



College
of Natural Resources
University of Wisconsin-Stevens Point

Annual Report-July 2011



Cover: Lake Joanis - photo courtesy of Schmeckle Reserve

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CNR Annual Report 2011

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The CNR West Lobby Mural in the making. Pictured are the artist, UWSP student Jennifer Lila, mural project donators Kim and Robert Spoerl, and Dean Christine Thomas

MISSION

The College of Natural Resources provides education, research and outreach in integrated natural resources management and environmental education, and in paper science and engineering. The College of Natural Resources:

1. Provides undergraduate and graduate instruction that combines theoretical concepts with practical experience, such as laboratory and field oriented courses, summer camp, internships and special projects.
2. Promotes scholarly activities that enhance the creation or application of knowledge or contributes to the resolution of environmental and natural resource management issues, especially through student research.
3. Shares faculty and student expertise with citizens, communities, agencies and industries through outreach, scholarship, and consulting.



Daniel O. Trainer Natural Resources Building

PHILOSOPHY STATEMENT

The College of Natural Resources embraces the philosophy of integrated natural resource management. All students in the College, regardless of major, need to understand and appreciate relations between natural resources and human needs. They need to understand the scientific method and its application to environmental problem solving. Critical thinking and problem solving strategies based on integrated resource management and education will be promoted through the College's teaching, scholarship, and outreach activities.

The College is composed of faculty, staff, and students, each with their own expertise, strengths, attitudes, and values. This diversity contributes to the education offered by the College because of our integrated philosophy. Responsibilities and appointments vary among College faculty and staff. Most have teaching appointments, some have extension appointments, while others serve mainly in research or administrative capacities. Faculty and administrators will capitalize on the strengths and diversity of College personnel to promote integrated resource management through teaching, scholarship, and outreach.

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(for the fiscal year beginning July 1, 2010 and ending June 30, 2011)

Ongoing Academic Initiatives & Noteworthy Accomplishments

Graduation

286 undergraduates in the CNR received bachelor degrees in FY 2011 (Aug. '10, Dec. '10 May '11) including numbers in the following majors:

- **Forestry** - 76
- **Soil & Waste Resources** - 25
- **Fisheries and Water Resources** - 46
- **Wildlife Ecology** - 85
- **Paper Science and Engineering** - 6
- **Human Dimensions of Natural Resource Management** - 85

37 Graduate students in the CNR received master's degrees in FY 2011.

Job Placement

75% (206) of 2010 CNR graduates found employment in their field of study or elected to pursue further schooling; 13% found employment outside of their field of study.

67% of 2010 CNR graduates who reported employment are working in Wisconsin; the remainder found jobs in 23 other states throughout the country.

100% placement for 2010 Paper Science and Engineering (PS&E) graduates, continuing a record since 1973. PS&E starting annual salaries averaged \$62,000 to \$68,000, matching the national average of \$65,000 for chemical engineers.

Student Internships

CNR placed 298 students in paid intern positions with 105 state, federal, municipal, and private agencies, with an annual payroll of \$790,000 (includes 29 UWSP-contracted student employees who earned \$142,000).



Summer Field Experience

211 natural resource majors were enrolled in the 2011 summer field experience program at Treehaven. 40 students attended a third session of the summer field experience program which was added utilizing facilities at the Central Wisconsin Environmental Station and on campus. 42 natural resource majors completed the 2010 European Environmental Studies Seminar Program (41 students enrolled in 2011). 15 students completed NRES 385 (CWES) in summer 2010 (15 students enrolled in 2011), an alternative to the Treehaven summer field experience.

New Courses

Introduction to Energy Policy (NRES 405) will be offered in fall of 2011. This three credit course is being taught by **Michael Reisner**, a new Assistant Professor of Human Dimensions of Natural Resources Management.

