

Dayna Baumeister

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Biomimicry 3.8
321 E. Broadway, Helena, MT 59601
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PROFESSIONAL PREPARATION

The University of Montana, Missoula
Division of Biological Sciences
PhD., May 2002
Organismic Biology and Ecology
Advisor: Dr. Ragan Callaway

The University of Montana, Missoula
School of Forestry
M.S., May 1995
Natural Resource Conservation
Advisor: Dr. Don Bedunah

New College, Sarasota FL
B.A., May 1993
Major: Environmental Biology
Minor: Fine Arts

SYNERGISTIC ACTIVITIES

1999-pres Partner, Biomimicry 3.8, Helena and Missoula, MT

Co-founder with Janine Benyus, author of Biomimicry (1997, 2002) of the Biomimicry Guild and Biomimicry 3.8. Responsibilities include: concept development, design, execution, and lead instructor of the two-year, graduate level, Biomimicry Professional Program, lead on-line instructor of the graduate level 8-month Biomimicry Specialist program, senior researcher and lead for client services, design and development of new biomimicry tools and resources, and organizational management. Also a world recognized speaker and workshop facilitator. To date, over 25,000 individuals have attended my speeches and workshops. The certificate programs to date have graduated 135 individuals and the week-long trainings have 400 alumni.

2014-pres Professor of Practice & Co-Director of Biomimicry Center, Arizona State University, Tempe, AZ

Co-founder with Prasad Boradkar of the Biomimicry Center. Responsible for coordinating biomimicry research activities across campus, educational endeavors and outreach. Also, teaching and advising on the development and implementation of a campus-based and on-line MS in Biomimicry, as well as other graduate and undergraduate certifications.

2005-2013 Co-founder, Biomimicry Institute, Helena, MT (501(c)3)

The Institute works within the realms of education (K-12 and informal (e.g. exhibits, multi-media)), Global Design Challenges and conservations, through an "Innovation for Conservation" program, as well AskNature.org. Advised on vision and strategy of projects. Former Board member.

2009-2012 Adjunct Faculty, Ontario College of Art and Design, Toronto, Canada

Responsible for advising on the development and implementation of the master's program in Biomimicry and Design, working with local faculty in Toronto on curricula and strategy.

2005-2006 Advisory Board, Sarasota County Biological Field Station

Working with Dr. Meg Lowman to add a biomimetic component to an emerging biological field station in Sarasota County, Florida.

2003-2005 Dana Meadows Fellow, Sustainability Institute, Heartland Four Corners, VT

Selected through competitive process to be a member of the second cohort. Program trains individuals in sustainability, visioning, reflective conversation and systems thinking. Run by graduates of MIT and associated with the systems thinking resources at MIT.

2000, 2005-12 Biologist at the Design Table (BaDT), Interface, Inc. & David Oakey Designs, La Grange, GA

Biologist on retainer for biomimetic design work for commercial carpet and fabric designer.

1999-2000 Intern, National Center for Appropriate Technology, Butte, MT

Developed and implemented models to bring biology to industry within the realm of biomimicry. Established relationships with clients that have carried through to the Biomimicry Guild and Biomimicry 3.8.

1996-2002 Training Within Environmental Biology NSF Fellow: Division of Biological Sciences, The University of Montana, Missoula, MT.

Supported by a 5-year NSF fellowship conducting interdisciplinary research linking human systems and ecology. Research focuses on interspecific dynamics from the individual to the landscape scale as influenced by limber pine on the Rocky Mountain Front and on bring biological knowledge to industry through the field of biomimicry. (Sept. 1996- May 2002)

RELEVANT PUBLICATIONS

- Baumeister, D. 2013. Senior Editor. Biomimicry Resource Handbook: A Seed bank of Knowledge and Best Practices. Biomimicry 3.8. 247 pp.
- Muisenberg, S., Baumeister, D. and J. Appelman. 2013. *Chapter 10: Biomimicry: Design and innovation that can help reach eco-effective solutions*. Green ICT & Energy. J. Appelman, M Warnier, and A Osseyran eds.
- McGee, T. and D. Baumeister. 2009. *Chapter 5: Systems Thinking: Biomimicry*. Packaging Sustainability: Innovative Packaging Design. Wendy Jedlicka, ed.
- Baumeister, D. How would nature remodel? 2007. Section in: Green Remodeling. Lerner, K. and Venolia, C.
- Reap, J., D. Baumeister, and B. Bras. 2005. Holism, Biomimicry and sustainable engineering. Proceedings of ASME International Mechanical Engineering Society.
- Benyus, J. and D. Baumeister 2003. Packaging Tips from the Porcupine Fish (and Other Wild Packagers). Whole Earth Review. 110:26-29.

