

# BAWØ3

## Biomimicry Alberta Workshop Summer Series

June 24-25, 2017

SUB 0-51 STUDENTS' UNION,  
UNIVERSITY OF ALBERTA,  
EDMONTON, AB.

Alberta is a beautiful place to live with huge potential for change, plenty of renewable resources, available land, cultural diversity, and inspiring minds.

Yet in terms of shaping a sustainable future, everything in Alberta awaits to be done, undone and redone. Biomimicry Alberta will ignite a regional network for design innovation, promote learning from Nature's genius, and create synergies for sustainable change.

### Tentative Program

BAWØ3, University of Alberta Campus

#### Saturday 24

9:30	Arrival, Informal Meet & Greet
10:00	Orientation to People and Place
10:20	Introduction to Biomimicry
10:50	Icebreaker activity
11:00	Innovative Insects Hilary Pittel, Live Cultures Assistant, Royal Alberta Museum
11:45	"What Can Black Flies Teach us about Hydrodynamics and Filtering Fans?" Lecture by Doug Craig, Bio Sciences
12:30	Lunch break
1:15	Introduction to Afternoon's Parallel Activities

#### Sunday 25

9:30	Snacks & Chats
10:00	Genius of Place
10:20	Learning about biodiversity in AB Kurt Illerbrun, ABMI
11:20	Biomimicry Global Design Challenge
11:45	Brainstorming session: nature- inspired solutions
12:30	Lunch break
1:30	Biomimicry Projects in Alberta:  Role of Mucus on Fish-Scale Wettability. Prashant Waghmare, Mechanical Engineering, UofA  Wetting, Slippage, and Splashing on Superhydrophobic Surfaces Dr. Amy Tsai, UofA  A Dynamic Taxonomy on Structural Colour, Carlos Fiorentino, UofA  Bio-centered design: student's work at UofA  Q&A
2:45	Show and tell: Artefact Table, Insect Traps & High Speed Video
3:15	Open discussion
4:00	Closing

Paralell Activities in Groups		Dan Sameoto <i>Mech. Engineering</i>	Cheryl Tebby <i>Entomology</i>	John Nychka <i>Mat. Engineering</i>
1:30 PM	Outdoor Observation: Strategies in Nature			
2:30 PM		Adhesives, outside	Microscopic Scale: Artifact Table	Nature and High Speed Cameras
3:30 PM		Geckos, Dry Adhesives & Electron Microscopy	Microscopic Scale: Artifact Table	Nature and High Speed Cameras

**NOTES FOR ATTENDEES:**  
Going outside on Saturday,  
rain or shine  
Bring sunscreen and bug spray

4:30-5:00 Q & A and Closing

6:00 Dinner and Drinks @ Devaney's  
(Private room downstairs)