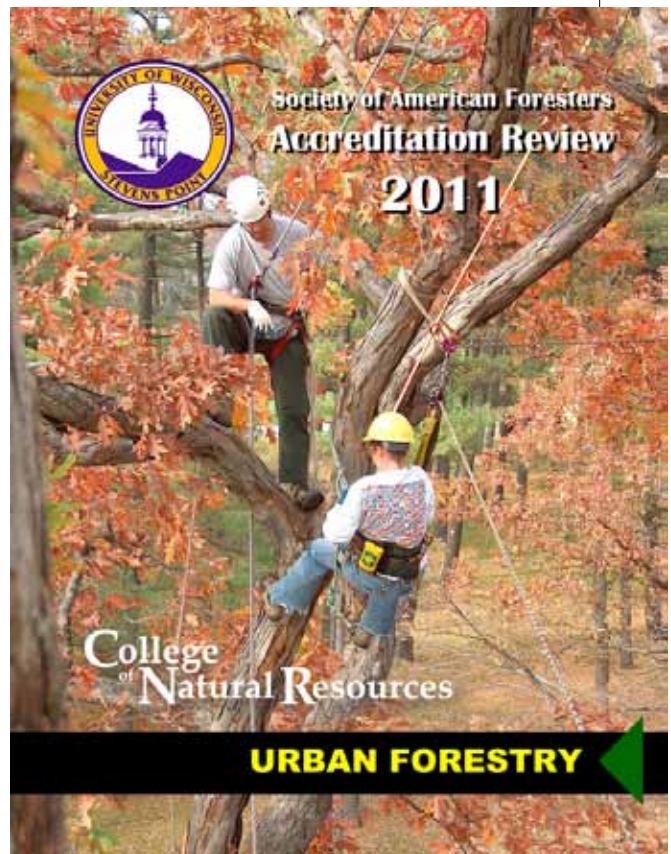
Sustainable Natural Resources and Community Development: Nyumbani Village, Kenya (INTL 391), a new international course, was developed by **Holly Petrillo**, Assistant Professor of Forestry.

Paper Science & Engineering Accreditation

The Paper Science & Engineering program is ABET Engineering Accredited until 2014-2015. ABET, Inc., is the recognized accreditor for college and university programs in applied science, computing, engineering, and technology.

Society of American Foresters (SAF) Accreditation

The Forestry Discipline completed a 10-year review of its curriculum for reaccreditation by the SAF. As a part of the process, the discipline prepared a comprehensive "Self Study Document" and the College hosted a visiting accreditation review team in April. For the first time in CNR history the College is seeking accreditation for its Urban Forestry program as well.



Grant Partnerships

CNR faculty, staff, and students earned 23 intramural grants in FY '11, totaling \$16,867.

CNR faculty and staff earned 95 extramural grants totaling \$4,297,234 (includes \$156,354 in WIST awarded grants shared with the College of Letters & Science) in FY '11 (excludes pending grants).

Partners include 44 different agencies:

- Bonestroo, Inc.
- C5-6 Technologies
- City of Marshfield
- City of Waupaca
- City of Wausau-Wausau Water Works
- Clintonville Wastewater Treatment Facility
- Conserve School
- County of Dane
- Fond du Lac County
- Fort Atkinson Wastewater Utility
- Great Lakes Fishery Commission
- Langlade County
- Marathon County
- Marathon County Solid Waste Department
- McIntire Stennis
- Midwest Regional Collabor. for Sustain. Educ.
- Minnesota Department of Agriculture
- Montana Fish, Wildlife & Parks
- National Council for Air & Stream Improvement
- Portage County
- Rocky Mountain Elk Foundation
- Stantec
- Stevens Point Water & Sewage Treatment Depts.
- Town of Blackwell
- Tree Fund
- U.S. Army Research Office/Dept. of Defense
- U.S. Dept. of Education - FIPSE
- University of Minnesota
- USDA Forest Service
- USDA NRCS-NSSC
- Waupaca County Solid Waste and Recycling
- Waushara County
- Whiting Utilities
- WI Association for Environmental Education
- WI Department of Transportation
- WI Dept. of Natural Resources
- WI Div. of Public Health/Dept. of Health Serv.
- WI Environmental Education Board
- WI Environmental Education Foundation
- WI Office of Energy Independence
- Wisconsin Climate Change Action Initiative
- Wisconsin Energy Conservation Corporation
- WiSys Technology Foundation, Inc.
- Wood County

Development Success

Total Gifts

The CNR received 770 gifts from 662 donors.

Total Gifts of Cash or Stock in FY 2011 (7/1/10 to 6/30/11)\$321,889

Increased CNR endowment principle by \$62,665 in FY 2011
(2010 = \$4,499,814 vs. 2011 = \$4,562,479 as of May 31, 2011; does not include market adjustment)

New Scholarships

New donors supporting CNR scholarships:

- James & Joan Bernd Family (5)
- C&R Musky Club
- Robert P. Javurek Memorial
- Robert Korth - Blending the Arts & Sciences
- Poskin Lake Sportsman Club (2)
- Jay R. Warner

Highlights of New Support

- **Robert & Kim Spoerl** (Waupaca, WI) \$10,000 to sponsor the design and construction of the new landmark 20 ft. by 5 ft. mosaic mural in the West Lobby of the Trainer Natural Resources Building.
- **Veolia Environmental Services** (Wisconsin Rapids, WI) \$5,000 to provide Veolia Environmental Services Scholarships for five CNR students in 2011



*Vallier Treehaven Resident
Ecologist Kevin Burns*

- **Dorothy Kopmeier Vallier** Foundation (Milwaukee, WI) \$100,471 to provide support for the sixth consecutive year for the Vallier Treehaven Resident Ecologist position at Treehaven, currently held by Kevin Burns (BS-Forestry Administration, '91; MS-Natural Resources, '94)
- **The Johnson Foundation, Inc.** (Racine, WI) \$6,000 to support the work of Michael Dombeck, UW System Fellow for Global Conservation
- **Kopmeier Family Fund/Greater Milwaukee Foundation** (Milwaukee, WI) \$19,000 to support the Treehaven Inner City Environmental Program which provides outdoor experiences at Treehaven for Milwaukee's inner city youth.

