

Experts' Bibliography

The following is selected research by roundtable participants in the area of climate management.

- Andreu, I. C., and T. Oreszczyn. 2004. Architects need environmental feedback. *Building Research and Information* 32(4): 313-28.
- Blades, Nigel, and Tadj Oreszczyn. 2000. *Guidelines on Pollution Control in Museum Buildings*. London, UK: Museum Association.
- Brimblecombe, P., N. Blades, D. Camuffo, G. Sturaro, A. Valentino, K. Gysels, R. Van Grieken, H. J. Busse, M. Wieser, O. Kim, and U. Ulrych. 1999. The indoor environment of a modern museum building, the Sainsbury Centre for Visual Arts, Norwich, UK. *Indoor Air* (9): 146-64.
- Camuffo, D., Adriana Bernardi, F. Becherini, E. Pagan, and R. A. Lefèvre. 2005. Microclimate measurements in the Cour Marly, Louvre Museum. In *Cultural Heritage Conservation and Environmental Impact Assessment by Non-Destructive Testing and Micro-Analysis*, eds. René van Grieken, and Koen H. A. Janssens , 127–33. Rotterdam: A.A. Balkema.
- Camuffo, D., J. Leissner, H. Schellen, Van Grieken. R., R. Kozłowski, S. Rissanen, A. Busà, E. G. Consonni, J. Zajaczkowska - Kloda, and M. Kozarzewski. 2002-2005. Friendly heating: Both comfortable for people and compatible with conservation of artworks in churches (Contract No : EVK4-CT-2001-00067). Web page, [accessed 7 November 2007]. Available at http://www.heritage.xtd.pl/conference_report/camuffo.html.
- Camuffo, D., and G. Sturaro. 2002. Church heating: A challenge looking for solutions. In *Research for Protection, Conservation and Enhancement of Cultural Heritage: Opportunities for European Enterprises/La recherche pour la protection, la conservation et la mise en valeur du patrimoine culturel: Opportunités pour les entreprises européennes*, ed. Astrid Brandt-Grau, 128–36. Luxembourg: European Commission. Available at ftp://ftp.cordis.europa.eu/pub/eesd/docs/ka4_protection_conservation_enhancement.pdf.



- Camuffo D., G. Sturaro, A. Bernardi, E. Pagan, and F. Becherini. 2001. Microclimate: A difficult variable in museums (presentation at 4th meeting of the Indoor Air Pollution Working Group. IAP Copenhagen 2001). Web page, [accessed 8 November 2007]. Available at http://iaq.dk/iap/iap2001/2001_01.htm.
- Camuffo, D., R. E. Van Grieken, H. J. Busse, G. Sturaro, A. Valentino, Adriana Bernardi, N. Blades, and et al. 2001. Environmental monitoring in four European museums. *Atmospheric Environment* 35 (SUPPL 1): S127-S140. Available at <http://www.vu-wien.ac.at/i102/MitarbeiterArbeitsgruppen/Four-museums.pdf>.
- Camuffo, Dario. 1997. Modern technology: A new opportunity or a new challenge for the indoor conservation of the cultural heritage? *European Cultural Heritage Newsletter on Research* 10: 77-83.
- Camuffo, Dario, and Adriana Bernardi. 1995. The microclimate of the Sistine Chapel. *Bollettino Geofisico. Nuova Serie* 18 18(2): 1-32.
- — — . 1996. Controlling the microclimate and the particulate matter inside the historic Anatomy Theatre, Padova. *Museum Management and Curatorship* 15(3): 285-98.
- Camuffo, Dario, Adriana Bernardi, Giovanni Sturaro, and Antonio Valentino. 1999. Microclimatic conditions inside Leonardo, Giotto, Pollaiolo and Botticelli rooms in the Uffizi Gallery. In *6th International Conference on "Non-Destructive Testing and Microanalysis for the Diagnostics and Conservation of the Cultural and Environmental Heritage": Rome, May 17th-20th 1999: Proceedings*, Maurizio Marabelli, and Concetto Parisi, 705-19. Brescia: Italian Society for Nondestructive Testing.
- — — . 2002. The microclimate inside the Pollaiolo and Botticelli rooms in the Uffizi Gallery, Florence. *Journal of Cultural Heritage* 3(2): 155-61.
- Camuffo, Dario, and Emanuela Pagan. 2004. Heating churches: An innovative solution to preserve cultural heritage and to provide comfort. In *Influences of the Environment and Defense of the Territory on Recovery of Cultural Heritage: Lectures and Proceedings of the*



