

**Scott C. Hagen, Ph.D., P.E., D.CE, D.WRE, F.ASCE**  
**Louisiana Sea Grant Laborde Chair**

Civil and Environmental Engineering  
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**Educational Background**

Ph.D. in Civil Engineering  
University of Notre Dame, Notre Dame, Indiana April 1998  
Bachelor of Science, Engineering (with Honors in Civil Engineering)  
University of Iowa, Iowa City, Iowa May 1993

**Professional Certification**

State of Florida, P.E. Number 57469 Continuous since: July 2001  
Diplomate of Coastal Engineering (D.CE) March 2010  
Diplomate of Water Resources Engineering (D.WRE) April 2010

**Academic Appointments**

Professor, LSU / Civil and Environmental Engineering January 2015 – Present  
Professor, LSU / Center for Computation & Technology January 2015 – Present  
Fellow, LSU Coastal Studies Institute March 2015 – Present  
Professor, UCF / CECE August 2012 – January 2015  
University of Central Florida / Civil, Environmental, & Construction Engineering  
Director, UCF CHAMPS Laboratory (champs.cecs.ucf.edu) August 2001 – January 2015  
Affiliated Research Faculty, UCF Inst. for Simulation and Training 2008 – 2015  
Associate Professor, UCF / CECE August 2003 – August 2012  
Assistant Professor, UCF / CECE August 1997 – August 2003  
Visiting Associate Professor, Environmental Modeling Research Laboratory  
Brigham Young University, Provo, Utah February – April 2005  
Visiting Associate Professor, Rosenstiel School of Marine and Atmospheric Science  
University of Miami, Miami, Florida August – December 2004  
On-Board Scientist, Explorer of the Seas  
Royal Caribbean Cruise Line October 3 – 10, 2004  
Guest Associate Professor, Graduate School of Science and Engineering  
Chuo University, Tokyo, JAPAN May 27 – June 17, 2001 & Sept. 1 – 21, 2008  
Instructor, Department of Civil Engineering & Geological Sciences 1996  
National Science Foundation Summer Fellow 1992  
University of Notre Dame, Notre Dame, Indiana  
Research Assistant, Iowa Institute of Hydraulic Research 1991 – 1993  
Teaching Assistant, Civil and Environmental Engineering 1990 – 1992  
University of Iowa, Iowa City, Iowa

**Consulting**

**2005 – Present**

Battelle, Inc. / DRMP / Dynamic Solutions, LLC / Jones Day / Oceanweather, Inc. / South  
Florida Water Management District / Surfbreak Engineering Sciences, Inc. / The Water  
Institute of the Gulf / Woolpert, Inc

**Previous Employment**

Assistant Manager of Hagen Livestock Farm, Homestead, Iowa 1980 – 1990

## HONORS AND RECOGNITION

### Research

Invited to present at NOAA Science Days	
• Advancing Climate Science for a Climate-Smart Nation	January 27, 2014
Dean's Research Professorship Award	
• UCF College of Engineering & Computer Science	2013-2014
College Excellence in Research Award	
• UCF College of Engineering & Computer Science Faculty	2013
Outstanding Achievement Award for Advancement of the State-of-the-Art	
• Founders of the International Conference on Hydroscience & Engineering	2012
College Distinguished Researcher Award, Associate Professor	
• UCF College of Engineering & Computer Science Faculty	2011
Nominated for CECS Advisory Board "Outstanding Faculty" Award	
• University of Central Florida	2010
Research Incentive Award	
• University of Central Florida	2010
College Distinguished Researcher Award, Associate Professor	
• UCF College of Engineering & Computer Science Faculty	2010
Department Distinguished Researcher Award, Associate Professor	
• UCF Civil, Environmental & Construction Engineering Faculty	2009
Department Distinguished Researcher Award, Associate Professor	
• UCF Civil and Environmental Engineering Faculty	2007
Associate Professor Researcher of the Year	
• UCF Civil and Environmental Engineering Faculty	2005

