

LOTHAR HASELBERGER

revised: June 09

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EDUCATION

Technical University, Munich; PhD in Engineering (Dr.-Ing.) with distinction ("sehr gut"), 1985
 Technical University, Munich; Graduate Engineer (Dipl.-Ing.) with best thesis of its category, 1976
 Harvard University, Graduate School of Design, Fulbright Fellow, 1974–75
 Technical University, Munich; MA in Architecture (Vor-Diplom) with distinction ("sehr gut"), 1972
 Humanistisches Gymnasium (Ettal and St.Stephan, Augsburg/ Germany), Abitur (best of class), 1967

AWARDS, FELLOWSHIPS, HONORS

University of Pennsylvania, School of Arts and Sciences: Ira Abrams Memorial Award
 for Distinguished Teaching, 2004

American Academy in Berlin: Berlin Prize Fellowship (Siemens Fellow), 2004

American Academy in Rome: Rome Prize Fellowship, 2004 (declined)

University of Pennsylvania, College, School of Arts and Sciences: research grant for
 undergraduate project, 1999

Institute for Advanced Study, Princeton: Fellow, 1997

Gerda Henkel Stiftung, Düsseldorf (through Institute for Advanced Study): fellowship
 support, 1997

1984 Foundation, Philadelphia:

- project funds (Mapping Alexandria in the Age of Augustus), 2006, 2008
- conference funds (3rd Williams Symposium), 2004
- research funds (Didyma), 2001
- project funds (Mapping Augustan Rome), 2000
- teaching funds (site seminar, Rome), 1999
- project funds (Mapping Augustan Rome), 1999
- fellowship support (Princeton), 1997
- publication grant (catalogue), 1996
- conference funds (2nd Williams Symposium), 1993
- exhibition funds (Parthenon exhibit), 1993

German Archaeological Institute, Berlin: elected Corresponding Member (lifelong), 1988

Technical University, Vienna: 2nd on formal list of three (submitted to Ministry for Education)
 for Ordentlicher Universitätsprofessor für Baukunst und Bauaufnahmen, 1987

Deutsche Forschungsgemeinschaft, Bonn (through German Archaeological Institute): 5-year research grant, 1984

Koldewey-Gesellschaft (Germany): elected member, 1984

German Archaeological Institute: one-year Travel Grant (Reisestipendium), 1978-79

Technical University, Munich: dissertation grant for distinguished students, 1976-78

Fulbright Commission: Fulbright Fellow at Harvard University, 1974-75

PROFESSIONAL ACTIVITIES

Teaching and research positions

University of Pennsylvania, Department of the History of Art: Morris Russell Williams and Josephine Chidsey Williams Professor in Roman Architecture, 2005 – present

University of Pennsylvania, Department of the History of Art: Morris Russell Williams and Josephine Chidsey Williams Associate Professor in Roman Architecture, 1991 – 2005

University of Karlsruhe, Research Associate, 1989 – 91

German Archaeological Institute and Deutsche Forschungsgemeinschaft: Research Associate, 1984 – 89

University of Munich: Teaching Fellow (Lehrbeauftragter), 1984 – 86

University of Augsburg: Teaching Fellow, 1983 – 84

University of Regensburg: Teaching Fellow, 1983

German Archaeological Institute (Berlin/ Munich): Research Associate, 1980 – 84

cross-appointments at the University of Pennsylvania:

Graduate Group in the Art and Archaeology of the Mediterranean World, 1992 – present

Graduate Group in Ancient History, 1992 – present

Consulting Scholar at the Mediterranean Section of the University of Pennsylvania Museum

Research projects and field experience

Alexandria/ Egypt, "Mapping Alexandria in the Age of Augustus," 2005 – present
collaborative student research, with on-site seminar and team-authored publication

Rome, "Mapping Augustan Rome," project director, 1999 – present
(website: www.arthistory.upenn.edu/mappingaugustanrome)

Didyma/ Turkey, Temple of Apollo, principal investigator of its architecture and Greco-Roman construction drawings, 1980 – present

Didyma, Temple of Apollo, academic director of restoration work, German Archaeological Institute, 1993 – 2004

Rome, Mausoleum of Augustus and Pantheon, identification and documentation of Roman construction drawings for front of Pantheon, 1996 – present

Venice, Monastery of S.Francesco, documentation of Carlo Lodoli's architectural work

(18th c.), 1987

Cyclades/ Greece, dissertation field research (fortified Greek country estates) on islands Naxos, Kea, Andros, Amorgos, Siphnos, and Seriphos, 1976-78

Munich, architectural practice (design of community fire station and restoration of suburban villa), 1971-72

Cyclades/ Greece, member of the Technical University, Munich, and Fritz Thyssen Stiftung research project 'Archaic temple building on Paros and Naxos' (with annual 2-month campaigns, directed by G.Gruben), 1970 – 79

Museum and exhibition experience

Fisher Fine Arts Library, University of Pennsylvania, "Reviving Vitruvius—Six Centuries of *De architectura*," co-curator (with 6 students), 1995

Arthur Ross Gallery, University of Pennsylvania, "The Parthenon—Glory on the Acropolis. Architectural drawings, historic depictions, ancient artifacts," curator, 1993

Deutsches Architekturmuseum, Frankfurt: exhibition "Didyma und Milet im Modell" (Didyma and Miletos represented as models), with H.-P. Schwarz and W. Voigtländer, 1986

Conferences organized

"Imaging Ancient Rome. Documentation—Visualization—Imagination," Third Williams Symposium on Classical Architecture (in collaboration with J. Humphrey); international conference, organized and chaired. American Academy in Rome, British School at Rome, and Deutsches Archäologisches Institut Rom, May 20-23, 2004.

"Stadt und Umland" (City and Hinterland), chaired session. German Archaeological Institute, Berlin, Oct. 5, 1997.

"Poster Session," organized and chaired, Society of Architectural Historians (SAH), Annual Meeting, Philadelphia, April 28, 1994.

"Säule und Gebälk" (Column and Entablature), co-chaired session with J. Rasch. German Archaeological Institute, Berlin, June 17, 1994.

"Refinements in Classical Architecture: Curvature," Second Williams Symposium on Classical Architecture; international conference, organized and chaired. University of Pennsylvania, April 2-4, 1993.

