#### Work

Roger Williams University School of Architecture, Art and Historic Preservation One Old Ferry Rd. Bristol, RI 02809

#### **EARNED DEGREES AND EDUCATION**

Ph.D. Environmental Design and Planning

Clemson University (2009)

(Program was renamed "Planning, Design, and the Built Environment" in February 2009.)
Dissertation: "Attachment to the Physical Age of Urban Residential Neighborhoods: A Comparative Case Study of Historic Charleston and I'On." Chair: Dr. Dina Battisto; Committee:
Dr. Elizabeth Baldwin, Dr. Cliff Ellis, Prof. Cari Goetcheus.

M.S. Historic Preservation

University of Pennsylvania (2004)

Thesis: "History and Characterization of Mortars in Spanish New World Fortifications: A Case Study on el Castillo de San Cristóbal, San Juan, Puerto Rico." Advisor: Prof. Frank G. Matero; Reader: Dr. A. Elena Charola.

- B.S. Historic Preservation (Architectural Design minor)
  Southeast Missouri State University (2002)
- Advanced Certificate in Architectural Materials Conservation, University of Pennsylvania (2004).
- Certificate of Completion, Main Street Institute, Pennsylvania Downtown Center (2005).
- Summer Field School in Archaeology, Southeast Missouri State University (2001).

#### **RESEARCH INTERESTS**

- Heritage values and historic urban environments
- History and theory of historic preservation
- Historic preservation planning

# **ACADEMIC EXPERIENCE**

- **Assistant Professor of Historic Preservation,** Historic Preservation Program, School of Architecture, Art and Historic Preservation, Roger Williams University, Bristol, Rhode Island; Fall 2011 to present.
- **Graduate Teacher of Record/Adjunct Instructor,** Graduate Program in Historic Preservation, Clemson University/College of Charleston, Charleston, South Carolina; Fall 2008 to Spring 2009.
- Adjunct Instructor, Historic Preservation Program, Department of Social and Behavioral Science, Bucks County Community College, Newtown, Pennsylvania; Spring 2008 to present.
- **Graduate Teacher of Record,** Department of Planning and Landscape Architecture, Clemson University, Clemson, South Carolina; Fall 2007 to Spring 2008.
- Research Assistant, Department of Planning and Landscape Architecture, Clemson University, Clemson, South Carolina; Fall 2006 to Summer 2007. (Advisors: Prof. Daniel Nadenicek, Dr. Mickey Lauria, Dr. Caitlin Dyckman)
- Research/Teaching/Lab Assistant, Historic Preservation Program, University of Pennsylvania; Fall 2003 to Spring 2004.

# **PUBLICATIONS**

# Refereed journal articles

- J. Wells & E.D. Baldwin. (2012). Historic preservation, significance, and age value: A comparative phenomenology of historic Charleston and the nearby new-urbanist community of I'On. *Journal of Environmental Psychology*, 32 (4), 384-400. (2.549 journal impact factor)
- J. Wells. (2010). Our history is not false: Perspectives from the revitalisation culture. *International Journal of Heritage Studies*, 16 (6), 417–438.
- J. Wells. (2010). Characterization of the mortars of El Castillo de San Cristóbal. *Journal of the American Institute for Conservation*, 49 (1), 27-44.
- J. Wells. (2007). The plurality of truth in culture, context, and heritage: A post-structuralist analysis of urban conservation charters. *City and Time*, 3 (2), 1-14.
- J. Wells. (2007). History of structural hollow clay tile in the United States. *Journal of Construction History*, 22, 27-46.
- J. Wells. (2003). Methods for the preservation of French colonial poteaux en terre (posts-in-ground) houses. *APT Bulletin*, 34 (2-3), 55-61.

### **Book chapters**

• J. Wells. (2014). A methodological framework for assessing the 'spirit and feeling' of World Heritage properties. In T. Gensheimer and C. L. Guichard (eds.), *World Heritage and national registers: Steward-ship in perspective*, 19-32. New Brunswick, NJ and London: Transaction Publishers.

### **Encyclopedia entries**

• J. Wells. (2010). Historic preservation. In Barney Warf et al. (eds.), *Encyclopedia of geography.* Thousand Oaks, CA: Sage Publications.

