

Redefining The Classroom: An Urban Forestry Story

Richard J. Hauer
 Associate Professor of Urban Forestry
 Coordinator, Forestry Discipline
 College of Natural Resources, University of Wisconsin – Stevens Point

17th Annual UWSP Teaching Conference
 Education As Transformation
 Stevens Point, WI January 15, 2013



An Honor and Privilege



The Outcome is Student Success

Redefining the Classroom ... Three Topical Areas

- Model of Redefinition
- Implementation
- Outcomes



An Urban Forest Management Class Story

Redefining Tree Hugging ... So Last Century




Tree Kissing is So Today

An Urban Forestry Redefinition **Model**

- Preparation
- Hope
- Luck

A Function of (Preparation, Hope, & Luck)

My Story of **Preparation**



Past Events Were My Path to the Future

My Story of Hope



- Teaching
- Service
- Scholarship




Pete Sanderson

Things Happen for a Reason

My Story of Luck

Summer Program: Enduring Understandings

Understanding by Design Course Planning Template
Course Title: FOR 333/533 Urban Forestry
Semester: Spring 2012
Professor: Dr. Richard Hauer

Stage 1 – Desired Results

PROFESSIONAL STANDARDS PROGRAM OUTCOMES

- Society of American Foresters
 - Standard Forestry Accreditation
 - Urban Forestry Accreditation

Sometimes in the Right Place at the Right Time

My Story of Luck

UWSP Assessment Subcommittee

Stage 2 – Assessment Evidence

Core Performance Task:
 Task: Develop a usable management plan that a community can incorporate
 Goal: complete this by week 12 for instructor feedback of the draft plan prior to the final plan and to use client identified goals and objectives
 Problem: Work through in a timely manner to acquire appropriate feedback
 Obstacles: Brevity, completeness, data analysis, unknowns

Relationship to Enduring Understandings: All enduring understandings will be critical for successful development of a management plan as a capstone experience in the class

Other Assessment Evidence:

- Lab reports, tree valuation analysis, tree risk assessment analysis, benefit/cost analysis, tree inventory and analysis, written reports, exams.

Volunteer Hours Always Pay Back

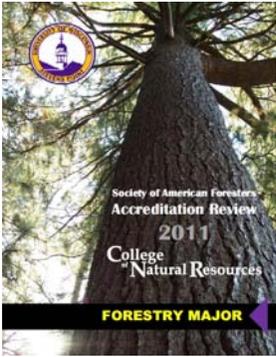
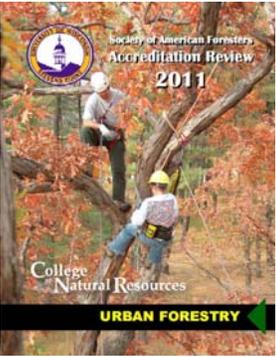
My Story of Luck

Current Role as Forestry Discipline Coordinator



Sometimes in the Right Place at the Right Time

Society of American Foresters Accreditation

Paul Harvey Page One

An Enduring Implementation of Understanding

- Started with Writing Learning Outcomes
- Grew with Enduring Understandings
- Applied with Capstone Experience



Gave a Chance to Evaluate, Evolve, Evaluate ...

Capstone Experience in Urban Forestry

- Pilot Test Spring 2012
- DNR Partner
- Lessons Learned
 - Good
 - Bad
 - Ugly

DNR/UWSP/Comm. Inv./Mgt. Plan Collaboration
Spring 2012

The proposed effort is to allow for upper class UWSP students as part of their Urban Forestry class to perform an inventory and management plan in nearby smaller communities that may not normally perform these activities on their own. This effort will

2012-2022
Irons Urban Forestry Management Plan

Started with a Conversation ... Like to Do This

Capstone Experience in Urban Forestry

- Great
- Good
- Okay

Community of Kosholt
Urban Forestry Management Plan

City of Pittsville, Wisconsin
Urban Forest Management Plan

Village of Plainfield, WI
Urban Forestry Management Plan

Projects Ideally Make us Look Good

Assessment by External Parties

UWSP Forestry 333 Small Community Inventory & Planning Presentations
May 7, 2012

Listed below are several questions Don Kinsinger asked the representatives from the City of Pittsville and Villages of Irons and Kosholt after the student presentations were completed.

