

**DR. HANNELORE ROEMICH**  
**CURRICULUM VITAE**

**Education and training**

1984          Diploma in Chemistry at the University Dortmund, Germany  
1987          PhD in Chemistry at the University in Heidelberg, Germany

**Employment**

1988          Scientist in the “Research for conservation” group at the Fraunhofer-Institut für Silicatforschung (ISC), Würzburg, Germany  
1994          Head of the “Research for conservation” group at Fraunhofer ISC  
2003          Head of the Bronnbach Branch at Fraunhofer ISC  
2004          Science Officer at COST Office, European Science Foundation, Brussels, BE  
2007-2009    Associate Professor of Conservation Science at the Conservation Center, Institute of Fine Arts, New York University  
Since 2009    Professor of Conservation Science at the Conservation Center, Institute of Fine Arts, New York University  
2008-2011    Acting Chairman, Conservation Center, Institute of Fine Arts, New York University  
Since 2014    Chairman, Conservation Center, Institute of Fine Arts, New York University

**Fellowships and further training**

1984          Grant for 3 months internship at the Ecole Nationale Supérieure de Chimie, Montpellier, France  
1987          Post-doc grant for one year at the University of Montpellier, France  
1991          Sabbatical leave: guest researcher at the Conservation Center, NYU, USA (3 months)  
                 guest researcher at the V&A Museum, Science section, London (3 months)  
2001, 2002    Sabbatical leave: participation in archaeological excavations in Romania  
2004          Sabbatical leave: ICCROM fellowship (4 months)  
2011          Fall semester: term to research  
2013          Sabbatical

**Major research projects and grants**

1988-1992    NATO-CCMS study on “Conservation of stained glass windows”, project funded by the German Agency for the Environment (Umweltbundesamt)  
1990-1995    “Evaluation of cleaning techniques for stained glass windows”, project funded by the German Ministry of Research  
1992-1995    “New conservation methods for outdoor bronze sculptures”, EC-project EV5V-CT92-0107  
1997-2000    “Investigation of lasers for cleaning stained glass windows”, funded by the German Foundation for the Environment (DBU), Osnabrück  
1998-2002    “Monitoring the corrosion state of archaeological glass with optimized micro-computed X-ray tomography”, EC-funded project SMT4-CT98-2261  
1999-2003    “Scientific aspects for the conservation of archaeological glass”, funded by the German Foundation for the Environment (DBU), Osnabrück  
2001-2004    “A light dosimeter for monitoring cultural heritage: development, testing and transfer to market”, EC-funded project EVK4-CT2000-00016 *Remark: this project gained the “Pan-European Grand-Prix of Innovation” in Monaco (06 December 2003)*

- 2002-2005 “Physical, chemical and biological aspects of the degradation of stained glass windows with and without protective glazings”, EC-funded project VIDRIO
- 2007-2008 “Investigations of crack patterns in glass by synchrotron radiation”, collaboration with Dombauhuette Koeln, Germany, and ELETTRA Synchrotron in Trieste, Italy
- 2010-2011 NYU University Research Challenge Fund (URCF) – collaboration with NYU Chemistry Department; Project “Archaeological Glass: Characterization of Surface Degradation”
- 2010-2011 National Endowment of the Humanities (NEH), Preservation and Access Award for “Art and Material Culture Conservation and Training”  
Project title: Sustainability in Conservation
- 2011-2012 National Endowment of the Humanities (NEH), Preservation and Access Award for “Art and Material Culture Conservation and Training”  
Project title: Conservation Training for Preservation and Access
- 2013, 2014 “Conservation Assessment at Schloss Leopoldskron (Salzburg, Austria)”, summer program for graduate students in conservation, funded by the Samuel H. Kress Foundation
- 2013-2014 American Research Center in Egypt (ARCE) grant for the project “Environmental conditions and long-term preservation of the collection at the Egyptian Museum – advanced training in preventive conservation”

### **Organisation of conferences and workshops or session chair (selection)**

- 1996 - 1998 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> European Workshop on cultural heritage: research and opportunities for European enterprises, Rome, Aachen, Santiago de Compostella (member of the int. steering committee)
- 2001 Lighting in museums – assessment and control. Florence, Italy
- 2005 COST and cultural heritage: crossing borders. Florence, Italy (120 participants)
- 2006 European Forum on Nanosciences: a converging approach across disciplines. Brussels, Belgium
- 2007 Past – present – prediction: about simulation techniques, dosimeters, sensors in conservation research and application, Ohrid, (FYROM)
- 2007 41<sup>st</sup> World Chemistry Congress (IUPAC), Turin, Italy, session 3 “chemistry protecting cultural heritage”
- 2008 ART2008, 9<sup>th</sup> Int. conference on non-destructive investigation and microanalysis for the conservation of cultural heritage, Jerusalem, Israel
- 2009 Forum for the Conservation and Restoration of Stained Glass "The Art of Collaboration: Stained-Glass Conservation in the Twenty-First Century", New York City
- 2010 Interim Meeting of the ICOM-CC working group on glass and ceramics, Corning, NY (member of the Program Committee for the Meeting and Editor of the Preprints)
- 2011 The interface between field archaeology and conservation, Abu Dhabi, UAE
- 2012 SR2A: International Conference on Synchrotron Radiation in Art & Archaeology, New York, June 5-8, 2012; member of the organizing committee.
- 2013 “Recent Advances in Glass, Stained Glass, and Ceramics Conservation”, interim meeting of the ICOM-CC Working Group “Glass and Ceramics” and the Forum of the International Scientific Committee for the Conservation of Stained Glass (Corpus Vitrearum-ICOMOS), 7-10 October 2013, Amsterdam, The Netherlands; editor of preprints and chair of the scientific committee.
- 2014 The 17th Triennial Conference of the International Council of Museums Committee for Conservation (ICOM-CC), 15-19 September, Melbourne, Australia; Chair of the session on “Glass and Ceramics”

