

CURRICULUM VITAE

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EDUCATION

2001	Ph.D., Geology	Boston University, Boston, MA
1994	B.A., Geology, <i>Magna Cum Laude</i>	Boston University, Boston, MA
1989-91	Marine Geology Diploma Program	Odessa National University, Ukraine

PROFESSIONAL EXPERIENCE

2004-present	Assistant Scientist, Woods Hole Oceanographic Institution (WHOI)
2007-present	Adjunct Scientist, Kiev National University, Ukraine
2000-present	Part-time Faculty, Metropolitan College, Boston University
2003-2004	Research Geologist, U.S. Geological Survey - Woods Hole Field Center
2003-2004	Guest Investigator, Woods Hole Oceanographic Institution
2001-2003	USGS Postdoctoral Scholar, Woods Hole Oceanographic Institution
1997-2000	Research Assistant, Department of Earth Sciences, Boston University

RESEARCH INTERESTS

Sedimentology and stratigraphy; origin and evolution of coastal barriers; aeolian processes and dunefield dynamics; geological legacy of paleo-channels; applied high-resolution geophysics; event sedimentology, ichnology, and taphonomy.

AWARDS AND HONORS

2007	Mary Sears Endowed Visiting Scientist Award, WHOI
2000	Northeastern Section Travel Award, Geological Society of America
1998	Outstanding Student Paper Award and Student Participation Grant (SEPM)
1998	Foundation Merit Award, American Association of Petroleum Geologists
1995	Annual Teaching Assistant Award, Boston University
1994	College and Departmental Prizes for Excellence in Earth Sciences, Boston U.
1994	Phi Beta Kappa National Honor Society
1994	Golden Key National Honor Society
1993	Field Scholarship, National Association of Geology Teachers
1991	Honorarium Stipend, Odessa National University

PROFESSIONAL AFFILIATIONS

Geological Society of America (GSA), Professional Member
American Geophysical Union (AGU), Professional Member
Society for Sedimentary Geology (SEPM), Professional Member and Eastern Section President
International Association of Sedimentologists (IAS), Professional Member
Coastal Education and Research Foundation (CERF), Professional Member
American Society of Forensic Geologists, Member

PROFESSIONAL ACTIVITIES

- 2007-2009 President, Eastern Section of SEPM (Society for Sedimentary Geology)
2008 Session Co-chair, GSA Northeastern Section Conference, Buffalo, NY:
Quaternary Landscape Changes: Sedimentary and Geomorphic Records.
2007 Session Co-chair, *The Black Sea-Mediterranean Corridor:
Paleoenvironmental and Geoarchaeological Context for the Last 30 ky.*
Geological Society of America Annual Meeting, Denver, Colorado.
Scientific Committee Member, 9th International Coastal Symposium, Gold
Coast, Australia. Session Chair: *Evolution of Coasts.*
2006 Session Co-chair, *Applications of Near-Surface Geophysics in Coastal
Environments*, AGU Fall Meeting, San Francisco, CA.
2005-09 Scientific Committee, International Geological Correlation Programme
(IGCP) Project 521, *Black Sea – Mediterranean Corridor During the Last
30 ky: Sea-Level Change and Human Adaptation.* Session Co-chair:
Climate and Sea-Level Modeling, 1st Plenary Meeting, Istanbul, Turkey,
2005. Scientific Committee, 2nd Plenary Meeting, Odessa, Ukraine, 2006.
2004 Co-organizer, International Geological Correlation Programme (IGCP)
Project 495 Conference and Field Trip, Bar Harbor, Maine: *Quaternary
Land-Ocean Interactions: Driving Mechanisms and Coastal Responses.*
Session Chair: *Human interactions with climate and coastal change.*
Session Co-chair, NE/SE Joint GSA Conference, McLean, VA:
*Former Tidal Inlets and Breaches along Modern and Ancient Coasts:
Formation, Evolution, and Geologic Record.*

