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**Jerry Bona\*** ([bona@math.uic.edu](mailto:bona@math.uic.edu)), Dept. Math. Statistics & Computer Science, University of Illinois at Chicago, 851 S. Morgan St. MC 249, Chicago, IL 60607. *Propagation of Long-crested Water Waves*. Preliminary report.

Long-crested wave motion is often seen in the deep ocean, in near-shore zones and on rivers and estuaries. In the 19th century, it was common to use one-dimensional models to describe such motions. However, there are situations which are still considered long-crested where variations along the crest are significant enough to warrant more refined modeling. The lecture will report on some recent progress on long-crested wave propagation with especial attention paid to the lateral boundary conditions. (Received September 04, 2012)