L.) 376
Gonet (S.) 388

González (V.) 94
Gorman (L.) 374
Grant (J.) 312
Grasserbauer (M.) 59
Greenacre (M.) 199
Greiner-Wronowa (E.) 219
Grieb (H.) 139
Griesser (M.) 375
Grimaldi (F.) 378
Grotz (G.) 253

Haiden (J.) 201
Hansen (J.E.) 16
Hart (L.B.) 190
Hawthorne (J.G.) 1
Hayward (J.) 29
Hedges (R.E.M.) 33
Heinrich (P.) 336
Heinz Frischat (G.) 213
 Helfenstein (E.) 185
Hellmold (P.) 213
Henau (P. de) 261
Henderson (J.) 74, 78, 79, 80
Henry (F.) 27
Herráez Martín (M.I.) 288, 337, 405, 423
Hidvégi (E.) 259
Higgott (S.) 140, 169, 183
Hložek (M.) 185
Hopke (P.K.) 75
Hospital (A.) 326
Houbraken (J. & R.) 406
Hreglich (S.) 276
Hubert (M.-O.) 331
Huertas (J.) 402
Hughes (M.J.) 273
Hustedt-Martens (E.) 215
Huynh (C.) 430

Ingenday Rodio (M.) 228
Innocenti (C.) 367

Jann (O.) 212
Janssens (K.) 216
Johnson Gallante (D.) 160
Jordan (F.) 353, 389, 414
Jülch (T.) 176

Kashchieval (E.) 149
Kay Fall (F.) 245
Kirmızı (B.) 161
Kirov (R.) 149
Köcher (C.) 118, 199, 322
Komoróczy (B.) 186
Kraaijveld (T.B.) 193
Kreuter (J.C.) 193
Kruschke (D.) 199, 210, 320, 322
Kugel (A.) 122
Kugler (U.) 343
Kurovets (O.) 416, 428
Kurz (O.) 249
Kusko (B.) 198

Lafitte (A.) 430, 434
Lahanier (C.) 43, 51, 102, 198
Lambacher (L.) 176
Landgrebe (B.) 262
La Niece (S.) 52, 88, 154, 159, 162, 164, 167, 393
Lankester (P.) 410
Lechat (A.) 305
Lees (R.) 167
Leone de Castris (P.) 376
Leonardi (T.) 171
Leoni (M.) 275
Liang (H.) 435

Lindegger (H.L.) 239
Linden vand der (V.) 216
Ling (D.) 377, 429
Liscia Bemporad (D.) 109
Liu (L-Y) 256
Lomartire (S.) 171
Loeper-Attia (M.A.) 430
López Ribalta (N.) 17
Lucas (A.) 230, 233
Lück (D.) 199
Lutz (A.) 73
Luxford (N.) 360

Mäder (M.) 210
McLeod (B.) 162
Madkour (F.S.) 415
Maes (L.) 247, 261
Maev (R.G.) 435
Magee (C.E.) 315
Magnier (M.D.) 11
Maguire (H.) 75
Manganali del Fà (C.) 275
Marabelli (M.) 276
Marcheix (M.) 195
Mariani (B.) 344
Maryon (H.) 18
Masschelein -Kleiner (L.) 247
Mathieu (S.) 305
Matte (C. di) 257
Matthews (G.L.) 19
Mattielo (C.) 293, 354, 355, 378
McLeod (B.) 370
Meek (A.) 429
Mengoni (L.E.) 180
Merkel (E.) 354, 355, 378
Merrifield (M.P.) 2
Meyer (A.) 12
Meyer (O.& N.) 76

Miazzo (L.)
 400
Michaels (P.E.)
 242
Millenet (L.E.)
 20
Mills (J.M.)
 243
Mitstewicz (A.)
 417, 431
Molina (A.)
 402
Molinier (E.)
 13
Moncrieff (A.)
 252
Morel (D.)
 113
Morigi (G.)
 264, 376
Mottner (P.)
 380
Müller (J.)
 119
Müller (W.)
 118, 199, 210, 296,
 316, 321, 322
Müsch (I.)
 338

