

Designing Ecological Landscapes

Lee Borden
Amanda Borden
Jane Mobley

What we'll cover today

- n About the speakers - Lee
- n About permaculture - Amanda
- n About the seminar - Jane

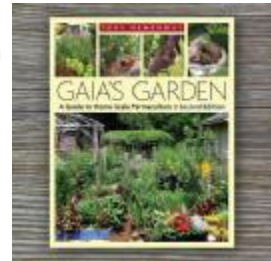
Toby Hemenway

- n First and featured speaker
- n Adjunct professor at Portland State University
- n Scholar-in-Residence at Pacific University
- n He's the real deal on permaculture



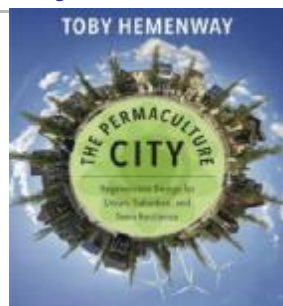
Gaia's Garden

- n Best-selling permaculture book in the world



Permaculture City

- n Most recent book
- n Not particularly relevant to our program
- n But he may bring it up



Jason Powell

- n Anybody not know Jason Powell?
- n Owner, Petals from the Past
- n Will describe plants from Alabama appropriate for Toby Hemenway's vision





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Permaculture Defined

- n Uses a set of principles and practices to design sustainable human settlements
- n A *design approach* based on connecting different disciplines, strategies, and techniques
- n A "linking science"
- n Makes use of landscaping tools that are modeled after nature yet include humans



"Permanent culture" and "permanent agriculture"

- n Term coined by Bill Mollison and David Holmgren
- n Mollison first had idea in 1959
- n With Holmgren, began identifying principles in 1970s
- n They published *Permaculture One* in 1978



Toby Hemenway

- n Degree in biology from Tufts University
- n Worked for years as a researcher in genetics & immunology
- n Grew dissatisfied with direction biotechnology was taking; discovered permaculture



Toby Hemenway

- n *Gaia's Garden: A Guide to Home-Scale Permaculture* (2000, 2009)
- n *The Permaculture City: Regenerative Design for Urban, Suburban, and Town Resilience* (2015)



"Ecological garden"

- n Melds best features of
 - n wildlife gardens
 - n edible landscapes
 - n conventional flower & vegetable gardens
- n Goes beyond simply adding styles
- n Grounded in new concepts of permaculture & ecological design



"Ecological garden"

- n Uses techniques honed by
 - n indigenous people
 - n restoration ecologists
 - n organic farmers
 - n cutting-edge landscape designers
- n Ecological gardens combine
 - n low environmental impact
 - n low maintenance
 - n high yields
 - n elegant aesthetics



Permaculture Principles

- n Core Principles for Ecological Design
- n Principles Based on Attitudes



Core Principles for Ecological Design

- n Observe – thoughtful, patient, during all seasons
- n Connect – create useful relationships and time-saving connections
- n Catch & store energy & materials – every cycle is a fresh opportunity
- n Each element performs multiple functions



Core Principles for Ecological Design

- n Each function is supported by multiple elements
- n Make the least change for the greatest effect
- n Use small-scale, intensive systems
- n Optimize "edge"
- n Collaborate with succession
- n Use biological & renewable resources



Principles Based On Attitudes

- n Turn problems into solutions
- n Get a yield
- n The biggest limitation to abundance is creativity
- n Mistakes are tools for learning



Gaia's Garden

- n Part One
 - n Garden as ecosystem
 - n Make gardens work more like nature
 - n Design process/techniques to create an ecological garden
- n Part Two
 - n Move from theory to practice
 - n All parts of the garden are connected



Gaia's Garden

- n Part Three
 - n Interplanting
 - n Creating polycultures
 - n Design plant communities (guilds)
 - n Multistory food forest (forest garden)
 - n Special challenges in the city



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