### Refereed conference proceedings

- J. Wells. (2012). Using sequential mixed social science methods to define and measure heritage conservation performance. In S.M. Zancheti & K. Simila (eds.), 6th international seminar on urban conservation: Measuring heritage conservation performance. Recife, Brazil and Rome: CECI & ICCROM.
- J. Wells. (2010). Valuing historic places: Traditional and contemporary approaches. In *Proceedings of the first international conference on the preservation and rehabilitation of Iraqi city centers, Baghdad, Iraq, March 22-27, 2010*.
- J. Wells. (2009). Historic Preservation: Challenges to collaboration with other disciplines. In *Proceedings* of the Environmental Design Research Association (EDRA) 40 conference, Kansas City, MO, May 27 May 31.
- J. Wells. (2008). Bridging the gap between the public and the historic preservation professional: Understanding how people value new and old residential environments. *Environmental Design Research Association (EDRA) 39 conference, Veracruz, Mexico, May 28 June 1*.
- J. Wells. (2007). The plurality of truth in culture, context, and heritage: A post-structuralist analysis of urban conservation charters. In *Proceedings of the 5th international seminar on urban conservation, Center for Advanced Studies on Integrated Conservation (CECI), November 19-21, 2007, Recife, Brazil.*
- J. Wells. (2005). Possible solutions for the long-term preservation of digital documentation. *Architecture Specialty Group post-prints, the documentation dilemma: managing conservation data in the 21st century, American Institute for Conservation of Historic and Artistic Works 34th annual meeting, Minneapolis, MN, June 11, 2005* (pp. 38-50).

#### **Edited volumes**

• J. Wells & E. Pavlides (editors). (2013). *Proceedings of the 44th annual conference of the Environmental Design Research Association*. McLean, VA: EDRA.

#### **Book reviews**

• J. Wells. (2008). Review of *Contemporary Theory of Conservation* by Salvador Muñoz Viñas. *Journal of the American Institute for Conservation*, 47 (1).

#### Monographs

• J. Wells. (2003). Windows: Repair or replace? A guide for owners of historic homes. Philadelphia, PA: University City Historical Society.

## Articles in non-refereed publications

- J. Wells. (2013). The Historic Preservation Network—changing the ontology of practice. *Environmental Design Research Association Newsletter*. http://www.edra.org/content/historic-preservation-network%E2%80%94changing-ontology-practice
- J. Wells. (2012). Window replacement, energy efficiency, and economic payback: Making informed decisions. *The Alliance Review*, Jan-Feb, 18, 19.
- J. Wells. (2011). Pervasive preservation: Redefining the role and placement of the preservation commission in local government. *The Alliance Review,* Nov-Dec, 4-7.
- J. Wells. (2011). A critical analysis of master's programs in historic preservation. *AIA Preservation Architect Newsletter*, Spring.
- J. Wells. (2011). Historic preservation, significance, and phenomenology. *Environmental & Architectural Phenomenology Newsletter*, 22 (1), 13-15.
- J. Wells. (2010). Authenticity in more than one dimension: Reevaluating a core premise of historic preservation. *Forum Journal of the National Trust for Historic Preservation*, 24(3), 36-40.
- J. Wells. (2007, Aug. 18). History extends support. *The Seattle Times*, p. B9.
- J. Wells. (2006, Mar. 13). Proposed office building doesn't fit downtown. The Morning Call, p. A7.
- J. Wells. (2005, Nov. 4). Cities must use many tools to encourage investment. The Morning Call, p. A11.
- J. Wells. (2005, Aug. 4). Downtowns are the key to valley's quality of life. The Morning Call, p. A17.
- J. Wells. (2004, Dec. 10). There's value in Allentown preserving old buildings. The Morning Call, p. A 19.
- J. Wells. (2003, Sep. 26). Importance of context. *Philadelphia Inquirer*.
- J. Wells. (2003, Sep. 28). The West Coast could benefit by training historic preservationists. *Walla Walla Union-Bulletin*, p. D8.
- J. Wells. (2002, Nov. 6). Historic legacy a concrete issue. Philadelphia Inquirer, p. B2.
- J. Wells. (2000). History hidden beneath atomic age facades. *The Washington State Trust for Historic Preservation Newsletter*, winter ed.

#### REFEREED JOURNAL EDITORSHIP

Preservation Education & Research, co-editor (with Rebecca Sheppard, University of Delaware); Fall
 2012 – present.

