



UNIVERSITY of NEW HAMPSHIRE
COOPERATIVE EXTENSION

UNH Cooperative Extension Collaborative Partnerships

with

UNH Schools, Colleges & Other USNH Units

2008 - 2009





UNIVERSITY of NEW HAMPSHIRE COOPERATIVE EXTENSION

Dear Cooperative Extension Partners,

We are proud to share a compilation of our recent collaborative partnerships with UNH Schools and Colleges and other University System of New Hampshire (USNH) units. We strive to be recognized and valued as an integral link between the needs of New Hampshire citizens and UNH's Land-, Sea- and Space-Grant missions. We take pride in helping individuals and communities "put knowledge and research to work."

As stated in our Strategic Plan, we are committed to responding to significant issues facing the state by engaging with UNH faculty, students and staff across the University. As evidenced by this report, these collaborations involve Cooperative Extension, academic programs, research and support units, ensuring the University's diverse resources remain responsive to the state's social, environmental and economic challenges. This report illustrates the depth and breadth of Cooperative Extension's partnerships with University faculty and staff.

Cooperative Extension staff are involved in more than 100 partnerships with faculty and staff from all four USNH campuses. More than 30 Cooperative Extension educators and faculty are involved in these partnerships. Twenty-six Extension faculty hold joint appointments between Extension and UNH's academic departments, including the College of Life Sciences and Agriculture, College of Liberal Arts, College of Health and Human Services and the Institute of Earth, Oceans and Space.

Extension staff collaborate on grants and projects, provide workshops, advise student groups, guest lecture and present at numerous seminars in many UNH departments and serve on academic committees.

We are committed to enhancing and expanding our collaborative partnerships to more effectively conduct a wide variety of educational programs addressing priority needs throughout New Hampshire.

Our program initiatives focus on:

- fostering development of competent individuals and strong families
- strengthening New Hampshire communities
- conserving and sustaining natural resources
- strengthening the economic impact of agricultural, forest, and marine resources

Faculty interested in collaborating with us as we provide research-based outreach to New Hampshire citizens should contact me to learn more about these efforts. I look forward to meeting with you.

John E. Pike

Dean and Director UNH Cooperative Extension

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UNH Cooperative Extension

Mission

UNH Cooperative Extension provides a direct link between UNH and people throughout the state. In partnership with local residents and volunteers, Cooperative Extension plans and conducts educational programs responsive to New Hampshire people and the issues they identify that are important to them.

UNH Cooperative Extension's mission "*provides New Hampshire citizens with research-based education and information, enhancing their ability to make informed decisions that strengthen youth, families and communities, sustain natural resources and improve the economy.*"

Fast Facts – UNH Cooperative Extension:

Provides a network of 122 full and part-time Extension Educator, professional and technical staff located in all 10 New Hampshire counties and on the UNH campuses in Durham and Manchester, as well as at UNH Cooperative Extension's (UNHCE) Education Center in Manchester, who design and conduct educational programs.

Includes 28 campus-based Extension Specialists, the majority located in academic departments, who partner with faculty colleagues in facilitating statewide education and research outreach.

Involves 10 county advisory councils collectively comprising 140 members (citizen volunteers, legislators, county commissioners) who help identify local needs and priorities and guide the county outreach activities.

Reaches one in four New Hampshire residents with information or assistance, and recruits, trains and supports over 5,000 trained volunteers who work with staff to conduct educational programs to reach a greater number of New Hampshire citizens (e.g., Master Gardeners, UNH Cooperative Extension Education Center Info Line staff, Lay Lake Monitors, Marine Docents, Wildlife Coverts, Tree Stewards, Great Bay Coast Watch, 4-H Leaders).

Links its county offices to distance education networks that provide videoconferencing and satellite downlinks, bringing educational seminars, workshops and training to all parts of the state.

Receives funding through a cooperative partnership which includes annual appropriations from federal, state and county governments. Grants, contracts, program fees and private contributions provide supplemental funding. A memorandum of understanding between the U.S. Dept. of Agriculture and UNH defines the University's responsibilities for program leadership and management. Memoranda of understanding between the University System of New Hampshire and County Government carry out the provisions of state law as reflected in RSA 24:10a.

Provides over 1,000 educational publications and curricula in all program areas, written by UNH Cooperative Extension faculty and staff.