6th International Symposium on the Conservation of Monuments in the Mediterranean Basin, Lisbon, Portugal, 7-10 April 2004, 103-6. Lisbon: International Group for the Protection and Conservation of the Cultural Heritage. Available at <http://www.fh-comfort.it/pdf/lisbon3.pdf>.

Camuffo, Dario and Emanuela Pagan. 2004. Impact of daily and seasonal Temperature and Relative Humidity cycles on wooden artworks (presentation at 6th Indoor Air Quality 2004 Meeting (IAQ2004) Padova, Italy, 10-12 November 2004). Web page, [accessed 7 November 2007]. Available at http://www.isac.cnr.it/iaq2004/pdfabstract/Camuffo_2abstract.pdf.

Camuffo, Dario, Emanuela Pagan, and Antonella Maraner. 2004. Friendly Heating: A holistic study of synergism between microclimate, air pollution and cultural heritage (presentation at 6th Indoor Air Quality 2004 Meeting (IAQ2004) Padova, Italy, 10-12 November 2004). Web page, [accessed 7 November 2007]. Available at www.isac.cnr.it/iaq2004/pdfabstract/Camuffo_1abstract.pdf.

Camuffo, Dario, Giovanni Sturaro, Emanuela Pagan, Adriana Bernardi, and Francesca Becherini. 2002. Heating in historical buildings: A manifold problem. In *Art 2002: 7th International Conference on Non-Destructive Testing and Microanalysis for the Diagnostics and Conservation of the Cultural and Environmental Heritage: 2-6 June 2002, Congress Centre Elzenveld, Antwerp, Belgium: Proceedings*, R. van Grieken, K. Janssens, L. Van't dack, and G. Meersman, 1-11. Antwerp: University of Antwerp.

Camuffo et al. 1999. Indoor air quality at the Correr Museum, Venice, Italy. *The Science of the Total Environment* 236(1-3): 135-52.

Cassar, May and Michael Henry. 2003. Context and use: Topic outline. Web page, [accessed 7 November 2007]. Available at <http://extranet.getty.edu/gci/teaching/downloads/context-outline.pdf>.



- Conrad, Ernest. 1999. The realistic preservation environment (Presented at NARA 14th Annual Preservation Conference: Alternative archival facilities). Web page, [accessed 7 November 2007]. Available at <http://www.archives.gov/preservation/storage/realistic-preservation-environment.html>.
- Conrad, Ernest A. 1995. Energy Conservation Issues for Modern Buildings. In *Preserving the Recent Past*, eds. Deborah Slaton, and Rebecca A. Shiffer, IV, 137-40. Washington D.C. Historic Preservation Education Foundation.
- — — . 1996. Balancing environmental needs of the building, the collection, and the user. In *Abstracts of Papers Presented at the Twenty-Fourth Annual Meeting, Norfolk, Virginia, June 10-16, 1996, by the American Institute for Conservation*, 15-18. Washington D.C. American Institute For Conservation.
- — — . 1996. The dew's and don'ts of insulating. *Old House Journal* 24(3): 36-41.
- Eshøj, Bent, and Tim Padfield. 1993. The use of porous building materials to provide a stable relative humidity. In *ICOM Committee for Conservation 10th Triennial Meeting: Washington, DC, 22-27 August 1993: Preprints*, Ed. Janet Bridgland, 605-9. ICOM Committee for Conservation.
- Foster, Michelle, and Tadj Oreszczyn. 2001. Occupant control of passive systems: The use of Venetian blinds. *Building and Environment* 36(2): 149-55.
- Gysels, Kristin, Filip Delalieux, Felix Deutsch, René van Grieken, and Dario Camuffo. 2004. Indoor environment and conservation in the Royal Museum of Fine Arts, Antwerp, Belgium. *Journal of Cultural Heritage* 5(2): 221-30.
- Henry, Michael. 2001. Collections and buildings pathology: Identification and diagnostics: Technical Note. Web page, [accessed 7 November 2007]. Available at <http://extranet.getty.edu/gci/teaching/downloads/CollectionsPathology.TN.pdf>.



