

## Biographical Sketch – H. Tuba Özkan-Haller

### (a) Professional Preparation

|  |                     |             |
|--|---------------------|-------------|
| Boğazici University                    | Civil Engineering   | B.S., 1991  |
| University of Delaware                 | Civil Engineering   | M.S., 1994  |
| University of Delaware                 | Civil Engineering   | Ph.D., 1998 |
| Univ. Cantabria, Spain/ Univ. Delaware | Coastal Engineering | 1997-1998   |

### (b) Appointments

|              |   |
|--------------|---|
| 2001-present | Assistant Professor – College of Oceanic and Atmospheric Sciences,<br>Oregon State University, Corvallis, OR            |
| 1998-2001    | Assistant Professor – Department of Naval Architecture and Marine Engineering,<br>University of Michigan, Ann Arbor, MI |

### (c) Publications

#### 5 most closely related

Long, J.W. and Özkan-Haller, H.T. (2005) "Offshore controls on nearshore rip currents", submitted to *J. Geophys.Res.*, **110**, C1207, doi:10.1029/2005JC003018.

Özkan-Haller, H.T., Li, Y. (2003) "Wave-current interaction effects on shear instabilities", *J. Geophys.Res.*, **108**, C5, 3139, doi: 10.1029/2001JC001287.

Özkan-Haller, H.T., Vidal, C., Losada, I.J., Medina, R., Losada, M.A. (2001) "Standing edge waves on a pocket beach." *J. Geophys. Res.*, **106**, C8, 16,981-16,996.

Özkan-Haller, H.T. and Kirby, J.T. (1999). "Nonlinear evolution of shear instabilities of the longshore current: A comparison of observations and computations." *J. Geophys. Res.*, **104**, 25,953-25,984.

Özkan-Haller, H.T. and Kirby, J.T. (1997). "A Fourier-Chebyshev collocation method for the shallow water equations including shoreline runup." *Appl. Ocean Res.*, **19**, 21-34.

#### Other publications

Özkan-Haller, H.T., Brundidge, S. (2006) "Equilibrium beach profile concepts for Delaware beaches" *J. Waterways, Coastal and Ocean Engrg.*, in press.

Holman, R.A., Stanley, J. and Özkan-Haller, H.T. (2003) "Applying Video Sensor Networks to Nearshore Environment Monitoring", **2**, 14-21.

Haller, M.C. and Özkan-Haller, H.T. (2002) "Wave breaking and rip current circulation" *Proceedings of the 28th International Conference on Coastal Engineering*.

Chawla, A., Özkan-Haller, H.T. and Kirby, J.T. (1998). "Spectral wave model for wave transformation over irregular bathymetry." *J. Waterways, Port, Coastal and Ocean Engrg.*, **124**, 189-198.

Özkan-Haller, H.T. and Kirby, J.T. (1997). "Shear Instabilities of Longshore Currents: Flow characteristics and momentum mixing during Superduck." *Proceedings of Coastal Dynamics 1997*, Plymouth, UK 466-475.

Kirby, J.T., Putrevu, U. and Özkan-Haller, H.T. (1998). "Evolution equations for edge waves and shear waves on longshore uniform beaches." *Proceedings of the 26th International Conference on Coastal Engineering*.

Putrevu, U., Kirby, J.T., Oltman-Shay, J. and Özkan-Haller, H.T. (1998). "On the viscous destabilization of longshore currents." *Proceedings of the 26th International Conference on Coastal Engineering*.

#### **(d) Synergistic Activities**

- Mentor for Interdisciplinary Approach to Coastal Processes and Hazard Mitigation REU program, 2003-2005
- On-screen interviewee in educational video about coastal natural hazards for an audience of coastal property developers and buyers, Spring 2005
- Invited speaker at the House Oceans Caucus Luncheon on "Efforts to understand and predict coastal damage by storms", Library of Congress, May 2003
- Convener and Chair, 1998 AGU Fall Meeting Special Session: Nearshore Processes, December 1998
- Co-Chair, Nearshore Research Workshop, St. Petersburg, FL, 1998.

#### **(e) Collaborators and Other Affiliations**

##### **(i) Collaborators:**

|                |   |
|----------------|---|
| Arun Chawla    | Oregon Graduate Inst., Oregon Health and Science University |
| Merrick Haller | Oregon State University                                     |
| Rob Holman     | Oregon State University                                     |
| James Kirby    | University of Delaware                                      |

##### **(ii) Graduate and Postgraduate Advisors:**

M.S. and Ph.D. theses – James Kirby (Univ. Delaware)  
Postdoctoral – Miguel Losada, University of Granada

##### **(iii) Thesis Advisor (2) and Postgraduate-Scholar (1) Sponsor:**

Jamie Lescinski (M.S., USGS, San Diego)  
Joseph Long (M.S., OSU)  
Haiying Jiao (Postgraduate, OSU)