

ROBERT T. GUZA

- Address** Scripps Institution of Oceanography
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- Education** B.A. Johns Hopkins University, Physics, 1969
(M.S.) Ph.D. University of California, Oceanography, (1971) 1974
- Positions** 2001-present Co-Director, Integrative Oceanography Division
1994-2001 Director, Center for Coastal Studies
1975-present Faculty of Scripps Institution of Oceanography
Asst. Prof. (1975-1981), Assoc. Prof. (1981-1987), Prof. (1987-
1974-1975 Post-Doctoral Fellow, Dalhousie University
- Awards** AGU citation for excellence in refereeing (1990, 1994)
Outstanding Journal Paper Award (Amer. Soc. Civil Eng., Ocean Division, 1991)
AGU Fellow (1993)
AGU Outstanding Student Paper Awards (junior author, w/Okiihiro '91 & Schmidt '02)
Steinbach Scholar (WHOI, 1996)
Calif. Shore & Beach Preservation Association 2001 award for outstanding
contributions to coastal engineering (with Pawka and O'Reilly)
- Other** Associate Editor, Journal of Geophysical Research (1984-1988)
Coastal Ocean Processes (CoOP) steering committee member (1988-1991)
SANDY DUCK steering committee member (1992-1997)
California Sea Grant committee member (2000-2001)

Chairman of PhD graduates

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|---|---|
| R. Flick (co-chair with Inman, 1978) | D. King (co-chair with Seymour, 1991) |
| M. Freilich (1982) | R. George (co-chair with Van Atta, 1992) |
| S. Elgar (1985) | M. Okiihiro (co-chair with Seymour, 1993) |
| J. Oltman-Shay (1985) | B. Raubenheimer (1996) |
| M. Merrifield (co-chair with Winant 1989) | E. Gallagher (co-chair with Elgar 1996) |
| E. Melo (1990) | F. Feddersen (1999) |
| T. Herbers (1990) | T.J. Noyes (2002) |
| W. O'Reilly (1991) | W. Schmidt (2003) |

Selected Publications

- 1) Guza, R. T., and R. E. Davis, Excitation of edge waves by waves incident on a beach, *J. Geophys. Res.*, 79(9), 1285-1291, 1974.
- 11) Guza, R. T., and E. B. Thornton, Local and shoaled comparisons of sea surface elevations, pressures, and velocities, *J. Geophys. Res.*, 85(C3),1524-1530, 1980.
- 22) Freilich, M. H., and R. T. Guza, Nonlinear effects on shoaling surface gravity waves, *Phil. Trans. R. Soc. London, Ser. A*, 311, 1-41, 1984.

- 31) Elgar, S., and R. T. Guza, Shoaling gravity waves: comparisons between field observations, linear theory, and a nonlinear model, *J. Fluid Mech.*, 158, 47-70, 1985.
- 35) Guza, R. T., E. B. Thornton, and N. Christensen, Jr., Observations of steady longshore currents in the surf zone, *J. Phys. Oceanogr.*, 16(11), 1959-1969, 1986.
- 50) Melo, E., and R. T. Guza, Wave propagation in a jettied entrance channel, Part 2: Observations, *J. Waterway, Port, Coastal, and Ocean Eng.*, 117(5), 493-510, 1991.
- 64) George, R., R. E. Flick, and R. T. Guza. Observations of turbulence in the surf zone, *J. Geophys. Res.*, 99(C1), 801-810, 1994.
- 77) Okihiro, M., and R. T. Guza. Observations of seiche forcing and amplification in three small harbors, *J. Waterway, Port, Coastal, and Ocean Eng.*, 122(5), 232-238, 1996.
- 83) O'Reilly, W. C., and R. T. Guza. Assimilating coastal wave observations in regional swell predictions. Part 1: Inverse methods, *J. Phys. Oceanogr.*, 28(4), 679-691, 1998.
- 89) Chen, Y., and R. T. Guza. Resonant scattering of edge waves by longshore periodic topography: finite beach slope, *J. Fluid Mech.*, 387., 255-269, 1999.
- 99) Ruessink, B.G., J.R.Miles, F. Feddersen, R.T. Guza, and S. Elgar, Modeling the alongshore current on barred beaches, *J. Geophysical Research*, 106, 22,451-22,463, 2001.
- 103) Feddersen, F., and R.T. Guza, Observations of Nearshore Circulation : Alongshore Uniformity, *J. Geophys. Res.*, 108, doi:10.1029/2001JC001293, 2003.
- 104) Herbers, T.H.C., M. Orzech, Steve Elgar, and R. T. Guza, Shoaling Transformation of Wave Frequency-Directional Spectra, *J. Geophys. Res.*, 108, doi:10.1029/2001JC001304, 2003.
- 105) Feddersen, F., E. Gallagher, R.T. Guza, and S. Elgar, The drag coefficient, bottom roughness, and wave-breaking in the nearshore, *Coastal Eng.* 48, 189-195, 2003
- 106) Lentz, S., S. Elgar, and R. T. Guza, Observations of the flow field near the nose of a buoyant coastal current, *J. Phys. Oceanogr.*, 33, 933-943, 2003.
- 107) Noyes, T.J., R.T. Guza, Steve Elgar, and T.H.C. Herbers, Field observations of Shear Waves in the Surf Zone, *J. Geophys. Res.*, 109, C1027, doi:10.1029/2003JC001877, 2004.
- 109) Feddersen, F., R.T. Guza, and S. Elgar, inverse modeling of one-dimensional setup and alongshore current in the nearshore, *J. Phys. Oceanogr.*, 34, (4), 920-933, 2004
- 111) Sheremet, A., R.T. Guza, and T.H.C. Herbers, A new estimator for directional properties of nearshore waves, *J. Geophys. Res.*, 110, C01001, doi:10.1029/2003JC002236, 2005.
- 112) Gallagher E, Steve Elgar, R.T. Guza, and E. Thornton, Estimating nearshore seafloor roughness with altimeters, *Marine Geology*, 216, (1-2), 51-57, 2005.
- 115) Noyes, T.J., R.T. Guza, F. Feddersen, Steve Elgar, and T.H.C. Herbers, Model-data comparisons of shear waves in the nearshore, *J. Geophys. Res.*, in press