Navarro (J.)
 155, 220, 366, 381
Navarro (P.)
 407
Navarro Gascón (J.V.)
 423
Navarro-Pérez (M.P.)
 302
Neelmeijer (C.)
 210
Neri (Padre A.)
 5
Netzer (S.)
 317
Neuner (M.)
 331
Newman (R.M.)
 179, 196
Nightingale (C.)
 418
Nikiforov (A.)
 59
Norris (D.)
 424
Notin (V.)
 163, 175, 382, 396,
 419
Nouvel (O.)
 162

Obst (W.)
 232
Oddy (W.A.)
 52
Odom (A.)
 104
Oel (H.J.O.)
 192
Ogden (J.)
 96
Otnes (O.)
 331

Pacey (N.R.)
 89
Painter (K.)
 30
Pájer (K.)
 270
Palau (D.)
 356
Pallechi (P.)
 225
Pape (W.)
 176
Parrott (M.)
 268
Pasch (A.)
 408
Pascual i Miró (E.)
 17
Pérez y Jorba (M.)
 81, 291
Pernot (M.)
 82
Pestelli (T.)
 306
Philippon (J.)
 197
Piasecka (A.)
 432
Pichler (B.)
 59
Pierí (G.)
 225
Pilz (M.)
 204, 207, 212, 322,
 323
Plenderleith (H.J.)
 234, 238
Podgórski (A.)
 432
Polese (C.)
 174
Popelin (C.)
 14
Porcinai (S.)
 178, 184, 217
Pourzargham (M.)
 433
Pugés (M.)
 402
Pretzel (B.)
 221
Puras Higuera (J.)
 401

Quette (B.)
 107, 115, 153, 170,
 430

Rajchel (B.)
 219
Ramonedá (J.M.)
 356
Randau (P.)
 21
Richard (M.)
 230
Richter (R.W.)
 96, 111, 141, 211,
 324, 339
Rico Camps (D.)
 332
Rigoni (C.)
 293

Rinaldi (S.)
 278
Ris-Paquot
 226
Röhrs (S.)
 130, 131, 142, 143,
 144, 154, 156, 159,
 162, 164, 167, 176,
 370, 379, 393
Roldán Garcia (C.)
 174
Römich (H.)
 322
Rommelueire (M.)
 81, 290
Ross (M.C.)
 235
Rossetti (L.)
 361

Sabatini (I.)
 174
Sampatakumaran (P.S.)
 50
Santamarina (B.)
 407
Santopadre (P.)
 276, 364, 383
Savage (G.)
 241, 246
Sax (M.)
 30
Schmitz (I.)
 200, 201, 299, 300
Schorsch (D.)
 91
Schneider (F.T.)
 165, 177, 182
Schott (F.L.)
 283, 289, 297, 303
Schreiner (M.)
 200, 201, 214, 299,
 300
Schwahn (B.)
 166, 215, 409, 420,
 421
Schweizer (F.)
 97
Scott (A.)
 229, 231
Shearman (F.)
 429
Simon (J.)
 32
Simpson (A.)
 154
Siefarska (K.)
 422
Slesinsky (W.)
 279
Smith (C.S.)
 1
Smith (R.)
 196
Smith Mc Nally (R.)
 304
Snickt van der (G.)
 216
Sosson (J.-P.)
 247
Speel (E.)
 116, 120, 126, 127,
 129, 132, 145, 313,
 340
Spiazzi (A.M.)
 294

Stapleton (C.P.)
 77, 88, 121
Stege (H.)
 143, 144, 156, 379
Steingraber (E.)
 237
Stratford (N.)
 90
Studer (J.)
 222, 397
Sturman (S.)
 86, 285, 292
Stürzebecher (M.)
 408

Taburet-Delahaye (E.)
 112
Tait (H.)
 146, 318, 357
Tate (J.)
 167
Theophilus
 3
Thiaucourt
 227
Thickett (D.)
 219, 221, 360, 397,
 410, 435
Thiers (M.)
 22
Thomas (M.S.)
 216
Thomas -Goorieckx (D.)
 247
Thornton (D.)
 429
Thurre (D.)
 110
Tkachukova (G.V.)
 254
Tomaszewska (A.)
 411
Tomaszewska-Szewczyk (A.)
 411, 432
Torge (M.)
 212
Tregear (M.)
 74
Travisani (F.)
 345
Troalen (L.)
 167
Trocélier (P.)
 202, 203, 206
Trojek (T.)
 186
Troll (C.)
 204, 207, 322
Tsaneva (S.)
 149
Twilley (J.)
 98
Twydye (J.)
 435