"Buildings as Artifacts – Modes and Methodes of Structural Archaeology," co-chaired with C.L. Striker. Annual SAH Meeting, Charleston, April 1993.

PUBLICATIONS

Books

Mapping Augustan Rome, principal investigator and author. Portsmouth: *Journal of Roman Archaeology*, suppl. 50 (revised edition, 2008).

Urbem adornare – *Die Stadt Rom und ihre Gestaltumwandlung unter Augustus. Rome's*

- Urban Metamorphosis under Augustus* (German, with English translation of main text by A. Thein), Portsmouth: *Journal of Roman Archaeology*, suppl. 66 (2007).
- Imaging Ancient Rome: Documentation – Visualization – Imagination*. Third Williams Symposium on Classical Architecture; editor, together with John Humphrey. Portsmouth: *Journal of Roman Archaeology*, suppl. 61 (2006).
- Mapping Augustan Rome*, principal investigator and author. Portsmouth: *Journal of Roman Archaeology*, suppl. 50 (2002).
- Reviews:
Times Literary Supplement, June 6th, 2003, 31-32 (G. Wolf)
American Journal of Archaeology 108 (2004) 130-32 (D. Favro)
Journal of Roman Studies 94 (2004) 183-90 (K. Brodersen)
Göttinger Forum für Altertumswissenschaft 7 (2004) 1051-62 (A. Grüner)
- Appearance and Essence—Refinements of Classical Architecture: Curvature*, Second Williams Symposium on Classical Architecture; editor and principal author. Philadelphia: University of Pennsylvania Museum (1999).
- Reviews:
Journal of the Society of Architectural Historians 60 (2001) 84-86 (M.M. Miles)
American Journal of Archaeology 106 (2002) 492-94 (L.F. Ball)
Revue Archéologique 2002, 298-99.
- Befestigte Turmgehöfte des Hellenismus* (Fortified Country Estates of the Hellenistic Period), Ph.D. Dissertation (xerox publication), Technical University, Munich, 1985.
- in preparation:
- Mapping Alexandria in the Age of Augustus*, principal investigator and author. *Journal of Roman Archaeology*, suppl. series.
- Designing Graeco-Roman Architecture. From Didyma to the Pantheon, 1980-2010*; German version: *Bauzeichnungen der Klassischen Antike – Neue Funde und Fragen, 1980–2010*.
- The Best Way to Build a City – A Theory of Ancient City Planning according to Vitruvius*; German version: *Die beste Form der Stadt – Eine antike Theorie des Städtebaus nach Vitruv.*

Catalogue, dictionary, and book contributions

- "Bending the Truth: Curvature and Other Refinements at the Parthenon," in J. Neils (ed.), *The Parthenon: From Antiquity to the Present*. New York: Cambridge University Press (2005) 101-57.
- "Reinste Quellen – Der Apollontempel von Didyma und seine Bauzeichnungen" (*Purest Sources – The Temple of Apollo at Didyma and its Construction Drawings*), in Deutsches Archäologisches Institut (ed.), *Archäologische Entdeckungen. Die Forschungen des Deutschen Archäologischen Instituts im 20. Jahrhundert*. Mainz: von Zabern (2000) 235-42 (invited co-author to represent one century of German archaeological research).

- The Roman Villa–Villa Suburbana*. First Williams Symposium on Classical Architecture, editor, unnamed, for A. Frazer † (Philadelphia: University of Pennsylvania Museum, 1997).
- "The Construction Plans for the Temple of Apollo at Didyma," *Scientific American* (ed.), *The Origins of Technology*. New York (1997) 72-80 (reprint).
- Reviving Vitruvius—A Catalogue of Editions at the University of Pennsylvania*, catalogue, editor (Philadelphia: Eastern Shore Arts, Rock Hall, 1996).
- "Antike Planzeichnungen am Apollontempel von Didyma" (Ancient Construction Drawings at the Temple of Apollo at Didyma, 1985) and "Entzifferung eines antiken Werkplans" (Deciphering an Ancient Blueprint Drawing, 1995), in *Spektrum der Wissenschaft* (ed.), *Frühe Stadtkulturen*. Heidelberg (1997) 160-73, 174-82 (reprint).
- "Measurement"; "Module"; "Proportion" s.v. Greece, Ancient, in J. Turner (ed.), *The Dictionary of Art*. London: Macmillan / New York: Grove (1996) 410-13.
- "A Building Site Once Again: Phoenix' Rise or Swan's Last Song?" in R. Economakis (ed.), *The Restoration of the Athenian Acropolis*. London: Academy Editions (1995) 214-17.
- "Das 'Archilochoskapitell' von Paros" (The 'Capital of Archilochos' on Paros) and "Werkzeichnungen am Jüngerem Apollontempel von Didyma" (Construction Plans for the Temple of Apollo at Didyma), in H. Bankel (ed.), *Haller von Hallerstein in Griechenland*, exhibition catalogue. Berlin: Reimers (1986) 213-14.
- "Pläne von Plänen" (Drawing Plans of Plans), in W. Voigtländer (ed.), *Didyma und Milet im Modell*, exhibition catalogue. Frankfurt: Deutsches Architekturmuseum (1986) 38-47.

Articles (* refereed; European journals function with an internal review or jury system; + invited conference contribution)

in press:

- + "The Pantheon: Nagging Questions to No End," in G. Grasshoff et al. (eds.), *The Pantheon in Rome. Contributions to the Conference, Bern, November 9-12, 2006* (2009) 171-86.
- + "Exactly Corresponding: Virtuelle Spolien aus Athen in Philadelphia. Eine Fallstudie zur Architektur des Klassizismus," in Th. Schattner (ed.), *Spolien im Umkreis der Macht. Iberia Archaeologica*, 2008.
- 2008 * "Rediscovering the Architecture of Alexandria," *Journal of Roman Archaeology* 21 (2008) 703-12 (long review of J. McKenzie, *The Architecture of Alexandria and Egypt*, 2007).
- 2003 * "Debent habere gravitatem – Pycnostyle Säulenstellung und augusteische Tempelbaukunst" (Pycnostyle Colonnades and Augustan Architecture), *Mitteilungen des Deutschen Archäologischen Instituts, Römische Abteilung* 110 (2003), 285-331.
- 2000 * "Imaging Augustan Rome," *Journal of Roman Archaeology* 13 (2000) 515-28 (long review of D. Favro, *The Urban Image of Augustan Rome*, 1996).
- 1999 + "Geometrie der Winde, windige Geometrie: Städtebau nach Vitruv und Aristophanes" (Geometry of the Winds–Windy Geometry: Urban Planning in Vitruvius and Aristophanes), in Deutsches Archäologisches Institut (ed.), *Stadt und Umland–Diskussionen zur Archäologischen Bauforschung* 7. Mainz: von Zabern (1999) 90-100.

