

Abstract Submitted  
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**A Study of a Mechanical Swimming Lamprey**<sup>1</sup> MEGAN LEFTWICH, ALEXANDER SMITS, Princeton University — To develop a comprehensive model of lamprey swimming, the wake structure generated by a swimming mechanical model is investigated using dye flow visualization. The eel is activated by 13 programmable servomotors and a traveling wave is generated along the length of the body. The waveform is based on the motion of an American eel (*Anguilla rostrata*) of Tytell and Lauder (2004). A laser scanning system is used to visualize the three-dimensional unsteady wake structure.

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