### **COURSES TAUGHT**

#### Planning

- HP 302/502 Principles of Preservation Planning
- HP 682 Historic Preservation Planning Workshop
- HP 805 Historic Preservation Studio

### Regulation and policy

• HP 526 – Historic Preservation Law and Regulation

# **Professional practice**

• HP 542 - Professional Practice in Historic Preservation

# Research design/thesis

- HP 631 Preservation Graduate Thesis Seminar
- HP 651 Graduate Thesis in Historic Preservation

## Historical research/site recording

HIST 199 – Methodology and Documentation in Historic Preservation (online course)

### **Architectural materials**

- HP 412/612 Materials and Methods of Historic Construction
- HSPV 555 (lab) Architectural Conservation Science lab
- HP 803 Advanced Materials and Methods in Architectural Conservation

#### Theory and philosophy

HP 811 – Readings in Historic Preservation

#### **PRESENTATIONS**

#### Refereed conferences

- J. Wells. (2013). Principles for integrating environmental design and behavior Research into built heritage conservation practice. Environmental Design Research Association (EDRA) 44 conference, Providence, RI, May 29 – June 1.
- J. Wells. (2012). Using qualitative methods to research authenticity and significance in the historic environment. Environmental Design Research Association (EDRA) 43 conference, Seattle, WA, May 30 June 2.
- J. Wells. (2012). Dimensions of historical authenticity. Environmental Design Research Association (EDRA) 43 conference, Seattle, WA, May 30 June 2.
- J. Wells. (2012). Suitable research methods to achieve the compatibility directives of architectural conservation doctrine. Environmental Design Research Association (EDRA) 43 conference, Seattle, WA, May 30 June 2.
- J. Wells. (2011). Historic preservation and environmental design and behavior research. Environmental Design Research Association (EDRA) 42 conference, Chicago, IL, May 24 May 29.
- J. Wells. (2011). Phenomenology of age value in the built environment. Environmental Design Research Association (EDRA) 42 conference, Chicago, IL, May 24 May 29.
- J. Wells. (2011). Using sequential mixed social science methods to define and measure heritage conservation performance. 6th international seminar on urban conservation, Center for Advanced Studies on Integrated Conservation (CECI), March 29-31, Recife, Brazil
- J. Wells. (2010). Valuing historic places: Traditional and contemporary approaches. Preservation and rehabilitation of Iraqi city centers, Baghdad, Iraq, March 22-27.
- J. Wells. (2009). Historic Preservation: Challenges to collaboration with other disciplines. Environmental Design Research Association (EDRA) 40 conference, Kansas City, MO, May 27 May 31.
- J. Wells. (2009). Deflating the ethical argument against historicized design: An evaluation of historic and new urbanist residential design via quantitative measures of place attachment. Environmental Design Research Association (EDRA) 40 conference, Kansas City, MO, May 27 May 31.
- J. Wells. (2009). Attachment to the physical age of urban residential neighborhoods: A comparative case study of historic Charleston and I'On. American Real Estate Society 25th annual meeting, Monterey, CA, April 1-4.
- J. Wells. (2009). A methodological framework for assessing the "spirit and feeling" of World Heritage properties. The 6th savannah symposium: World heritage and national registers in perspective, Savannah, GA, February 19-21.

- J. Wells. (2008). Bridging the gap between the public and the historic preservation professional: Understanding how people value new and old residential environments. Environmental Design Research Association (EDRA) 39 conference, Veracruz, Mexico, May 28 June 1.
- J. Wells. (2008.) Using community values to understand successful urban design in historic downtowns: Correlating place attachment measures to physical elements of urban landscapes. Design research conference, Washington State University, January 10-11, Spokane, WA.
- J. Wells. (2007). The plurality of truth in culture, context, and heritage: A post-structuralist analysis of urban conservation charters. 5th International Seminar on Urban Conservation, Center for Advanced Studies on Integrated Conservation (CECI), November 19-21, Recife, Brazil
- J. Wells. (2007). The performance of traditional mortars over three-hundred years: Innovation, success, and failure at el Castillo de San Cristóbal, San Juan, Puerto Rico. Association for Preservation Technology conference, November 3-7, San Juan, PR.
- J. Wells, K. Pooley, D. Battisto, K. Sutherland, A. DeMuth, and B. Macholz. (2007). Latino values in the historic core of Allentown, PA: The influence of sociocultural and economic values on physical interventions. Council of Educators in Landscape Architecture conference, August 15–19, State College, PA.
- J. Wells. (2007). Historic plant material restoration. Association for Historic Landscape Preservation conference, April 11-14, Athens, GA. (poster)
- J. Wells. (2005). Possible solutions for the long-term preservation of digital documentation. American Institute for Conservation conference, June 8-13, Minneapolis, MN.