INVITED LECTURES

- 2007 University of Rhode Island; Boston College; Kiev National University, Ukraine
Odessa Geophysical Research Institute, Engineering Academy of Ukraine
2006 University of Delaware; Smith College (Five College Colloquia);
Association of Engineering Geologists (New England Section)
2004 Brown University; Universidade do Vale do Itajaí, Brazil
2002 University of New Orleans
2001 Columbia University (Lamont-Doherty Earth Observatory); USGS (Woods Hole)

TEACHING EXPERIENCE

- 2000-present Part-time Faculty, Metropolitan College, Boston University, Boston, MA
Introduction to Marine Science, Shoreline Processes and Environments, Coastal Environments of Massachusetts, Environmental Geology I, Environmental Geology II
- 2008 Visiting Lecturer, *Environmental Geology*, Bridgewater State College, MA
- 09/2007 Guest Lecturer, *Coastal Geology*, Kiev National University, Ukraine
- 2007 Visiting Faculty, *Stratigraphy & Sedimentology*, Boston College, MA
- 12/2005 Guest Lecturer, *Marine Geology & Geophysics*, MIT/WHOI Joint Program
- 2002-2003 Lecturer, MET College and Nathan Mayhew Seminars, Vineyard Haven, MA
Coastal Environments of Martha's Vineyard
- 2000-2002 Lecturer, College of Arts & Sciences, Boston University
Dynamic Earth, Environmental Earth Science
- 02/2000 Guest Lecturer, *Marine Geology*, Kuwait University, Safat, Kuwait
- 1999 Visiting Faculty, *Process Geomorphology*, Tufts University, Medford, MA
- 1994-1999 Teaching Assistant, Department of Earth Sciences, Boston University

STUDENT SUPERVISION

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|------|------------------|--|--------------------------|
| 2008 | Michael Brennan | Ph.D candidate, U. of Rhode Island | Adjunct Committee Member |
| | Thomas Galinat | B.S., University of Southern Maine | Project Supervisor |
| 2007 | Alan Kasprak | B.S., Boston College | Field Supervisor |
| 2006 | Camillo Ponton | Ph.D candidate, MIT/WHOI Joint Program | Field Supervisor |
| 2005 | Donatas Pupienis | Ph.D candidate, Vilnius University | Field Supervisor |

RESEARCH EXPERIENCE

- 2007 Research Scientist: Collaborative field investigation of coastal barriers, northwest Black Sea, Ukraine (Odessa National University; Geophysical Research Institute, Engineering Academy of Ukraine); Seafloor imaging (AUV) cruise in the northwestern Black Sea, Ukraine, *R/V Flamingo*, (IFE, U. of Rhode Island, Ukrainian Academy of Sciences; Research Scientist: Geophysical and sedimentological study of Beddington Lake delta, Maine (Boston College); imaging of the Desert of Maine reactivated dunes; Project co-leader: Nearshore geophysical and coring cruise of the Vineyard Sound and offshore Martha's Vineyard, *R/V Tioga* (WHOI).
- 2006 Project co-leader: Multi-institutional geophysical and coring field research aimed at collecting samples for radiocarbon and optical dating in order to establish a detailed chronology of coastal plain evolution, Santa Catarina, Brazil (UNIVALI-BU-UNCW-UFPR-UFPA); Project leader: GPR and geoarchaeological surveys of recent dunes, northern Curonian Spit, Lithuania (Lithuanian Geological Survey and Institute of Geology and Geography).