- Henry, Michael. 2001. Environmental management strategies: Technical notes. Web page, [accessed 8 November 2007]. Available at <http://extranet.getty.edu/gci/teaching/downloads/EnvironmentalManagement.TN.pdf>.
- Henry, Michael. 2001. Materials in museum buildings and collections: Technical Note. Web page, [accessed 8 November 2007]. Available at <http://extranet.getty.edu/gci/teaching/downloads/MaterialsInMuseums.TN.pdf>.
- Henry, Michael. 2001. Museums and their context: The macro and micro-environments: Technical Note. Web page, [accessed 8 November 2007]. Available at <http://extranet.getty.edu/gci/teaching/downloads/MuseumsAndContext.TN.pdf>.
- Henry, Michael. 2001. Suggested protocol for diagnostic monitoring in museums: Technical Note. Web page, [accessed 8 November 2007]. Available at <http://extranet.getty.edu/gci/teaching/downloads/ProtocolForDiagnostic.TN.pdf>.
- Henry, Michael. 2003. Context and use: Technical Note. Web page, [accessed 8 November 2007]. Available at <http://extranet.getty.edu/gci/teaching/downloads/ContextAndUse.TN.pdf>.
- Henry, Michael. 2003. Monitoring, interpretation and use of data: Session outline. Web page, [accessed 8 November 2007]. Available at <http://extranet.getty.edu/gci/teaching/downloads/monitoring-outline-phase1.pdf>.
- Kerschner, K. Richard. 2006. Providing safe and practical environments for cultural properties in historic buildings...and beyond. (Presented at 20th Annual National Archives Preservation Conference. Beyond the Numbers: Specifying and Achieving an Efficient Preservation Environment. March 16, 2006). Web page, [accessed 8 November 2007]. Available at <http://www.archives.gov/preservation/conferences/2006/kerschner.pdf>.
- Kerschner, L. Richard and Jennifer Baker. Practical climate control: A selected, annotated bibliography. Web page, [accessed 8 November 2007]. Available at <http://palimpsest.stanford.edu/byauth/kerschner/ccbiblio.html>.