### **Professional conferences**

- J. Wells, P. Trudeau, and J. Hewat. (2012). Beyond boundaries: the historic preservation commission's potential. Beyond Boundaries, National Preservation Conference, October 31-November 3, Spokane, WA.
- J. Wells, R. Scriber, W. Broadhead, and J. Hewat. (2012). How historic preservation commissions create internal and external 'buy in.' 2012 Saving Places Conference, February 1-3, Denver, CO.
- J. Wells. (2010). Heritage, significance, and social and cultural sustainability. 2010 Saving Places Conference, Denver, CO.
- J. Wells. (2010). Pragmatic approaches to turning advocacy into sustainable preservation policy. 2010 Saving Places Conference, Denver, CO.
- J. Wells. (2008.) Improving the diversity of volunteers in Main Street programs. National Main Streets conference, Philadelphia, PA, March 30-April 2, Philadelphia, PA.

### Invited presentations

- J. Wells. (2013). Principles for Integrating Social Science Research Methods into Built Heritage Conservation Practice. Centre for Advanced Studies in Architecture, Department of Architecture, National University of Singapore.
- J. Wells. (2013). Phenomenology of age value. 2013 International Fellows Program (Roger Williams University), Bristol, RI.
- J. Wells. (2013). Principles for integrating social science research methods into built heritage conservation practice. 2013 Preservation Institute: Nantucket (University of Florida), Nantucket, RI.
- J. Wells. (2012). Using social science research methods in historic preservation. 2012 Preservation Institute: Nantucket (University of Florida), Nantucket, RI.
- J. Wells. (2011). Using social science research methods in historic preservation. 2011 Preservation Institute: Nantucket (University of Florida), Nantucket, RI.
- J. Wells. (2006). Historic preservation 101. James A. Michener Library, Quakertown, PA.
- J. Wells. (2005). Main Street and downtown revitalization. James A. Michener Library, Quakertown, PA.
- J. Wells. (2005). Identifying architectural styles. Quakertown Historical Society, Quakertown, PA.
- J. Wells. (2005). Career options in historic preservation. Bucks County Community College, Newtown, PA.
- J. Wells. (2004). Morrill Hall masonry conservation study. University of Pennsylvania, Philadelphia, PA.

- J. Wells. (2001). History and conditions assessment of the Glenn House. Historical Association of Greater Cape Girardeau, Cape Girardeau, MO.
- J. Wells. (2000). Economic incentives for historic preservation. Kennewick Chamber of Commerce, Kennewick, WA.