2001-2005 2005- Project leader: High-resolution geophysical surveys of dunes along the northern Curonian Spit, Lithuania (Lithuanian Geological Survey and Institute of Geology and Geography); Project leader: Subsurface imaging of relict dunes on Martha's Vineyard and of coastal sequences along the eastern shore of Falmouth Harbor, MA. 2004 - Project co-leader: Multi-institutional field program to investigate the Quaternary evolution of river-associated strandplains, Santa Catarina, Brazil (UNCW-BU-UNIVALI-UFPR); Sedimentological investigation of historical marsh islands, North River Inlet, South Carolina (UNCW); Geophysical survey of coastal deposits along Nantucket and Cuttyhunk Islands, MA. 2003 – Research Scientist: Seafloor mapping (side-scan sonar, high-resolution seismic imaging, and interferometric swath bathymetry): South Carolina Coastal Erosion Study, Long Bay, South Carolina (*R/V Coastal II*, Coastal Carolina University); Mapping of Quaternary geology in Vineyard Sound, Massachusetts (*R/V Asterias*, WHOI/USGS); Chief Scientist: High-density seafloor mapping coverage of South Essex Marine Sanctuary, Massachusetts (*R/V Rafael*, USGS); GPR imaging of barrier architecture at Myrtle Beach, SC (USGS, Woods Hole/St. Petersburg), northern Outer Banks, NC, and False Cape, VA (George Mason University). 2002 - Research Scientist: Nearshore coring and CHIRP seismic survey along Martha's Vineyard, (ONR field site, *R/V Cape Henlopen*); Project leader: Geophysical survey of barrier island architecture and reconnaissance for relict tidal inlets, upper Cape Cod and Martha's Vineyard (WHOI) and Bogue Banks, North Carolina (UNCW). Paleoenvironmental investigation of tidelands, Salem Harbor, Massachusetts. 2001 - Chief Scientist: High-resolution onshore geophysical survey and nearshore bathymetric mapping along southern Martha's Vineyard (*R/V Nobska*, USGS/ Woods Hole, HOI). Sedimentological and geophysical investigation of Holocene back-barrier sequences in mid-coastal Maine (Boston U./WHOI).

1996-2000 2000 - Project co-leader: Geophysical and sedimentological investigation of a Holocene inlet-fill complex, Debidue Beach, South Carolina (Woods Hole Group/Boston University). Research Scientist: Geomorphology, sedimentology, and evolution of Kuwait islands (Kuwait University). 1999 - Analysis of estuarine responses to dredging: hydraulics and sediment transport patterns in jettied tidal inlet and dynamics of the backbarrier region, Wells National Estuarine Research Reserve, Maine (CICEET). GPR survey of the Spencer-Pierce-Little Farm site, Newbury, Massachusetts (Boston University/ SPNEA). 1998 - Geophysical and stratigraphic study of Late Quaternary barrier island and tidal inlet complexes, SE North Carolina (UNC-Wilmington). Shoreline process-response studies and sedimentological and geophysical investigation of Duxbury Beach, Massachusetts (Duxbury Beach Reservation/GeoPlan Associates/Boston University). 1997- Nearshore geological framework mapping along the southern coast of Long Island, New York, (*F/V Diane G*, USGS/Woods Hole). Collaborative estuary-wide hydrography of the lower Kennebec River, Maine (Texas Christian University/Boston U./U. of Maine). 1996 - Geophysical and sedimentological

investigation of stratigraphic architecture and morphogenesis of deglacial sandplains, Maine (Boston University/ Maine Geological Survey).
Geophysical mapping of Breeds Hill fortification remains adjacent to Bunker Hill Monument, Charlestown, MA (Boston U.)

1990-1995 1995 - Research Scientist: Collaborative research project on the stratigraphy, evolution, and sea-level records at Sandy Neck barrier spit, Massachusetts (Free University of Amsterdam/Boston University); 1989-90 - Sedimentological and paleoecological analysis of shallow marine sediments, Karkinitzkiy Bay, Black Sea, (two cruises on *R/V Antares*, Odessa National University, Ukraine)