- 1997 * "Architectural Likenesses – Models and Plans of Architecture in Classical Antiquity," *Journal of Roman Archaeology* 10 (1997) 77-94;
– translated as: "Semejanzas arquitectónicas – Maquetas y planos en la antigüedad clásica," in Centre de Cultura Contemporània de Barcelona (ed.), *Las casas del alma–Maquetas arquitectónicas de la antigüedad*, exhibition catalogue. Barcelona: Àmbit Serveis (1997) 95-104.
- 1996 * "Eine 'Krepis von 200 Fuß gestreckter Länge' – Bauarbeiten am Jüngerem Apollontempel von Didyma nach der Urkunde Nr. 42" (A 'krepis of 200 foot in straight length'– Construction Work for the Temple of Apollo at Didyma according to the Building Inscription no.42), *Istanbuler Mitteilungen* 46 (1996) 153-78.
+ "Die Fronthalle des Pantheon – Ein Werkriß des Dachstuhls?" (The Pronaos of the Pantheon – An Ancient Plan for the Roof Construction?), in E.L.Schwandner (ed.), *Säule und Gebälk–Diskussionen zur Archäologischen Bauforschung* 6, Mainz: von Zabern (1996) 182-89.
- 1995 * "Entzifferung eines antiken Werkplans," *Spektrum der Wissenschaft* (August 1995) 74-82;
– translated as * "Deciphering a Roman Blueprint," *Scientific American* (June 1995) 56-61.
- 1994 * "Ein Giebelriß der Vorhalle des Pantheon – Die Werkrisse vor dem Augustusmausoleum" (A Construction Plan for the Pantheon Pediment–The Drawings at the Mausoleum of Augustus), *Mitteilungen des Deutschen Archäologischen Instituts, Römische Abteilung* 101 (1994) 279-307.
* "Antike Bauzeichnung des Pantheon entdeckt" (An Ancient Construction Plan for the Pantheon Discovered), *Antike Welt* (1994) 323-39.
- 1991 * "Seilkurve oder Ellipse? Zur Herstellung antiker Kurvaturen nach dem Zeugnis der didymeischen Kurvenkonstruktion" (Catenary or Elliptic Curve? Creating Ancient Curvature as Attested by the Didymean Curve Construction) with H.Seybold contributing, *Archäologischer Anzeiger* (1991) 165-88.
* "Zur Herstellung antiker Kurvaturen–Konstruktion mit Seilkurve oder Kreisbogen?" (Creating Ancient Curvature: Catenary or Circular Construction?), *Spektrum der Wissenschaft* (August 1991) 22-26.
+ "Aspekte der Bauzeichnungen von Didyma" (Aspects of the Ancient Plan Drawings at Didyma), *Revue Archéologique* (1991) 99-113.
- 1990 + "Der Eustylos des Hermogenes. Zusammenfassung" (The *Eustylos* of Hermogenes. Summary), in W. Hoepfner and E.L. Schwandner (edd.), *Hermogenes und die hochhellenistische Architektur*. Mainz: von Zabern (1990) 81-83.
- 1989 + "Die Zeichnungen in Vitruvs *De architectura*–Zur Illustration antiker Schriften über das Konstruktionswesen" (The Drawings in Vitruvius' *De architectura*– Illuminations in Ancient Treatises on Construction), *Bulletin Antieke Beschaving* Suppl.2. Leiden: Brill (1989) 69-70.
- 1985 * "Antike Planzeichnungen am Apollontempel von Didyma," *Spektrum der Wissenschaft* (April 1985) 70-83;
– translated as * "The Construction Plans for the Temple of Apollo at Didyma," *Scientific American* (Dec. 1985) 126-32.
- 1984 + "Die Werkzeichnung des Naiskos im Apollontempel von Didyma" (The Construction Plan for the Naiskos in the Temple of Apollo at Didyma) Deutsches Archäologisches Institut (ed.),

- Bauplanung und Bautheorie–Diskussionen zur Archäologischen Bauforschung* 4. Berlin: Wasmuth (1984) 111-19.
- 1983 * "Bericht über die Arbeit am Jüngerem Apollontempel von Didyma–Zwischenbericht" (Work on the Temple of Didyma. Intermediate Report) *Istanbuler Mitteilungen* 33 (1983) 90-123.
- * "Die Bauzeichnungen des Jüngerem Apollontempels von Didyma" (The Construction Plans for the Temple of Apollo at Didyma), *architectura–Zeitschrift für Geschichte der Baukunst* (1983) 13-26.
- 1980 * "Werkzeichnungen am Jüngerem Didymeion–Vorbericht" (Ancient Construction Plans at Didyma. Preliminary Report), *Istanbuler Mitteilungen* 30 (1980) 191-215.
- 1979 + "Befestigte Turmgehöfte im Hellenismus" (Fortified Country Estates of the Hellenistic Period) in: Deutsches Archäologisches Institut (ed.), *Wohnungsbau im Altertum–Diskussionen zur Archäologischen Bauforschung* 3. Berlin: Wasmuth (1979) 147-51.
- * "Dächer griechischer Wehrtürme" (Roofs of Greek Fortification Towers), *Mitteilungen des Deutschen Archäologischen Instituts, Athenische Abteilung* 94 (1979) 93-115.
- 1978 * "Der Paläopyrgos von Naussa auf Paros" (The *Paleopyrgos* of Naussa on Paros), *Archäologischer Anzeiger* (1978) 345-75.
- 1972 * "Der Pyrgos Chimarru auf Naxos" (The *Pirgos Chimarrou* on Naxos), *Archäologischer Anzeiger* (1972) 431-37.