#### **PROFESSIONAL EXPERIENCE**

- Principal City Planner/Preservation Lead, City and County of Denver, Denver, CO; June 2009 July 2011.
   Served as the city's historic preservation officer, responsible for guiding the vision for city growth, land use, design, and infrastructure development within the context of the Landmark Preservation program.
   Coordinated the activities of staff involved in historic designations, design review, tax credits, and environmental (Section 106) review. Provided technical and policy guidance to city staff, governmental officials, boards and commissions, and regional, state, and national preservation agencies. Conducted community-wide presentations and training on historic preservation issues and established and fostered relationships with preservation advocacy and community organizations.
- Main Street Manager/Executive Director, Quakertown Alive!, Quakertown, PA; January 2005 August 2006. Directed the borough's downtown revitalization program through organization, economic restructuring, urban design, and promotions centered on principles of conserving and capitalizing on the historic built environment. Responsible for the management and development of staff and volunteers. Worked with the board to develop a strategic plan and work plan, a fundraising campaign, and an operating budget. Raised over \$500,000 in grant funding for various programs in one year. Created successful partnerships with over twenty different local and regional organizations.
- Associate, Noble Preservation Services, Zionsville, PA; June 2004 January 2005. Performed historic
  paint and mortar analyses, cleaning assessments, condition surveys, and building investigations. Use of
  optical microscopy and wet chemical analysis; interpretation of instrumental analytical techniques (XRD,
  SEM, FTIR). Worked with clients on Investment Tax Credit projects (submission of Part 1, Part 2, Part 3
  forms) and assistance in cultural resource surveys and historic district nominations.
- Architectural Technician, Northeast Region, National Park Service, Philadelphia, PA; June 2003 September 2003. Performed Section 106 review/consultation of affected resources in Fort Monroe, VA and the Gifford Pinchot NHL in Milford, PA. Helped plan conferences and workshops related to preservation planning and architectural/building conservation. Drafted Cooperative Agreements and reviewed HABS/HAER documentation. Designed a region-wide NHL database in Microsoft Access to replace the existing version supplied by the Washington, DC office. Completed a nation-wide survey of K-12 heritage education programs, organizations, and funding sources.
- Architectural Conservation Technician, Eastern State Penitentiary Historic Site, Philadelphia, PA; September 2002 May 2003. Repaired and consolidated historic wood windows. Performed desalination of a stone wall and removed damaging cement mortars by hand. Assisted in various restoration/stabilization projects, including weatherproofing damaged skylights with temporary skylight boxes.
- **Curator**, Please Touch Museum, Philadelphia, PA; June 2002 September 2002. Caretaker of the museum's collections which consisted of playthings and associated objects from the 19th and 20th centuries. Helped plan a \$250,000 exhibit focusing on the playthings of America's children over the past half century.
- Archives Assistant, Special Collections and Archives, Southeast Missouri State University, Cape Girardeau, MO; August 2001 May 2002. Responsible for cataloging, summarizing, and preserving historic documents with a special emphasis on using technology in the preservation process.
- Assistant Site Administrator, Felix Valle State Historic Site, Ste. Genevieve, MO; April 2001 August 2001. Created a master plan for the long-term preservation of French Colonial post-in-ground houses.

Responsible for creating brochures, press releases, and interpreting the Felix Valle House (built in 1818) and the Amoureux House (built in 1792) for visitors. Created drawings of the Jacobs House using Auto-CAD as part of a mitigation process for its removal from the site.

- Executive Director, Historical Association of Greater Cape Girardeau, Cape Girardeau, MO; September 2000 May 2002. Responsible for the site administration of the historic Glenn House (built in 1883), and the Reynolds House (built in 1857). Other responsibilities included public presentations, education, coordinating volunteers, grant writing, and creating public relations materials.
- **Project Manager/Information Systems Manager**, NW MediScript, Inc., Kennewick, WA; July 1995 August 2000. Managed a team of programmers and support staff in the implementation of mission critical projects. Planned, authorized the purchase of, and supervised all computer-based information systems used in the company. Responsible for developing an infrastructure to support telecommuting employees and developing and maintaining the organization's web presence.

#### ACADEMIC CONFERENCE PLANNING AND ORGANIZATION

- Co-chair, EDRA44: Healthy and Healing Places conference (Providence, RI, May 29 to June 1, 2013); October 2011 to June 2013.
- Chair and organizer, Preservation Education: Sharing Best Practices and Finding Common Ground conference (Providence, RI, September 8, 9, 2012); 2011 to 2012.
- Scientific Committee Member,6th International Seminar on Urban Conservation (Center for Advanced Studies on Integrated Conservation (CECI), March 29-31, Recife, Brazil); 2010 to 2011.

# **MASTER'S THESIS COMMITTEES**

# As the thesis advisor/committee chair

- Carolyn Jane Reid, "What were school officials thinking: The abandonment of historic schools in Rhode Island," M.S. thesis, graduated, December 2012.
- Alexandra Skerry, "Interpreting the standards: Design professionals & historicized design," M.S. thesis, graduated, May 2012.
- Donald J. Sevigny, "A return to manning the post," M.S. thesis, graduated, May 2012.

# PROFESSIONAL AND COMMUNITY SERVICE

#### Current

- Peer reviewer for the following refereed journals:
  - Journal of Cultural Heritage Management and Sustainable Development
  - Journal of Housing and the Built Environment
  - Town and Planning
- Board member, National Alliance for Preservation Commissions; 2011 to present.
- Committee member, ICOMOS International Scientific Committee on Intangible Cultural Heritage; 2011present.
- **Committee member**, ICOMOS International Scientific Committee on the Theory and Philosophy of Conservation and Restoration of Cultural Property; 2008 present.
- Chair and founder, Historic Preservation Network, Environmental Design Research Association; Edmond, OK; 2008 present.