CRUISE PARTICIPATION

08/2007 Research Scientist, Black Sea, *R/V Flamingo*, Ukraine (IFE, Ukrainian AS)
6/2007 Research Scientist, Vineyard Sound, *R/V Tioga* (WHOI)
09-10/2003 Chief Scientist, Massachusetts Bay, *R/V Rafael* (USGS-Woods Hole)
06/2003 Research Scientist, Vineyard Sound, *R/V Asterias* (WHOI, USGS)
05/2003 Research Scientist, Long Bay, SC, *R/V Coastal II* (Coastal Carolina U., USGS)
08/2002 Research Scientist, MV offshore, *R/V Cape Henlopen* (WHOI, U. of Delaware)
08/2001 Chief Scientist, Martha's Vineyard offshore, *R/V Nobska* (USGS)
02/2000 Research Scientist, Northern Arabian Gulf, *R/V Oloom III* (Kuwait University)
07/1997 Research Scientist, Long Island offshore, *F/V Diane G* (USGS)
05/1990-91 Student Researcher, NW Black Sea, *R/V Antares* (Odessa National University)

PROFESSIONAL JOURNAL REVIEWS

Outside Reviewer: Geology; Journal of Geophysical Research; Marine Geology; Sedimentology; Estuarine, Coastal, and Shelf Science; Journal of Coastal Research; Quaternary International; Geoarchaeology; Engineering Geology.
Special Editorial Boards: The Biological Bulletin; NATO Science Series IV.

FUNDING HISTORY

Funded Research

2008-2010	PI, Ocean and Climate Change Institute, WHOI, #12681. <i>Reactivation of Coastal Dunefields in Equatorial Brazil: Aeolian Proxies for Climate-Landscape Interaction.</i>	\$74,114
2008-2010	Co-PI, NSF-CNH-0815875. <i>Drowning of developed coastal barriers: investigating the threshold rates of sea-level rise for the geologic-human system.</i>	\$1,399, 915
2007-2009	PI, Ocean and Climate Change Institute, North Atlantic/ Arctic Climate Initiative, WHOI, #37216. <i>Arctic coastal barriers: a long-term record of rapid environmental changes.</i>	\$30,000
2007-2008	PI, Mary Sears Visiting Scientist Award, WHOI. <i>Establishing a collaborative coastal geology and geoarchaeology research program in Ukraine.</i>	\$5,000
2006-2007	PI, National Geographic Society Grant #8060-06. <i>Entombed by the wind: in search of Curonian coastal villages buried by migrating dunes.</i>	\$14,200
2005-2007	PI, Ocean and Climate Change Institute, WHOI, #GG11899.00. <i>Coastal dunes as archives of climate change.</i>	\$64,514
2004-2006	PI, Independent Study Award, WHOI, #27005198. <i>Geological records of coastal hazards along a recently emergent shoreline of Santa Catarina, Brazil.</i>	\$51,061
2003-2004	PI, Coastal Ocean Institute, WHOI. <i>Extending the documentary records of shoreline change for Martha's Vineyard and Nantucket.</i>	\$58,897
2002-2003	Co-PI, Coastal Ocean Institute, WHOI, #GG11226.00. <i>High-resolution geophysical imaging of coastal aquifers: Does geological framework control groundwater discharge?</i>	\$19,556
2001-2002	PI, National Oceanic Sciences AMS Facility, WHOI. <i>Toward high-resolution chronology of coastal change in formerly glaciated regions: Implications for climate research.</i>	\$3,000

2000	Research Associate, NSF-MRI Grant EAR-0079588. <i>Acquisition of near-surface geophysical and sampling equipment for Earth Surface Processes and Quaternary Stratigraphic Research.</i>	\$111,692
1999-2000	PI, GSA Student Research Grant #6398-99. <i>Morphostratigraphy and facies architecture of sandy barriers along the embayed coast of Maine.</i>	\$2,050
1999-2000	PI, AAPG Student Research Grant #528-12-01. <i>Preservation of organic-rich sediments in paraglacial coastal sequences of peninsular Maine.</i>	\$1,900
1998-1999	PI, GSA Student Research Grant #6198-98. <i>Styles of Holocene evolution of a bedrock-bound sandy barrier complex, Reid State Park, Maine: Implications for regional stratigraphic record of paraglacial coastal sequences.</i>	\$1,765
1997-1999	Research Associate, American Chemical Society. Petroleum Research Fund, #32527-AC8. <i>New stratigraphic and evolutionary models for complex barrier sequences.</i>	\$50,000
1997-1998	PI, Geochron Laboratories ¹⁴ C-dating Award. <i>Establishing a chronology of barrier emplacement in mid-coastal Maine.</i>	\$1,500