Book reviews

- J. McKenzie, *The Architecture of Alexandria and Egypt* (2007), *Journal of Roman Archaeology* 21 (2008), see above.
- D. Favro, *The Urban Image of Augustan Rome* (1996), *Journal of Roman Archaeology* 13 (2000), see above.
- W. Müller, *Architekten in der Welt der Antike* (1989), in *Spektrum der Wissenschaft* (Jan. 1992) 143-59.
- H. Dollhopf and K. Dornisch, *Türkei–Griechische und Römische Ruinenlandschaften* (1988), in *Spektrum der Wissenschaft* (May 1989) 135-37.

EXHIBITIONS, TV PRODUCTIONS

- PBS (New York) series "History and Memory": filmed interview, Nov. 2008.
- NOVA series, PBS (Circus Productions Ltd., London): TV contribution on "Secrets of the Parthenon", premiering Jan. 29, 2008.
- History Channel, New York: TV contribution on "Ancient Greece and Engineering," 2006.
- Greystone Communications, CA: TV report on the Pantheon and its identified construction plans, 1996.
- Independent Television (ITV) London, series "Historic Puzzles" (discovery channel): TV report on the "plan archive" at Didyma, 1995.

- Austrian Broadcasting Corporation (ORF) Vienna, series "Wissen Spezial": TV interview on the discovered ancient plan drawings at Didyma, 1989.
- Hallerstein-Gesellschaft, Munich, exhibition "Haller von Hallerstein in Griechenland" (Munich, Nuremberg, Berlin): special section on my measured drawings from Paros/Greece and Didyma, 1986.
- Deutsches Architekturmuseum, Frankfurt, exhibition "Didyma und Milet im Modell": special section on my measured drawings from Didyma, 1986.
- Bertelsmann Fachzeitschriften, Berlin, for *Daidalos–Berlin Architectural Journal*: large-scale poster *Antike Werkzeichnungen* on Didyma drawings, 1984.

PUBLIC LECTURES

Numerous lectures at universities and academic institutions, such as Bavarian Academy of Sciences, Koldewey-Gesellschaft, Technical University of Vienna. Since 1987 (selection):

- "Eleusis – a Case Study in Alexandrian Topography," Department of Classics, University of Pennsylvania, Mar. 19, 2009.
- "Iconic Ionic – from the Acropolis to Vitruvius," University of Notre Dame, Oct. 8, 2008.
- "*Not just beauty but necessity: Creating curves in Greco-Roman Architecture*," Max-Planck-Institut für Wissenschaftsgeschichte; *Creating Shapes in Civil and Naval Architecture. A Cross-Disciplinary Workshop*, Berlin, Dec. 8, 2006.
- "The Pantheon – Nagging Questions," International Conference on the Pantheon, University of Bern, Switzerland, Nov. 10, 2006.
- "*Exactly corresponding: Virtuelle Spolien aus Athen in Philadelphia*," German Archaeological Institute (Madrid), International Conference on Ancient *spolia*, Toledo, Spain, Sep. 22, 2006.
- "The Pantheon – one of Rome's bestknown buildings (or is it?)," America-Italy Society of Philadelphia, Apr. 5, 2006.
- "Refining the Primitive Hut – the Parthenon," Parthenon Colloquium, Vanderbilt University, Nashville, Apr. 1, 2006.
- "Practices of Design at the Temple of Apollo in Didyma," with seminar and round-table talk, University of Regensburg, May 31, 2005.
- "Drawing and Design in Classical Antiquity," Max-Planck-Institut für Wissenschaftsgeschichte, Workshop "Der geometrische Entwurf der Hagia Sophia," Berlin, May 27, 2005.
- "Designing Graeco-Roman Architecture: From Didyma to the Pantheon," Institute of Archaeology, Kiev/ Ukraine, Oct. 26, 2004; and American Academy, Berlin, Nov. 16, 2004.
- "The Hippodamic City: From Athens to Philadelphia," Conference *Metropolis: Ancient Athens and Philadelphia*, Hellenic University Club, Philadelphia, May 1, 2004.
- "Ornament and City: The *kosmos* of Ancient Design," Politecnico di Bari, Italy, Feb. 26, 2004.
- "Mapping Augustan Rome – Towards the Digital Book" (with D.G. Romano and A.B. Gallia), Center for Italian Studies Colloquium, University of Pennsylvania, Oct. 22, 2003.
- "Mapping Augustan Rome – An Ongoing Process" (with E.A. Dumser and A.G. Thein), chaired Round Table, German Archaeological Institute, Rome, May 26, 2003.

- "*Urbem adornare* – Rome's Urban Metamorphosis under Augustus" (in German), 8th International Colloquium on Klassische Bauforschung, Berlin, Nov.1, 2002.
- "Patterns of Giving – Patronage and Presence in Greek Sanctuaries," CLASSICAL AMERICA at National Academy of Design, New York, Apr.12, 2000.
- "Latest Architecture in Berlin" (in German), seminar-workshop, Joseph H.Lauder Institute, University of Pennsylvania, Feb. 26, 1999.
- "Research and Restoration at Didyma," Institute of Fine Arts, New York, Sep.17, 1998.
- "Planning the Best City: Alexandria–Pergamon–Rome," Princeton University, Dept. of Ancient History, Oct.15, 1998.
- "Looking Back – Looking Beyond," keynote speaker at conference "American Archaeology in Classical Lands: The Next 100 Years," University of Pennsylvania Museum, Philadelphia, March 1st, 1997.
- "The Architectural Image in Greece," Centre de Cultura Contemporania, Barcelona, Apr. 16, 1997.
- "Geometry of the Winds – Windy Geometry" (in German), 7th International Colloquium on Klassische Bauforschung, Berlin, May 8, 1997.
- "Berlin – a City Rebuilt" (in German), Joseph H.Lauder Institute, University of Pennsylvania, Feb. 24, 1997.
- "Germany – Tradition and Transformation," Department of Germanic Languages and Literatures, University of Pennsylvania, March 24, 1997.
- "Regressive Progress: Designing Columns at Didyma and at Pergamon," AIA Annual Meeting, New York, Dec. 29, 1996.
- "Issues of Restoration: the Temple of Apollo at Didyma" (in German), Round-Table on Didyma, German Archaeological Institute, Berlin, Feb. 24, 1995
- "The Pantheon's Entablature and Pediment" (in German), 6th International Colloquium on Klassische Bauforschung, Berlin, June 17, 1994.
- "Limits of Looking: the Columnar Front of the Pantheon," Institute of Fine Arts, New York, Oct. 4, 1994.
- "The Eustylos of Hermogenes or The Right Way to Build a Temple," Princeton University, Oct. 6, 1994.
- "Working Drawings at the Mausoleum of Augustus: the Pediment of the Pantheon," AIA Annual Meeting, Washington, Dec. 30, 1993.
- "Designing Marble Joints: the Frieze of the Temple of Apollo at Didyma," lecture and workshop, University of Notre Dame, Feb. 23-24, 1993.
- "Curvature – the Evidence of Didyma," 2nd Williams Symposium on Classical Architecture, Philadelphia, April 3, 1993.
- "Classical Greek Columns: Design and Construction," CLASSICAL AMERICA and The Carpenter's Company of Philadelphia, Philadelphia, Sep.14, 1992.
- "German Art History – an Overview," series of 8 lectures, Joseph H. Lauder Institute, University of Pennsylvania, spring 1992.
- "The Recurrent Search for a Magical Key," SAH Annual Meeting, Albuquerque, April 1992.
- "Philosophy–Geometry: Plato's *Meno* (82b-85b) as an Educational Approach," in conference "Traditions in Paradigmatic Architectural Education," University of Notre Dame, Oct.4, 1991.
- "Designing an Arcuated Frieze at Didyma: a New Ancient Blueprint" (in German), University of Karlsruhe, May 29, 1991.
- "Catenary or Elliptic Curve? Creating Ancient Curvature" (in German), 5th International Colloquium on Klassische Bauforschung, Berlin, Feb. 1990.