Visit our web site: extension.unh.edu

Partnerships

College of Engineering & Physical Sciences – Dean Joe Klewicki

Civil Engineering

- **Ken LaValley**, Extension specialist, commercial fisheries technology, worked with Research Assistant Professor - Environmental Research Group **Jenna Jambeck**, and **Shane Bradt**, Extension specialist, geospatial technologies, and the Blue Ocean Society for Marine Conservation on an outreach scholarship project designed to help identify, monitor and mitigate marine debris through tracking on the shore, underwater and on the ocean.
- **Brad Kinsey**, associate professor, Mechanical Engineering, worked with **Trent Schriefer**, former Extension professor/specialist, to deliver a program for a 4-H Science, Engineering and Technology (SET) multi-state conference.

College of Liberal Arts – Dean Ken Fuld

Education

- **Lisa Townson**, Extension assistant director, programs, was a guest lecturer for two years at a class in the Dept. of Education, at the request of Professors **Mike Andrew** and **Eleanor Abrams**, as part of the first semester pro-seminar for doctoral students in that department.
- **Malcolm Smith**, Extension professor/specialist, family education and policy, collaborated with **John Hornstein**, affiliate professor, and **Sara Leonard**, Child Study and Development Center, to present a series of three "Oh Baby" trainings for child care professionals in the state.

Sociology

- **Malcolm Smith** guest lectured in **Val Hurst's** Intro to Criminology (Soc 515) course on "Understanding Violent Behavior in Juveniles."
- **Lisa Townson** collaborated with Dept. of Education Associate Professors **Sharyn Potter** and **Eleanor Abrams**, to evaluate the student and faculty mentoring experiences as a result of UNH's Undergraduate Research Conference. Two publications are forthcoming reporting the results.
- **Charlie French**, Extension associate professor/specialist, community and economic development, worked with Sociology Professor **Sally Ward**, and Natural Resources and the Environment Associate Professor **Kelly Cullen** to complete an evaluation of resident-owned manufactured home communities in New Hampshire. The 2008 publication addresses the social and economic opportunities and challenges of resident-owned communities and can be found at:
<http://www.nhelf.org/programs/housing/mhpp/carseyreport.pdf>

College of Life Sciences and Agriculture – Dean Tom Brady

- **Becky Sideman**, Extension professor/specialist, sustainable horticulture production, serves on several committees within the college, including the Associate Dean of Agriculture Search Committee, the Organic Dairy Planning Committee, and the Sustainable Horticulture Planning Team. She co-chairs the Sustainable Agriculture Working Group, and chairs the UNH Greenhouse Open House Committee.

Agricultural Experiment Station

- **Jeff Schloss**, Extension professor/specialist, water resources, is working with Zoology Professor **Jim Haney** and various UNH undergraduate and graduate students as part of an ongoing Hatch Grant study on Blue Green Bacteria Toxins. **Shane Bradt** also works with Haney to develop a remote sensing technique to detect potentially toxic cyanobacteria in lakes.

- The Agricultural Experiment Station funds research for the following Extension professors/specialists: **Becky Sideman**, **Catherine Neal**, professor/specialist, ornamentals, floriculture, **Peter Erickson**, associate professor/specialist, dairy cattle management, **Cheryl Smith**, professor/specialist, plant health, **Alan Eaton**, professor/specialist, entomology, and **Suzann Knight**, professor/specialist, family resource management.
- **Trent Schriefer** served on the COLSA/Agricultural Experiment Station's Organic Dairy Management Group.
- **Trent Schriefer** partnered with the COLSA Dean's office and Associate Director for AES, **Jon Wraith**, in the development of outreach programs for the UNH Organic Dairy Research Farm.

