**SS Biomimicry Workshop 2015**

**Class 2:** Biomimicry history, ethics and philosophy. Biomimicry design approach. Learn about function

**Intent of Class:** Discover the three seeds of biomimicry, ethos, (re)connect and emulate. Learn how to integrate of biology into the design process. Learn how to identify the function in your design challenge.

**Homework: A) Team introductions B) learn about function C) watch video D) iSite**

**Homework is due to Marie and Diana via email by May 15**

**A) Team Introduction:** Complete your Team’s introduction slide to share with others.

**B) Learn about function:**

1. Complete the Learn About Function exercises in the attached files. Discuss with your tea and compare answers.

2. Determine “What is the function(s) you want to achieve in your challenge?”

Prepare a power point slide with your team name, your challenge and the function(s) you are trying to achieve. Sharing them at the next webinar we can see if there are functions that other teams are trying to achieve.

3. Identify the context for your Team’s Challenge – Under what conditions, circumstances, scenarios, constraints, laws, budgets, systems, etc. must the solution meet its defined function? Context must consider the end user, end use, supply and distribution, economics, and how the design functions in space and time. Examples of context include: Who is involved, what are the conditions for your challenge, how large or small is the area you want to work in? Are there laws, regulations, customs tht must be considered? What is your budget?

**C) Watch the video** of Ray Anderson CEO of Interface Carpet as he tells the story of how he

used biomimicry to innovate his company.

**D) isite:** Continue your iSite: here are a few ideas for you to try if you find them interesting. If

not – just continue to observe and expand your observation skills in Nature.

**Track Change Over Time:**

Visit the same spot in as many different conditions and times of day and season as possible. Record your observations each time, noting differences and changes in both the site and your perception of it.

**Imagine Being One of the Organisms That You Observe:**

Imagine how you perform each of the functions that you and your species need to survive. What are you made of? What and who do you depend on to survive? Who depends on you to survive? What roles do you play in your ecosystem throughout your life? What is your special niche? What are your special adaptations that make you fit best in your niche?

**Look for Patterns in Nature:**

Look for and record patterns in nature that you can see, hear or feel using words and sketches. Patterns might include structural angles, edges, distribution systems or gradients. Guess the function that each pattern might serve.