Summer, 2017 Capstones

ECOSYSTEM THINKING

Anna Moehagan Lawnscapes 2.0: Catalyzing an American Movement in Sustainable Lawn Use

Cyrus Western Declining Mule Deer Populations in Wyoming:

Identifying & Assessing 'Shovel Ready' Solutions

Erica Gardner Pollinator Decline and Global Micronutrient Deficiency

Marguerite Collins Evaluating Program Performance for Natural Resource Management Programs

(New South Wales, Australia): Opportunities for Increased Quantification

Paulette Laurent Mexico's "WindRush" vs. Sustainable Wind Farming:

Harvesting Rights of Indigenous Communities

Meghana Dutta Balancing Bangalore's Population Growth, Water Consumption & Sewage I

Intrusion: Effecting Policy Response via Public Engagement

RENEWABLE CONTEXTS

Ahmad Antar Light at the End of the Tunnel in Lebanon's Electricity Crisis?

A Feasibility Assessment of Rooftop Solar

Jeff Sloan Solving for Zero: Proving the Business Case for Net-Zero Housing in California

Patrick Supple Valuation of Sustainable Buildings and their Components:

Consumer Willingness-to-Pay and its Drivers

Evan Welch Achieving Circular Solar:

How Can Solar Panels Be Prevented From Overflowing Our Landfills?

Wei-Jen Yip Electrifying Scooters!

LATERAL THINKING

Clay Gervais Sustainable Dubai:

Methods for Enhancing Reductions of Carbon Emissions

Emma Cohen Doggy Bag Nation: How America's Love of Takeout is

Gobbling up Resources and Choking the Planet

Bradford Castro Down the Drain: Carbon Offsets Revisited

Barbara Porco Sustainability Accounting Toolkit: Principles of Financial Accounting

Fall, 2017 Capstones

APPLYING LIFE CYCLE ASSESSMENT WITHIN THE CIRCULAR ECONOMY

Manuel Cassas Designing Defense Products for Recovery and Resource Efficiency: Aircraft Carrier Acquisition by the US Navy

Darcy Williams A Wasteful Courtesy? Rethinking The Superior Court of Pennsylvania's "Courtesy Copy" Briefing Requirements Using A Comparative LCA

Yehia Khalil Comparative Environmental and Human Health Evaluations of Thermolysis & Solvolysis Recycling Technologies of Carbon Fiber Reinforced Polymer Waste

Nicole Wilson Improving Development Models In Emerging Textile Markets: Analyzing Key Social & Environmental Performance Indicators of Ethiopia's Cotton Production

MARINE SYSTEMS: STRESSORS & RESILIENCE

Perry Dripps Using the Hudson River to Teach Systems Thinking to K-12 Students

Michelle Gardner The Effect of Increased Atmospheric CO₂ Concentrations on Coccolithophore Abundance and Calcification Rates

LAND USE CHANGE: KEY DRIVERS & RESPONSES

Laura Hanrahan Food System Sustainability: The Role of Production Scale

Fran Blanchard "Paying for Nature" – Possible Transitions to a Self-Funding Model for Private Land Trusts in Massachusetts

Lael Pascual The Pup Poop Problem: Sustainable Solutions to Dog Waste Management

RE-THINKING THE FUTURE OF ENERGY

Yaima Roldan Casillas Changing the Rules of the Game: How Energy Storage Could Change Massachusetts' Electricity Future

Ben Elsener "Flattening the Duck" to Enable a More Efficient, Cleaner Grid: A Smart Home Algorithm Demonstrating Value in Utility Reform

Spring, 2018 Capstones

MARINE SYSTEMS CONSERVATION

C. Leanne Cowley Coastal Adaptation in Massachusetts:

Streamlining Permitting for 'Living Shoreline' Strategies

Donna Hazard Ocean Conservation Support:

Reimagining Corporate Rationale & Practice

Kimberly Malkoski Implementing Marine Protected Areas: An Analysis of Best

Management Practices for Caribbean Island Marine Resources

CREATING EXSITUSUSTAINABLE DEVELOPMENT

Robert Cronkleton The 21st Century Mayflower: Operationalizing Sustainability for

Earth-Mars Supply Chain Missions

William C. Denman Redeveloping Contaminated Properties: Contrasting How

Environmental Cleanup Programs Support Redevelopment

Michael Balluff East Tennessee Aquaculture Feasibility Analysis

Kirk-Patrick Caron Environmental, Social, & Governance Metrics

Impact on Investment Returns

NEXT GENERATION SUSTAINABLE HOUSING

Brennan Molina Low-Income, High Output: To What Extent Does Chapter 40B

Hinder Massachusetts Climate Goals?

Jason Morse Sick Building Syndrome Re-emergence in Massachusetts:

Air-tight Homes, Uninformed Occupants

Priscila Rut RaReducing the Strain on the Buenos Aires Electricity Grid:

Rooftop Solar Potential Assessment & Peak-Shaving Analysis

NEW VANGUARDS IN SUSTAINABILITY EDUCATION

Zara Wasi Islam Improving Health, Safety, & Environmental Compliance Standards

in a Bangladeshi Garment Producing Factory

Jeff Overton Community College Sustainability Curricula:

Design Challenges for an Introductory Course

Carlos Villamil Renewing Undergraduate Industrial Design Curricula:

Introduction to Sustainable Design