

Alan D. Weidemann

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a. Professional Preparation

North Dakota State University, B.S. (Zoology/Fisheries & Wildlife Management),	1977
North Dakota State University, M.S. (Zoology/Fisheries & Wildlife Management),	1980
University of Rochester, N.Y., M.S. (Biology),	1982
University of Rochester, N.Y., Ph.D. (Biology),	1985
National Research Council Post-doc (Naval Oceanographic Research Development Activity, Oceanography),	1986-1987

b. Appointments

1988-present : Oceanographer, Naval Oceanographic Research Development Activity/Naval Research Laboratory)

c. Publications

(i) Five most closely related publications

Zhang, X., Y. Huot, D. Gray, A. D. **Weidemann**, and J.W. Rhea, (2013), "Biogeochemical origins of particles from the inversion of the Volume Scattering Function and spectral absorption in coastal waters," *Biogeosciences* 10(9), pp. 6029-6043.

Hou, W., E. Jarosz, S. Woods, W.A. Goode, and A.D. **Weidemann**, (2013), "Impacts of underwater turbulence on acoustical and optical signals and their linkage," *Optics Express* 21(4), pp. 4367-4375.

Churnside, J., R. Marchbanks, J. Lee, J. Shaw, A. **Weidemann**, and P. Donaghay, (2012), "Airborne LIDAR detection of internal waves in a shallow fjord," *Journal of Applied Remote Sensing* Vol. 6, pp. 1-15.

Peng, F., S.W. Effler, D. O'Donnell, A. **Weidemann**, and M.T. Auer, (2009), "Characterizations of minerogenic particles in support of modeling light scattering through a two-component approach in Lake Superior," *Limnology and Oceanography*, 54(4), pp. 1369-1381.

Snyder, W. A., R. A. Arnone, C.O. Davis, W. Goode, R. W. Gould, S. Ladner, G. Lamela, W. J. Rhea, R. Stavn, M. Sydor, and A. **Weidemann**, (2008), "Optical scattering and backscattering by organic and inorganic particulates in U.S. coastal waters," *Applied Optics* 47(5), pp. 666-677.

(ii) Five other significant publications

Weidemann, A., J. Prentice, A. Acker, V. Contarino, and P.Nandy, (2013), "Joint Multi-Mission Electro-optic System (JMMES) Performance for Submarine Detection (U)". Special Issue: *Journal of Underwater Acoustics* Volume 007_W pages 1-32, (SECRET), invited).

Lee, Z.P., A. **Weidemann**, R. Arnone, (2013), "The combined effect of reduced band number and increased bandwidth on shallow water remote sensing: The case of WorldView 2", *IEEE Transactions on GeoScience and Remote Sensing* Volume 51(5), pp. 2577-2586.

J. Erickson, N. Hashemi, J. Sullivan, A. **Weidemann**, and F. Ligler, (2012), “In Situ phytoplankton analysis: there’s plenty of room at the bottom,” *Analytical Chemistry* 84(2), pp. 839-850, (invited).

Lohrenz, S.E., A. **Weidemann**, and M. Tuel, (2003), “Phytoplankton spectral absorption as influenced by size structure and pigment composition”, *J. Plankton Res.* 25(1), pp 35-61.

Chang, G., T. Dickey, O. Schofield, A. **Weidemann**, E. Boss, W.S. Pegau, M. Moline, and S. Glenn, (2002), “Nearshore Physical Forcing of Bio-optical Properties in the New York Bight,” *Journal of Geophysical Res.* vol 107 C9, 3133, doi:10.1029.

d. Synergistic Activities: I serve as reviewer for journals including Applied Optics, Limnology and Oceanography, Remote Sensing of the Environment, and Journal for Underwater Acoustics. I have also served as project reviewer for NASA, ONR, and NSF panels including previous GOMRi initiatives.

e. Collaborators & Other Affiliations

(i) Collaborators last 48 months

James Churnside: NOAA Environmental Science Research Laboratory

Robert Arnone: University of Southern Mississippi

Oscar Schofield: Rutgers University

Chuanmin Hu: University of South Florida

Zhong Ping Lee: University of Massachusetts, Boston

James Sullivan: Florida Atlantic University