PEER-REVIEWED PUBLICATIONS

- Buynevich, I.V.**, Taphonomic applications of georadar. *Journal of Taphonomy*, submitted.
- FitzGerald, D.M., Fenster, M.S., Argow, B., and **Buynevich, I.V.**, 2008. Coastal impacts due to sea-level rise. *Annual Review of Earth and Planetary Sciences*, 36, 601-647.
- Buynevich, I.V.**, 2007. Barrier-fronted saltponds (Cape Cod, USA) and limans (NW Black Sea, Ukraine): comparative morphostratigraphy and response to sea-level rise. *Quaternary International*, 168, 12-18; doi: 10.1016/j.quaint.2006.10.016.
- Buynevich, I.V.**, 2007. Paleoenvironmental significance of the eastern mud snail, *Ilyanassa obsoleta* (Say, 1822), from a microtidal coastal sequence of southern New England. *The Nautilus*, 121, 37-39.
- Buynevich, I.V.**, Bitinas, A., and Pupienis, D., 2007. Lithological anomalies in a relict coastal dune: geophysical and paleoenvironmental markers. *Geophysical Research Letters*, 34, L09707, doi:10.1029/2007GL029767.
- Buynevich, I.V.**, Bitinas, A., and Pupienis, D., 2007. Reactivation of coastal dunes documented by subsurface imaging of the Great Dune Ridge, Lithuania. *Journal of Coastal Research*, SI 50, 226-230.
- Buynevich, I.V.**, FitzGerald, D.M., and Goble, R.J., 2007. A 1,500-year record of North Atlantic storm activity based on optically dated relict beach scarps. *Geology*, 35, 543-546; doi: 10.1130/G23636A.1.
- FitzGerald, D.M., Cleary, W.J., **Buynevich, I.V.**, Hein, C., Klein, A. H. F., Asp, N. E., and Angulo, R., 2007. Strandplain evolution along the southern coast of Santa Catarina, Brazil. *Journal of Coastal Research*, SI 50, 152-156.
- Buynevich, I.V.**, 2006. Coastal environmental changes revealed in geophysical images of Nantucket Island, Massachusetts, USA. *Environmental and Engineering Geoscience*, 12, 227-234.
- Buynevich, I.V.** and Donnelly, J.P., 2006. Geological signatures of barrier breaching and overwash, southern Massachusetts, U.S.A. *Journal of Coastal Research*, SI 39, 112-116.
- FitzGerald, D.M., **Buynevich, I.V.**, and Argow, B., 2006. A coupled model of tidal inlet and barrier island dynamics in a regime of accelerated sea-level rise. *Journal of Coastal Research*, SI 39, 789-795.
- Buynevich, I.V.**, 2005. Sediments shed light on past coastal events, *Geotimes*, 11, 40-41, 54.
- Buynevich, I.V.**, Asp, N.E., FitzGerald, D.M., Cleary, W.J., Klein, A.H.F., Siegle, E., and Angulo, R., 2005. Mud in the surf: Nature at work in a Brazilian bay. *Eos Transactions*, AGU, 86 (33), 301, 304.
- Goff, J.A., Mayer, L., Traykovski, P.A., **Buynevich, I.V.**, Wilkens, R., Raymond, R., Glang, G., Evans, R.L., Olson, H., and Jenkins, C., 2005. Detailed investigation of sorted bedforms, or "rippled scour depressions", within the Martha's Vineyard Coastal Observatory, Massachusetts. *Continental Shelf Research*, 25, 461-484.
- Buynevich, I.V.**, FitzGerald, D.M., and van Heteren, S., 2004. Sedimentary records of intense storms in Holocene barrier sequences, Maine, USA. *Marine Geology*, 210, 135-148, doi: 10.1016/j.margeo.2004.05.007.
- Dougherty, A.J., FitzGerald, D.M., and **Buynevich, I.V.**, 2004. Evidence for storm-dominated early progradation of Castle Neck Barrier, Massachusetts, USA. *Marine Geology*, 210, 123-134.