OTHER PUBLICATIONS

- Baumeister, D. 2002. Effects of *Pinus flexilis* on the dynamics and structure of plant communities on the northern Rocky Mountain Front and Training biologists for emerging niches in non-traditional jobs. PhD Dissertation. Division of Biological Sciences, The University of Montana, Missoula, MT. 155 pp.
- Baumeister, D. and R. Callaway. 2006. Facilitative effects of *Pinus flexilis* during succession: a hierarchy of mechanisms benefits other plant species. Ecology. 87:1816-1830.
- Ayers (Baumeister), D.M., D. J. Bedunah and M.G. Harrington. 1999. Response of antelope bitterbrush and Scouler's willow to a shelterwood harvest and prescribed burn in western Montana. Western J. of Applied Forestry. 14(3):137-143.
- Ayers (Baumeister), D. 1998. Abiotic stress and facilitation: Limber Pine (*Pinus flexilis*) and Douglas-fir (*Pseudotsuga menziesii*) on the Rocky Mountain Front, Montana USA. INTECOL Conference. June 6-10. Florence, Italy.
- Ayers (Baumeister) D. 1996. The Rocky Mountain Front: a landscape in transition. Fair Chase. Winter:16-19.

GRADUATE AND POSTGRADUATE ADVISORS

Dr. Ragan Callaway, Dr. Donald Bedunah

THESIS ADVISOR AND POST-GRADUATE SCHOLAR SPONSOR

Outside advisor/Thesis committee for:

Daphne Fechey-Lippens, PhD, University of Akron
Lidia Badarnah, PhD, Architecture, Delft University of Technology
Ingrid de Pauw, PhD, Design Engineering, Delft University of Technology
Corina Logan, PhD, Biology, The University of British Columbia
Laura Merrick, MA, Industrial Design, Savannah College of Art and Design
Carl Hastrich, MA, Industrial Design, Ontario College of Art and Design
John Reap, PhD, Engineering, Georgia Technology
Derek Esposito, MS, Construction Management, Colorado State University
Elizabeth Powers, MA, Urban Ecological Design, University of Washington
Karen Blackerby, BA, San Diego School of Design

FUNDED NSF GRANTS

Co-PI: 0600243, Biologically Inspired Environmental Benign Design and Manufacturing, Georgia Tech, College of Engineering

SELECT KEYNOTE/MAIN STAGE SPEAKING ENGAGEMENTS (2010-2016)

2016 National Science Foundation, Washington DC
2016 International Biodiversity Congress, Georgetown, Guyana
2015 SXSW Eco, Austin, Texas
2015 Biology is Everywhere, Utrecht University, Netherlands
2015 Case Western Reserve University Innovation Summit, Cleveland, OH
2014 Zero Waste, Vancouver, Canada
2014 Sustainable Brands, San Diego, CA
2014 GLOBE, Vancouver, Canada
2014 The Way to Sustainability, Chico State University, CA
2014 Design Science Symposium, Rhode Island School of Design, Providence, RI
2013 Center for Biofilm Engineering, Montana State University, Bozeman, MT
2013 Autodesk Design Night, San Francisco, CA
2012 Canadian Business for Social Responsibility, Toronto, Canada
2012 Living Future, Portland, OR
2012 Biomimicry Europe Innovation & Finance
2011 Innotown, Aalesund, Norway
2011 GreenBiz Innovation Forum, San Francisco, CA
2011 Bioneers, Marin, CA
2010 Women's World Economic Forum, Deauville, France
2010 Sustainable Design Symposium, Dartmouth College, NH
2010 Penny Stamps Lecture Series, University of Michigan
2010 Pegasus Systems Thinking Conference, Boston, MA
2010 Heritage Council of Ireland, Dublin, Ireland
2010 Design for Life, Omega Institute, Reinbeck, NY
2010 A World without Oil, Toronto, Canada