- Kerschner, Richard L. 2000. Implementation of practical climate control strategies at the Shelburne Museum. In *The Conservation of Heritage Interiors: Preprints of a Conference Symposium 2000, Ottawa, Canada May 17 to 20, 2000/La Conservation Des Intérieurs Patrimoniaux: Les Prétirages De La Conférence Symposium 2000, Ottawa, Canada Du 17 Au 20 Mai 2000*, 161-66. Ottawa, Canada: Canadian Conservation Institute.
- Koestler, R. J., P. Brimblecombe, D. Camuffo, W. S. Ginell, T. E. Graedel, P. Leavengood, J. Petushkova, M. Steiger, C. Urzi, V. Verges-Belmin, and T. Warscheid. 1994 . Group report: how do external environmental factors accelerate change? In *Durability and Change: The Science, Responsibility, and Cost of Sustaining Cultural Heritage, December 6-11, 1992*, 149-63. Environmental Sciences Research Report. Hoboken, New Jersey: John Wiley & Sons Inc.
- Kozłowski, Roman. 2004. Novel heating strategy of historic churches: The Friendly Heating (presented at 6th European Commission Conference on Sustaining Europe's Cultural Heritage: from Research to Policy Queen Elizabeth II Conference Centre, London, UK, 13 September 2004). Web page, [accessed 8 November 2007]. Available at http://www.ucl.ac.uk/sustainableheritage/conference-proceedings/pdf/2B.9_kozlowski.pdf.
- Kozłowski, Roman and Łukasz Bratasz. 2003. Impact of heating system on the dimensional change of wood: A case study of the church in Rocca Pietore, Italy (presented at 4th Indoor Air Quality Meeting, 2003). Web page, [accessed 8 November 2007]. Available at http://iaq.dk/iap/iaq2003/2003_04.htm.
- Limpens-Neilen, Dionne, Mariëlle Schoffelen, and Henk Schellen. Measurements and simulation results of a local bench heating system (presentation at 6th Indoor Air Quality 2004 Meeting (IAQ2004) Padova, Italy, 10-12 November 2004). Web page, [accessed 29 November 2007]. Available at www.isac.cnr.it/iaq2004/posterabstract/Neilen_poster_abstract.pdf.



- Lloyd, Helen, and Sarah Staniforth. 2000. Preventive conservation and "A madness to gaze at trifles": A sustainable future for historic houses. In *Tradition and Innovation: Advances in Conservation: Contributions to the Melbourne Congress, 10-14 October 2000*, eds. Ashok Roy, and Perry Smith, 118-23. London: International Institute for Conservation of Historic and Artistic Works.
- Maekawa, S., and Maria Garcia Morales. 2003. Low-cost climate control system for museum storage facility on Tenerife island. *Management of Environmental Quality: An International Journal* 14(3): 369-82.
- Maekawa, S., and F. Toledo. 2003. Sustainable climate control for historic buildings in subtropical climates. *Management of Environmental Quality: An International Journal* 14(3): 369-82.
- Maekawa, Shin. 1993. Environmental monitoring of the tomb of Nefertari. In *Art and Eternity: The Nefertari Wall Paintings Conservation Project, 1986-1992*, Miguel Angel Corzo, and Mahasti Afshar, 105-21. Los Angeles, California: The Getty Conservation Institute.
- — —. 1994. Preventive strategies for reducing the impact of visitors on the microenvironment of caves at the Mogao Grottoes. In *Preventive Conservation: Practice, Theory and Research: Preprints of the Contributions to the Ottawa Congress, 12-16 September 1994*, 76-79. London: International Institute for Conservation of Historic and Artistic Works.
- Maekawa, Shin, and Vincent Beltran. 2004. Climate controls for historic buildings: A new strategy. *Conservation: The Getty Conservation Institute Newsletter* 19(1): 21-24.
- Maekawa, Shin, and Franciza Toledo. 2003. Sustainable climate control for historic buildings in subtropical climates. *Management of Environmental Quality: An International Journal* 14(3): 369-82.