### Teaching

Scholarship of Teaching & Learning Award	
• University of Central Florida	Spring 2011
Teaching Incentive Program Award	
• University of Central Florida	Spring 2009
Teaching Incentive Program Award	
• University of Central Florida	Spring 2004
Departmental Award for Excellence in Graduate Teaching	
• UCF Civil and Environmental Engineering Faculty	2002
Departmental Award for Excellence in Undergraduate Teaching	
• UCF Civil and Environmental Engineering Faculty	2000
Dondanville Family Award for Excellence in Teaching	
• University of Notre Dame Civil Engineering Faculty	1995 & 1996

### Service

Fellow, American Society of Civil Engineers	October 7, 2013 – Present
ASCE / Coasts, Oceans, Ports & Rivers Institute (COPRI)	
• Voting Member & Treasurer, Governing Board	2009 – Present
Chair of the Local Organizing Committee	
• 10 <sup>th</sup> International Conference on Hydroscience & Engineering	Nov. 4-8, 2012

**PUBLICATIONS (Student\*)****Refereed Journal Articles: Coastal Engineering / Hydroscience / Sea Level Rise**

1. Passeri\*, D.L., **S.C. Hagen**, S.C. Medeiros, M.V. Bilskie\*, K. Alizad\*, & D. Wang, "The dynamic effects of sea level rise on coastal landscapes: a review." *Earth's Future*, Online, April, 2015. <http://dx.doi.org/10.1002/2015EF000298>
2. Medeiros\*, S.C., **S.C. Hagen**, & J. Weishampel, "A Random Forest model based on lidar and field measurements for parameterizing surface roughness in coastal modeling." *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, Online, May, 2015. <http://dx.doi.org/10.1109/JSTARS.2015.2419817>
3. Medeiros\*, S., S. Hagen, J. Weishampel, & J. Angelo "Adjusting lidar-derived digital terrain models in coastal marshes based on estimated above ground biomass density." *Remote Sensing*, Vol. 7, pp. 3507-3525, 2015.
4. Taylor, N.R., J.L. Irish, I.E. Udoh, M.V. Bilskie\*, & **S.C. Hagen**, "Development and Uncertainty Quantification of Hurricane Surge Response Functions for Hazard Assessment in Coastal Bays." *Natural Hazards*, No. 77:2, pp. 1103-1123. 2015. <http://dx.doi.org/10.1007/s11069-015-1646-5>
5. Warnock, A.M. & **S.C. Hagen** & D.L. Passeri\*, "Marine Tar Residues: A Review", *Water, Air & Soil Pollution*, No. 225:68, pp. 1-24. 2015. <http://dx.doi.org/10.1007/s11270-015-2298-5>
6. Huang, W., **S.C. Hagen**, & P. Bacopoulos, & D. Wang, "Hydrodynamic modeling and analysis of sea-level rise impacts on salinity for oyster growth in Apalachicola Bay, Florida." *Estuarine, Coastal and Shelf Science*, Vol. 156, pp. 7-18. 2014. <http://dx.doi.org/10.1016/j.ecss.2014.11.008>
7. Passeri\*, D.L., **S.C. Hagen**, & J.L. Irish, "Comparison of shoreline change rates along the South Atlantic Bight and Northern Gulf of Mexico coasts for better evaluation of future shoreline positions under sea level rise." In: Huang, W. and Hagen S.C. (eds.), *Climate Change Impacts on Surface Water Systems*. Journal of Coastal Research, Special Issue, No. 68, pp. 20-26. 2014. <http://dx.doi.org/10.2112/SI68-003.1>
8. Chen\*, X., K. Alizad\*, D. Wang, & **S.C. Hagen**, "Climate Change Impact on Runoff and Sediment Loads to the Apalachicola River at Seasonal and Event Scales." In: Huang, W. and Hagen S.C. (eds.), *Climate Change Impacts on Surface Water Systems*. Journal of Coastal Research, Special Issue, No. 68, pp. 35-42. 2014. <http://dx.doi.org/10.2112/SI68-005.1>
9. Bacopoulos, P. & **S.C. Hagen**, "Dynamic considerations of sea-level rise with respect to water levels and flooding in Apalachicola Bay." In: Huang, W. and Hagen S.C. (eds.), *Climate Change Impacts on Surface Water Systems*. Journal of Coastal Research, Special Issue, No. 68, pp. 43-48. 2014. <http://dx.doi.org/10.2112/SI68-006.1>
10. Huang, W., **S.C. Hagen**, P. Bacopoulos, & F. Teng, "Sea-Level Rise Impacts on Hurricane-Induced Salinity Transport in Apalachicola Bay." In: Huang, W. and Hagen S.C. (eds.), *Climate Change Impacts on Surface Water Systems*. Journal of Coastal Research, Special Issue, No. 68, pp. 49-56. 2014. <http://dx.doi.org/10.2112/SI68-007.1>
11. Passeri\*, D.L., **S.C. Hagen**, M.V. Bilskie, & S.C. Medeiros\*, "On the significance of incorporating shoreline changes for evaluating coastal hydrodynamics under sea level rise