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Highlights of new support (continued)

- **Friends of Herb Behnke** (various locations) \$11,775 to initiate the Herb & Lenore Behnke Scholarship Endowment for natural resources students studying law enforcement (endowment goal: \$25,000)
- **James & Joanne Bernd** (Waupaca, WI) \$5,000 for the 2011 James and Joanne Bernd Family Scholarships for students attending the College's signature 6-week "Summer Camp" field training course at Treehaven
- **Gutgsell Family Foundation** (River Forest, IL) \$8,000 to initiate the Gutgsell Environmental Research Fund to support student research experiences under the direction of Dr. Kyle Herman, Assistant Professor of Water Resources
- **The Wilderness Society** (Washington, DC) \$4,300 to support Gaylord Nelson Earth Day Fellowships for three CNR graduate students who have made significant contributions toward promoting conservation ethics and environmental education
- **Alice Agnew** (Tomahawk, WI) \$4,000 to the Agnew Leadership Endowment to support education programs at Treehaven
- **Marvin & Sandra Kramer** (Waupaca, WI) \$5,000 for 2011 Marvin and Sandra Kramer Summer Academic Scholarships for students attending the College's signature 6-week "Summer Camp" field training experience at Treehaven
- **Rocky Mountain Elk Foundation** (Missoula, MT) \$7,000 to support the CNR's Becoming an Outdoors-Woman Program
- **Safari Club International – Wisconsin Chapter** (Waukesha, WI) \$4,000 to support the CNR's Becoming an Outdoors-Woman Program and the 2011 Safari Club International – Wisconsin Chapter Scholarships



Alice Agnew

International Programs & Initiatives

Study Abroad Programs

93 students participated in study abroad programs during the 2010 fiscal year.

Kevin Russell and **Jess Sherman** led the 2010 European Summer Seminar program with 42 CNR students.

Holly Petrillo and John Sheffy led the inaugural summer 2011 trip to Kenya, entitled Kenyan Community Development, with 20 students (19 undergraduates and 1 graduate student).

Dennis Yockers and **Ginny Carlton** led the Costa Rica Winterim trip with 16 students.

Paul Doruska led the Belize and Guatemala Winterim trip with 15 students.

Trans-Atlantic Paper Science and Engineering Dual Degree (TAPS)

The Trans-Atlantic Paper Science Undergraduate Dual Degree (TAPS) Program completed its second year of student exchanges.

Paper Science and Engineering Associate Professor **Don Guay** visited TAPS partner schools in Germany and Finland and taught a Chemical Engineering course while in Munich, Germany.

International Students

There were 22 international students with CNR majors including 14 students from China, 3 from South Korea, 2 from Germany and one student from each of the following countries:

India, Ukraine, and Guyana enrolled during the 2010-11 academic year.



CNR students study the mangrove forest in the Santa Rosa National Park, Costa Rica

Wisconsin Institute for Sustainable Technology (WIST) Isoprene Research

Several business journals (including the European Rubber Journal) published short pieces about WIST's isoprene research which caused a European chemical company to contact **Eric Singaas**, WIST's Director of Research, about the project.

Peace Corp Masters International Program (MIP)

Current MIP student, **Daphne Mayes** (Advisor: **Holly Petrillo**), was stationed in Zambia as a LIFE (Linking Income, Food, and the Environment through forestry and agriculture) volunteer. Mayes maintained a blog chronicling her experience at: www.uwsp.edu/cnr/international/students.aspx

Current MIP student, **Heidi Hull** (Advisor: **Aga Razvi**), was stationed in Uganda as a Sanitation and Water Extension volunteer. Heidi maintains a blog chronicling her experience at: travelinheidi-yugandanexperience.blogspot.com/



*MIP student Daphne Mayes (second from left)
with students in Zambia*

Current MIP student, **Scott Benton**, (Advisor: **Ron Crunkilton**), was assigned to Cape Verde, Africa. Scott maintains a blog chronicling his experience at: www.onabluerocan.blogspot.com.

Selected Notable Activities & Accomplishments

Faculty and Staff Achievements – a few examples of success

Richard Hauer, Professor of Forestry, was recently elected to two positions: President of the Arboricultural Research and Education Academy (a professional affiliation of the International Society of Arboriculture), and Vice-President of the Wisconsin Arborist Association.