Untracht (O.)
 23

Valle y Díaz (F. del)
 284
Vendl (A.)
 59
Verhaar (G.)
 225
Verità (M.)
 178, 217, 276, 364,
 383
Viegas
Wesolowska (C.)
 362, 384, 390, 398,
 422, 431
Vielhaber (L.)
 189
Vigliano (M.G.)
 32
Vilasís (A.)
 24

Wagner (M.)
 213
Watts (S.)
 295
Weimer (G.)
 194
Werner (A.E.)
 244
Widauer (L.)
 59
Will (P.)
 298
Williams (J.L.)
 91
Williams (W.S.)
 75
Wollmann (A.)
 215
Wood (N.)
 74
Wouters (L.)
 105
Wratil (J.)
 60
Wyman (C.)
 385
Wypyski (M.T.)
 84, 91, 100, 101,
 103, 111, 114, 123,
 137, 147, 150, 151,
 386, 436
Wyss (M.)
 76

Yanagishita (M.)
 184, 217, 307, 387

Zamora-Campos (B.)
 200, 201, 299, 300,
 346
Zimmermann (G.)
 408
Zinnkann (H.)
 358
Zurlo (R.)
 347

Subjects Index

Ancient repairs

13, 20, 24, 29, 76, 95, 96, 98, 129, 133, 166, 173, 220, 226, 228, 230, 233, 235, 237, 239, 242, 247, 248, 253, 255, 260, 282, 283, 288, 303, 310, 313, 314, 317, 318, 325, 326, 329, 330, 332, 335, 338, 343, 345, 346, 348, 357, 358, 363, 367, 369, 372, 376, 377, 378, 384, 389, 392, 395, 405, 406, 407, 409, 412, 416, 419, 420, 421, 423, 424, 425, 429, 431, 434.

Composition

33, 45, 46, 52, 75, 77, 78, 79, 82, 84, 85, 86, 88, 89, 91, 97, 98, 103, 106, 112, 113, 114, 115, 116, 117, 119, 123, 124, 125, 128, 130, 131, 134, 136, 137, 138, 139, 140, 141, 142, 143, 144, 147, 149, 150, 151, 152, 153, 154, 156, 157, 158, 159, 160, 161, 166, 164, 169, 171, 173, 174, 176, 178, 181, 184, 186, 187, 196, 205, 206, 207, 214, 215, 218, 219, 220, 223, 224, 225, 261, 270, 307, 316, 319, 323, 326, 341, 342, 348, 350, 357, 363, 370, 371, 373, 375, 379, 380, 384, 387, 399, 401, 402, 405, 409, 415, 421, 423, 426, 427, 428, 429, 430, 433, 434, 436.

Copies

44, 93, 96, 110, 122, 147, 153, 157, 158, 160, 162, 228, 255, 319, 359, 372, 379, 386, 416, 428.

Conservation

58, 226, 245, 257, 263, 330, 335, 353, 367, 382, 400.

Cleaning

133, 166, 184, 220, 230, 233, 234, 240, 242, 243, 244, 246, 247, 250, 252, 253, 254, 256, 258, 259, 261, 264, 265, 266, 268, 269, 271, 274, 276, 277, 278, 281, 282, 286, 287, 288, 291, 293, 294, 295, 298, 303, 304, 305, 307, 310, 314, 325, 326, 327, 329, 331, 333, 334, 337, 341, 342, 344, 346, 347, 348, 349, 350, 351, 352, 354, 355, 356, 359, 368, 376, 377, 384, 388, 389, 392, 399, 401, 402, 405, 406, 412, 415, 417, 418, 422, 423, 425, 426, 427, 430, 433, 434.