- scenarios.” *Natural Hazards*, Vol. 75 (2), 2015, pp. 1599-1617.  
<http://dx.doi.org/10.1007/s11069-014-1386-y>
12. Zhang, F., Z. Zhang, **S.C. Hagen**, M. Ye, D. Wang, C. Zeng, L. Tian, J. Liu, & D. Gui, “Snow cover and runoff modeling in a high mountain catchment with scarce data: effects of temperature and precipitation parameters.” *Hydrological Processes*, Vol. 29 (1), January 2015, pp. 52-65. <http://dx.doi.org/10.1002/hyp.10125>.
  13. Bilskie \*, M.V., **S.C. Hagen**, S.C. Medeiros \*, D.L. Passeri \*, “Dynamics of sea level rise and coastal flooding on a changing landscape.” *Geophysical Research Letters*, Vol. 41, 2014, pp. 1-8.  
<http://dx.doi.org/10.1002/2013GL058759>.
  14. Joshua S. Reece, Davina Passeri \*, Llewellyn Ehrhart, **Scott Hagen**, Allison Hays, Christopher Long, Reed F. Noss, Matthew Bilskie \*, Cheryl Sanchez, Monette V. Schwoerer, Betsy Von Holle, John Weishampel, Shaye Wolf, “Sea level rise, land use, and climate change influence the distribution of loggerhead turtle nests at the largest USA rookery (Melbourne Beach, Florida).” *Marine Ecology Progress Series*, Vol. 493, 2013, pp. 259–274.  
<http://dx.doi.org/10.3354/meps10531>.
  15. Tamura \*, H., P. Bacopoulos, D. Wang, **S.C. Hagen** and E.J. Kubatko, “State Estimation of Tidal Hydrodynamics Using Ensemble Kalman Filter.” *Advances in Water Resources*, Vol. 63, January 2014, pp. 45–56. <http://dx.doi.org/10.1016/j.advwatres.2013.11.002>.
  16. Huang, W., **S.C. Hagen**, and P. Bacopoulos, “Hydrodynamic modeling of Hurricane Dennis Impact on Estuarine Salinity Mixing and Transport in Apalachicola Bay,” *Journal of Coastal Research*, Volume 30, Issue 2: 389-398. 2014.  
<http://dx.doi.org/10.2112/JCOASTRES-D-13-00022.1>.
  17. Medeiros \*, **S.C., Hagen**, S.C., Chaouch, N., Feyen, J.C., Temimi, M., Weishampel, J.F., Funakoshi, Y., Khanbilvardi, R., “Assessing the performance of a Northern Gulf of Mexico tidal model using satellite imagery.” *Remote Sensing*, Vol. 5, 2013, pp. 5662-5679.  
<http://dx.doi.org/10.3390/rs5115662>.
  18. **Hagen, S.C.**, J.L. Irish, “Implications, Planning, and Design Considerations for Rising Sea Levels at the Coast.” *ASCE Journal of Waterway, Port, Coastal, and Ocean Engineering*, Vol. 139, No. 2, March/April 2013, p. 81.  
[http://ascelibrary.org/doi/abs/10.1061/\(ASCE\)WW.1943-5460.0000186](http://ascelibrary.org/doi/abs/10.1061/(ASCE)WW.1943-5460.0000186)
  19. **Hagen, S.C.**, J.T. Morris, P. Bacopoulos \*, and J. Weishampel, “Sea-Level Rise Impact on a Salt Marsh System of the Lower St. Johns River.” *ASCE Journal of Waterway, Port, Coastal, and Ocean Engineering*, Vol. 139, No. 2, March/April 2013, pp. 118-125.  
[http://dx.doi.org/10.1061/\(ASCE\)WW.1943-5460.0000177](http://dx.doi.org/10.1061/(ASCE)WW.1943-5460.0000177)
  20. Wang,D., **S.C. Hagen**, and K. Alizad \*, “Climate Change Impact and Uncertainty Analysis of Extreme Rainfall Events in the Apalachicola River Basin, Florida.” *Journal of Hydrology*, Vol. 480, 2013, pp. 125-135. <http://dx.doi.org/10.1016/j.jhydrol.2012.12.015>.
  21. Bilskie \*, M.V., **S.C. Hagen**, “Topographic accuracy assessment of bare earth lidar-derived unstructured meshes.” *Advances in Water Resources*, Vol. 52, Feb. 2013, pp. 165-177. ISSN 0309-1708, 10.1016/j.advwatres.2012.09.003.

