Agriculture & Biosciences

A Lettuce in Winter?
http://www.unh.edu/unhtoday/2013/05/lettuce-winter

Locally grown and produced food is in high demand for New Hampshire residents. UNH Cooperative Extension specialists Brian Krug and Becky Sideman and UNH plant biology master’s student Claire Collie are collaborating on research to determine optimal growing techniques for winter greens such as tiny mizuna, komastuna, and arugula in local greenhouses during the fall and winter months, and, thereby, increase production potential to meet this demand.

Alumna Nancy Fernandes Wins Prestigious Fellowship
http://manchester.unh.edu/blog/campus-news/alumnae-nancy-fernandes-wins-prestigious-fellowship

After Nancy Fernandes’ son was diagnosed with Chiari malformation type I, a condition in which brain tissue extends into the spinal canal, she was galvanized to return to school at UNH Manchester after more than twenty years to complete her bachelor’s degree in biology. She received a bachelor’s degree in 2012, and quickly decided to pursue a master’s degree in biochemistry. Fernandes now has received a competitive National Science Foundation Graduate Research Fellowship that she says has inspired her to continue on to earn a Ph.D. in biochemistry after she completes her master’s.

Brian Krug Receives Alex Laurie Award, Website Honors
http://extension.unh.edu/articles/Brian-Krug-Receives-Alex-Laurie-Award-Website-Honors

Brian Krug, UNH Cooperative Extension specialist for greenhouse and floriculture, became a two-time Ohio Florists’ Association Alex Laurie award winner. Krug co-authored the paper, “Development of Euphorbia pulcherrima Under Reduced Finish Temperatures,” which was published in the academic journal HortScience. Klug is pictured (on the left) with Purdue University collaborators Roberto Lopez and Diane Caberato.

Cooperative Extension Field Specialist Selected for Inaugural Network Class
http://www.unh.edu/campusjournal/2013/02/cooperative-extension-field-specialist-selected-inaugural-network-class

Brendan Prusik, a UNH Cooperative Extension natural resources field specialist in Coos County, was selected through a competitive application process for membership in the inaugural class of the Community Practitioners Network (CPN). The CPN is a two-year leadership program designed to develop and bolster leadership skills among community members and economic development professionals from northern New Hampshire and surrounding states and Canada.
Creature Feature – Luminous Squid Lights up Research on Beneficial Bacteria
http://www.unh.edu/unhtoday/bobtail-squid
http://www.unh.edu/news/releases/2013/10/bp16squid.cfm#ixzz2pv67b5mV
http://www.unh.edu/campusjournal/2013/10/researchers-receive-700000-study-bacteria-bioluminescent-squid

UNH researchers received a National Science Foundation grant of $716,000 to study the relationship between the Hawaiian bobtail squid and a bacterium that helps it avoid predators by masking the shape of the squid and emitting light. Associate professors of microbiology and genetics Cheryl Whistler and Vaughn Cooper are heading the three-year project. Whistler explains, “Beneficial bacteria are the foundation of health of all plants and animals – including humans – but because most research has focused on disease-causing bacteria, we don’t understand these beneficial associations very well.”

Early Mammals Shrunk – Twice – During Global Warming in Paleogene Era
http://www.unh.edu/news/releases/2013/11/bp01mammal.cfm#ixzz2pvAbS2JK
http://www.unh.edu/campusjournal/2013/10/early-mammals-shrank-twice-paleogene-era

About 50 million years ago, the Earth heated up in a series of extreme global warming events, and as a response, early mammals shrank. Previously, this decrease in mammalian size was attributed to the first and longest global warming event. However, doctoral student Abigail D’Ambrosia and her colleagues have studied fossils (such as the jawbone fossil of an early horse pictured at left) that have connected this shrinkage to a second, smaller warming period, which suggests a pattern that can provide insight into the Earth’s current warming. “Developing a better understanding of the relationship between mammalian body size change and greenhouse gas-induced global warming during [the] geological past may help us predict ecological changes that may occur in response to current changes in Earth’s climate,” says Will Clyde, D’Ambrosia’s advisor and professor of geology.