Consolidation

184, 220, 217, 229, 230, 237, 238, 243, 252, 258, 262, 264, 265, 266, 268, 274, 277, 282, 283, 286, 287, 288, 289, 291, 293, 295, 297, 303, 304, 305, 307, 314, 316, 320, 323, 324, 327, 333, 334, 336, 337, 339, 343, 346, 347, 348, 362, 368, 371, 375, 376, 380, 389, 390, 392, 405, 411, 417, 418, 422, 423, 427, 433, 434.

Joining

234, 240, 252, 253, 258, 261, 271, 281, 290, 295, 304, 314, 329, 316.

Protection

173, 217, 220, 229, 230, 240, 252, 258, 259, 264, 271, 277, 278, 288, 294, 333, 336, 337, 342, 346, 348, 349, 376, 392, 401, 412, 417, 422, 423, 427, 433.

Reaffixing

133, 230, 233, 234, 237, 246, 261, 264, 268, 281, 293, 297, 305, 310, 368, 412.

Soldering

227, 235, 304, 365, 406.

Stabilization

133, 173, 220, 229, 231, 258, 260, 264, 265, 277, 278, 294, 310, 329, 337, 342, 349, 350, 351, 352, 354, 355, 362, 376, 384, 388, 390, 401, 412, 417, 422.

Defects

15, 16, 19, 20, 22, 116, 173, 181, 188, 189, 190, 101, 194, 232, 400, 424.

Deterioration

24, 25, 49, 50, 58, 133, 141, 166, 173, 181, 184, 188, 225, 229, 230, 231, 233, 234, 238, 242, 244, 245, 250, 254, 256, 252, 258, 259, 260, 261, 263, 264, 266, 267, 268, 271, 274, 276, 277, 278, 280, 282, 285, 286, 288, 290, 294, 295, 296, 299, 300, 301, 303, 305, 306, 307, 314, 315, 316, 321, 322, 323, 324, 325, 327, 334, 335, 337, 339, 342, 343, 344, 347, 348, 349, 350, 351, 352, 353, 354, 355, 358, 360, 362, 363, 364, 365, 367, 368, 371, 372, 373, 375, 377, 380, 383, 384, 385, 387, 388, 389, 390, 391, 392, 393, 397, 398, 400, 401, 403, 405, 410, 411, 412, 414, 415, 417, 418, 420, 422, 423, 424, 425, 426, 427, 429, 433, 434, 435.

Enamelling techniques

17, 24, 116, 245, 382.

Basse-taille enamel

15, 18, 20, 35, 38, 45, 46, 50, 61, 72, 86, 93, 96, 97, 106, 108, 111, 116, 127, 137, 151, 160, 178, 181, 220, 217, 220, 229, 251, 261, 264, 267, 276, 277, 283, 286, 287, 289, 290, 293, 294, 341, 343, 370, 384, 387, 389, 407, 423, 427.

Champlevé enamel

2, 3, 13, 18, 20, 26, 27, 30, 31, 34, 35, 38, 43, 50, 51, 56, 61, 67, 72, 86, 91, 93, 95, 97, 99, 100, 101, 102, 106, 112, 114, 115, 116, 127, 134, 139, 151, 152, 157, 159, 162, 163, 164, 167, 168, 169, 174, 176, 181, 182, 186, 215, 251, 261, 266, 277, 285, 306, 309, 313, 326, 327, 332, 341, 344, 346, 347, 349, 351, 352, 356, 365, 378, 393, 395, 396, 401, 402, 417, 428, 433.

Cloisonné enamel

2, 3, 9, 13, 18, 20, 26, 27, 28, 30, 31, 35, 38, 50, 59, 61, 67, 72, 73, 74, 86, 89, 93, 95, 99, 100, 101, 102, 106, 107, 111, 114, 116, 124, 127, 149, 153, 161, 165, 169, 170, 171, 177, 181, 182, 237, 251, 256, 269, 274, 282, 311, 312, 313, 348, 354, 355, 363, 376, 399, 426, 430, 434.

« De Venise »

172, 187, 388.

Email de plique

13, 18, 20, 35, 38, 95, 106, 116, 117, 127, 165, 413.

Email en résille sur verre

155, 366, 381.

Guilloché enamel

385.

Inlay

185, 258, 259, 265, 295.

Industrial

21, 22, 422.

Niello

18, 52, 88, 90, 95, 116, 264, 344.