22. **Hagen, S.C.**, P. Bacopoulos<sup>\*</sup>, “Synthetic Storms Contributing to Coastal Flooding in Florida’s Big Bend Region with Application to Sea Level Rise Impact.” *Terrestrial, Atmospheric and Oceanic Sciences*, Vol. 23, No. 5, October 2012, pp. 481-500.  
[http://dx.doi.org/10.3319/TAO.2012.04.17.01\(WMH\)](http://dx.doi.org/10.3319/TAO.2012.04.17.01(WMH))
23. **Hagen, S.C.**, P. Bacopoulos<sup>\*</sup>, A.T. Cox, and V.J. Cardone, “Hydrodynamics of the 2004 Florida Hurricanes,” *Journal of Coastal Research*. Vol. 28, No. 5, Sept. 2012, pp. 1121-1129.  
<http://dx.doi.org/10.2112/JCOASTRES-D-10-00170.1>
24. Medeiros<sup>\*</sup>, S.C., **S.C. Hagen**, and J. Weishampel, “Comparison of floodplain surface roughness parameters derived from land cover data and field measurements.” *Journal of Hydrology*, Vol. 452–453, 2012 pp. 139-149.  
<http://dx.doi.org/10.1016/j.jhydrol.2012.05.043>
25. Chaouch, N., M. Temimi, **S.C. Hagen**, J. Weishampel, S.C. Medeiros<sup>\*</sup>, R. Khanbilvardi, “A synergetic use of satellite imagery from SAR and optical sensors to improve coastal flood mapping in the Gulf of Mexico,” *Hydrological Processes*, Vol. 26. No. 11, 2012, pp. 1617–1628.  
<http://dx.doi.org/10.1002/hyp.8268>
26. Bacopoulos<sup>\*</sup>, P., **S.C. Hagen**, A.T. Cox, W.R. Dally, and S. Bratos, “Observation and simulation of wind, tide, and circulation in Lower St. Johns River.” *Journal of Hydrology*, Vol. 420–421, 14 February 2012, pp. 391-402.  
<http://dx.doi.org/10.1016/j.jhydrol.2011.12.032>
27. Bacopoulos<sup>\*</sup>, P., W.R. Dally, **S.C. Hagen**, and A.T. Cox, “Observations and simulation of winds, waves, and currents along Florida's east coast during Hurricane Jeanne (2004),” *Coastal Engineering*, Vol. 60. February 2012, pp. 84–94.  
<http://dx.doi.org/10.1016/j.coastaleng.2011.08.010>
28. Medeiros<sup>\*</sup>, S.C., T. Ali, **S.C. Hagen**, and J.P. Raiford, “Development of a Seamless Topographic / Bathymetric Digital Terrain Model for Hurricane Storm Surge Modeling in Tampa Bay, Florida,” *Photogrammetric Engineering & Remote Sensing*, Vol. 77, No. 12, December 2011, pp. 1149–1256.
29. Giardino<sup>\*</sup>, D., P. Bacopoulos<sup>\*</sup> and **S.C. Hagen**, “Tidal Spectroscopy of the Lower St. Johns River from a High-Resolution Shallow Water Hydrodynamic Model,” *International Journal of Ocean and Climate Systems*, Vol. 2. No. 1, 2011, pp. 1–15.  
<http://dx.doi.org/10.1260/1759-3131.2.1.1>
30. Bacopoulos<sup>\*</sup>, P. and **S.C. Hagen**, “Tidal Simulations for the Loxahatchee River Estuary (Southeastern Florida): On the Influence of Tidal Flats and the Atlantic Intracoastal Waterway,” *ASCE Journal of Waterway, Port, Coastal, and Ocean Engineering*, Vol. 135. No. 6, November/December 2009, pp. 321–335.  
[http://dx.doi.org/10.1061/\(ASCE\)WW.1943-5460.0000005](http://dx.doi.org/10.1061/(ASCE)WW.1943-5460.0000005)
31. Bacopoulos<sup>\*</sup>, P., Y. Funakoshi<sup>\*</sup>, **S.C. Hagen**, A.T. Cox, and V.J. Cardone, “The Role of Meteorological Forcing on the St. Johns River (Northeastern Florida),” *Journal of Hydrology*, Vol. 369. 2009, pp. 55–70.  
<http://dx.doi.org/10.1016/j.jhydrol.2009.02.027>
32. Funakoshi<sup>\*</sup>, Y., **S.C. Hagen**, and P. Bacopoulos<sup>\*</sup> “Coupling of Hydrodynamic and Wave Models: A Case Study for a Hurricane Floyd (1999) Hindcast,” *ASCE Journal of*