Biological Sciences

- Extension faculty contributed to the college's horticulture program by teaching courses, drafting new curriculum, and providing input to strategic planning efforts, insuring key stakeholders are involved.
- **Cathy Neal** taught two classes this year, as well as coordinated the internship program for the department.
- **Jeff Schloss** completed final reporting for a U.S. Environmental Protection Agency and NOAA-funded, NH Dept. of Environmental Services-managed research project: an investigation into the use of parasitic nematodes for variable leaf milfoil control. The researchers included Professor-Emeritus **Garrett Crow**, Plant Biology, **Eyualem Abebe**, Elizabeth City State University, and **Kelly Thomas**, Hubbard Center for Genomic Studies.
- **Shane Bradt** works in the labs of Professors **Win Watson** and **Hunt Howell** to implement GIS mapping for research projects tracking lobsters and fish species in coastal waters in the Gulf of Maine.
- **Lisa Townson** serves as a guest lecturer in Professor **Patti Bedker's** ANSC Careers in Animal Science class, presenting information about careers in Cooperative Extension. In 2008, Bedker and Townson jointly supervised a Master's student in an internship to learn more about careers in Cooperative Extension.
- **Brent Loy** and **Tom Davis**, both professors of plant biology, presented their research on plant breeding and genetics to audiences of growers and Extension professionals at workshops and twilight meetings at the UNH Agricultural Experiment Station. **Becky Sideman** integrates work-study students and independent study students into Extension's horticultural research programs. With a 20 percent teaching appointment in the Dept. of Biological Sciences, she teaches Sustainable and Organic Food Production. She has provided guest lectures in other courses including NUTR 912 (Vitamin Nutrition), PBIO 651 (Plant Pathology), and NR 444 (The Real Dirt). She also mentors several graduate students by serving on the committee of three PhD and two M.S. degree candidates. She is currently the major advisor of one M.S. degree candidate.
- From January until May 2009, **James Haney** assisted the National Science Foundation-funded 4-H Wild Explorers, coordinated by **Julia Steed-Mawson**, Extension educator, 4-H youth development, with technical assistance, materials and live zooplankters to help support macro invertebrate cultures 4-H'ers will care for in the program.
- **Cathy Neal** serves as coordinator and faculty sponsor for undergraduate students doing environmental horticulture internships for credit. Six students in the summer of 2009 worked on a range of projects, from historical landscapes to working for commercial landscape firms or garden centers. Additionally, three students enrolled in a special investigations class for spring 2009 and worked with Neal on developing a landscape buffer restoration plan for a demonstration site in an EPA-funded water quality project in Portsmouth (Hodgson Brook).
- **Cathy Neal** collaborated with the UNH Stormwater Research Center on a grant proposal for a similar project in Dover, written by the Stormwater Research Center and Cocheco River Watershed Coalition that includes several Extension educators including Neal in the grant.
- **Cathy Neal** also serves the college by serving as chair of the Tuttle Endowment Committee that makes funding decisions and oversees the use of the endowment for horticulture. This year it supported two

children's gardening projects, one through Cooperative Extension and one through the UNH Child Development Center, provided funding to temporarily help bridge the gap in the COLSA horticulture program, and authorized Extension faculty to hire a temporary research assistant.

- **James Haney** delivered guest lectures for **Julia Peterson**, Extension professor/specialist, water resources, for town of Milton when they worked with the Natural Resources Outreach Coalition.
- **Jeff Schloss** co-instructs the upper level course, Multi-disciplinary Lake Management, with **Jim Haney**.
- **Trent Schriefer** taught CREAM (Cooperative Real Education in Agricultural Management) in 2008.
- **Trent Schriefer** served on several committees in the department, including the Sustainable Agriculture Research Committee and the Biological Science Scholarship Committee.

Molecular, Cellular, and Biomedical Sciences

- **Terri Schoppmeyer**, educational program coordinator, Nutrition Connections (Rockingham Co.), worked with UNH Internship Program Director **Joanne Burke** to provide graduate and undergraduate students with field experience in community nutrition. These experiences included teaching low income audiences and designing educational programs for children. Students worked in elementary school classrooms in Portsmouth and in an after-school program in Raymond.
- **Debbie Luppold**, Extension professor/specialist, food and nutrition, works with Clinical Assistant Professor and Dietetic Intern Program Director **Joanne Burke** to provide training to all UNH dietetic interns. Luppold and **Heidi Bennett**, Nutrition Connections program associate from Hillsborough County, provided trainings on how to teach nutrition to youth to two groups of interns who worked in elementary schools in Manchester and Somersworth.
- **Colette Janson-Sand**, Extension associate professor/specialist, partnered with Professor **Tony Tagliaferro** and a PhD student **Jorie Allen** to create and deliver a Worksite Wellness Program to Extension staff as part of her research for her doctoral program. **David Foote**, director, communications and information technology, assisted by delivering the program using Extension's two-way interactive video network.
- **Becky Sideman** collaborated with Chief Sustainability Officer **Tom Kelly** and **Elisabeth Farrell**, Office of Sustainability, along with Professors **Joanne Curran-Celentano** and **Joanne Burke**, Molecular, Cellular and Biomedical Sciences, Professors **Raymond Goodman** and **Dan Winans**, Whittemore School of Business, and Professor **John Carroll**, Dept. of Natural Resources and the Environment, to develop and implement a new undergraduate major in Eco-Gastronomy (began Fall 2008).