Professor Michael Hansen

Michael Hansen, Professor of Water Resources and Fisheries, was appointed by President Obama as a Commissioner of the United States Section of the Great Lakes Fishery Commission for a term ending April 21, 2016.

John Houghton, Associate Dean of Academic Affairs, won the 2010 John W. Macon Award, given by the Wisconsin Society of American Foresters in recognition of his career achievements for “outstanding contributions to forestry in Wisconsin.”

Gerry Ring, Professor and Chair of the Paper Science and Engineering Department, presented his paper “Hyperbolic Theory of Light Scattering, Density and Tensile Strength,” at the Forest Products Laboratory’s Paper Physics in Madison, WI, during June.

Neil Payne, Professor Emeritus of Wildlife, recently published his 5th book, Wildlife Delights and Dilemmas, by DRC Publishing of Canada.

Amit Arora, Assistant Professor of Paper Science & Engineering, has become a WIST Scholar and will be working on biofuels research.

Paul Fowler, Executive Director of WIST, was elected to the board of directors of the Central Wisconsin economic development group Centergy.



Executive Director of WIST Paul Fowler

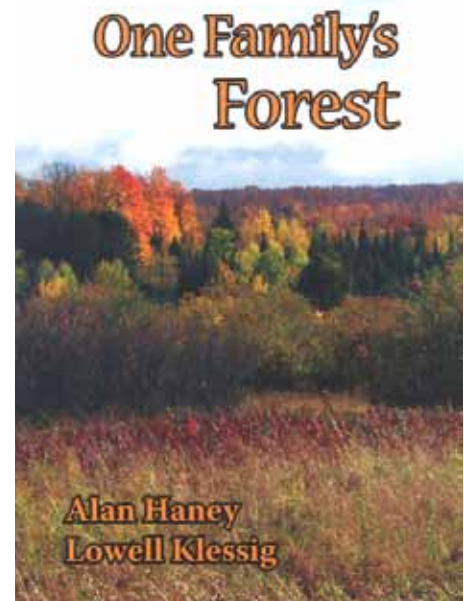
CNR Emeritus Dean and Forestry Professor **Alan Haney** and Emeritus Professor of Natural Resources **Lowell Klessig** collaborated on the book, One Family's Forest.

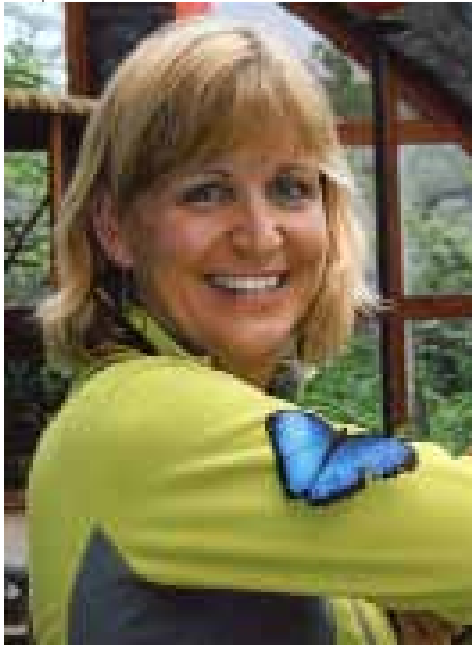
Melissa Baker, Assistant Professor of Forestry, along with CNR Forest Recreation students, created site plans for Bradley Park in the City of Tomahawk. The project provided students with real world experience.

Karyn Biasca, Professor of Paper Science & Engineering, received a UW System Growth Agenda grant for \$63,816 to work with four departments on incorporating ePortfolio into the assessment of student learning.

Rick Wilke, Professor Emeritus of Environmental Education and former University of Wisconsin System Distinguished Professor of Environmental Education received the President's Award from the North American Association for Environmental Education for his contributions to improving Environmental Education at a national level.

Christine Thomas, Dean, was elected Secretary of the seven-member Wisconsin Natural Resources Board at its January meeting in Madison. Dean Thomas was also appointed by U.S. Secretary of the Interior Ken Salazar and Secretary of Agriculture Tom Vilsack to a two-year seat on the Wildlife and Hunting Heritage Conservation Council in July 2010. The new federal advisory council advises the two federal departments on recreational hunting and shooting sports activities and associated wildlife and habitat conservation.





Sue Kissinger

Don Guay, Associate Professor of Paper Science and Engineering, received a grant to explore the production of isoprene from paper mill sludge and is also researching the biological production of isoprene with the US Department of Defense.

Sue Kissinger, Coordinator of Advising and Recruitment, received the 2010 Advising Excellence Award from the Wisconsin Academic Advising Association, in recognition of her professional accomplishments and outstanding devotion to the quality of education and services to students.