### **Past**

- Organizer (with April Allen) of a day-long intensive, Influencing the Practice of Historic Preservation through Environmental Design and Behavior Research, at the Environmental Design Research Association (EDRA) 42 conference, Chicago, IL, May 24 – May 29; July 2010 — May 2011.
- Member, Scientific Committee, 6th International Seminar on Urban Conservation (Centre for Advanced Studies in Integrated Conservation, Recife, Brazil); August 2010 March 2011.

- Educational poster session coordinator, Saving Places Conference (Colorado Preservation, Inc.); December 2009 July 2011.
- **Columnist**, The Free Press; Quakertown, PA; 2005 2006. Monthly columnist on issues related to the Main Street approach and historic preservation.
- Board member and Image and Identity Committee Chair, Old Allentown Preservation Association; Allentown, PA; 2005 2006. Assisted the program in implementing the Elm Street approach (residential revitalization program based on the Main Street approach).
- Board member, University City Historical Society; Philadelphia, PA; 2002 2004.
- Organizer, Save the Marquette Hotel, Cape Girardeau, MO; 2000 2002.
- Design Committee Member, Old Town Cape, Inc., Cape Girardeau, MO; 2000 2002.
- Historic Preservation Commission Member, City of Kennewick, Kennewick, WA; 1999 2000.
- **Design Committee Member**, Downtown Kennewick and Columbia Drive Association, Kennewick, WA; 1999 2000.

#### **GRANTS AND HONORS**

#### Honors

- 2012: Elsevier Outstanding Reviewer Award, *Journal of Cultural Heritage Management and Sustainable Development*
- 2004: The Faculty Award for Outstanding Academic Achievement, School of Design, University of Pennsylvania.
- 2003: "On the Spot" award from the National Park Service, Northeast Region, Philadelphia, PA.
- 2002: Certificate of Appreciation from the Historical Association of Greater Cape Girardeau; inducted into Phi Alpha Theta and Alpha Sigma Lambda.
- 2001: Award of Excellence from the Historic Preservation Association of SE Missouri State University; inducted into Sigma Pi Kappa.
- 2000: Nominated for the 2000 Award of Merit given by the Washington State Trust for Historic Preservation; Certificate of Appreciation for "Efforts Above and Beyond the Call of Duty" awarded by the East Benton County Historical Society, the Historic Downtown Kennewick Partnership, and the City of Kennewick Historic Preservation Commission; inducted into Phi Theta Kappa.

# Teaching and research fellowships

- Fall 2007 to Spring 2009: Teaching Assistantship, Department of Planning and Landscape Architecture, Clemson University.
- Fall 2006 to Summer 2006: Research Assistantship, Department of Planning and Landscape Architecture, Clemson University.
- Fall 2003 to Spring 2004: Teaching/Research Assistantship, School of Design, University of Pennsylvania.

## **Travel grants**

- Spring 2009: Travel grant to the 2009 ARES conference.
- Spring 2008 and Fall 2008: Environmental Design and Planning Travel Fund.
- Fall 2007 to Spring 2008: Departmental funding for presentations at six national and international conferences, Planning and Landscape Architecture Department, Clemson University.
- Fall 2007: Personal Enrichment Grant from the Graduate Student Government, Clemson University.
- Fall 2003: The Ilona S. English Travel Award.
- Fall 2002: The Albert Binder Travel Fellowship.

# **Scholarships**

- 2003: Departmental Award, Historic Preservation Program, University of Pennsylvania.
- 2002: J. E. Caldwell Centennial Scholarship; Departmental Award, Historic Preservation Program, University of Pennsylvania.

# Jeremy C. Wells

- 2001: Eugene McDowell Scholarship, River Bend Friends of Historic Preservation Scholarship, and the Rosemary Rosenthal Scholarship.
- 2000: Harry Huebel Memorial Scholarship and the William T. Jenkins Memorial Scholarship.

# **SKILLS**

- Moderate fluency in reading and speaking Spanish with a desire to become completely fluent.
- SPSS, MS Access, Filemaker Pro, AutoCAD, ESRI ArcView (GIS), Photoshop, In-Design, QuarkXPress.
- Web site development (HTML, layout, graphics).
- Visual Basic, PASCAL, PHP programming.