Fairchild Dairy Teaching and Research Center
http://colsa.unh.edu/article/fall-2013/fairchild-dairy-teaching-and-research-center

The Fairchild Dairy Teaching and Research Center had nearly 2,100 visitors in 2013, including groups of area high school and elementary students, the 4-H teen conference, UNH Law School students, and prospective pre-veterinary students. Research at the Dairy includes measurement of methane in the breath of lactating dairy cattle, investigating the effects of feeding niacin to dairy cattle, and measurement of methane produced by silage, manure, and cropland.

Farmers Market Survey Reveals High Customer Satisfaction
http://www.unh.edu/campusjournal/2013/10/farmers-market-survey-reveals-high-customer-satisfaction

A recent study conducted by the College of Life Sciences and Agriculture and UNH Cooperative Extension found that the number of vendors participating in farmers markets in Rockingham and Strafford counties has grown since 2005, and that customers report feeling highly satisfied with the quality of the products sold at their local markets. Former UNH graduate student Jewel McKenzie conducted this research along with associate professor of environmental and resource economics Alberto Manalo, Cooperative Extension professor and specialist Michael Sciabarrasi, and Cooperative Extension food and agriculture field specialist Nada Haddad.
Gone Fishin’
http://www.eos.unh.edu/Spheres_1113/diessner.shtml

Calvin Diessner’s master’s degree work utilized the techniques of aquaculture and hydroponics to investigate how waste from fish could be used as the main fertilizer to supply nutrients for a plant’s nourishment. Diessner grew floating bok choi and green bib lettuce with fertilizer from hybrid striped bass, and found that greens flourished in this sustainable, self-regulating environment. Diessner would like to expand the field of aquaponics at the local level as a New England-based, nonprofit business enterprise.

How Does Moo-ving to Pasture Feeding Affect the Nutrient Composition of Cows’ Blood and Milk?

Undergraduate Jillian Smith ’12 worked with Joanne Curran-Celentano, professor of nutritional sciences, on a project comparing pasture feeding at an organic dairy to total mixed ration feeding at a conventional dairy. Smith’s results suggested that pasture-grazed cows had a higher concentration of carotenoids – nutrients linked to decreased risk of cardiovascular disease, cancer, and immune system decline – in their milk. Smith concluded that because studies have found that consumers prefer food products with added health benefits, farmers could increase profits by increasing carotenoid concentration in their cows’ feed through pasture grazing.

Karen Bennett, Andrew Fast Recognized with Awards
http://extension.unh.edu/articles/Karen-Bennett-Andrew-Fast-Recognized-Awards

UNH Cooperative Extension professor and forest resources specialist Karen Bennett was named a Fellow of the Society of American Foresters (SAF) – an honor bestowed upon only five percent of SAF members – for her outstanding contributions to the society and the forestry profession. UNH Cooperative Extension field specialist Andrew Fast was awarded the American Tree Farm System 2013 National Leadership Award to recognize his instrumental work in increasing forest stewardship in New Hampshire.

Kingman Farm
http://colsa.unh.edu/article/fall-2013/kingman-farm

Numerous faculty, including assistant professors of agroecology Iago Hale and Rich Smith and assistant professor of plant pathology Kirk Broders, use UNH’s Kingman Farm throughout the year to conduct research on plant breeding, cover crops, plant diseases, water quality, and more. Kingman Farm employs both graduate and undergraduate students, advancing the University’s mission of research, teaching, and outreach.
Manchester Charter School Students Work on NASA's Worms in Space Study

http://manchester.unh.edu/blog/campus-news/manchester-charter-school-students-work-nasas-worms-space-study

In an effort to boost interest and participation in STEM (Science, Technology, Engineering, and Mathematics) among elementary students, UNH Manchester is partnering with local charter schools to give fourth graders hands-on experience in research. The students will be comparing their experiments involving butterflies and worms with those of a NASA scientist who is conducting the same experiment in zero-gravity on the International Space Station.