Natural Resources and the Environment

- **Frank Mitchell**, Extension specialist, emeritus, worked with Natural Resources professors **Mimi Becker** and **Robert Eckert** to prepare a new course for the Dept. of Natural Resources for the Spring, 2007 semester in land conservation.
- **Paul Johnson**, associate professor, and **Frank Mitchell** train and advise senior projects course student teams. This course provides students with real world experience in working with local community groups on conservation projects.
- **Frank Mitchell** served on a dissertation committee with Professors **Mimi Becker** and **Ted Howard**.
- **Frank Mitchell** provides course assistance to Associate Research Professor **Dave Burdick** and graduate students to prepare graduate students to use a shore land buffers evaluation procedure.
- **William McDowell**, professor and Water Resources Center director, and **Jeff Schloss**, work together on a long-term project evaluating the impacts of land use change on water quality. Extension funded a graduate student from 2007-2008 to study ground water quality at Mendums Pond. They both serve on the NH Water Conference steering committee.
- **Jeff Schloss** advises a number of natural resources students and has occasionally served on thesis committees. He also often guest lectures for Water Resources Management related courses. He is the primary instructor for the department's Watershed Ecology Summer Institute.

- **Becky Sideman** collaborated with Natural Resources Associate Professor **Kelly Cullen, Charlie French** and Professor **Robert Mohr**, Whittemore School of Business, to develop a proposal to fund a graduate assistantship to study the economic viability of small-scale, sustainable energy alternatives, including on-farm biodiesel production.
- **Charlie French** teaches Community and Environmental Planning Perspectives for the Dept. of Natural Resources newly-formed Community and Environmental Planning Program. He also serves on the program's advisory committee. Last year his students created a film called "Going Green at UNH," on UNH Cooperative Extension's YouTube website at <http://www.youtube.com/watch?v=HMD0BCKtTKY>
- **Karen Bennett**, Extension professor/specialist, forest resources, instructs students in a field lab about integrating wildlife habitat considerations into woodlot management for Professor **John Litvaitis's** wildlife habitat class.
- **Sarah Smith**, Extension professor/specialist, forest industry, **Karen Bennett** and **Matt Tarr**, Extension professor/specialist, wildlife, presented at Associate Professor **Tom Lee's** Professional Perspectives class about Extension and the outreach mission of the Land Grant mission.
- **Cathy Neal** served as a mentor for PBIO 600 independent study for senior David Moore. Moore's study was on tapping birch trees for syrup production.

Thompson School of Applied Sciences

- **Michele Gagne**, Extension training and planning coordinator, taught CSL 204 (Managing Community Conflict and Change) at the Thompson School Fall 2008. Outside speakers who partner with Extension engaged the students in community work, including the Seabrook Master Plan visioning forum.
- **Cathy Neal** served on an external review panel for the Horticulture Technology program of the Thompson School of Applied Sciences. The panel made recommendations on program strengths, weaknesses and opportunities for improving the program, based on extensive research and conversations with students, alumni, faculty and UNH administrators. The report recommended ways to improve collaborations between the Thompson School and other COLSA departments and Extension so students and the green industry of the state are best served.
- **Terri Shoppmeyer** worked with Thompson School of Applied Science-Dietetic Technician Program Director **Nancy Johnson** to provide community practicum experiences for three students. Students worked with adults with disabilities providing cooking and nutrition lessons, three Head Start Centers were provided with active play and healthy eating lessons and an after-school program series in Epping explored cultural eating.
- **Mary Tebo**, Extension educator, urban forestry, worked with Thompson School Director **Regina Smick-Attisano, Rene Gingras, Nancy Johnson** and **Rick Macdonald** of Dining Services, and civil engineering graduate student **James Sherrard** on a grant proposal to complete the green roof on Holloway Commons. (The grant didn't get funded, but it spurred a larger campus green roof team to form to discuss future efforts.)
- **Trent Schriefer** served on the Thompson School Strategic Planning Committee.
- **Trent Schriefer** collaborated with the Thompson School on 4-H Animal Science events with **Drew Conroy**, professor in animal science. Conroy served as a judge for a state-wide working steer event held at the UNH sawmill.

