

Table 1

Biocene 2018			
Organizers		 	
Event Sponsors		 	
			
Program	Speakers	Start Time	Track
EPSCoR SME "1 on 1's"		8/14/2018 9:15am	Technical
Tour 1 of NASA Glenn Research Center		8/14/2018 1:00pm	Education
Early Bird Registration/ Volunteer Orientation		8/14/2018 1:00pm	All
Biocene 2018 Cafe		8/14/2018 1:30pm	All
Bio-inspired Art Competition		8/14/2018 1:30pm	All
Tour 2 of NASA Glenn Research Center		8/14/2018 3:00pm	Education
Continental Breakfast		8/15/2018 8:00am	
Welcome: Day 1	Dr. Vikram Shyam, NASA Glenn Research Center Jeff Rolf(President, OAI), Tom Tyrrell (Founder, GLBio). Dr. Ajay Misra (Deputy Director for Research, NASA Glenn Research Center)	8/15/2018 8:45am	All
Summit Objectives: Blockchain, Bionics and the Biocene	Dr. Vikram Shyam, NASA GRC	8/15/2018 9:00am	All
Keynote 1: Healthy Buildings for Everyone: Tapping Into Biology to Grow the Next Generation of Buildings	Eric Corey Freed (Principal, organicARCHITECT)	8/15/2018 9:15am	Keynote
Biomimicry: What's in your R&D?	Dr. Peter Niewiarowski (Department of Biology, University of Akron)	8/15/2018 10:15am	Business
Break		8/15/2018 10:45am	All
Design of Soft Machines	Dr. Mattia Gazzola (Blue Waters Professor at National Center for Supercomputing Applicaitons, University of Illinois Urbana Champaign)	8/15/2018 11:00am	Technical
Meet Animal Ambassadors	Harvey Webster (Cleveland Museum of Natural History)	8/15/2018 11:30am	All
Lunch & Announcements		8/15/2018 12:00pm	All
Animal Engineering	Dr. Hunter King (University of Akron)	8/15/2018 1:30pm	Business
The Ultimate Physiomimetic Machine- A Leap Towards a Self-Replicating Machine for Planetary Colonisation	Professor Alex Ellery (Carleton University)	8/15/2018 1:30pm	Technical
Biomimicry & Business Panel : Moderated by Steve Percy	Steve Percy, moderator: (retired Chairman and CEO of BP America) Tom Marting (panelist, Facilities, and Resource Management Director, GOJO) Teresa Wagner (panelist, Director, Roofing Science & Technology, Owens Corning) Jeff Finefrock (panelist, Corporate Technology Portfolio Manager, Lubrizol)	8/15/2018 2:00pm	Business
Intentional Networking Activity	Led by Great Lakes Biomimicry	8/15/2018 2:45pm	Business
Break		8/15/2018 3:00pm	All
Pattern Alphabet	Alex Wolf (na2ure) Dr. Vijal Parikh (na2ure)	8/15/2018 3:15pm	Technical
Biomimicry Explorer	Ioana Baldini (IBM Artificial Intelligence)	8/15/2018 3:45pm	Technical
Lightening Round Presentations	Moderated by Calvin Robinson	8/15/2018 4:15pm	Business
Wrap up of the Day		8/15/2018 5:15pm	All
Reception & Networking, Cleveland Museum of Natural History		8/15/2018 6:30pm	All
Continental Breakfast		8/16/2018 8:00am	All
Welcome: Day 2	Curt Mcnamara (INCOSE/Minneapolis College of Art and Design)	8/16/2018 8:45am	All
Keynote 2: Responsibly Imagined Future and Quantum Biology	Dennis Bushnell, (NASA Langley Research Center)	8/16/2018 9:15am	Keynote
Workshop: Growing V.I.N.E. (Virtual Interchange for Nature-Inspired Exploration), Introduction to Clusters	Facilitated by Colleen Unsworth (Biomimicry Fellow, U Akron/NASA)	8/16/2018 10:00am	Workshop
Drone Demonstrations		8/16/2018 10:30am	All
Impact of Biological Analogies on Creativity of Business Professionals	Dr. Emily Kennedy (University of Akron)	8/16/2018 11:00am	Business
Current Limitations of Biomimicry in Artificial Intelligence Research	Jason Mancuso (OpenMined)	8/16/2018 11:00am	Technical