*Waterway, Port, Coastal, and Ocean Engineering*, Vol. 134. No. 6, November/December 2008, pp. 321–335.

[http://dx.doi.org/10.1061/\(ASCE\)0733-950X\(2008\)134:6\(321\)](http://dx.doi.org/10.1061/(ASCE)0733-950X(2008)134:6(321))

33. Salisbury<sup>\*</sup>, M.B. and **S.C. Hagen**, “The Effect of Tidal Inlets on Open Coast Storm Surge Hydrographs,” *Coastal Engineering*, Vol. 54. No. 3, 2007, pp. 377–391.  
<http://dx.doi.org/10.1016/j.coastaleng.2006.10.002>
34. Dietsche<sup>\*</sup>, D., **S.C. Hagen**, and P. Bacopoulos<sup>\*</sup>, “Storm Surge Simulations for Hurricane Hugo (1989): On the Significance of Inundation Areas,” *ASCE Journal of Waterway, Port, Coastal, and Ocean Engineering*, Vol. 133. No. 3, 2007, pp. 183–191.  
[http://dx.doi.org/10.1061/\(ASCE\)0733-950X\(2007\)133:3\(183\)](http://dx.doi.org/10.1061/(ASCE)0733-950X(2007)133:3(183))
35. **Hagen, S.C.**, H.C. Graber, V.J. Cardone, A.T. Cox, R.E. Jensen, D.N. Slinn and M.D. Powell, “Review of the NOPP Real-time Forecasting System for Winds, Waves and Storm Tides of Tropical cyclones,” *Pearl River*, Vol. 6. 2006, pp. 4–9. Note: A Keynote Lecture published in a Chinese journal.
36. H.C. Graber, V.J. Cardone, R.E. Jensen, D.N. Slinn, **S.C. Hagen**, A.T. Cox, M.D. Powell, and C. Grassl, “Coastal Forecasts and Storm Surge Predictions for Tropical Cyclones: A Timely Partnership Program,” *Oceanography*, Vol. 19. No. 1, March 2006, pp. 130–141.  
<http://dx.doi.org/10.5670/oceanog.2006.96>