Family Studies

- UNH's Depts. of Family Studies and Justice Studies Program have placed student interns with Extension, working with **Rick Alleva**, Extension educator, 4-H youth development, Rockingham County, and youth and service providers focusing on positive youth development. Interns are trained as 4-H volunteer leaders as well.
- **Karyn Blass**, Extension educator, family and consumer resources, worked with Associate Professor-Emeritus **Kristine Baber** and other Family Studies faculty and staff to plan and hold a conference for girls, titled, "Stop the Drama and Get Real." More than 200 participants attended, mostly parents and middle school girls.
- **Malcolm Smith** directed a research team including Family Studies Professor **Michael Kalinowski**, **Reagan Baughman**, associate professor, WSBE, and Sociology PhD candidate **Megan Henly**, which reviewed the Child Support Guidelines for the NH Dept. of Health and Human Services. The research included visits to six states and resulted in six policy and legislation recommendations.
- **Elizabeth Dolan**, Family Studies associate professor, serves as co-principal investigator with **Suzann Knight** and Nursing Associate Professor **Pamela DiNapoli** on a five-year multi-state research project on the "interactions of individual, family, community, and policy contexts on the mental and physical health of diverse rural low-income families."
- **Elizabeth Dolan** serves on Extension's Family Resource Management Advisory Group. The group provides guidance for the programs, publications and activities within Family Resource Management.
- **Malcolm Smith** served on both the Graduate, Family Policy and Advocacy Committees of the Dept. of Family Studies.
- **Malcolm Smith** supervised three UNH Family Studies practicum students, serving at family resource centers. He also teaches the Family Programs and Policy Course (FS 760) for the department.
- **Suzann Knight** and **Malcolm Smith** guest lectured in the Family Studies Intern Seminar. This course is taught by **Elizabeth Dolan**.
- **David Foote** and **Michael Kalinowski** worked to develop and deliver a comprehensive survey of the state's child care providers throughout the state for the NH Dept. of Health and Human Services.
- **Charlotte Cross** and **Michele Gagne** presented at a class for Associate Professor **John Nimmo**, related to community asset mapping to prepare FS 743 students (Families, Schools and Communities) for a community assessment project to map local youth resources.

Institute on Disabilities

- **Cathy Apfel**, UNH Institute on Disability project director, worked with **Paula Gregory**, Extension professor/specialist, 4-H Youth Development, to provide training on positive behavior interventions and support, and technical support for all 4-H camp staff throughout the summer.
- **David Foote** worked with **Michael McSheehan** and **Mary Ann Allsop** to deliver a series of workshops throughout the state on autism using the Granite State Distance Learning Network (GSDLN).
- **Suzann Knight** coordinates the NH Statewide Earned Income Tax Credit Alliance. One member is the River Center that is collaborating with "Under One Roof," an IOD-led project in New Hampshire's Monadnock region.

Kinesiology

- **Mike Gass**, professor and chair, continues to provide advice to **Charlotte Cross** about Operation: Military Kids camp locations and programs.
- **Tara Flippo**, Clinical assistant professor partnered with **Charlotte Cross** set up a team building program at the Browne Center for the Operation: Military Kids – Speak Out for Military Kids program.

Occupational Therapy

- **Barbara P. White**, associate professor, occupational therapy, worked with **Paula Gregory** and 4-H Camp staff on reducing stress and managing their own health throughout the challenges of their summer employment.
- **Barbara P. White** and **Paula Gregory** co-presented a paper at the May 2009 annual CYFAR (Children, Youth and Families at Risk) Conference in Baltimore, MD. The paper, “A qualitative review of participant experiences in a stress management intervention during pregnancy study” presented findings from a 2007-08 research project.

Social Work

- Operation Military Kids is partnering with **Anita Tucker**, assistant professor, on Speak Out for Military Kids program. She will work with teens on team building skills.

Recreation Management

- **Jeff Lang**, facilitator for the Browne Center, led a small group of lead 4-H Camp staff, coordinated by **Paula Gregory**, through some challenge activities to develop their teamwork, problem-solving and supervisory skills.
- **Paul Shirilla**, graduate research assistant, Outdoor Education, provided 4-H Camp staff with an overview of preliminary research findings from a multi-year study of the effectiveness of an intentional residential summer camp experience on the social skill development of pre-adolescent youth.