Small Community Urban Forestry Planning Completed by Forestry 333 Class, Spring 2012, Taught by: Dr. Rich Hauer

Below is a quick synopsis or points of concern regarding each groups plan, at the end of the document are overall points I feel need to be emphasized to make a more succinct and usable plan for the communities as well as specifying expectations to be met by all Forestry 333 Lab groups for future projects such as this. I feel this project was a great benefit to the students, each community and myself as the DNR UF Coordinator. I have listed the name of the community and the first name listed on each groups plan to differentiate specific plus comments.

Very Thankful to People and Their Time

Other Examples of Capstone Experiences

Emerald Ash Borer PLANning Simulator (EAB-PLANSSM) Version Beta

EAB-PLANSSM was developed to assist decision makers with managing ash trees in urban & community forests challenged by emerald ash borer (EAB). You enter data that reflects urban tree management costs, tree structure, and goals. This program projects annual tree growth and mortality. Then management costs and tree values are calculated for each management scenario (control or do nothing, preemptively remove, preemptively remove and replace, and treat). Separate analyses for trees remaining and those lost naturally and from EAB are calculated. Charts and graphs show results in an easy-to-read format. This program is best viewed in Excel 2007 or higher.

To start, proceed to **Step 1** and enter data (see worksheet tabs at the bottom of screen).

To view output, proceed to **Step 2** and **Step 3**.

View terminology comments at select cells and see the **Appendix** for more information.

Annual projections over a 20-year simulation timeframe are presented in the worksheet tabs to the right of the Appendix tab. See the following reference for more information: VanNatta, A.R., R.H.Hauer, and N.M. Schuetzpeit: 2012, Economic Analysis of Emerald Ash Borer (Coleoptera: Buprestidae) Management Options. Journal of Economic Entomology 105(1):196-206

The research supporting EAB-PLANSSM was made possible through funding by the University of Wisconsin - Stevens Point, USDA McIntire-Stevens, TREEFund, and the Wisconsin Arborist Association. The Simulator is the collective work of Dr. Richard Hauer and Andrew VanNatta. Please send any comments pertaining to this program to Rich Hauer at rhaue@uwsp.edu or 715-346-3642.

Copyright ©2012 by Richard Hauer and Andrew VanNatta. All rights are reserved for components within this program (EAB-PLANSSM). This program may be used freely for educational and non-commercial purposes. The end-user accepts all responsibility for the use of this program with ash tree management. Released January 16, 2012.

Undergraduate Research

Other Examples of Capstone Experiences

Management Alternatives	Retained Tree Analysis		Lost Tree Analysis		Benefit/Cost
	Mean Net Value	Relative Ratio	Mean Net Value	Relative Ratio	
Control	\$395,337	1.00	\$61,411	1.00	0.76
Treatment	\$749,793	1.90	\$26,297	0.24	0.64
Preemptive Removal	\$123,502	0.31	\$64,717	0.95	0.33
Remove & Replace	\$202,431	0.51	\$79,467	0.77	0.28
No EAB	\$813,048	2.05	\$20,589	0.28	1.48

\$10/in

Management Alternatives	Retained Tree Analysis		Lost Tree Analysis		Benefit/Cost
	Mean Net Value	Relative Ratio	Mean Net Value	Relative Ratio	
Control	\$395,337	1.00	\$61,411	1.00	0.76
Treatment	\$779,108	1.95	\$26,822	0.24	0.67
Preemptive Removal	\$123,502	0.31	\$64,717	0.95	0.33
Remove & Replace	\$202,431	0.51	\$79,467	0.77	0.28
No EAB	\$813,048	2.05	\$20,589	0.28	1.48