Painted enamel

7, 8, 9, 10, 12, 13, 14, 18, 20, 26, 31, 35, 37, 60, 61, 81, 86, 93, 103, 110, 111, 116, 118, 119, 120, 124, 126, 127, 128, 129, 130, 131, 132, 133, 135, 136, 138, 140, 141, 142, 143, 144, 146, 147, 148, 154, 156, 158, 161, 166, 173, 175, 180, 181, 183, 195, 196, 197, 198, 202, 203, 205, 206, 209, 208, 210, 211, 212, 213, 216, 217, 220, 221, 222, 224, 225, 227, 237, 242, 251, 256, 260, 262, 282, 287, 296, 301, 303, 305, 307, 318, 319, 321, 323, 324, 325, 329, 331, 333, 338, 340, 342, 350, 357, 360, 364, 365, 368, 369, 372, 374, 377, 379, 383, 390, 391, 392, 397, 398, 399, 403, 404, 405, 406, 409, 410, 411, 415, 419, 420, 421, 424, 425, 429, 431, 432, 435.

Photography

10, 65, 66, 67, 68, 69, 70, 93, 116.

Ronde-bosse

13, 35, 38, 61, 86, 93, 95, 111, 116, 127, 163, 181, 184, 151, 199, 200, 201, 204, 207, 214, 299, 300, 316, 334, 336, 337, 339, 342, 345, 375, 380, 386, 436.

Forgeries

79, 96, 110, 113, 116, 123, 127, 138, 140, 142, 141, 143, 144, 147, 150, 157, 158, 160, 166, 228, 249, 255, 279, 308, 317, 318, 319, 370, 372, 379, 386, 416, 428, 436.

Geographical areas

13.

Africa

179.

Byzance

38, 44, 61, 79, 91, 107, 116, 181, 252, 277, 279, 348, 349, 354, 355, 378.

Bulgaria

149.

China

26, 28, 48, 59, 73, 74, 89, 98, 116, 125, 127, 153, 161, 170, 175, 180, 250, 251, 256, 269, 311, 312, 363, 424, 430, 432, 434.

Czech Republic

186.

Flandres

116, 181, 313.

France

25, 31, 33, 38, 43, 45, 48, 51, 61, 67, 75, 76, 81, 84, 85, 88, 97, 99, 100, 101, 102, 103, 106, 110, 111, 112, 114, 115, 116, 117, 118, 120, 125, 126, 128, 129, 130, 131, 132, 133, 135, 136, 137, 138, 140, 141, 142, 143, 144, 145, 146, 147, 148, 152, 154, 156, 157, 158, 159, 161, 162, 163, 164, 166, 167, 168, 169, 173, 175, 181, 183, 195, 196, 197, 198, 199, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 224, 225, 242, 255, 262, 279, 291, 299, 300, 301, 303, 305, 306, 309, 313, 318, 319, 325, 326, 327, 329, 331, 332, 333, 338, 340, 341, 342, 346, 350, 351, 352, 356, 357, 369, 372, 374, 377, 379, 383, 391, 392, 393, 396, 397, 401, 403, 404, 405, 406, 409, 411, 413, 419, 420, 421, 425, 428, 429, 431, 435.

Germany

27, 31, 33, 38, 48, 61, 67, 116, 160, 176, 181, 184, 199, 204, 207, 210, 211, 212, 213, 215, 279, 296, 299, 316, 321, 322, 323, 324, 336, 337, 368, 402, 408.

Great-Britain

27, 30, 34, 44, 46, 48, 77, 85, 88, 116, 121, 273, 295, 313, 390, 395, 398, 402, 418, 422.

India

44, 48, 116, 151.

Ireland

27, 30, 77, 88, 116, 121.

Italy

31, 48, 85, 97, 111, 116, 169, 171, 172, 174, 178, 181, 184, 185, 187, 220, 229, 264, 267, 274, 276, 277, 281, 285, 287, 290, 293, 294, 307, 342, 343, 345, 347, 364, 375, 376, 378, 383, 387, 388, 389, 400, 423, 427.

Japan

28, 48, 116, 165, 177, 182, 250, 251, 426.

Maghreb

94.