Whittemore School of Business and Economics – Dean Daniel Innis

- **Karyn Blass** works with Health Services, Peer Education program, UNH Parents Association, Financial Aid Office, Business Office, WSBE and the Alumni Center on Project CASH activities and events. Many departments at UNH have put a link for the Web site on their home web page and regular reports show high usage of the site (weekly “successful requests” averaging around 5,000), with steadily increasing numbers.
- **Frank Mitchell** consults and advises graduate students from Natural Resources and WSBE regarding a project on adoption of technical tools to aid community decision-makers.
- **Alice Mullen**, Extension educator, family and consumer resources, lectured on food safety to 97 undergraduate students in HMGT567 Advanced Food and Beverage, taught by **Sylvia Marple**, assistant affiliate professor. The course requires participation in a gourmet dinner students plan and execute.
- **Malcolm Smith** collaborated with **Reagan Baughman**, assistant professor and **Michael Kalinowski** to present highlights of the Child Support Guidelines review to the Child and Family Law Committee of the New Hampshire legislature.

UNH Manchester – Dean Kristin Woolever

- **Shane Bradt** is working with **Mihaela Sabin**, associate professor of computer science, to develop online GIS and GPS workshops to broaden accessibility to the Geospatial Technology Training Center training materials.
- **Malcolm Smith**, through the Family Education collaborative in Manchester, has provided leadership and advice for the Family Education Collaborative and “When Work Works,” a national initiative that educates and recognizes employers using workplace flexibility as an effective business strategy.
- **Malcolm Smith** partnered with **Trece Mettauer**, Community Outreach Scholarship coordinator, to conduct a community family life needs assessment for the Family Education Collaborative in Manchester.

- **Mary Tebo** worked with UNH Manchester Associate Professor **Steve Pugh** and **Trece Mettauer** to incorporate the Natural Resources course into the undergraduate biology curriculum for 2010.
- **Michele Gagne** taught CSL 292 (Meeting Management and Public Participation Skills/Techniques) at UNH-Manchester with **Dan Reidy**, Extension educator, community development and **Charlie French**, as well as Associate Professor **Kate Hanson** from UNH Durham/Manchester with the Community Service and Leadership program.

Graduate School

- UNH Cooperative Extension provides financial support for two graduate assistantships each year. The current graduate assistantships are both assigned to the Natural Resources Dept.

Libraries – Dean Sherry Vellucci

- **Malcolm Smith** conducted a series of trainings for Dimond library staff on balancing work and family life. Over 50 library staff attended.

Other UNH Centers, Institutes and Units

Carsey Institute

- **Malcolm Smith** collaborated with **Kristin Smith**, Carsey Institute, and **Ben Amsden**, Plymouth State University on conducting the first NH Work and Family Life Study. The study included eight focus groups with parents at family resource centers across the state and a survey of a representative sample of New Hampshire's working families. Results will be published in late Fall 2009.
- Members of the Carsey Institute's Youth Team reviewed current and past CYFAR (Children, Youth and Families at Risk) projects and potential research opportunities with **Paula Gregory**.
- **Charlie French** collaborated with Associate Professors **Curt Grimm** and **Barbara Wauchope**, Carsey Institute, on a grant proposal to the Northeast States Research Cooperative (NSRC) to evaluate the transfer of knowledge from past grant-funded research to community stakeholders. The project will help NSRC to improve the mechanisms by which research findings are conveyed to the broader public for public benefit.
- **Charlie French** serves on the Carsey Institute's Winant Fellowship selection committee. The Winant Fellowship provides four to six students each year with full-time summer work with a non-profit organization or government agency to further their professional interests in public service.

Complex Systems Research Center

- **Shane Bradt** is partnering with **Fay Rubin**, NH GRANIT director, and **David Justice**, information technologist with NH GRANIT, and **Steve Hagen**, research scientist in the Complex Systems Research Center, to develop GIS tools to identify critical natural resource areas in New Hampshire towns as part of a CICEET-funded project.
- **Shane Bradt** works to bring the expertise of **Fay Rubin**, **Jennifer Lingeman**, **David Justice** and **Chris Phaeuf**, staff at the GIS database, NH GRANIT, to Extension's Community Mapping GIS course each summer.
- **Shane Bradt** is developing outreach materials for **Fay Rubin**, and **Jennifer Lingeman**, NH GRANIT database manager, to publicize the NH GRANIT Data Mapper, a free online tool for making maps of NH GIS data produced and housed at the Complex Systems Research Center.
- **Julia Peterson** partnered with **Jamie Houle**, research scientist, UNH Stormwater Center, to work with coastal communities, delivering two low impact development conferences.