#### **Refereed Journal Articles: Unstructured Mesh Generation**

37. Medeiros<sup>\*</sup>, S.C., **S.C. Hagen**, “Review of wetting and drying algorithms for numerical tidal flow models” *International Journal for Numerical Methods in Fluids*, Vol. 71, No. 4, 2013, pp. 473–487. <http://dx.doi.org/10.1002/flid.3668>
38. Bacopoulos<sup>\*</sup>, P., D.M. Parrish<sup>\*</sup>, and **S.C. Hagen**, “Unstructured mesh assessment for tidal model of the South Atlantic Bight and its estuaries,” *Journal of Hydraulic Research*, Vol. 49. No. 4, 2011, pp. 487–502. <http://dx.doi.org/10.1080/00221686.2011.552465>
39. Parrish<sup>\*</sup>, D.M. and **S.C. Hagen**, “Incorporating spatially variable bottom stress and Coriolis force into 2D, a posteriori, unstructured mesh generation for nonlinear oceanic and coastal tidal models,” *International Journal for Numerical Methods in Fluids*, Vol. 60. No. 3, May 2009, pp. 237–261. <http://dx.doi.org/10.1002/flid.1882>
40. Parrish<sup>\*</sup>, D.M. and **S.C. Hagen**, “2D, unstructured mesh generation for oceanic and coastal tidal models from a localized truncation error analysis with complex derivatives,” *International Journal of Computational Fluid Dynamics*, Vol. 21. No. 7&8, August 2007, pp. 277–296.
41. **Hagen, S.C.**, A. Zundel and S. Kojima<sup>\*</sup>, “Automatic, Unstructured Mesh Generation for Tidal Calculations in a Large Domain,” *International Journal of Computational Fluid Dynamics*, Vol. 20. No. 8, 2006, pp. 593–608.
42. **Hagen, S.C.** and D.M. Parrish<sup>\*</sup>, “Meshing Requirements for Tidal Modeling in the Western North Atlantic,” *International Journal of Computational Fluid Dynamics*, Vol. 18. No. 7, 2004, pp. 585–595.
43. **Hagen, S.C.** and D.M. Parrish<sup>\*</sup>, “Unstructured Mesh Generation for the Western North Atlantic Tidal Model Domain,” *Engineering With Computers*, Vol. 20. No. 2, 2004, pp. 136–146.

44. **Hagen, S.C.**, O. Horstman and R.J. Bennett<sup>\*</sup>, “An Unstructured Mesh Generation Algorithm for Shallow Water Modeling,” *International Journal of Computational Fluid Dynamics*, Vol. 16. No. 2, 2002, pp. 83–91.
45. **Hagen, S.C.**, “Estimation of the Truncation Error for the Linearized, Shallow Water Momentum Equations”, *Engineering With Computers*, Vol. 17. 2001, pp. 354–362.
46. **Hagen, S.C.**, J.J. Westerink, R.L. Kolar and O. Horstman, “Two-dimensional, Unstructured Mesh Generation for Tidal Models,” *International Journal for Numerical Methods in Fluids*, Vol. 35. 2001, pp. 669–686.
47. **Hagen, S.C.**, J.J. Westerink and R.L. Kolar, “One-dimensional Finite Element Grids Based on a Localized Truncation Error Analysis,” *International Journal for Numerical Methods in Fluids*, Vol. 32. 2000, pp. 241–261.

#### **Refereed Journal Articles: *Education & Outreach***

48. Stephens, S., D.E. DeLorme, & **S.C. Hagen**, “Usability Engineering for Stakeholder Engagement: Evaluating the Utility and Communication Effectiveness of an Online Interactive Sea Level Rise Viewer.” *Journal of Business & Technical Communication*, In press, January, 2015.
49. Stephens, S., D.E. DeLorme, & **S.C. Hagen**, “An Analysis of the Narrative Elements of Interactive Sea Level Rise Viewers.” *Science Communication*, 36: 675-705, December, 2014.  
<http://dx.doi.org/10.1177/1075547014550371>
50. Young, C.Y., M. Georgiopoulos, **S.C. Hagen**, C.L. Geiger, M.A. Dagley-Falls, A.L. Islas, P.J. Ramsey, P.M. Lancey, D.S. Forde, E.E. Bradbury, "Improving Student Learning in Calculus Through Applications," *International Journal of Mathematical Education in Science and Technology*, Vol. 42. No. 5, July 2011, pp. 591–604.  
<http://dx.doi.org/10.1080/0020739X.2010.550944>
51. DeLorme, D.E., **S.C. Hagen**, and I.J. Stout, “Perspectives on Prescribed Burning: Issues and Directions for Developing Campaign Messages,” *Environmental Communication Yearbook*, Vol. 2. 2005, pp. 99–114.
52. DeLorme, D.E., G. Zinkhan, and **S.C. Hagen**, “The Process of Consumer Reactions to Possession Threats and Losses in a Natural Disaster,” *Marketing Letters*, Vol. 15. No. 4, 2004, pp. 185–199.
53. DeLorme, D.E., **S.C. Hagen**, and I.J. Stout, “Consumers’ Perspectives on Water Issues: Directions for Educational Campaigns,” *Journal of Environmental Education*, Vol. 34. No. 2, 2003, pp. 28–35.