- Maekawa, Shin, and Nieves Valentin. 2003. Ventilation and heating-based microbial controls for cultural institutions. In *Moulds, Health and Heritage: Braunschweig, 2003*, Braunschweig: Braunschweigisches Landesmuseum.
- Maekawa, Shin, Yongjun Zhang, Baoyi Wang, Wenli Fu, and Ping Xue. 1996. Climate and micro-climate at the Mogao Grottoes. In *The Conservation of Dunhuang Mogao Grottoes and the Related Studies: International Symposium on the Conservation and Restoration of Cultural Property, Nara, February 1–3, 1996*, 53-73. International Symposium on the Conservation and Restoration of Cultural Property (19). Tokyo, Japan: National Research Institute of Cultural Properties .
- — — . 1997. Environmental monitoring at the Mogao Grottoes. In *Conservation of Ancient Sites on the Silk Road: Proceedings of an International Conference on the Conservation of Grotto Sites*, ed. Neville Agnew, 301-13. Los Angeles: The Getty Conservation Institute.
- Michalski, S. 1997. Humidity and temperature guidelines for digital media. In *Preservation of Digital Media Workshop*, 59-60. Ottawa: National Archives of Canada.
- Michalski, Stefan. 1996. Environmental guidelines: Defining norms for large and varied collections. In *Preservation of Collections: Assessment, Evaluation, and Mitigation Strategies: Papers Presented at the Workshop, Norfolk, Virginia, June 10–11, 1996*, 28-33. Washington DC: American Institute for Conservation of Historic and Artistic Works.
- — — . 1996. Quantified risk reduction in the humidity dilemma. *APT Bulletin* 27(3): 25-29.
- Michalski, Stefan. 1998. Climate control priorities and solutions for collections in historic buildings. *Historic Preservation Forum* 12(4): 8-14 .



- Michalski, Stefan. 1999. Setting standards for conservation: New temperature and relative humidity guidelines are now published/Normes de conservation: Publication de nouvelles directives sur la température et l'humidité relative. *CCI Newsletter/ Bulletin de l'ICC* (24): 3-4. Available at http://www.cci-icc.gc.ca/publications/newsletters/news24/temperature_e.aspx.
- — — . 2000. *Guidelines for Humidity and Temperature for Canadian Archives*. Technical Bulletin 23. Ottawa, Ontario: Canadian Conservation Institute.
- — — . 2002. Double the life for each five-degree drop, more than double the life for each halving of relative humidity. In *13th Triennial Meeting, Rio De Janeiro, 22-27 September 2002: Preprints*, eds. ICOM Committee for Conservation and Roy Vontobel, 66-72. London: James & James.
- — — . 2003. Archives: Analog to digital: Preservation requirements. *ASHRAE Journal* 45 (10): 25-31.
- Neilen, D, M. E. A. Schoffelen, and H. L. Schellen. 2004. Design Study of a local bench heating system for churches, performed by computer simulation. In *Built Environments and Environmental Buildings: 21st International Conference on Passive and Low-Energy Architecture: 19 - 22 September 2004, Eindhoven, The Netherlands*, ed. M. H. de Wit, 799-803. Eindhoven, The Netherlands: TU/e. Available at <http://alexandria.tue.nl/openaccess/635611/p0886final.pdf>.
- — — . 2004. Thermal performance of a local bench heating system for churches. In *ROOMVENT 2004: 9th International Conference on Air Distribution in Rooms: 5-8 September 2004, University of Coimbra, Portugal*, ed. Manuel C. Gameiro da Silva. Available at http://sts.bwk.tue.nl/friendlyheating/Publicaties/Limpens-Neilen_Netherlands_rv04.pdf
- Neuhaus E., and Schellen H. Conservation Heating to Control Relative Humidity and Create Museum Indoor Conditions in a Monumental Building. In *Techologies & Sustainable Policies for a Radical Decrease of the Energy Consumption in Buildings*:



EPIC 2002 AIVC: Proceedings--Actes: The 4th European Conference on Energy Performance & Indoor Climate in Buildings: The 27th Conference of the Air Infiltration & Ventilation Centre: Conference of the IEA Programme on Energy Conservation in Buildings and Community Systems, ed G. Guarracino, Vol. 1, 45-50.

Oreszczyn, T., M. Cassar, and K. Fernandez. 1994. Comparative study of air-conditioned and non air-conditioned museums. In *Preventive Conservation: Practice, Theory and Research: Preprints of the Contributions to the Ottawa Congress, 12-16 September 1994*, 144-48. London: IIC.

Oreszczyn, T., and S. E. C. Pretlove. 1999. Condensation Targeter II: Modelling surface relative humidity to predict mould growth in dwellings. *Building Services Engineering Research and Technology* 20(3): 143-53.