- **Jamie Houle**, UNH Stormwater Center, and **Julia Peterson** partnered with coastal communities and coauthored a community guide to water resource protection and stormwater.
- The stormwater collection research facility located on the UNH campus filters and monitors various nutrients and salts that enter the treatment area. Two of the “holding areas” were in need of vegetation effective in absorbing the runoff and **John Roberts**, Extension professor/specialist, turf, assisted in the selection of two different turf grasses for the areas in May 2009 and their performance will be evaluated in the future.

Earth, Oceans and Space Institute

- **Mary Tebo** continued work with **Denise Blaha**, Earth Ocean and Space Dept., incorporating climate change education into the Natural Resources Volunteer course (this collaboration began in the late 1990s and continues today).
- **Mary Tebo** worked with several faculty and staff of Earth Ocean and Space Dept. to help develop and train volunteers to give Climate Change Education programs.
- **Trent Schriefer** partnered with Prof. **Barry Rock** on several projects, including Earth Day events and the Forest Watch program. Rock also served as an advisor for the 4-H Science, Engineering and Technology program.
- **Trent Schriefer** collaborated with **Clara Kustra**, EOS Public Relations and **David Bartlett**, professor and associate director on a 4-H Science, Engineering and Technology (SET) multi-state conference.

Joan and James Leitzel Center for Mathematics, Science, and Engineering Education

- **Jeff Schloss** co-taught the two-week summer UNH course “Watershed Watch” with Professor **Barry Rock**, EOS/Natural Resources, **Elise Sullivan**, clinical assistant professor, Molecular, Cellular and Biomedical Sciences, **Steve Hale**, research associate, Leitzel Center, three Elizabeth City State University (ECSU, North Carolina), 12 UNH students, 10 Great Bay Community College students, and five ECSU students. **Karen Graham**, professor and Leitzel Center director, is a co-principal investigator for the National Science Foundation grant that supports this effort to mentor undeclared majors in an effort to have them declare a STEM (Science, Technology, Engineering or Math) major.
- **Shane Bradt** provided hands-on exposure to GPS and GIS technologies for New Hampshire science teachers during the NH-PALS science summit organized by the Joan and James Leitzel Center for Mathematics, Science and Engineering Education.

New Hampshire Public Television

- **George Fryburg**, NHPTV, and **David Foote**, worked together to coordinate strategic planning initiatives for the Granite State Distance Learning Network (GSDLN).

UNH Child Study and Development Center

- As the faculty representative on the Tuttle Endowment Committee, **Cathy Neal** was responsible for leading a committee of industry representatives to approve funding for continuation of “Growing a Green Generation,” a pre-school gardening curriculum developed in cooperation with the UNH Child Study and Development Center.
- **Charlotte Cross** worked with **Jon Nimmo**, associate professor and executive director of the Child Study and Development Center on a collaborative Operation Military Kids (OMK) Hero Pack project, done in partnership with the Child Study and Development Center and the Oyster River Parents of Preschoolers local organization.

Office of Outreach Scholarship

- Thirteen Extension faculty members or Extension educators completed the UNH Outreach Scholars Academy through UNH’s Office of Outreach Scholarship. They work with interdisciplinary faculty teams to develop and deliver outreach scholarship programs to New Hampshire citizens. **Lisa Townson**

assists with the academy, serves as a coach to faculty participants and collaborated with **Julie Williams**, senior vice provost, Engagement and Academic Outreach, and Research Associate Professor **Cameron Wake**, Faculty Fellow for Outreach Scholarship, to develop and roll out a Web site that contains the Outreach Scholars Academy curriculum for national distribution. **Malcolm Smith** presented at the 2009 UNH Outreach Scholars Academy on his experiences working with community partners.

- **David Foote** and **Charlie French** worked together with a team of Extension staff, UNH audio/visual staff, **Julie Williams**, and **Bud Fitch**, director, Governor's Stimulus Office to deliver important stimulus program information throughout the state.
- **Lisa Townson** serves on the Undergraduate Research Conference planning committee, assisting with evaluations and VP University-wide Symposiums.
- **Jeff Schloss** teamed up with **Cameron Wake**, **Brad Kinsey** and **George Hurtt**. Natural Resources associate professor, to design and teach the freshman course "How to Change the World." This discovery course involves students doing research projects for local and statewide community and environmental organizations.
- **John Pike**, dean and director of UNH Cooperative Extension, served on a committee to oversee and submit written materials to support UNH's application for an elective Carnegie Classification as a Community Engaged Institution.
- **Charlie French** and **Juli Brussell**, Extension program leader, agricultural resources, served on a UNH "Wildcat" stimulus funding team to identify federal grant opportunities falling under the jurisdiction of the U.S. Dept. of Commerce. A report was completed for the Office of the Vice President for Research.