Systems Mapping and Modeling for Biomimetic Education	Curt McNamara (Minneapolis College of Art and Design)	8/16/2018 11:00am	Education
Break		8/16/2018 11:30am	All
Designing Into and For the Future through Biomimicry	Doug Paige (Cleveland Institute of Art)	8/16/2018 11:40am	Business
Evolving Rule-based, Explainable Artificial Intelligence (XAI) for Decision Support System of Unmanned Air Vehicles	Dr. Devinder Kaur (University of Toledo)	8/16/2018 11:40am	Technical
Resources and Techniques for K-12 Biomimicry Education	Moderator DeLeon, Ballou, Wilson	8/16/2018 11:40am	Education
Lunch & Presentation: Nature-inspired Artificial Intelligence	Dr. Doug Riecken (Program Officer, Science, Information, Learning & Fusion, Air Force Office of Scientific Research)	8/16/2018 12:10pm	Keynote
Introducing Biomimicry to Lockheed Martin	Michael Haro	8/16/2018 1:30pm	Business
Evolutionary Data Mining in Aerospace	Dr. Amir Gandomi (Stevens Institute of Technology)	8/16/2018 1:30pm	Technical
Best Practices in Informal Biomimicry Education	Great Lakes Biomimicry & Akron Zoo	8/16/2018 1:30pm	Education
Break (vote on artwork)		8/16/2018 2:00pm	All
Featured Speaker Dr. Sofi Bin-Salamon, Program Officer, AFSOR, Biophysics at Air Force Office of Scientific Research	Dr. Sofi Bin-Salamon, Program Officer, AFOSR	8/16/2018 2:15pm	Keynote
Workshop: Democratizing Science (Citizen Scientists, K-12, Technology, Business)	Calvin Robinson (NASA, MIT Media Lab)	8/16/2018 2:45pm	Workshop
Break		8/16/2018 3:40pm	All
Flourishing Organizations	Sally Parker(TimeZero Enterprises) Argerie Vasilakes (TimeZero Enterprises)	8/16/2018 3:45pm	Business
Artificial Intelligence Led Discovery of Sense and Avoid Taxonomy and Strategy for sUAS The Business of Drones	Zen Ahmed (QUID)	8/16/2018 3:45pm	Technical
Education: Art Approaches to Bio-Inspired Design	Markus Vogl(University of Akron Myers School of Art)	8/16/2018 3:45pm	Education
Envisioning Human-Centered Tools for Systematic Biologically Inspired Design that Solve Real Needs and Bring People Joy	Ethan Smith (The Biomimicry Institute)	8/16/2018 4:15pm	Business
Neuromorphic Target Tracking and Control for Insect-Scale Aerial Vehicles	Taylor Clawson (Laboratory for Intelligent Systems and Controls, Cornell University)	8/16/2018 4:15pm	Technical
Bio-inspired Augmented Reality for Astronaut Extra Vehicular Activity	Dr. Shivakumar Sastry (Director, Data Science, University of Akron)	8/16/2018 4:15pm	Education
V.I.N.E. Cluster Breakouts - How to Bring Business, Education and Technology to Build PeTaL (Periodic Table of Life)		8/16/2018 4:45pm	Technical
Picnic in Cleveland Metroparks/ Rocky River Reservation		8/16/2018 5:00pm	All
Continental Breakfast		8/17/2018 8:00am	All
Welcome: Day 3	Chris Maurer (Principle Architect, redhouse Studio, LLC.)	8/17/2018 8:45am	All
Meet Zoo animal ambassadors		8/17/2018 9:00am	All

The Structural Form	Dr. Luca Frattari (Director of Business Development, Altair)	8/17/2018 9:15am	Keynote
Break		8/17/2018 10:15am	All
Wind-Resilient Buildings and Structures: What Can We Learn from Nature?	Dr. Petra Gruber (Integrated Biosciences, University of Akron)	8/17/2018 10:30am	Technical
V.I.N.E. Clusters Report out - Including Communication Strategy, Targeted Solicitations, PeTaL Collaboration/ Application		8/17/2018 11:00am	Technical
City 2100	Phillip Vandermey (Spectacle-Bureau and University of Calgary)	8/17/2018 11:30am	Technical
Lunch & Awards	Facilitator - H. Thompson (OAI)	8/17/2018 12:00pm	All