Jim Carr, Adjunct Instructor and Interim Lab Manager of Paper Science and Engineering Department, has taken the lead on managing the Pulp Pre-Processor Wisconsin Community Action Program Association (WISCAP) grant totaling \$90,000.

New Faculty and Staff

- **Samantha Giraud**, Associate Outreach Specialist, LEAF
- **Tom Hansen**, Adjunct Senior Lecturer, Wildlife
- **Angela Hauer**, Program Associate, Wisconsin Institute for Sustainable Technology
- **Jodi Hermsen**, University Department Associate, Paper Science & Engineering
- **Jeff Keuntjes**, Budget/Finance Specialist
- **Ken Kulhanek**, Food Service Manager, Treehaven
- **Rebecca Martin**, Financial Specialist, WI Center for Environmental Education
- **Michael Reisner**, Asst. Professor, Human Dimensions of Natural Resources Mgt.
- **Cathy Scheder**, Adjunct Lecturer, Human Dimensions of Natural Resources Mgt.
- **Johanna Sloss**, Research Specialist, Fisheries Analysis Center
- **Aaron Thompson**, Assistant Professor, CLUE/HDNRM
- **Cheryl Trzebiatowski**, University Services Associate, CWES

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Facility Updates and Renovations

- Finished remodeling of the West Lobby of the Trainer Natural Resources Building (TNR)
- Completed equipment modernization stage for Soils/Forestry Teaching Laboratory, TNR Room 260



Urban Forestry Research Lab

- Finished cabinetry, work surface, and electrical updates to Soils Preparatory Lab, TNR Room 280
- Finished remodeling of Urban Forestry Research Lab, TNR Room 320B
- Completed the Moses Creek Restoration Project in Schmeckle Reserve
- Initiated design and construction of new 20' x 5' TNR West Lobby Wall Mural, led by student design contest winner, Jennifer Lila
- Nearly completed construction of the new Waste Education Center building on the north end of campus
- Finished renovation projects in Treehaven's Sylvester Auditorium and Aspen View meeting rooms
- Installed new roofs on the dormitory buildings at Treehaven
- Completed repairs to building foundation at Treehaven
- Initiated assessment of potential water system upgrade at Treehaven
- Converted retaining wall complex at the Central Wisconsin Environmental Station (CWES) to a native plant garden and installed new campfire pit through an Eagle Scout Project



Newly Remodeled Sylvester Auditorium

Discipline, Unit and Program Accomplishments - a few examples of success

2010 National Family Forests Education Award Winner

The Wisconsin Woodland Leadership Institute, developed by UW Cooperative Extension in partnership with the Wisconsin Woodland Owners Association and coordinated by **John DuPlissis**, won the Family Forests Education Award by the National Association of University Forest Resources Programs. The Institute was cited for its innovation, degree of faculty involvement on campus and in the woods, training materials, and documented results.

Official Launch of WIST

Chancellor Bernie Patterson and the UWSP community hosted an official launch of WIST on September 8, 2010, in the Dreyfus University Center. The event featured remarks by Congressman Dave Obey, whose support was critical to securing early funding to create the institute. Dean Christine Thomas and Chris Cirno, Dean of the College of Letters and Science, also spoke at the event.



WIST launch with UWSP Chancellor Bernie Patterson, former US Rep. David Obey, Dean Christine Thomas, Dean Chris Cirno, & WIST Executive Director Paul Fowler

A Great Place to Work

In May of 2011, Schmeckle Reserve was voted as one of the best places to work on campus by student employees for the fourth year in a row. Student employees operate the visitor center, maintain and construct trails, manage exotic species, patrol trails, sell items in the Browse Shop, and construct cedar signs.

EETAP Receives President's Award

The Environmental Education and Training Project (EETAP), received the President's Award from the North American Association for Environmental Education (NAAEE). The award is given each year at the NAAEE annual conference.

College-Wide Initiatives

Retirement and Awards Recognition Dinner

This 6th annual event held May 2, 2011 at Sentry World High Court was attended by 77 people including faculty, staff, retirees, and friends. In addition, the College presented 15 (6 retirees and 9 service awards) service and achievement awards and acknowledged CNR faculty and staff members who were UWSP award recipients.

