

ARMY BOARD
Bio-Inspired Signature Management Workshop

September 16, 2019
Room 100, Keck Center
500 5th St NW, Washington, DC 20001

Agenda

Monday 09/16

0800-0830	<p>Introductions, Continental Breakfast, and Outlining Workshop Goals</p> <p style="padding-left: 40px;">a) Defining Tangible Outcomes and Products</p> <p>(Alleyne/Bear)</p>
0830-0900	<p>Title: Dynamic Materials Inspired by Cephalopods</p> <p>Speaker: Alon Gorodetsky, University of California, Irvine</p> <p>(Moderator: Roger Hanlon)</p>
0900-0930	<p>Title: Animal Camouflage: Evolutionary Biology Meets Vision Science</p> <p>Speaker: : Innes Cuthill, University of Bristol</p> <p>(Moderator: Roger Hanlon)</p>
0930-0945	Break
0945-1100	<p>Moderated Working Discussion to focus on Materials/Structures</p> <p style="padding-left: 40px;">a) Identify bio-inspired concepts that could be relevant</p> <p style="padding-left: 40px;">b) Find and classify examples of relevance</p> <p>(Moderator: Paul Schomber)</p>
1100-1130	<p>Title: Bio-Inspired Sensors: From the Ocean to the Operating Room</p> <p>Speaker: Viktor Gruev, University of Illinois, Urbana-Champaign</p> <p>(Moderator: Pamela Abshire)</p>
1130-1200	<p>Title: Camouflage Strategies and Vision</p> <p>Speaker: Martin Stevens, University of Exeter</p> <p>(Moderator: Pamela Abshire)</p>
1200-1300	Lunch (Working Lunch with additional discussion based on the morning presentations)
1300-1430	<p>Moderated working discussion to focus on Materials/Structures and Ensembles</p> <p style="padding-left: 40px;">a) Identify bio-inspired concepts that would be relevant</p> <p style="padding-left: 40px;">b) Find and classify examples of relevance</p> <p>(Moderator: Marianne Alleyne)</p>
1430-1445	Break
1445-1600	<p>Panel Session:</p> <p style="padding-left: 40px;">Roger Hanlon, Woods Hole Marine Biological Laboratory</p> <p style="padding-left: 40px;">Leila Deravi, Northeastern University</p> <p style="padding-left: 40px;">Michelle Povinelli, University of Southern California</p> <p style="padding-left: 40px;">Naomi Halas, Rice University</p>

	Evaluation of Biology to influence possible camouflage, concealment or decoy approaches; What is the art of the possible? (Moderator: Jacquelyn Nagel)
1600-1630	Break
1630-1730	Group Discussion(s): Gaps and potential actions to reduce gaps a) Identify nature's solutions and relevant engineering/technical barriers b) Examine paths to manufacturing/fabrication, levels of achievable success, and potential resources needed (Leaders: Michael Bear, Andrew Alleyne) (Scribes: TBD)
1730-1800	Transition to Dinner
1800-1930	Working Dinner: All participants Group Discussion(s): a) Identify promising areas for exploration with Research and Development b) Presentations of findings (Moderator: Michael Bear, Andrew Alleyne)
1930-2000	Identify Consensus Conclusions and Minority Conclusions (Organizing Committee)
2000	Summary and Workshop Closure (Alleyne/Bear)