- "Greek Proportions: in Search of a Magic Key," conference "Harmony in Proportion. Vitruvius Colloquium," University of Notre Dame, Nov.3, 1990.
- "The Quest for Classical Proportions: Doorways at the Temple of Didyma," lecture and workshop, University of Pennsylvania, Nov. 5-6, 1990.
- "Proportion and Curvature in Greek Architecture" (in German), University of Karlsruhe, Dec. 1989.
- "Planning a Greek Temple: Didyma," Peter H. Brieger lecture (with workshop), University of Toronto, March 13, 1989.
- "Vitruvius and the Ionic Temple," lecture and workshop at conference "Rule and Invention in Vitruvius," University of Notre Dame, March 8 and 11, 1989.
- "The Eustylos of Hermogenes" (in German), XIIIth International Congress for Classical Archaeology, Berlin, July 28, 1988.
- "Aspects of the Didyma Blue-prints" (in German), conference "Espace et architecture sacres," Ecole Normale Superieure, Paris, June 2, 1988.
- "Ancient Blueprint Drawings at Didyma" (in German), Wissenschaftszentrum Bonn, March 8, 1988.
- "The Illustrations in Vitruvius' *De architectura*" (in German), International Symposium on Vitruvius' *De architectura*," University of Leiden, Leiden, Jan. 1987.
- "Colossal Building in Antiquity: Didyma" (in German), Theodor Wiegand Gesellschaft, Berlin, July 21, 1987.
- "Discoveries at Didyma," conference "Applied Archaeology," University of Illinois at Chicago, Nov. 18, 1987.

UNIVERSITY ACTIVITY AND SERVICE

Administration

Undergraduate Chair, Department of the History of Art, 2001–04, 2005–2009.

Chair of Graduate Group in Art and Archaeology (AAMW), Department of the History of Art, 1992–95.

Committees

Department of the History of Art:

- chair, Undergraduate Education Committee, 2008-09.
- Undergraduate Curriculum Review Committee, 2007.
- chair, Image Archive Committee, 1999–2001.
- Pilot Curriculum group, 1999–2000.
- Freshmen Advisor, 1994–95, 1998–2000
- Executive Committee, Graduate Group in Art and Archaeology, 1996–98.
- Search Committee, Classical Art, 1992.

School of Arts and Sciences

- Search Committee, Historic Preservation, 2001–03.
- Review Committee, Graduate Group in Historic Preservation, 2000–01.
- Committee on Individualized Study, 1999–2001.
- Mellon Fellowship Committee: 1992.

University

- Arthur Ross Gallery, Resource and Oversight Committee, Chair, 2003–present.
- University House Committee, 2005–present.
- Arthur Ross Gallery, Resource and Oversight Committee, 1994–2003.
- College of General Studies (CGS), Program Committee, 1996–97.
- Search Committee for Director of University Museum, 1993–94.

SERVICE OUTSIDE THE UNIVERSITY

German Archaeological Institute, Rome: *Mitteilungen des Deutschen Archäologischen Instituts, Römische Abteilung*, appointed member of external review board, since 2009.

American Academy in Rome: Archaeology Advisory Committee, appointed member 2008-11.

German Archaeological Institute, Berlin: *Jahrbuch des Deutschen Archäologischen Instituts*, appointed member of external review board, 2006-11.

Journal of Roman Archaeology: outside referee, 1995-present.

German Archaeological Institute, Rome: *Mitteilungen des Deutschen Archäologischen Instituts, Römische Abteilung*: outside referee, 2005-2009.

Greek Ministry of Culture, Athens, Acropolis Restoration: invited consultant

- 5th International Meeting on the Restoration of the Acropolis Monuments, Athens, Oct. 4-6, 2002.
- 4th International Meeting on the Restoration of the Acropolis Monuments, Athens, May 28-30, 1994.

American Journal of Archaeology: outside referee, 1995-2000.

Society of Architectural Historians (SAH), Philadelphia chapter: vice-president, 1993-96.

DISSERTATIONS SUPERVISED AND STUDENT TRAINING

Dissertations completed

D. Borbonus, *Hic situs est: Roman Columbaria in Central Italy*, Ph.D. Art and Archaeology, 2006.

E. A. Dumser, *Building Power: The Architectural Patronage of Maxentius (A.D.306-312)*, Ph.D. History of Art, 2005.

M. Ytterberg, *Hadrian's Villa and the Representation of Empire*, Ph.D. Architecture, 2005.

A. DiRoma, *The Serial Production of the Architectural Ornament* (in Italian), dissertation committee, Politecnico di Bari, 2004

T.J. Morton, *Peripheral Center: The Roman Basilica at Meninx and the Impact of Luxury*, Ph.D. History of Art, 2003.

A.G. Thein, *Sulla's Public Image and the Politics of Civic Renewal*, Ph.D. Ancient History, 2002, with B. Shaw and C. Brennan.