Student Recruitment, Diversity Initiatives, and Related Achievements

- Fall 2010 recruitment success: 277 new freshman; 198 new transfer students
- Student recruitment for Paper Science & Engineering includes 19 freshmen and 25 sophomores joining the program as of June 2011
- The first cohort of Graduate Fellows in Residential EE, advised by **Randy Champeau, Corky McReynolds, and Brenda Lackey**, graduated in May
- The Trans-Atlantic Paper Science Undergraduate Dual Degree (TAPS) Program completed its second year of student exchanges



Graduate Fellows planting potatoes in the Treehaven garden

- Treehaven hosted the 14th Treehaven Inner City Environmental Program for a Milwaukee inner-city middle and high school, made possible by a grant from the Kopmeier Family Fund of Milwaukee and longtime Treehaven benefactor, Dorothy K. Vallier and her son, William Kummer

Activities & Accomplishments in Student-Centered Excellence

Student Research Symposium

This year's Symposium featured 67 student presenters participating in 18 oral presentations and 34 poster presentations. The 2011 event was made possible through support from the John and Anne Meyer Fund for the CNR.



CNR Research Symposium 2011

Rendezvous Awards Program

This annual spring event was held on April 8, 2011 at Sentry Theater in Stevens Point and was attended by over 300 people. Distributed at the event were 267 student scholarships totaling \$226,790 contributed by about 85 sponsors (excluding paper science donors). Scholarship sponsors included individual donors, conservation clubs, businesses, and conservation organizations. Twelve outstanding student awards were presented and **Jason Riddle** was selected by students for the CNR Outstanding Teaching Award.

- Paper Science Scholarships – 85 scholarships totaling \$66,590
- Trans-Atlantic Paper Science Undergraduate Dual Degree (TAPS) Scholarship, \$12,000
- CNR Scholarships - 181 totaling \$148,200

Annual Career Fair

The 14th Annual Career Fair was held in February of 2011 attracting over 300 students and 45 employers with booths that provided information on summer jobs, internships, and permanent positions.

Student-Based Honors & Activities

Timbersports Champions:

The UWSP Timbersports Team won its first-ever championship trophy at the STIHL Collegiate Midwest Challenge at the annual Midwestern Foresters' Conclave. Forestry major **Andrew Gollnick** won the individual challenge as well as the one-person buck contest. Other individual champions include **Ben Hansen**, freshman wildlife ecology major, with first place in men's speed chop; **Sarah Holter**, senior forest management major, first place in 2 women's speed chop; **Anthony Lopez**, junior forestry management major, first place in the men's bolt toss. Faculty advisor for SAF and Timbersports is **Paul Doruska**.



UWSP Timbersports Champions

UWSP Fire Crew: The UWSP Fire Crew received the President's Volunteer Service Award from the Student Involvement and Employment Office (SIEO) for exemplary citizenship through volunteering. Faculty advisor for the Fire Crew is **James Cook**.



UWSP Fire Crewmember Sarah Johnson

Earth Day Fellowships: Three CNR graduate students – **Elise Kahl** of Perrysburg, Ohio, **Meagan Leatherbury** of Avondale Estates, Georgia, and **Melissa Rickert** of Rhinelander, Wisconsin – were awarded national Gaylord Nelson Earth Day Fellowships by The Wilderness Society.



Earth Day Fellowship Recipients (from left) Elise Kahl, Melissa Rickert and Meagan Leatherbury

Golden Key Graduate Scholar Award Winner: **Elise Kahl** a CNR graduate student, received the 2010 Golden Key Graduate Scholar Award. She was awarded the \$10,000 premier scholarship of the Golden Key International Honor Society.

Aldo Leopold Shack Volunteers: Six urban forestry students volunteered their time on weekends to clear trees that threatened the integrity of the Aldo Leopold Shack, near Baraboo, WI. The student group, supervised by Forestry Professor **Les Werner**, volunteered their time on behalf of the Aldo Leopold Foundation. Seniors **Mark Ryskiewicz** of Mosinee and **Jacob Wildeck** of Wausau coordinated the tree removal. The “Shack” is a former chicken coop that was renovated to serve as a weekend retreat for the Leopold family. It is located along the Wisconsin River.



Urban Forestry Student Volunteers at the Leopold Shack

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Field Station Updates

Central Wisconsin Environmental Station – Director: Scott Johnson



Lead the Pack Participants

A new program called Lead the Pack for incoming freshman was offered. The program is designed to help increase student retention at UWSP. 25 students took part in August 2010.

A retaining wall complex was converted into a native plant garden. Volunteers, CWES staff members, and the local chapter of The Wild Ones, reclaimed native plants from the Marathon County landfill to use in the new garden.

\$6,100 in funding was received from the UWSP Student Government Association Sustainability Reserve Fund to install a garden, pictured below.



CWES fruit and vegetable garden

Schmeckle Reserve – Director: **Ron Zimmerman**,
Asst. Director: **Jim Buchholz**

A major stream and wetland restoration project was completed along a mile stretch of Moses Creek in Schmeckle Reserve. The \$1.3 million mitigation project was funded by the Wisconsin Department of Transportation.

Installation of an environmental monitoring station was completed. The station collects real-time environmental data for use in classes and research.