Mapping Adaptability & Resilience

http://colsa.unh.edu/article/fall-2013/mapping-adaptability-resilience

Tom Davis, professor of biology, and Rich Smith, assistant professor of agroecology, are collaborating with faculty at the Universities of Maine and Vermont to evaluate potential variations in weed distributions in northern New England resulting from climate change. Smith predicts that many weed species may become more problematic in the future due to genetic variations. The three universities will be working together to create a distribution map of the common and uncommon weeds in northern New England.

Moving Right Along – High Tunnel Gives Farmers More Flexibility

http://www.unh.edu/unhtoday/2013/08/moving-right-along

Rolling Thunder, a moveable high tunnel, has been developed and donated to UNH’s Woodman Farm by Rimol Greenhouse Systems of Hooksett, NH. “It serves as both a resource for crop research and a state-of-the-art classroom for teaching new growing methods,” says Bob Rimol, President of Rimol Greenhouse Systems. Becky Sideman, a vegetable and berry specialist with UNH Cooperative Extension, is one of the many faculty who will use the tunnel to conduct crop research and classroom teaching, and, ultimately, provide knowledge and insight to enhance overall growing for New Hampshire farmers.

NH Farm to School Receives Grant for Gleaning Work

http://www.unh.edu/news/releases/2013/mar/sc06gleaning.cfm
http://www.unh.edu/campusjournal/2013/03/nh-farm-school-receives-funding-state-gleaning-work
http://us1.campaign-archive1.com/?u=f961de241cfc5cbfcd3ddf440&id=f7529030e2

New Hampshire Farm to School, which is housed in the Sustainability Institute at UNH, was awarded a grant of more than $38,000 from the New Hampshire Charitable Foundation to support gleaning, the collection of leftover crops from farmers’ fields. Through gleaning, Farm to School aims to reduce food waste and bring fresh, local produce to state food banks, public schools, and others in need.
New Hampshire Lakes Region Local Food Guide Available

To help meet the increasing demand for locally grown produce from the New Hampshire lakes region by residents and visitors alike, the first edition of the New Hampshire Lakes Region Food Guide has been published. The project coordinator, UNH Cooperative Extension food and agriculture specialist Kelly McAdam, says the guide will help “support the growing agricultural activity while promoting community health, wellness, and the local economy.”

Organic Dairy Research Farm
http://cansa.unh.edu/article/fall-2013/organic-dairy-research-farm

During the summer of 2013, the UNH Organic Dairy Research Farm began using the aerobic digestion research facility built in the fall of 2012. The facility will allow the Dairy to capture metabolic heat released from microbes as they compost bedding, manure, and urine wastes, and then utilize that energy to pre-heat the water system in the milking parlor. Research this year included using the Organic Dairy Research Farm as a model system for measuring greenhouse gases, crop productivity, soil nutrient cycling, and manure management.

Paradigm Shift in the Soil
http://cansa.unh.edu/article/fall-2013/paradigm-shift-soil

Ph.D. student Cynthia Kallenbach ’15 is analyzing the evolution of soil organic matter and microbial growth in artificial soils treated with various types of carbon. Her initial results show that microbes play a primary role in the formation of soil organic matter, challenging the long-held belief that chemically complex plant inputs were necessary. Her advisor, Stuart Grandy, assistant professor of soil biogeochemistry, explains that Kallenbach’s research has broad implications for how soil is managed for various crops.