Oreszczyn, Tadj. 2004. Our innate ability to think of new ways to use energy. *Energy and Environment* 15(6): 1011-14.

Oreszczyn, Tadj, Ian Ridley, Sung H. Hong, and Paul Wilkinson. 2006. Mould and winter indoor relative humidity in low income households in England. *Indoor and Built Environment* 15(2): 125-35.

Padfield, Tim. 1987. The dangers of installing air conditioning in historic buildings. In *Old Cultures in New Worlds: Washington, District of Columbia, United States of America, October 10-15, 1987: Symposium Papers/Cultures Anciennes Dans Les Mondes Nouveaux: Washington, District of Columbia, Etats-Unis D'Amérique, 10-15 Octobre 1987: Communications Du Colloque*, 432-39. Washington, DC: ICOMOS United States Committee.

— — —. 1996. Low-energy climate control in museum stores: A postscript. In *ICOM Committee for Conservation: 11th Triennial Meeting, Edinburgh, Scotland, 1-6 September, 1996: Preprints*, ed. Janet Bridgland, 68-71. London: James & James.



- Padfield, Tim. 1998. The Role of Absorbent Building Materials in Moderating Changes of Relative Humidity. Ph.D. thesis, The Technical University of Denmark, Department of Structural Engineering and Materials. Available at <http://www.padfield.org/tim/cfys/phd/ch1a.pdf>.
- — — . 1999. On the usefulness of water absorbent materials in museum walls. In *12th Triennial Meeting, Lyon, 29 August-3 September 1999: Preprints (ICOM Committee for Conservation)*, ed. Janet Bridgland, 83-87. London: James & James Ltd.
- Padfield, Tim. 2005. How to keep for a while what you want to keep forever. Web page, [accessed 8 November 2007]. Available at http://www.padfield.org/tim/cfys/phdk/phdk_tp.pdf.
- Padfield, Tim. Conservation physics: Index. Web page, [accessed 8 November 2007]. Available at <http://www.padfield.org/tim/cfys/>.
- Padfield, Tim. The role of standards and guidelines: Are they a substitute for understanding a problem or a protection against the consequences of ignorance? Web page, [accessed 8 November 2007]. Available at <http://www.padfield.org/tim/cfys/ppubs/dahlem.pdf>.
- Padfield, Tim, Henrietta Berg, Nina Dahlstrom, and Anna-Grethe Rischel. 2002. How to protect glazed pictures from climatic insult. In *13th Triennial Meeting, Rio De Janeiro, 22-27 September 2002: Preprints*, eds. ICOM Committee for Conservation and Roy Vontobel, 80-85. London: James & James.
- Padfield, Tim, and Jesper Stub Johnsen. 1996. The breath of Arrhenius: Air conditioning in photographic archives. In *Research Techniques in Photographic Conservation: Proceedings of the Conference in Copenhagen, 14-19 May 1995*, Mogens S. Koch, Tim Padfield, Jesper Stub Johnsen, and Ulla Bøgvad Kejser, 59-63. Copenhagen: Kongelige danske kunstakademi. Konservatorskolen.
- Padfield, Tim, and Annabel Robinson. 1996. The climate behind pictures mounted against the outer walls of the chapel of Ledreborg, Denmark. In *ICOM Committee for Conservation:*



11th Triennial Meeting, Edinburgh, Scotland, 1-6 September, 1996: Preprints, ed. Janet Bridgland, 72-75. London: James & James.

Pretlove, S. E. C., and T. Oreszczyn. 1998. Climate change: Impact on the environmental design of buildings. *Building Services Engineering Research and Technology* 19(1): 55-58.

Rode, C., A. Holm, and T. Padfield. 2004. A review of humidity buffering in the interior spaces. *Journal of Thermal Envelope and Building Science* 27(3): 221-26.