B.A. Robinson, *Fountains and the Culture of Water at Roman Corinth*; Ph.D. History of Art, 2000.

P.D. Scotton, *The Julian Basilica at Corinth. An Archaeological Investigation*; Ph.D. Art and Archaeology, 1997.

Dissertations in progress

S. Zink, *The Temple of Apollo on the Palatine. A Case Study in Augustan Temple Design*, Ph.D. Art and Archaeology (since 2006).

Honors and Masters theses

- R. Julis, *Establishing Legitimacy: Augustus' Building Program*, thesis paper, Department of Classics, 2004, with B. Shaw.
- L. Milkova, *Representations of the Sacred Marriage Ceremony: The Thracian Tombs at Sveshtari and Kazanluk*, 2002.
- R. Laux, *Documentation and Representation of an Ancient Column at Didyma, Turkey* (in German), Diplomarbeit, Fachhochschule Karlsruhe/Germany, 2002, coadvisor.
- G. Petruccioli, *Rome. The Urban Archaeology of the Via Triumphalis*, honors thesis, Department of Classics, 1999.
- D. Andrianou, *The Temple of Nike on the Athenian Acropolis*, M.A. Art and Archaeology, 1996.
- J.-P. Beugoms, *Military Castra in the Roman East*. M.A. Art and Archaeology, 1995.
- S. Bartusis, *Focus on the Framework: Architectural Representations on Greek Vases, 580-480 B.C.*, M.A. History of Art, 1994.

Special student training (since 1991)

Site seminars abroad:

- Alexandria/ Egypt: supervised and organized site seminar (1 faculty, 2 students), Mar. 8-15, 2008.
- Alexandria/ Egypt: archaeological site seminar, with 9 students of graduate seminar, Mar. 3-11, 2006.
- Rome: archaeological site seminar, with 10 students of graduate seminar, Mar. 4-14, 1999.

Student summer research:

research stipends for Alexandria project, organized with support of 1984 Foundation, 2008: S. Bernard (2 months); S. Zink (1.5 months); M. Tokumitsu (1 month).

Summer fieldwork abroad:

- Rome, Pantheon and Palatine Temple of Apollo: S. Zink (AAMW), 2006.
- Didyma/ Turkey, Temple of Apollo: R. Laux (Fachhochschule Karlsruhe/Germany), 2001; D. Borbonus (AAMW), 2000; D. Andrianou (AAMW), 1996.
- Rome, Mausoleum of Augustus: B.A. Robinson (ArtH), 1996.

Undergraduate Summer Field Research supervised:

- R. MacNeill, "The 'Primitive Hut' in the Modern City – Protest Architecture in Philadelphia," Benjamin Franklin Scholars Program and College Research Grant Program. Philadelphia, 2004.
- G. Petruccioli, "Rome. The Urban Archaeology of the Via Triumphalis," College Research Grant Program. Rome, 1998.

Teaching assistants supervised:

M. Andrews, 2009; M. Andrews, E. Avery, S. Bernard, P. Clericuzio, M. Routh, 2008; J. Leidwanger, S. Martino, J. Perratore, E. Pinar, 2007; A. Greist, J. Perratore, G. Shamos, S. Zink, 2006; P. Sohoni, M. Mehta, S. Martino, V. Follo, 2005; M. Clendenin, J.H. Rice, R. Steffens, K. Sonik, 2003; L. Meiberg, G. Varinlioglu, T.J. Morton, 2002; A.H. Crystal, 2001; L. Milkova, 1999.

Independent studies (one term each):

Graduates: M. Andrews (AAMW), 2009; M. Andrews, A. Reiterman (AAMW), E. Pinar (ArtH), 2008; S. Zink (AAMW), 2007; J. Leidwanger (AAMW), C. Teuchler (Classics), S. Zink (AAMW), 2006; S. Zink (AAMW), 2005; L. Milkova; J. Mercurio; D. Borbonus; K. Tracy (Classics), G. Varinlioglu; M. Ytterberg (School of Design); T.J. Morton; E. Dumser; L. Taylor; B.A. Robinson; C. Pastore; H. Steinmetz-Lovette; D. Andrianou; S. Leigh; R. Lewis School of Design; B. Mitrovic (School of Design); S. Tegtmeier. – Undergraduates: R. Julis, 2004 (Classics); G. Petruccioli (Classics); A. Zanoni.

Courses taught (since 1992)

ArtH 001 / Coll 004 "Architect and History" (ArtH gateway course, approved for pilot curriculum)

Human experience is shaped by the built environment. This new course introduces students to the interrelated fields of architecture, art history, and engineering and explores great architectural monuments from the ancient to the modern period, from India across the Mediterranean and Europe to the US. The focus will be on understanding these works in their structure and function, both as products of individual ingenuity and reflections of *Zeitgeist*. Questioning these monuments from a present-day perspective across the cultures will be an important ingredient, as will be podium discussions, guest lectures, excursions, and all kinds of visualizations, from digital walk-throughs to practical design exercises. – No prerequisites.

ArtH 100 "The Architecture and Culture of Roman Bathing: Temples of the Flesh" (freshmen seminar) – see below, ArtH 301 "Roman Bathing Culture."

ArtH 100 "Classical Architecture – Introduction" (freshmen seminar)

Comparing and contrasting outstanding examples of Greek and Roman architecture – single buildings as well as larger architectural compositions and city plans – forms the focus of this freshmen seminar. Special emphasis will be laid on the guiding principles of these structures and the diverse, or common, Greek and Roman approaches to comparable building tasks (such as temples, theaters, market places, fortifications, city plans). Methodological 'tools' for these analyses will be discussed and a broader historical context developed. Field trips to the Second Bank Building and the Art Museum in Philadelphia.

ArtH 106 "Architect and History" (pilot curriculum course, undergraduate level; predecessor of current ArtH 001)

ArtH 220/620 "Greek Art and Architecture" (Greek standard course, regularly taught, undergraduate and graduate level)

An intensive introduction to the art and architecture of the Greek world from its formative phase to the universal acceptance (Geometric to Hellenistic period). Emphasis on topics ranging from concepts of order, tectonic structure, decoration, and proportion to issues of space, urbanism, and the theories of Vitruvius.