- Buynevich, I.V.**, 2003. Subsurface evidence of a pre-1846 breach across Menauhant Barrier, Cape Cod, Massachusetts. *Shore & Beach*, 71, 3-6.
- Buynevich, I.V.** and FitzGerald, D.M., 2003. High-resolution subsurface (GPR) profiling and sedimentology of coastal ponds, Maine, USA.: Implications for Holocene back-barrier evolution. *Journal of Sedimentary Research*, 73, 559-571.
- Buynevich, I.V.** and FitzGerald, D.M., 2003. Textural and compositional characterization of recent sediments along a paraglacial estuarine coastline, Maine, USA. *Estuarine, Coastal, and Shelf Science*, 56, 139-153.
- Buynevich, I.V.** and FitzGerald, D.M., 2002. Organic-rich facies in paraglacial barrier lithosomes of northern New England: preservation and paleoenvironmental significance. *Journal of Coastal Research*, SI 36, 109-117.
- FitzGerald, D.M., **Buynevich, I.V.**, Davis, R.A., Jr., and Fenster, M.S., 2002. New England tidal inlets with special reference to riverine-associated inlet systems. *Geomorphology*, 48, 179-208.
- Buynevich, I.V.**, FitzGerald, D.M., Smith, L.B., Jr., and Dougherty, A.J., 2001. Stratigraphic evidence for historical position of the East Cambridge shoreline, Boston Harbor, Massachusetts. *Journal of Coastal Research*, 17, 620-624.
- Fenster, M.S., FitzGerald, D.M., Kelley, J.T., Belknap, D.F., **Buynevich, I.V.**, and Dickson, S.M., 2001. Net ebb sediment transport in a rock-bound, mesotidal estuary during spring freshet conditions: Kennebec River estuary, Maine. *Geological Society of America Bulletin*, 113, 1522-1531.
- Buynevich, I.V.** and FitzGerald, D.M., 2001. Styles of coastal progradation revealed in subsurface records of paraglacial barriers, New England, USA. *Journal of Coastal Research*, SI 34, p. 194-208.
- FitzGerald, D.M., **Buynevich, I.V.**, and Rosen, P.S., 2001. Geological evidence of former tidal inlets along a retrograding barrier: Duxbury Beach, Massachusetts, USA. *Journal of Coastal Research*, SI 34, 437-448.
- FitzGerald, D.M., **Buynevich, I.V.**, Fenster, M.S., and McKinlay, P.A., 2000. Sand circulation at the mouth of a rock-bound, tide-dominated estuary. *Sedimentary Geology*, 131, 25-49.
- van Heteren, S., FitzGerald, D.M., McKinlay, P.A., and **Buynevich, I.V.**, 1998. Radar facies of paraglacial barrier systems: coastal New England, USA. *Sedimentology*, 45, 181-200.

