



Patrick C. Garner
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Areas of Professional Focus

Peer Review, River Analysis, Hydrology, Wetlands & Project Monitoring

Wetland & Hydrological Projects, & Projects of Interest

Wetland-Related Projects

Hundreds of wetland studies, peer reviews & delineations in Massachusetts, Rhode Island & Georgia. Wetland filings in over sixty New England cities & towns since 1985.

Hydrological Projects

- FEMA Flood Plain determinations; 1, 2, 5, 10, 50 & 100-year storm analyses;
- EPA NPDES storm water studies for marinas in MA & RI, 1993-5;
- Detailed analysis & morphological/flood determination of rivers/ streams throughout MA;
- Numerous perennial v. intermittent river determinations;
- Riparian rights & water movement analyzes, New England & the Southeast;
- Study of 23 rivers for the Franklin County Regional governments; analysis of Rosgen stream type, erosion potential, channel materials.

Select Projects of Interest

- Analysis for USACE & EPA of 125-acre wetland site, including hydrologic analysis & mitigation studies of filled portions of Great Cedar Swamp, Halifax & Hanson, MA.
- Horizontal & vertical location of a 16th century shipwreck for the National Parks Service, Provincetown, MA.
- Beach riparian rights analysis for Georgia Supreme Court, property adjacent to King & Prince Hotel, St. Simons Island, GA.
- V-zone analysis for Rockefeller family holdings on Cumberland Island, GA.
- Numerous residential, recreational, open space, commercial & industrial projects abutting or impacting wetlands and rivers, including cumulatively over 50 replication/restoration designs in Massachusetts since 1986.
- Consultant currently to numerous Massachusetts Conservation Commissions.
- Expert Witness: MA District, Land & Superior Courts; MassDEP Adjudicatory Courts

Education

Bachelor Visual Arts (BVA), GA State University, Atlanta, 1971 (undergraduate courses including biology, botany, geology, surficial hydrology & earth science).

Post-graduate courses, Harvard University Extension School, real estate & finance, 1988-89.

USACE Wetland Delineator Certification Program, UNH, summer 1995.

Field Indicators for Hydric Soils in NE; & Human-Disturbed Soils, both UNH, 1996.

HEC-RAS, TR-20 & TR-55 Hydrology Seminars, SCS/NRCS (CT, RI, MA), 1987-2003.

GPS Advanced Positioning Systems, Auburn University, 2002.

Lectures, Courses & Instruction

AMWS, Winter Botany Workshops, 1997-99 (Co-instructor).
MACC, Detention/Retention Basin Fundamentals, 1999 (Instructor).
MassDEP, Mean Annual High Water Workshops (twelve statewide), 2000-2001 (Instructor).
AMWS, River Morphology & Functions Workshop, 2001 - 2006 (Instructor).
MACC, DEP Riverfront Regulations, 2002, 2003, 2004 (Instructor, Co-instructor).
UMass Lowell, Guest Lecturer on Disturbed Wetlands: 2004 (Instructor).
AMWS, Ethics Issues, 2006 (Instructor); same MACC, 2007 & 2010 (Instructor).
MACC AEC, Advanced Science Core Instruction, 2006, 2008 (Instructor).
AMWS, Bankfull & MAHW Workshop 2008, 2010 (Instructor).
RedVector, PDH On-line: Since 2004 continuing education provider to engineers, wetland scientists, landscape architects & professional surveyors with seven CEU courses approved for credit by more than 30 states.
Pioneer Institute, Boston, Guest Speaker, Fall 2007
Boston Bar Association, Guest Speaker, Dec. 2011.

Professional Registration & Other

- Professional Registered Land Surveyor (PLS), Massachusetts; Georgia & RI (inactive)
- Massachusetts Certified Soil Evaluator, 1996-present
- Conservation Commission Member: 1994-97, Harvard, MA

Professional & Organizational Affiliations

- Rhode Island Society of Wetland Scientists (RIAWS) - *Board Member, 1993.*
- Association of Massachusetts Wetland Scientists (AMWS), *President, 1996-98.*
- Mass. Association of Conservation Commissions (MACC) – *Board member, 1996-2003; President, 2004-05; currently 2012 President (term ends March 2013).*
- National Society of Professional Surveyors (NSPS), Fellow member since 1979.
- American Geophysical Union (AGU), Member #11505981, Hydrology Division
- International Association of Hydrological Sciences (IAHS), Member #12074, Oxford UK
- MassDEP Advisory Groups (7): Mean Annual High Water, 1999-2000; Perennial v. Intermittent Stream Group, 1999-2002; Buffer Zone Advisory Committee, 2005; Stormwater Advisory Committee, 2007-2010; Regulatory Reform Committee, 2011; Ecological Restoration Committee, 2011; Wetlands Advisory Subcommittee, 2012

Awards

MACC 2006, *Certificate of Appreciation* for Outstanding Service
AMWS 2007, *President's Award* for Contributions to Wetland Science

Publications

Wetland Journal, Maryland (Spring issue, 1996); **National Geologic Institute**, NY (Fall/97); **Wetland Journal**, Maryland (Fall issue, 1997); **Wetland Journal**, Maryland (Winter issue, 1998); **New York Society of Wetland Scientists** (1998); **Land & Water Magazine** (June, 1998); **MA EOE Wetland News** (Winter, 1998); **Wetland Journal** (Spring, 1999); **AMWS Newsletter** (1997-2008); **MACC Quarterly** (1999-2012); & numerous other publications.

Books

- Biographies: **Playing With Fire, The Life of E.W. Edwards**, Whitefish Press, 2008 (limited edition, hardback & paper, now in 2nd edition), & **D Is For Dingley**, co-author, same press, (limited edition, hardback & paper), 2011.