ArtH 221/621 "Roman Art and Architecture" (Roman standard course, regularly taught, undergraduate and graduate level)

An intensive introduction to the art and architecture of Rome and her empire from Republican and later Hellenistic times to the Imperial peak. Emphasis on topics ranging from portraiture, wall painting, architecture to the specific Etrusco-Roman notion of space and the Greek paradigm in artistic theory and practice.

ArtH 225/625 “Greek Architecture and Urbanism” (lecture class, undergraduate and graduate level)

Introduction to the art of building and city planning in the ancient Greek world, 7th–1st c. BC. Emphasis on concepts of organizing space, on issues of structure, materials, decoration, proportion, and the Mycenaean and eastern heritage as well as on theory and practice of urbanism as reflected in ancient cities (Athens, Pergamon, Alexandria) and writings (Plato, Aristotle, and others). Excursions to the Penn Museum and Philadelphia. No prerequisites.

ArtH 226/626 “Roman Architecture and Urbanism” (lecture class, undergraduate and graduate level)

Introduction to the art of building and city planning in the Roman world, 6th c. BC to 2nd c. AD. Emphasis on concepts of organizing space, on issues of structure, materials, decoration, proportion, and the Etruscan and Greek heritage as well as on theory and practice of urbanism as reflected in ancient cities (Rome, Ostia, Roman Alexandria, Timgad) and writings (Vitruvius, and others). Excursions to the Penn Museum and Philadelphia. No prerequisites.

ArtH 227/ 627 "Neo-Classical Architecture" (lecture class, undergraduate and graduate level)

An intensive introduction to the architecture of the Neoclassical century (ca.1750 – 1850), as it made its appearance all over Europe and parts of North America. Following an exploration of the roots and intellectual preconditions of this "true style," a selection of major monuments in France, Germany, Britain, and the USA will be analyzed as well as some forms of Neoclassical revival in the early decades of the 20th century. Field trips to the Second Bank Building and the Art Museum in Philadelphia. No prerequisites.

ArtH 301 "Roman Bathing – Culture and Technology" (undergraduate seminar)

The culture and technology of Roman bathing as reflected in the archaeology of buildings and in ancient texts will be the focus of this undergraduate seminar. We will explore the technicalities of refined heating and water distribution systems, including the building of aqueducts, as much as concepts of architectural design, decoration, and the role of bath buildings for entertainment and the demonstration of public luxury on an imperial scale.

ArtH 301 "Ancient Theaters" (undergraduate seminar)

Exploring and analyzing both, built monuments of Greek and Roman theater architecture and the theoretical accounts of Vitruvius, is the focus of this Undergraduate Seminar. Issues ranging from the details of architectural design to the religious-Dionysian roots of theatrical performance will then set the wider "stage" for understanding the physical, intellectual and religious environment of ancient tragedy, satyr-play, and comedy.

ArtH 301 "Classical Architecture – Introduction" (undergraduate seminar) – see above under ArtH 100.

ArtH 528 "Apollodorus of Damascus: a Roman Imperial Master Architect and Engineer" (graduate proseminar)

This proseminar explores the œuvre of Apollodorus of Damascus, the most celebrated architect and engineer of Roman imperial times, within the broader context of Roman architecture. The building type of the imperial forum was cast into its final, unsurpassed form with Apollodorus' main creation, the forum of Trajan. Almost as much admired was his audacious bridge construction over the Danube (preserved in an ancient description and in the depiction on the column of Traian). The baths of Trajan in Rome are convincingly attributed to Apollodorus. Out of his voluminous written work, only the treatise on the construction of war machines, dedicated to Trajan, has survived. – These monumental and textual sources with our questions on them will form the core of the course.

ArtH 528 "The Athenian Acropolis. Architecture and Scholarship" (graduate proseminar)

For more than 20 years now, the Akropolis of Athens has been the most important and innovative 'ancient' (re)building site ever since the end of Antiquity. Exploring the major architectural monuments – Parthenon, Erechtheion, Propylaea, and Temple of Nike – in light of recent scholarship and discoveries, especially of Manolis Korres, will be the focus of this proseminar. It will be of interest for students of art,

architecture, archaeology, and classics. Knowledge of architectural drawing (incl. CAD) or Latin and Greek is most welcome but no prerequisite.

ArtH/AAMW 529 "Vitruvian Studies" (graduate proseminar)

Research on Vitruvius' Ten Books on architecture, art, and construction: structure, sources, intended readers; formation of art theory and its relation to practice; statics and esthetics; Greek model vs. Italic tradition; discrepancy with the ideals of the "Augustan Revolution"; role and reception during the Renaissance and later Classical revivals (using Penn's rich collection of 16th to 20th c. Vitruvius editions); latest wave of Vitruvian scholarship. – Working knowledge of Latin, French, German helpful, but not necessary.

ArtH 530 "*Polis* and *Civitas*: Theory and Practice of Graeco-Roman Urbanism" (graduate proseminar)

An intensive 'orientation' on theoretical and practical aspects of Greek and Roman city planning and urban design, from Hippodamos, 5th c. BC, to the early centuries of the Roman Empire. Our material will encompass the evidence of both built cities and textual sources (such as Hippocrates, Aristophanes, Plato, Aristotle, Polybios, Cicero, Vitruvius), to be analyzed separately as well as compared to, and contrasted with, each other. 'City', defined as community of its citizens, with the goal of their well-being: how does this find its expression in Classical theories and practices?

ArtH 580 "Neo-Classical Architecture" (graduate proseminar)

This proseminar will explore the architecture of the Neoclassical century (ca. 1750 – 1850), the "true style", as it made its appearance all over Europe and parts of North America, with a new revival from the 1890s to the 1940s. We will do research on the intellectual preconditions and key treatises (e.g., Laugier, Stuart and Revett) as well as on selected monuments, some of them right in Philadelphia (e.g., Second Bank; Water Works; PMA). Field trips and practical instructions of analysis. No prerequisites.

ArtH 721 "The Parthenon and the Acropolis" (graduate seminar)

A thorough study of the Athenian Acropolis with emphasis on the architecture of the Parthenon, the Propylaea, the Erechtheum, the Temple of Nike, and their predecessor buildings and on the scholarly debates provoked by these monuments. Contributing instructor: Dr. Manolis Korres, director of the Parthenon Restoration Project. Intensive use will be made of the exhibition guest-curated by LH at the Arthur Ross Gallery of the University "The Parthenon - Recent archaeological drawings and research by Manolis Korres, Athens", January 22 - April 6, 1993.