BOOK CHAPTERS

- Buynevich, I.V.**, Yanko-Hombach, V.V., Smyntyna, O., and Martin, R.E., Geology and Geoarchaeology of the Black Sea Region: Beyond the Flood Hypothesis. *Geological Society of America Special Paper*, approved.
- Buynevich, I.V.**, Jol, H.M., and FitzGerald, D.M., Coastal Environments. In: Jol, H.M. (ed.), *GPR: Radar Theory and Applications*. Elsevier, submitted.
- Buynevich, I.V.** and FitzGerald, D.M., 2005. Sedimentological signatures of riverine-dominated phases in estuarine and barrier evolution along an embayed coastline. In: FitzGerald, D.M. and Knight, J. (eds.), *High Resolution Morphodynamics and Sedimentary Evolution of Estuaries*, Springer, Dordrecht, The Netherlands, pp. 315-334.

- Fenster, M.S., FitzGerald, D.M., Belknap, D.F., D.M., Knisley, B.A, Gontz, A.M., **Buynevich, I.V.**, 2005. Controls on estuarine sediment dynamics in Merrymeeting Bay, Kennebec River estuary, Maine, USA. In: FitzGerald, D.M. and Knight, J. (eds.), *High Resolution Morphodynamics and Sedimentary Evolution of Estuaries*, Springer, Dordrecht, The Netherlands, pp. 173-194.
- FitzGerald, D.M., **Buynevich, I.V.**, Fenster, M.S., Kelley, J.T., and Belknap, D.F., 2005. Coarse-grained sediment transport in northern New England estuaries: a synthesis. In: FitzGerald, D.M. and Knight, J. (eds.), *High Resolution Morphodynamics and Sedimentary Evolution of Estuaries*, Springer, Dordrecht, The Netherlands, pp. 195-213.
- Tary, A.K., FitzGerald, D.M., and **Buynevich, I.V.**, 2001. Late Quaternary morphogenesis of a marine-limit delta plain, southwest Maine. In: Weddle, T.K and Retelle, M.J., (eds.), Deglacial history and relative sea-level changes, northern New England and adjacent Canada. *Geological Society of America Special Paper 351*, 125-149.

ENCYCLOPEDIA ENTRIES

- FitzGerald, D.M. and **Buynevich, I.V.**, 2006. Coastal Barriers. In: *Encyclopedia of Life Support Systems*, UNESCO-EOLSS Publishers Co, Ltd., Oxford, UK, www.eolss.net/E2-06-toc.aspx.
- Buynevich, I.V.** and FitzGerald, D.M., 2005. Ground-penetrating radar. In: Schwartz, M. L. (ed.), *Encyclopedia of Coastal Science*, Springer, Dordrecht, pp. 503-507.
- FitzGerald, D.M. and **Buynevich, I.V.**, 2003. Barrier Islands. In: Middleton, G.V. (ed.), *Encyclopedia of Sediments and Sedimentary Rocks*, Kluwer Academic Publishers, pp. 43-47.
- FitzGerald, D.M. and **Buynevich, I.V.**, 2003. Tidal Inlets and Deltas. In: Middleton, G.V. (ed.), *Encyclopedia of Sediments and Sedimentary Rocks*, Kluwer Academic Publishers, pp. 737-741.

BOOK REVIEWS

- Buynevich, I.V.**, The Black Sea Flood Question: Changes in Coastline, Climate and Human Settlement. Yanko-Hombach, V., Gilbert, A.S., Panin N. and Dolukhanov, P.M., (eds.), Springer, 2007, 971 pp., *The Holocene*, submitted.

CONFERENCE PROCEEDINGS

- Asp, N. E., **Buynevich, I. V.**, Siegle, E., FitzGerald, D., Klein, A. H.F., Cleary, W.J., Angulo, R. J., 2005. Coastal Geomorphology of the Tijucas Plain – Brazil: A Preliminary Evolutionary Model. *Proceedings of the 10th ABEQUA Conference*, Guarapari/ES – Brazil. Paper 89, 6 p.
- Buynevich, I.V.**, Evans, R.L., and FitzGerald, D.M., 2003. High-resolution geophysical imaging of buried inlet channels. *Proceedings of the International Conference on Coastal Sediments 2003*, World Scientific Publishing Corporation, Corpus Christi, Texas, 9 p.

