1039-53-173   **Mihaela B Vajiac*** (`mbvajiac@chapman.edu`), Chapman University, Math/CS Dept., One University Drive, Orange, CA 92886. *Harmonic Maps in Lie Groups and Integrable Systems.*

I will give an overview of recent developments in the theory of harmonic maps in Lie groups. I will also present a recent result of M. Vajiac and K. Uhlenbeck on the actions of a half Virasoro algebra on the space of (2+0) harmonic maps into a Lie group. This action is generated by a natural action on the frames. A similar calculation on the space-time (1+1) harmonic maps yields formulas generated by John Schwarz.

Joint work with Prof. K. Uhlenbeck (UT Austin). (Received March 11, 2008)