### Teaching at The Conservation Center, NYU

- Materials of Art and Archaeology I: Organic Materials
- Materials of Art and Archaeology II: Inorganic Materials
- Advanced science courses, such as *Light and Color* or *Cellulose and Cellulose Derivatives*
- Preventive Conservation
- Instrumental Analysis

### Selected Publications

Roemich, H., Gerlach, S., Mottner, P., Mees, F., Jacobs, P., van Dyck, D. and Domenech Carbó, T.: Results from burial experiments with simulated medieval glasses. Proc. MRS Fall Meeting, Symposium II, Boston (2002), 1-12

Roemich, H., Dickmann, K., Mottner, P., Hildenhagen, J., Müller, E.: Laser cleaning of stained glass windows - Final results of a research project. J. Cult. Heritage, 4 (2003) 112-117

Roemich, H., Martin, G., Lavedrine, B., Bacci, M.: LightCheck – a new tool in preventive conservation. V&A Conservation Journal, 47 (2004) 18-20.

Roemich, H.: Evaluation of protective glazing systems. A Review. E- Preservation Science 1(2004), 1-8

H. Roemich, F. Zanini, K. Wittstadt, C. Mueller-Weinitschke, N. Sodini: Degradation phenomena on historic glass: non-destructive characterization by Synchrotron radiation. "ART2008, Jerusalem, Israel (2008), publ. on CD

N. Carmona, K. Nawroth, H. Roemich: New sol-gel based consolidants for paint on stained glass windows. Journal of Cultural Heritage 10 (2009) 403-409.

F. Mees, E. Cornelis, P. Jacobs, M. T. Doménech Cárbo, H. Rörmich: "Microfocus X-ray computed tomography analysis of corroded glass objects." Engineering Geology 103 (2009) 93-99

P. Bellendorf, H. Roemich, S. Gerlach, P. Mottner, E. López, K. Wittstadt: Archaeological Glass: the Surface and Beyond. In: "Glass and Ceramics Conservation 2010" (Editor: H. Roemich), Preprints, ICOM Committee for Conservation, Corning Museum of Glass (2010), 137-144

H. Roemich and S. Weintraub: Teaching Preventive Conservation: Preparing Conservators for the Complex World of Interdisciplinary Decision Making. Proceedings of the Final Meeting of COST Action D42, published by Trinity College Dublin, Ireland and COST, Brussels, Belgium (2010)

M. Tsukada, M. Leona, H. Roemich: Application of impact sensors for the study of environmental conditions in showcases at the Metropolitan Museum of Art. International Conference ART2011, Florence, Italy, January 2011

### Contributions to books

Book: **The conservation of Glass and Ceramics – Research, Practice and Training.** Norman Tennent (Editor), James & James, London (1999)

Contributions: Rörmich, H.: Historic Glass and its interaction with the environment (pp. 5-14) and Laboratory experiments to simulate corrosion on stained glass windows (pp. 57-65)

Book: **Restaurierung und Konservierung historischer Glasmalereien**. Arnold Wolff (Editor), Verlag Philipp von Zabern, Mainz, Germany (2000)

Contributions:

Müller, W., Torge, M., Adam, K., Römich, H., Weißmann, R. und Drewello, R.: Naturwissenschaft im Dienst der Restaurierung, pp. 65-99

Römich, H., Jägers, E., Torge, M., Müller, W. und Adam, K.: Reinigung – eine Gradwanderung, pp. 101-128

Jägers, E., Römich, H. und Mueller-Weinitschke, C.: Konservierungsmaterialien und Methoden, pp. 129-166

Oidtmann, S., Leissner, J. und Römich, H.: Schutzverglasungen, pp. 167-209

Book: **Rational Decision – making in the Preservation of Cultural Property**. Edited by: N.S. Baer and F. Snickars, ISBN3-934504-07-8, Dahlem University Press, Berlin, Germany (2001)

Contribution: Nanda, R., Burke, F., Burman, P.A.T.I., Kohler, N., Mileti, D.S., Römich, H., Snickars, F., Sörlin, S.: Group Report: Values and Society. Pp. 61-80

Book: **Conservation Science – Heritage Materials**. Edited by: May and M. Jones, the Royal Society of Chemistry Publishing, Cambridge, UK (2006)