- FitzGerald, D.M., Argow, B., and **Buynevich, I.V.**, 2003. Rising sea level and its effects on backbarrier marshes and tidal flats, tidal inlets, and adjacent barrier shorelines. *Proceedings of the International Conference on Coastal Sediments 2003*, World Scientific Publishing Corporation, Corpus Christi, Texas, 14 p.
- Marden, T., FitzGerald, D.M., **Buynevich, I.V.**, Johnsen, C., Pendleton, E., Fields, L., and Rits, M., 2003. Geophysical surveying and sediment cores identify 200-year old tidal inlet to resolve property boundary dispute, Debidue Island, SC. *Proceedings of the International Conference on Coastal Sediments 2003*, World Scientific Publishing Corporation, Corpus Christi, Texas, 15 p.
- Buynevich, I.V.** and FitzGerald, D.M., 1999. Structural controls on the development of a coarse sandy barrier, Reid State Park, Maine. *Coastal Sediments '99 Proceedings*, ASCE Press, 2, 1256-1267.

REPORTS AND GUIDEBOOKS

- Belknap, D.F., Kelley, J.T., FitzGerald, D.M., and **Buynevich, I.V.**, 2004. Field Trip Guidebook: Quaternary Land-Ocean Interactions: Driving Mechanisms and Coastal Responses. *International Geological Correlation Program Project 495, Bar Harbor, Maine*, 59 p.
- Buynevich, I.V.**, 2003. High-resolution imaging of coastal barriers. *U.S. Geological Survey Open-File Report 03-254*, 2 p.
- FitzGerald, D.M., Rits, M., Marden, T., Johnsen, C., and **Buynevich, I.V.**, 2004. Investigation of the stratigraphy along central Debidue Island, South Carolina. *Phase 5 Technical Report*, Woods Hole Group Inc., Woods Hole, Massachusetts, 33 p.
- FitzGerald, D.M., **Buynevich, I.V.**, Belknap, D.F., Kelley, J.T., Cleary, W.J., Barnhardt, W.A., Pendleton, E.A., Gontz, A.M., Daly, J.F., Knisel, J., and Kelley, A., 2002. Picture essay of the Ireland coast. *Journal of Coastal Research*, v. 18, p. 810-832.
- Marden, T., FitzGerald, D.M., **Buynevich, I.V.**, Johnsen, C., Pendleton, E.A., Fields, L., and Tabar, J., 2002. Delineation of historical "New Inlet", Debidue Island, South Carolina. *Proceedings of the National Conference on Beach Preservation Technology*, Biloxi, Mississippi, p. 127-142.
- Buynevich, I.V.** and FitzGerald, D.M., 2000. The coastal geology of Popham and Reid Beaches. In: Yates, M.G., Lux, D.R., and Kelley, J.T. (eds.), Guidebook for field trips in coastal and east-central Maine, *Annual Meeting - New England Intercollegiate Geological Conference, Guidebook*, 92, 226-237.
- Rosen, P.S., FitzGerald, D.M., **Buynevich, I.V.**, and Jahoda, J., 2000. Duxbury Beach morphology and processes, with special reference to shorebird habitats and nesting patterns: Part II. *Duxbury Beach Reservation Annual Report*, 45 p.
- Buynevich, I.V.**, FitzGerald, D.M., and Parolski, K.F., 1999. Geophysical investigation of the nearshore geologic framework, eastern Casco Bay - Reid State Park, Maine: data interpretation and implications for Late Quaternary coastal evolution. *U.S. Geological Survey Open-File Report 99-0380*, 32 p.
- Rosen, P.S., FitzGerald, D.M., **Buynevich, I.V.**, and Jahoda, J., 1999. Duxbury Beach morphology and processes, with special reference to shorebird habitats and nesting patterns: Part I. *Duxbury Beach Reservation Annual Report*, 41 p.

PUBLISHED ABSTRACTS

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