Roy, Ashok, Perry Smith, and International Institute for Conservation of Historic and Artistic Works, eds. 1994. *Preventive Conservation Practice, Theory and Research: Preprints of the Contributions to the Ottawa Congress, 12-16 September 1994*. London: International Institute for Conservation of Historic and Artistic Works.

Ryhl-Svendsen, Morten, Tim Padfield, Victoria A. Smith, and Franco De Santis. The indoor climate in historic buildings without mechanical ventilation systems. Web page, [accessed 8 November 2007]. Available at <http://www.padfield.org/tim/cfys/ppubs/indclim.pdf>.

Samek, L., A. De Maeyer-Worobiec, Z. Spolnik, L. Bencs, V. Kontozova, L. Bratasz, R. Kozlowski, and R. Van Grieken. 2007. The impact of electric overhead radiant heating on the indoor environment of historic churches. *Journal of Cultural Heritage* 8(4): 361-69.

Schellen, H. L. 2004. Tools to evaluate and or design heating systems for (monumental) churches. In *Built Environments and Environmental Buildings: 21st International Conference on Passive and Low-Energy Architecture: 19 - 22 September 2004, Eindhoven, The Netherlands*, ed. M.H. de Wit, 789-94. Eindhoven, The Netherlands: TU/e. Available at <http://alexandria.tue.nl/openaccess/635611/p0880final.pdf>.



Schellen, H. L., and M. A. P. van Aarle. 2006. Contamination of a church ceiling due to the burning of candles in combination with floor heating. *WTA Journal* 2: 223-37.
http://www.byv.kth.se/avd/byte/reykjavik/pdf/art_170.pdf.

Schellen, H. L., M. A. P. van Aarle, and A. W. M. van Schijndel. 2005. The use of FEMLAB models to protect a monumental church organ in case of hot air church heating. Web page, [accessed 7 November 2007]. Available at <http://www.comsol.se/academic/papers/1165/>.

Schellen, H. L., D. Neilen, A. W. M. van Schijndel, and M. A. P. Aarle. [2008]. Indoor air humidity of monuments and hygrothermal surface conditions. In *Thermal Performance of the Exterior Envelopes of Whole Buildings X: 2-7 December 2007, Clearwater Beach, Florida*, Oak Ridge National Laboratory: Unpublished.

Schellen, H. L. Schijndel A. W. M. van & Aarle M. A. P. Hot air church heating and damage to the monumental interior (presentation at 6th Indoor Air Quality 2004 Meeting (IAQ2004) Padova, Italy, 10-12 November 2004). Web page, [accessed 29 November 2007]. Available at <http://www.isac.cnr.it/iaq2004/alfaaauthor.htm#S>.

Schellen, Henk L., Dionne Neilen, Jos A. W. M. van Schijndel, and Marcel A. P. van Aarle. Indoor air humidity of monuments and hygrothermal surface conditions (presented at 6th Indoor Air Quality 2004 Meeting (IAQ2004) Padova, Italy, 10-12 November 2004). Web page, [accessed 8 November 2007]. Available at <http://www.isac.cnr.it/iaq2004/>.

Schijndel, A. W. M. van, and H. L. Schellen. 2006. Application of an integrated indoor climate & HVAC model for the indoor climate performance of a museum. *Internationale Zeitschrift Für Bauinstandsetzen/ International Journal for Restoration of Buildings and Monuments* 12(3): 219-28.

Schoffelen, M. E. A., D Neilen, and H. L. Schellen. 2004. Measurement Set-up for the Verification of CFD Modeling Used in a Design Study for a Local Bench Heating System for Churches. In *Built Environments and Environmental Buildings: 21st International Conference on Passive and Low-Energy Architecture: 19-22 September 2004, Eindhoven*,



The Netherlands, ed. M.H. de Wit , 821-26. Eindhoven, The Netherlands: TU/e.
<http://alexandria.tue.nl/openaccess/635611/p0898final.pdf>.