ArtH 728 "The Pantheon. Architecture, Structure, Meaning" (graduate seminar)

This seminar will explore one single building, the Pantheon, to the fullest possible extent – beginning with the archaeological remains of the Augustan predecessor building, Hellenistic prototypes, Republican domed structures, ancient textual evidence, Roman brick stamps, stressing in particular statics, geometry, and the architectural language of the existing building, and ending with the later, antique and post-antique, reception of "the most celebrated edifice of the world (Urban VIII, 1632). – A visit of the dome of Philadelphia's Mellon Bank building at Broad Street will be included.

ArtH 728 "Hellenism, Romanitas, and Genius Loci: Baalbek, Palmyra" (graduate seminar)

The seminar treats the architecture of two paradigmatic sanctuaries in the Hellenistic-Roman East in the wider context of Greek tradition and architectural theory, the Roman contribution, and local heritage and development. Contributing instructor: Prof. Ehud Netzer, Hebrew University of Jerusalem, with lecture and workshop on "The Architecture of Herod the Great"

ArtH 728 "Models of Architecture, Models of Thought" (graduate seminar)

Range and role of Greek, Etruscan and Roman models of architecture will be explored within the spectrum of reality and imagination, of religious dedication, funerary offering, political display, and planning and construction – as a prelude to the exhibition "Architectural Models of Antiquity" at Barcelona, January to May 1997, a spectacular first of its kind.

ArtH 728 "Canon, Stones, and Reconstruction" (graduate seminar)

Well-preserved and well-published Greek and Roman buildings will be "deconstructed and reconstructed" block for block, with special regard of building materials, structural forces and behavior as well as questions of ancient planning procedures and art theory. The focus will be on exploring sound approaches of documenting, analyzing, and reconstructing ancient buildings. Knowledge of architectural drawing techniques (incl. CAD) or Latin and Greek is most welcome but no prerequisite.

This proseminar is meant to lay the foundations for professional fieldwork on Classical architecture. It includes field excursions to various buildings in the Philadelphia, with practical analyses and measurement exercises.

ArtH 728/AAMW 728/CIS 728 "Mapping Augustan Rome" (graduate seminar, co-instructor: D.G. Romano, Penn Museum)

Remarkably, no period plan exists of the ancient city of Rome. The purpose of this seminar is to create a visual synopsis of what is known about Augustan Rome: a large-scale map, accompanied by an explanatory text with critical commentary and references. The computer lab of Dr. David Romano will provide the base for creating the map by examining Rome's Augustan archaeology area for area and building for building, according to published information and guided by the Berlin model of 1988. By the end of the seminar, the drafted maps and texts should be ready for a team-authored publication, which is planned to appear in the supplement series of the "Journal of Roman Archaeology".

Careful preparation in the months preceding the seminar and thorough commitment to bring the project to full conclusion after the end of the seminar are expected by each participant. Communications will be circulating from early fall 1998 onwards; a first formal meeting of all participants will take place in December 1998. Permission required.

ArtH 728/AAMW 728 "Chapters in Roman Topography" (graduate seminar)

An intensive exploration of Rome's urban topography during the Late Republican and Imperial periods. Using primarily monumental and archaeological sources, and also including ancient texts, the goal will be to visually reconstruct a limited area of one's choice. The nearly completed *Lexicon Topographicum Urbis Romae* (4 volumes, so far) serves as the basic reference work. We will also receive first-hand information on methods and progress of the current publication project *Mapping Augustan Rome*, as it develops in collaboration with the Corinth Computer Lab under Dr. David Romano, University Museum. – Of interest for students of art history, architecture, archaeology, and Classics. Knowledge of Latin and some familiarity with Rome will be a plus, but are not required.

ArtH 728/AAMW 728/CIS 728 "Mapping Alexandria in the Age of Augustus" (graduate seminar, co-instructor: D.G. Romano, Penn Museum)

Greco-Roman Alexandria, the "crown of all cities," is at the core of this seminar. Its purpose is to create a commented visual synopsis of what is known about Alexandria at precisely that point of its history when it set the model for the Augustan renewal of the *Urbs Roma*. A large-scale map will be created in collaboration with the computer lab of Dr. David Romano, University Museum, and a critical commentary will be composed, examining each single structure according to published information. By the end of the seminar, drafted maps and texts should be ready for a team-authored publication, an enterprise guided by the volume *Mapping Augustan Rome* (2002). – Thorough commitment to bring the project to a full conclusion after the end of the seminar is expected by each participant. A first formal meeting of all participants will take place in mid-December 2005. Permission required.

ArtH 728/ AAMW 728 "Vitruvian Studies" (graduate seminar) – see above under ArtH 529.

ArtH 729/ AAMW 729/CIS 729 "The Pantheon – Nagging Questions"

Upon scrutiny, ancient Rome's seemingly best-known monument turns into a maze of nagging questions. Agreement does not even exist on the precise building date, the commissioning emperor, or the function of this puzzling structure – not to mention the profound uncertainties about its Augustan predecessor. A recent international conference in Switzerland, where brand-new digital documentation of the Pantheon's architecture was presented, only underscored the deeply uncomfortable situation. We will explore the Pantheon in as many aspects as possible. Starting with analyses of its technical structure (including marble quarrying and brick production) and the relevant ancient text sources, this investigation will also cover the complex history of modern research on the Pantheon (along with latest scholarly contentions) as well as its paradigmatic

impact on later, ancient and post-antique domed architecture, most famously Michelangelo's cupola of St. Peter's.

ArtH 729/ AAMW 729/CIS 729 "Trajan's Forum – Controversy and Rediscovery"

The most grandiose among Rome's imperial fora, the Forum of Trajan (AD 105-12) is currently under-going a spectacular scholarly controversy and rediscovery, with two teams of scholars defending opposing positions on the basis of recent excavations (1991-2007). At issue are not only the disposition of the entire complex and its powerful political message, but whether a monumental temple precinct of Trajan even existed. We will explore facts and debate concerning the forum in as many aspects as possible and put this into the context of similar structures in Rome itself, in the Greco-Roman East and – most importantly – in Trajan's other huge forum in Roman Spain (Tarragona).

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