Meuse

31, 36, 38, 85, 88, 113, 116, 134, 139, 247, 308.

Persia

44, 399, 415, 433.

Russia

44, 48, 104, 116, 266, 279, 417.

Scandinavia

44.

Scotland

27.

Spain

84, 94, 97, 111, 116, 124, 169, 285, 288, 332, 370, 407.

Goldsmith's trade

113, 139, 168, 169, 181, 248, 249, 263, 264, 267, 271, 277, 284, 287, 294, 306, 307, 314, 316, 336, 341, 344, 346, 347, 349, 351, 352, 354, 355, 356, 367, 370, 375, 376, 378, 384, 387, 389, 393, 400, 401, 407, 408, 417, 423, 427, 428, 429.

Jewelry

3, 18, 27, 38, 91, 95, 116, 122, 150, 157, 181, 230, 293, 362, 365, 366, 367, 381, 386, 399, 418, 436.

Metals

17, 24, 71, 116.

Brass

18, 88, 417.

Bronze

18, 27, 28, 30, 32, 34, 52, 83, 88, 105, 149, 153, 161, 169, 170, 181, 186, 258, 265, 298, 395, 430, 434.

Copper

10, 18, 20, 27, 37, 43, 51, 72, 75, 88, 90, 95, 97, 99, 100, 101, 102, 107, 110, 112, 113, 114, 119, 120, 114, 115, 125, 127, 128, 129, 133, 135, 138, 139, 140, 141, 142, 143, 144, 146, 148, 149, 153, 154, 157, 158, 159, 161, 162, 163, 164, 166, 167, 168, 169, 170, 172, 173, 174, 175, 176, 177, 180, 181, 182, 183, 187, 202, 208, 209, 216, 217, 220, 221, 222, 223, 224, 225, 227, 252, 260, 226, 264, 266, 274, 277, 285, 291, 292, 306, 307, 309, 319, 326, 327, 341, 343, 344, 346, 347, 348, 351, 352, 360, 363, 369, 373, 374, 388, 392, 393, 396, 397, 401, 402, 403, 404, 405, 406, 409, 410, 411, 415, 419, 420, 421, 424, 425, 428, 429, 431, 432, 435.

Gold

Silver
18, 20, 27, 46, 52, 72, 90, 95, 96,
97, 106, 108, 127, 151, 160, 165, 177, 178,
181, 184, 185, 200, 214, 215, 220, 229, 237,
247, 261, 267, 277, 283, 285, 286, 287, 289,
290, 294, 299, 300, 313, 336, 337, 341, 343,
347, 370, 376, 384, 385, 387, 389, 407, 408,
414, 415, 418, 423, 427.

Period
116, 382.
Antiquity
25, 27, 28, 30, 33, 34, 38, 58, 61,
78, 79, 80, 82, 83, 91, 94, 105, 121,
149, 181, 186, 258, 265, 273, 298, 395.

Middle Ages
27, 31, 36, 38, 43, 45, 51, 52, 56,
61, 67, 72, 75, 76, 77, 84, 85, 88,
97, 90, 93, 94, 95, 96, 99, 100, 101,
102, 104, 106, 108, 109, 111, 112, 113, 114,
117, 119, 114, 127, 134, 137, 152, 157, 159,
160, 161, 162, 163, 164, 167, 168, 169, 170,
171, 174, 176, 181, 200, 201, 203, 217, 229,
237, 247, 249, 261, 274, 276, 277, 279, 283,
285, 286, 288, 290, 292, 294, 297, 303, 306,
308, 313, 326, 343, 346, 347, 348, 349, 351,
352, 354, 355, 356, 370, 376, 378, 384, 387,
393, 396, 401, 402, 407, 408, 423, 427, 428.

Renaissance
27, 26, 28, 31, 37, 38, 81, 94, 95,
97, 98, 103, 104, 106, 115, 117, 118, 119,
120, 123, 125, 126, 127, 128, 129, 130, 131,
133, 135, 136, 138, 140, 141, 142, 143, 144,
145, 146, 147, 148, 150, 154, 156, 158, 161,
166, 170, 172, 173, 178, 181, 184, 185, 187,
195, 196, 197, 202, 203, 205, 206, 208, 209,
217, 220, 224, 225, 242, 249, 260, 262, 264,
267, 279, 291, 293, 299, 301, 305, 307, 319,
325, 333, 338, 340, 341, 342, 344, 350, 357,
360, 364, 366, 369, 372, 374, 375, 377, 379,
381, 386, 388, 389, 391, 392, 397, 400, 403,
405, 406, 409, 411, 419, 420, 421, 425, 429,
431, 435.