\$3.75/in

Management Alternatives	Retained Tree Analysis		Lost Tree Analysis		Benefit/Cost
	Mean Net Value	Relative Ratio	Mean Net Value	Relative Ratio	
Control	\$395,337	1.00	\$61,411	1.00	0.76
Treatment	\$779,979	1.97	\$25,554	0.24	0.28
Preemptive Removal	\$123,502	0.31	\$64,717	0.95	0.33
Remove & Replace	\$202,431	0.51	\$79,467	0.77	0.28
No EAB	\$813,048	2.05	\$20,589	0.28	1.48

\$0.75/in

Undergraduate Research

Every Student Will Find Opportunities

Real-world experience outside the classroom, whether locally, regionally, nationally, or globally. When combined with a broad education in the arts, humanities and the social and natural sciences, our graduates will be well equipped-as skilled employees, thoughtful citizens, and bold leaders-to serve their communities in meeting the key challenges of the twenty-first century.

A Partnership for Thriving Communities

Vibrant Healthy Prosperous Sustainable

Strategic Plan

Just in Case You Need a Reminder

Society of American Foresters Accreditation



December 19, 2012

CONGRATULATIONS!

Paul Harvey, Associate Dean for Academic Affairs
College of Natural Resources
State of Wisconsin-Dane County
608 University Avenue
Madison, WI 53706

Dear Dr. Harvey:

The Society of American Foresters (SAF) congratulates the University of Wisconsin-Dane County's (UW-Dane) School of Forestry and Forest Resources (SFFR) for its successful accreditation by the Society of American Foresters (SAF) in December 2012. The SFFR is the first program in the United States to be accredited by the SAF.

The SAF Commission on Accreditation (COA) is pleased to announce the accreditation of the SFFR. The COA's report of findings and recommendations is available on the SAF website at www.saf.org.

The SAF Commission on Accreditation acknowledges the SFFR's commitment to excellence in education, research, and service. The SFFR's accreditation is a testament to the quality of its programs and the dedication of its faculty and staff.

The SFFR's accreditation is a significant achievement. It is a testament to the quality of its programs and the dedication of its faculty and staff. The SFFR's accreditation is a significant achievement. It is a testament to the quality of its programs and the dedication of its faculty and staff.

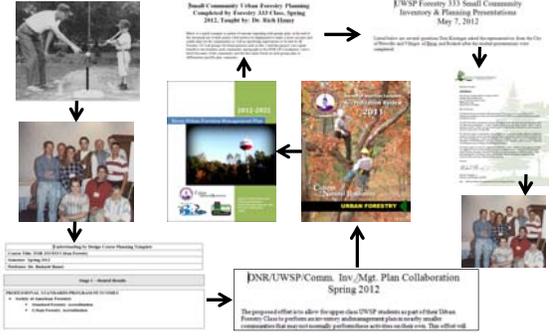
Sincerely,
Michael T. Stange, Jr.
Executive Director and CEO

SAF Commission on Accreditation Forestry Programs and Action

Paul Harvey, The Rest of the Story

- Ten Year Accreditation
- First Dual Accredited Program By SAF
- Yea!!

Redefining The Classroom Summary Points



Health Community's Urban Forestry Planning
Completed by Forestry 333 Class, Spring 2012. Taught by Dr. Mark Hauer

UWSP Forestry 333 Small Community Inventory & Planning Presentations
May 7, 2012

DNR/UWSP-Comm. Inv./Mgt. Plan Collaboration
Spring 2012

The proposed effort is to allow five upper class UWSP students to act as part of the Urban Forestry Class to perform an on-site assessment and management plan to create a single document that will not only be a resource for the city but also will be a model for other cities.

Thanks for Staying Vertical