#### **Refereed Journal Articles: *Florida Trade Journal***

54. Gangai, J., **S.C. Hagen**, and R. Bartel, “An Overview of a FEMA Coastal Inundation Study for the Big Bend Region of Florida,” *Florida Watershed Journal*, Vol. 4. No. 2, Spring 2011, pp. 1–4.
55. Salisbury<sup>\*</sup>, M.B., **S.C. Hagen**, D. Coggin<sup>\*</sup>, P. Bacopoulos<sup>\*</sup>, J. Atkinson and H. Roberts, “Unstructured Mesh Development for the Big Bend Region (Florida),” *Florida Watershed Journal*, Vol. 4. No. 2, Spring 2011, pp. 11–14.

56. Coggin<sup>\*</sup>, D., **S.C. Hagen**, and M.B. Salisbury<sup>\*</sup>, “A Digital Elevation Model for Franklin, Wakulla, and Jefferson Counties Florida,” *Florida Watershed Journal*, Vol. 4. No. 2, Spring 2011, pp. 5–10.
57. Atkinson, J., H. Roberts, **S.C. Hagen**, S. Zhou, P. Bacopoulos<sup>\*</sup>, S. Medeiros<sup>\*</sup>, J. Weishampel and Z. Cobell, “Deriving Frictional Parameters and Performing Historical Validation for an ADCIRC storm surge model of the Florida gulf coast,” *Florida Watershed Journal*, Vol. 4. No. 2, Spring 2011, pp. 22–27.
58. Toro, G.R., **S.C. Hagen**, J. Atkinson and C. Reed, “Production Runs for the Big Bend Region of Florida,” *Florida Watershed Journal*, Vol. 4. No. 2, Spring 2011, pp. 28–35.
59. Chopra, M., **S.C. Hagen** and L.N. Reddi, “Hydro-Environmental Education at the University of Central Florida,” *Florida Watershed Journal*, Vol. 3. No. 1, Summer 2010, pp. 4–8.

### Edited Books

1. **Hagen, S.C.**, M. Chopra, K. Madani, S.C. Medeiros, & D. Wang (editors) *Proceedings of the Tenth International Conference on Hydrosience & Engineering, The Water Cycle Under a Changing Climate: Using Hydrosience and Engineering for a Sustainable Future*, (www.ICHE2012.org), ISBN 978-0-615-72135-4, Orlando, FL, Nov. 4-8, 2012.
2. **Hagen, S.C.**, & D. Passeri<sup>\*</sup> (editors) *UCF EXCEL Applications of Calculus II, Spring 2012*, UCF: Orlando, 2012, 75 pages.
3. **Hagen, S.C.**, L.E. Thomas<sup>\*</sup> & D. Passeri<sup>\*</sup> (editors) *UCF EXCEL Applications of Calculus II, Spring 2011*, UCF: Orlando, 2011, 87 pages.
4. **Hagen, S.C.** & L.E. Thomas<sup>\*</sup> (editors) *UCF EXCEL Applications of Calculus II, Spring 2010*, UCF: Orlando, 2010, 79 pages.
5. **Hagen, S.C.** & S.C. Medeiros<sup>\*</sup> (editors) *UCF EXCEL Applications of Calculus II, Spring 2009*, UCF: Orlando, 2009, 71 pages.
6. **Hagen, S.C.** & S.C. Medeiros<sup>\*</sup> (editors) *UCF EXCEL Applications of Calculus II, Spring 2008*, UCF: Orlando, 2008, 80 pages.
7. **Hagen, S.C.**, T.H. Wlodarczyk & P. Bacopoulos<sup>\*</sup> (editors) *UCF EXCEL Applications of Calculus II, Spring 2007*, UCF: Orlando, 2007, 71 pages.

### Book Chapter

Westerink, J.J., R.A. Luetlich, C.A. Blain and **S.C. Hagen**, “Surface Elevation and Circulation in Continental Margin Waters,” in G.F. Carey (Ed): *Finite Element Modeling of Environmental Problems*, Wiley, New York: NY, 1995, pp. 39–59.