Modern
26, 28, 74, 79, 94, 96, 104, 110, 119,
123, 126, 127, 132, 138, 140, 141, 143, 147,
151, 153, 155, 161, 165, 166, 170, 175, 180,
181, 183, 184, 199, 204, 207, 210, 211, 212,
213, 215, 228, 249, 255, 316, 321, 322, 323,
324, 336, 337, 357, 362, 363, 365, 366, 379,
381, 383, 385, 386, 399, 413, 415, 417, 418,
420, 424, 426, 428, 430, 432, 433, 434, 436.

Contemporary
10, 104, 165, 177, 182, 279, 329, 366, 368,
381, 385, 390, 398, 422.

Preservation
24, 58, 173, 204, 207, 212, 215, 220, 221,
222, 225, 240, 242, 243, 244, 245, 256, 257,
263, 266, 280, 285, 286, 289, 290, 293, 295,
301, 303, 314, 316, 322, 329, 330, 335, 342,
343, 350, 351, 352, 360, 362, 363, 367, 377,
384, 391, 397, 403, 410, 411, 418, 424, 429,
434, 435.

Restoration
263, 284, 330, 335, 353, 367.

Gap-filling
24, 166, 173, 227, 232, 235, 236, 242, 247,
251, 252, 253, 256, 269, 270, 271, 278, 279,
282, 303, 304, 310, 311, 312, 328, 329, 333,
359, 370, 374, 376, 377, 392, 404, 405, 406,
412, 413, 414, 415, 422, 425, 427, 432, 434.

Inpainting
24, 166, 184, 227, 234, 235, 242, 246, 251,
252, 253, 269, 271, 279, 282, 289, 329, 359,
374, 376, 377, 392, 405, 422, 425, 431, 432,
434.

Scientific examination and analysis
26, 30, 32, 33, 34, 36, 43, 45, 50,
51, 52, 56, 57, 59, 72, 74, 75, 76,
77, 78, 79, 80, 81, 82, 83, 84, 85,
86, 88, 89, 91, 93, 96, 97, 98, 99,
100, 101, 102, 103, 105, 107, 111, 113, 114,
115, 117, 118, 119, 121, 123, 124, 125, 128,
130, 131, 134, 136, 138, 140, 141, 142, 143,
144, 147, 149, 150, 151, 152, 153, 154, 156,
157, 158, 159, 160, 161, 164, 166, 167, 169,
171, 173, 174, 176, 178, 181, 184, 186, 187,
196, 197, 199, 202, 203, 204, 205, 206, 207,
208, 209, 214, 215, 216, 218, 219, 220, 221,
222, 223, 224, 225, 231, 242, 247, 257, 258,
263, 273, 277, 279, 287, 307, 316, 319, 326,
328, 341, 342, 344, 350, 357, 360, 363, 364,
370, 371, 373, 375, 376, 379, 380, 383, 384,
386, 387, 388, 391, 397, 399, 401, 402, 405,
409, 410, 411, 413, 419, 420, 421, 423, 426,
427, 428, 429, 430, 433, 434, 435, 436.

Technology
1, 2, 3, 4, 5, 6, 7, 8, 9,
10, 11, 13, 14, 15, 16, 17, 18, 19,
20, 21, 22, 23, 24, 25 to 187, 201, 205,
238, 239, 242, 245, 246, 250, 251, 261, 262,
277, 289, 298, 299, 300, 306, 309, 319, 325,
327, 340, 342, 350, 352, 363, 364, 366, 369,
371, 376, 381, 382, 383, 385, 386, 387, 388,
396, 399, 400, 401, 413, 420, 422, 424, 425,
426, 429, 430, 433, 434, 436.

Treatises
1 to 14, 72, 84, 85, 90, 95, 99, 100,
108, 116, 127, 382.

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