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Jacqueline M. Dewar* (jdewar@lmu.edu), Loyola Marymount University, Department of Mathematics, 1 LMU Drive UH 2700, Los Angeles, CA 90045. *Could an ecology of teaching and learning inform us about best practices in classroom teaching?*

Haekel coined the term "ecology" in 1866, describing it as "the whole science of the relations of the organism to the environment including, in the broad sense, all the 'conditions of existence' [...] partly organic, partly inorganic [...] the entire relations of the organism to all other organisms with which it comes into contact, and of which most contribute either to its advantage or its harm." This talk will invite the audience to brainstorm what an ecology of teaching and learning might suggest about teaching - at the course or classroom level. Topics we may explore include: course design principles, affective dimensions of teaching and learning, classroom climate, stereotype threat, growth versus fixed mindsets, brain science and learning, and more. Resources will be provided for learning more about these topics. (Received September 05, 2014)