1021-55-13   **Alexander Voronov**, **Eric Harrelson** and **J Javier Zuniga*** (`zuniga@math.umn.edu`), 127 Vincent Hall, 206 Church St. S.E., Minneapolis, MN 55455. *Quantum Master Equation of Open-Closed String Theory.* Preliminary report.

We set up a Quantum Master Equation for open-closed string theory and show that the corresponding moduli spaces give rise to a solution, a generating function for their fundamental chains. The equation encodes the topological structure of the compactification of the moduli space of bordered Riemann surfaces. We also discuss the structure of a Quantum Master Equation for the Gromov-Witten potential, i.e., the generating function of the moduli space of maps of Riemann surfaces to a target space. (Received May 30, 2006)