Spolnik, Z., A. Worobiec, J. Injuk, D. Neilen, H. Schellen, and R. Van Grieken. 2004. Chemical characterization of airborne particles in St. Martinus Cathedral in Weert, The Netherlands. *Microchimica Acta* 145(1-4): 223-27.

Staniforth, S., W. M. Ballard, E. N. Caner-Saltik, R. Drewello, I.-L. Eckmann, W. E. Krumbein, T. Padfield, and et al. 1994. Group report: what are appropriate strategies to evaluate change and to sustain cultural heritage? In *Durability and Change: The Science, Responsibility, and Cost of Sustaining Cultural Heritage, December 6-11, 1992*, ed. W. E. Krumbein, and P. Brimblecombe, 217–24. Environmental Sciences Research Report ES 15. Hoboken, New Jersey: John Wiley & Sons Inc.

Staniforth, Sarah. 1990. Benefit versus costs in environmental control. In *Managing Conservation: Papers Given at a Conference Held Jointly by the United Kingdom Institute for Conservation and the Museum of London, October 1990*, ed. Suzanne Keene, 28–30. London, UK: The United Kingdom Institute for Conservation.

— — —. 1995. Environmental control in historic buildings. *Transactions (Association for Studies in the Conservation of Historic Buildings)* 20: 33-42.

— — —. 1995. Preventive conservation in National Trust houses. In *International Symposium on the Conservation and Restoration of Cultural Property: Cultural Property and Its Environment: October 11-October 13, 1990*, 145-66. Tokyo: Bunka-cho Tokyo Kokuritsu Bunkazai Kenkyujo Hozon Kagakubu.

— — —. 1997. Today's work for tomorrow's enjoyment: The role of preventive conservation. In *The Victoria Memorial Hall, Calcutta: Conception, Collections, Conservation*, Philippa Vaughan, 120-128. Bombay, Punjab: Marg Publications.

Staniforth, Sarah, and Isobel Griffin. 2000. Damp problems in the Chapel at Cliveden. In *The Conservation of Heritage Interiors: Preprints of a Conference Symposium 2000, Ottawa*,



Canada May 17 to 20, 2000/La Conservation Des Intérieurs Patrimoniaux: Les Prétirages De La Conférence Symposium 2000, Ottawa, Canada Du 17 Au 20 Mai 2000 , 177–84. Ottawa, Canada: Canadian Conservation Institute.

Staniforth, Sarah, Richard Kerschner, and Jonathan Ashley-Smith. 2004. Sustainable access: a discussion about implementing preventive conservation. *Conservation: the Getty Conservation Institute Newsletter* 19(1): 10–16.

Staniforth, Sarah, and Katy Lithgow. 2003. When conservator meets architect and engineer. In *Conservation of Historic Buildings and Their Contents: Addressing the Conflicts*, eds. David Watt, and Belinda Colston, 66-79. Shaftesbury: Donhead Publishing Ltd.

Stewart, John, Sophie Julien, and Sarah Staniforth. 2004. An integrated monitoring strategy at Chedworth Roman Villa (Gloucestershire). In *Preserving Archaeological Remains in Situ? Proceedings of the 2nd Conference, 12-14 September 2001*, ed. Taryn J. P. Nixon, 179-87. London: Museum of London Archaeology Service.

Toledo, Franciza, and Clifford Price. 1998. A note on tropical, hot, and humid museums. *Journal of Conservation and Museum Studies* 4. <http://palimpsest.stanford.edu/jcms/issue4/toledo.html>.

Waller, Robert, and Stefan Michalski. 2005. A paradigm shift for preventive conservation, and a software tool to facilitate the transition. In *ICOM Committee for Conservation : 14th Triennial Meeting, The Hague, 12-16 September 2005: Preprints* , Isabelle Sourbès-Verger, 733-38. London: James & James: Earthscan.