In May of 2011, Schmeckle staff designed and constructed the first trail kiosk along the Green Circle Trail, just north of Schmeckle Reserve.

The Reserve again held annual public Candlelight Hike Festivals in November of 2010 and April of 2011.



Moses Creek restoration project

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Treehaven – Director: Corky McReynolds

Asst. Director: John Heusinkveld

Over the course of the year 7,000 user days of service were available to the public through its programs and facilities.

125 professionals from the Association of Nature Center Administrators Annual Summit (ANCA) were hosted at the facility.

A \$7554 WIST grant was awarded in collaboration with John Leschke, Assistant Professor of Business and Economics, to develop a nature-based business model.

The first group of Graduate Fellows in Residential Environmental Education graduated from the Conserve School/Treehaven/CNR partnership. Fellows resided at the Conserve School in northern Wisconsin while completing UWSP distance learning and face-to-face courses.

Forest Ecologist **Kevin Burns** and CNR students developed a forest management plan for the Lincoln Hills School Juvenile Correction Facility grounds.



Outreach and Extension Highlights

UW-Extension Lakes Program – Director: Eric Olson

New director, **Eric Olson** has worked closely with “Lake Tides” readers through watershed planning projects in Douglas and Washburn Counties.

The Citizen Lake Monitoring Network has 925 volunteers who monitor water quality at over 814 monitoring stations.

UW-Extension Lakes Director **Robert Korth** retired after more than 20 years of service. A scholarship fund has been established in his name.

20 new Lake Leaders graduated from the award-winning Lake leaders Institute. The Institute has produced more than 200 graduates from around the state since its start in 1998.



Eric Olson

Becoming an Outdoors Woman – Director: Peggy Farrell



Tree climbing class at a recent BOW workshop

More than \$70,000 in grants and sponsorships were received in 2011.

14 outdoor skills workshops for more than 250 participants were conducted, with activities ranging from dog sledding to sea kayaking and pheasant hunting to fly fishing.

A special, one-day shooting clinic for 10 women with disabilities was held at the Columbus Sportsmen’s Association near Madison.

Peggy Farrell oversaw the reservation and guiding process for the annual public program for viewing prairie chickens on their booming grounds. 298

viewers reserved blind space for this spring’s season.

The 2011 hunter education class offered by BOW certified 16 students and trained 10 new Wisconsin hunter education instructors.

Environmental Education & Training Partnership – Director: Rick Wilke

Direct or indirect training was provided for over 200,000 educators nationwide last year.

The partnership was involved in the development of a new Online Master’s degree in Environmental Education.

Assistance was given to educators at over 40 nature centers, zoos, museums, national wildlife refuges and other facilities, serving more than 900,000 people per year to evaluate and improve their environmental education programs.

Forestry Outreach – Forestry Outreach Specialist: John Duplissis

The Woodland Leadership Institute was presented with the 2010 National Family Forests Education Award. The National Association of University Forest Resources Programs, representing Forestry School Deans, and the National Woodland Owners Association selects one educational institution each year based on which has delivered the most effective education programs that benefit family forest landowners.

Two Pesticide Applicator Certification Training workshops were offered that prepared approximately 80 Timber Professionals to take and pass the Wisconsin Pesticide Applicator Certification Exam. These workshops were a partnership with the Great Lakes Timber Professionals Association and the Forest Industry Safety Training Alliance.

17 woodland owners participated in a four-day Master Woodland Steward Workshop at UWSP's Treehaven Field Station. This was the first class offered as a part of the redesigned Master Woodland Steward Program.

"Woodland Management Guide," the online companion to the UWSP's Master Woodland Steward Program was completed in 2010.

Center for Watershed Science & Education – Director: George Kraft

The Center collaborated with WI DNR on monitoring the Wisconsin River and its tributaries (from Tomahawk to Lodi) for nutrients and other pollutants that hinder water quality and the aquatic ecosystem.

The Center worked with the City of Superior and WI DNR to better understand how urban wetlands might mitigate flooding.

Studies of stream and lake depletion from groundwater pumping are on-going. The Center held dozens of educational sessions for elected officials, irrigators, residents, and conservation advocates on the issue.

School and nature center educators were trained to incorporate groundwater education into their curriculums.

In collaboration with the WI DNR and more than 175 community members, 18 management plans were completed for lakes in Portage County.

The Center conducted stream, lake, and watershed studies on more than 80 lakes and streams with citizen, agency, and Federal partners.

UW – Extension Center for Land Use Education

Interim Director: **Lynn Markham**

14 regional workshops were organized and presented which provided training to 700 local government officials, plan commissioners, and zoning board members.

The Wisconsin Land Use Megatrends: Agriculture publication (www.uwsp.edu/cnr/landcenter/megatrends/) was completed and presented to planning commissioners and at conferences.