Contribution: Römich, H.: Chapter 7 - Glass and Ceramics. Pp. 160-184

### **Editor of conference proceedings**

Hannelore Roemich: **Glass & Ceramics Conservation 2010**. ICOM Committee for Conservation, in association with The Corning Museum of Glass, Corning, NY (2010) (240 pages)

Eric Dooryhee, Marco Leona, Jennifer L. Mass, Hannelore Roemich, Peter D. Siddons, Arthur Woll (guest editors): Special Issue of Applied Physics with 28 articles from the conference "**Synchrotron Radiation in Art and Archaeology**" (SR2A); Applied Physics Volume A 111, Number 1, April 2013

Hannelore Roemich and Kate van Lookeren Campagne: **Recent Advances in Glass, Stained Glass, and Ceramics Conservation 2013**, Spa Uitgevers, Zwolle, NL (2013) (361 pages)

### **Invited lectures and teaching during sabbatical 2013**

**Cairo, Egypt** (Feb 03, 2013 from 10:00 am to 5:00 pm):

*Invitation* from Dr. Abdelrazek Elnaggar, President of the Arabic Institute for Conservation of Historic and Artistic Works (ArIC), Faculty of Archaeology, Fayoum University, Egypt.

*Organization*: the Arabic Institute for Conservation of Historic & Artistic Works in collaboration with Bibliotheca Alexandrina and Egyptian State Ministry of Antiquities.

*Venue*: Bayet Alsennary, Al-Sayyidah Zaynab, Al Qahirah, Egypt, Cairo

*Title*: The museum environment – monitoring strategies and their implementation

*Participants*: About 40 participants from the Manuscripts Museum in Alexandria, PhD students, Conservators, Museum Managers have attended the workshop.

**Ludwigsburg, Germany** (June 25 and 26, 2013):

*Invitation* from Dr. Anna Haberditzl, Landesarchiv Baden-Wuerttemberg, Institut fuer Erhaltung von Archiv- und Bibliotheksgut

*Organization*: Landesrestaurierungsprogramm Baden – Württemberg, Jahresfortbildung 2013, in Kooperation mit der Staatlichen Akademie der Bildenden Künste Stuttgart

*Context*: Topic of the annual training: Klima – Schadstoffe – Licht: Bedingungen und Belastungen für Archiv- und Bibliotheksgut (Climate, pollutants, light: conditions and risks for archives and library collections)

*Venue:* Ludwigsburg, Landesarchiv

*Titles of my contributions:*

June 25, 10.15 h - 11.45 h, Umwelt und schriftliches Kulturgut - Richtlinien und deren Grundlagen (Environment and written records: guidelines and their basic principles)

June 25, 16.00 h – 16.45 h: Schwach beleuchtet und gut gemeint – Licht in Archiven und Bibliotheken (lighting conditions in archives and libraries)

June 26, 9.00 h – 12.00 h, workshop: Kann man Umweltwirkung messen? Dosimeter und Sensoren in der Praxis (how to evaluate environmental impact)

*Participants:* 60 participants, mainly professionals working in archives in Southern Germany and conservation students from Stuttgart

**York, UK** (March 2, 2013, 10:30-11:30 h):

*Invitation* from Sarah Brown, Course Director of the MA in Stained Glass Conservation and Heritage Management and Director, The Stained Glass Research School

*Organization:* The University of York

*Context:* SG 14: Spring Master Class “Bulk Glass, Plain Glazing, Archaeological Glass History, Technology and Conservation”

*Venue:* King’s Manor campus

*Title of my contribution:* Archaeological glass: Surface degradation and conservation challenges

*Participants:* about 40 students from York University specializing in archeology or stained-glass conservation

**Amsterdam, NL** (April 25, 2013, 16:00 – 17:00 h):

*Invitation* from: Norman Tennent, Professor of Conservation Science, University of Amsterdam

*Organization:* FACULTEIT DER GEESTESWETENSCHAPPEN, Opleiding Conserveren en restauratie van cultureel erfgoed

*Context:* Conservation Science Colloquium Series

*Venue:* Amsterdam, Ateliergebouw, Zaal B

*Title of my contribution:* Preventive conservation standards and guidelines: consequences and implementation

*Participants:* about 20 conservators from local museums and students from the University of Amsterdam

### **Elected positions in professional organizations:**

**Corpus Vitrearum (CV):** Member of the Corpus Vitrearum US Conservation Committee

Member of the Board of the "International Scientific Committee for the Conservation of Stained Glass", see <http://sgc.lrmh.fr/?lng=en>

**International Council of Museums – Committee for Conservation (ICOM-CC):** Coordinator of the WG Glass and Ceramics (2011-2014), <http://icom-cc.org/27/working-groups/glass-and-ceramics/>

### **Further memberships:**

JCH Member of the editorial board of the Journal of Cultural Heritage

e-PS Member of the editorial board of E- Preservation Science

GNAA German society for science in archaeology and archaeometry

ICOMOS International non-governmental organization of professionals, dedicated to the conservation of the world's historic monuments and sites.

ARCE American Research Center in Egypt