Office of Sustainability

- Working with **Tom Kelly**, chief sustainability officer, **John Aber**, provost and professor, Natural Resources and **Bruce Mallory**, professor, Education and former provost, **Jeff Schloss**, as a section editor and contributing author, helped shepherd the "engagement" pieces for a book of case studies on how UNH integrates sustainability into its campus, curriculum and research recently published by the University Press of New England.
- **Becky Sideman** collaborated with **Tom Kelly** and **El Farrell**, **Joanne Curran-Celentano** and **Joanne Burke**, **Raymond Goodman** and **Dan Winans**, Whittemore School of Business, and **John Carroll**, to develop and implement a new undergraduate major in EcoGastronomy (began Fall 2008).

Other

- The 4-H Youth Development program's career trip "Focus on Food," provided opportunities for youth to tour kitchen facilities, overnight in dorms, and dine in state of the art dining areas at UNH. They interacted with health and nutrition concepts from scientific points of view and were able to experience UNH from a unique point of view.
- Partnership plans are in the works with Operation Military Kids (OMK) and **Lt. Amada R. Ponn**, Army ROTC. Involving UNH ROTC students is a positive addition to the OMK team of resources for programming with military kids in New Hampshire.
- UNH students are involved with the VITA site sponsored by the CASH Campaign of Southeastern NH. They are trained and prepared tax returns for low and moderate income individuals and families. This VITA sites is a member of the NH Statewide Earned Income Tax Credit Alliance coordinated by **Suzann Knight**.

Other University System of New Hampshire Outreach Efforts

Granite State College – President Karol LaCroix

- **David Foote** and **Kevin Woods**, Granite State College (GSC) information technologist, worked together to develop recommendations and conduct pilot testing of two-way interactive video technologies at GSC primarily for use by the USNH Board of Trustees and USNH Presidents.

Keene State College – President Helen Giles-Gee

- **Shane Bradt** has worked with **Brett Thelen** and **David Moon** of the Ashuelot Valley Environmental Observatory at Keene State College to offer GPS and GIS courses to empower citizen scientists to document wildlife observations.
- **Debbie Luppold** works with **Karen Balnis**, Health Sciences, to provide field experiences with the Nutrition Connections Program. Dietetic interns worked with **Christine Parshall**, program associate in Cheshire County and **Sandy Trybulski**, program associate, in Sullivan County schools.

Plymouth State University – President Sara Jayne Steen

- **Julia Peterson** collaborates with Associate Professor **Brian Eisenhauer**, Plymouth State University (PSU), on a National Institute for Food & Agricultural (NIFA) grant project on lawn care and water quality. She also served on **Brian Gagnon**, Plymouth State graduate student on a grant project thesis committee.
- **Julia Peterson** works with **Nick Stevenson**, Plymouth State graduate student, on a NIFA grant project helping with lawn care outreach products.
- **Jeff Schloss** advises a number of graduate students affiliated through the PSU Center for the Environment involved in research on Squam Lake and Lake Winnepesaukee. He also collaborates with PSU on a project investigating watershed nutrient loading into Meredith Bay, Lake Winnepesaukee for the Town of Meredith and the Lakes Region Planning Commission.
- **Scott Meyer**, professor, social work, **Stephanie Halter**, assistant professor, Criminal Justice, **Jean Dawson**, UNH graduate student, and **Paula Gregory** completed the final evaluation of the 2003-2009 CYFAR (Children, Youth and Families at Risk) projects.
- **Bob Craycraft**, educational program coordinator, Lakes Lay Monitoring Program, collaborates with **Brian Eisenhauer** and **Steve Whittman**, adjunct faculty member, as part of an interdisciplinary nine town Newfound Lake watershed natural resource based planning effort.
<http://www.newfoundlake.org/watershedmasterplan/projectoverview.html>
- **Suzann Knight** coordinates the NH Earned Income Tax Credit Alliance, an umbrella coalition of all of the Volunteer Income Tax Assistance (VITA) sites. **Roger Babin**, business professor, trains students and oversees a VITA site in Plymouth.

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