Becky Roberts continued to serve as editor for the quarterly Land Use Tracker newsletter www.uwsp.edu/cnr/landcenter/newsletterstracker.html

Anna Haines served as co-chair of the Community Sustainability Task Force as part of Extension's North Central Region and led the creation of a national webinar series about Sustainable Communities focused on energy, local foods, and mobility.

Lynn Markham authored two articles about the human health effects of pesticides in food and emerging solutions.

Anna Haines, Tim Kennedy, and **Dan McFarlane** published a paper about forest parcelization as a change agent in northern Wisconsin in the Journal of Forestry.

The Wisconsin Cooperative Fishery Research Unit

Unit Leader: **Michael Bozek**

Assistant Leader: **Brian Sloss**

WCFRU Masters student **Ryan Andvik** received both the CNR and UWSP Outstanding Graduate Student awards. His graduate advisor is **Brian Sloss**.

Undergraduate students, **Lucas Nathan** and **Ben Kissinger**, received the best student poster awards at the 2011 CNR Undergraduate Student Research Symposium.

Michael Bozek and **Brian Sloss** funded six graduate students during the fiscal year. WCFRU has received multiple grants from the WI DNR providing over \$220,000 and one from the Great Lakes Fishery Commission for \$63,000.

Students within the WCFRU gave 10 scientific presentations to state and national conferences and conventions including the Midwest Fish and Wildlife Conference held in Minneapolis, MN and the Wisconsin Lakes Convention.



Ryan Andvik

Wisconsin Center for Environmental Education – Director: Randy Champeau

The Wisconsin Center for Environmental Education (WCEE) assists in the development, dissemination, implementation and evaluation of teacher and student K-12 environmental education programs. It was established by the Wisconsin legislature in 1990 and placed within the College of Natural Resources at the University of Wisconsin-Stevens Point.

Environmental Education Outreach

- Partnered with the CNR Student Success Center and Trees for Tomorrow to provide an entry-level course (NRES 100) that brings high school students to UWSP
- Held an Orientation Day and Welcome picnic for returning students in the Masters in Natural Resources and Environmental Education Program for K-12 Teachers
- Offered a growing percentage of courses geared towards the working professional online
- Secured a grant from the UWSP Center for Academic Excellence and Student Engagement (CAESE) to develop a Faculty Learning Community (FLC)

Wisconsin K-12 Energy Education Program – Director: Jennie Lane

- Since 1997, more than 5,000 teachers have participated in various KEEP professional development opportunities taught by adjunct faculty located throughout the state
- Received funding from Cool Choices (formerly the Wisconsin Climate Change Action Initiative) to support climate change and sustainable transportation education
 - Worked with Cooperating Educational Service Agency 10 (CESA 10) staff to develop a map identifying schools in Wisconsin with renewable energy systems



GET teacher exchange

Global Environmental Teachings Program – Coordinator: Susan Schuller

- Partnered with Earth Passengers to conduct a teacher exchange program in Taiwan for 5 teachers and a KEEP staff member

Global Environmental Mgt. Education Center – Director: Victor Phillips

- Completed Indigenous Knowledge for Sustainability Program with a gathering of tribal wisdom keepers from across Native American lands in the U.S. and Canada
- Conducted Mainstreaming Indigenous Knowledge for Sustainability Conference to ascertain Indigenous knowledge-based approaches to natural resource management and education
- Recruited by Marquette University to contribute to a U.S. Department of Energy funded grant project on anaerobic biotechnology for renewable energy production

K-12 Forestry Education Program – Director: Jeremy Solin

Professional development trainings were provided to over 700 teachers across the state on Wisconsin's forests and sustainable forest management.

School forest services were provided 98 school districts in partnership with WI DNR foresters.

A partnership with the Goodman-Armstrong Creek School District was continued which utilizes the school forest and human communities as the setting for and purpose of learning in the school. This year the partnership received a Wisconsin Department of Public Instruction Standing Up for Rural Schools, Libraries, and Communities award.

Partnerships with other forestry education providers and stakeholders were formed to offer the Wisconsin Forest for Every Classroom (WI FFEC) teacher professional development program, supported with funding from the US Forest Service.



Students tap maple trees at Goodman-Armstrong Creek School Forest

Wisconsin Environmental Educ. Board (WEEB) – Program Specialist: Ginny Carlton

- Awarded a total of 42 grant proposals totaling nearly a half million dollars for projects related to forestry, school forests and general environmental education
- Oversaw the creation of GreenPrint: An Environmental Literacy Plan for Wisconsin to address opportunities for Wisconsinites to become environmentally literate and implement sustainable practices
- Facilitated the creation of the Wisconsin Environmental Education Research Database, an inventory of environmental education research specific to Wisconsin



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