

PUBLICATION LIST

BALDVIN EINARSSON

Publications:

- Einarsson, B., Birnir, B., Bonilla, L. *Ordered, Disordered and Partially Synchronized Schools of Fish*. (Submitted)
- Einarsson, B., Rodriguez, D., Carpio, A. *Pattern formation in biofilms at increasing Reynolds numbers*. (Submitted)
- Rodriguez, D., Einarsson, B., Carpio, A. *Biofilm growth on rugose surfaces*. 2012. Physical Review E 86: 061914
- Einarsson, Baldvin *An Interacting Particle Model and Dynamic Energy Budget Theory: Analysis and Applications*. 2011. Ph.D. Thesis at the University of Iceland. Available online at <http://www.math.ucsb.edu/~baldvine>
- Einarsson, B., Birnir, B., and Sigurðsson, S. 2011. *A Dynamic Energy Budget (DEB) model for the energy usage and reproduction of the Icelandic capelin (Mallotus villosus)*. Journal of Theoretical Biology, 281: 1-8.
- Barbaro, A., Einarsson, B., Birnir, B., Sigurðsson, S., Valdimarsson, H., Pálsson, Ó.K., Sveinbjörnsson, S., and Sigurðsson, Þ. 2009. *Modelling and simulations of the migration of pelagic fish*. ICES Journal of Marine Science, 66: 826-838.
- Kjartan G. Magnusson, Sven Þ. Sigurdsson and Baldvin Einarsson, 2004. *A discrete and stochastic simulation model for migration of fish with application to capelin in the seas around Iceland*. Science Institute, University of Iceland, Report RH-20-2004. Available online at <http://www.math.ucsb.edu/~baldvine>

Conference papers and other publications:

- Rodriguez, D., Einarsson, B., Carpio, A., 2012. *A cellular automata model for biofilm growth*, in: Pimenta, P.M. and Campello, E.M.B. (Eds.), Proceedings of the 10th World Congress on Computational Mechanics, São Paulo, Brazil.
- Einarsson, B., Barbaro, A., Birnir, B., Sigurðsson, S., 2012. *Likön og hermanir að göngum, vexti og þroska uppsjávarfiska (Modelling and simulations of the migration, growth and maturity of capelin)*, Hafrannsóknir, 164: 133-151. (In Icelandic)
- Rodriguez, D., Einarsson, B., Carpio, A. *Influence of rugosity on biofilm growth*, Numerical Analysis and Applied Mathematics ICNAAM 2011. AIP Conference Proceedings, Volume 1389, pp. 1454-1457 (2011).
- Barbaro, A., Einarsson, B., Birnir, B., Sigurðsson, S., Valdimarsson, H., Pálsson, Ó.K., Sveinbjörnsson, S., Sigurðsson, Þ., 2009. *Simulations and scaling laws for a bioenergetic model of the Icelandic capelin stock*, in: Secor, D., Petitgas, P., McQuinn, I., Cadrin, S. (Eds.), Proceedings of the 2009 ICES Conference, Berlin, Germany.