

WALTHAM, Mass., Oct. 9, 2013 /PRNewswire/ -- Boston Engineering Corporation's Advanced Systems Group (ASG) will be featured on "Chronicle," an award-winning TV magazine program on October 11, 2013. Chronicle will focus on ASG's ground-breaking technological development with BIOSwimmer, a robotic fish. BIOSwimmer is a biomimetic, autonomous underwater vehicle (AUV) designed for use in many missions including port security, inspection, and maintenance.

Mike Rufo, Director, Principal Engineer and Robotacist for the Advanced Systems Group, stated: "While it is applicable to many missions, we are currently working closely with BIOSwimmer's sponsors, the Department of Homeland Security's Science and Technology Directorate, to apply its unique maneuverability to inspect the more challenging areas of our nation's harbors. Our Advanced Systems Group has performed extensive research and analysis of biological systems, their kinematics and dynamics. We have used our specific talents in robotics and controls to translate the way fish swim into an electromechanical system. What we feel is very important, and unique to our work, is that this translation is performed in a fashion that provides tactical relevance. Our vehicles can carry sensors, perform tasks and missions, and effectively and efficiently interact with human operators to fill real and important capability gaps."

Acting like a fish also comes from modeling the biological control system. Layering the control, and engineering it as a biological system is laid out, allows ASG to impart behaviors and motions tied closely to a fish, while leveraging existing state-of-the-art, man-made components.

ASG is working to commercialize this technology. By leveraging a grant from the Commonwealth of Massachusetts' START program, ASG is accelerating its marketing and planning efforts toward a release into the commercial marketplace.

About Boston Engineering

Boston Engineering Corporation, an engineering consultancy, designs and engineers new and next-generation product solutions for commercial and government entities. We offer multidisciplinary engineering teams to help guide clients from proof-of-concept through the product life-cycle. With expertise ranging from robotics to complex electromechanical systems and supply-chain development, we thrive on solving the most difficult challenges clients face every day.

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