Researchers Receive Grant to Study Declining N.H. Moose Population
http://www.unh.edu/unhtoday/tick-tick-moose
http://www.unh.edu/campusjournal/2013/10/researchers-receive-grant-study-declining-nh-moose-population

In 1996, more than 7,600 moose roamed New Hampshire’s northern woods and mountains, but in 2013, the estimated population was 4,400. UNH professor of wildlife biology Peter Pekins says, “We think it’s probably a combination of parasites and diseases.” UNH researchers suspect that climate change – winter arriving later and snow melting earlier – is allowing winter ticks to thrive, causing increased anemia, more blood and hair loss, and decreased ability to reproduce in the moose that host them. In partnership with N.H. Fish and Game, Pekins is leading a new study that will track up to 100 calves and adult female moose over the next two years to learn why the population size is decreasing.
Researching Soil Hydrogen Dynamics in Subarctic Sweden
http://www.unh.edu/inquiryjournal/spring-2013/researching-soil-hydrogen-dynamics-subarctic-sweden

Victoria Ward ’13 spent the summer of 2013 conducting a research project in Sweden with research teams from the United States, Britain, Bangladesh, Spain, Russia, and Germany. Ward analyzed the behavior of soil hydrogen in response to rain events and presented her findings at the 2013 American Geophysical Union Fall Meeting in San Francisco. Ward is pictured, second from left, by the Abisko River gorge in Sweden with other Northern Ecosystems Research for Undergraduates (NERU) students.

Sampling Soil from Farther Afield
http://colsa.unh.edu/article/spring-2013/sampling-soil-farther-afield

Michael Cassaza ’13, an environmental conservation studies major, was a recipient of an International Research Opportunities Program Fellowship in 2013 that allowed him to spend nine weeks doing research in Uganda. Working with post-doctoral researcher Lisa Tiemann and a lab group led by assistant professor of soil biogeochemistry Stuart Grandy, Cassaza spent the summer researching Uganda’s insecure food supply, which is caused by rising population and decreasing soil fertility.

Saving Money and Time with Tablets
http://extension.unh.edu/articles/Saving-Money-and-Time-Tablets

Cheryl Smith, UNH Cooperative Extension plant health specialist, and Brian Krug, Extension greenhouse and floriculture specialist, were awarded a grant by the N.H. Department of Agriculture, Markets & Food to provide iPad® tablets to Extension food and agriculture field specialists. The tablets will allow field staff to have information available at their fingertips. This will give them the ability to diagnose plant health problems more quickly, whether the plant is growing in a nursery, greenhouse, or farm. Smith and Krug also use the tablets to communicate via Skype with other field specialists and growers to ask questions while examining the plants in real time.

Snake Whisperers
http://www.unh.edu/unhtoday/2013/01/snake-whisperers

Loren Valliere, a 2011 UNH environmental biology graduate, and Brendan Clifford, a 2005 UNH wildlife management graduate, are working as part of a research team in the Nongame and Endangered Wildlife Program of the New Hampshire Fish and Game Department. Their project focuses on a novel study of black racer snake habitat usage in New Hampshire. Black racers were listed on New Hampshire’s list of endangered species in 2008.

Valliere listens for a “beep” from her receiver that will tell her she’s getting closer to one of the black racers in the study. Credit: UNH Today
Stacia Sower: From Lampreys to Legend, A New Chapter in Neuroscience

Stacia Sower, Director of the Center for Molecular and Comparative Endocrinology at UNH, professor of biochemistry, and 30-year faculty member at UNH, studies lampreys, a species “around long before the dinosaurs.” Lampreys are the most basal vertebrates, which allows her to look at the “basic plan” of the molecular control of reproduction common to all vertebrates. Recently named as a prestigious American Association for Advancement of Science Fellow, her current research focuses on discovering how neurohormones act to control metabolism and metabolism development.

Subhash C. Minocha, Professor of Biological Sciences and Genetics – Jordan
http://unh.edu/cie/subhash-minocha

Professor of biological sciences and genetics Subhash C. Minocha travelled to Jordan to give lectures, facilitate discussions, and share his research and information about UNH Project SMART at the King’s Academy and the University of Jordan. His general lecture, “Biotechnology – Opportunities and Challenges,” was presented to the entire School Assembly at the King’s Academy, more than 400 students, professors, and researchers. Project SMART (Science and Mathematics Achievement through Research Training) is a UNH summer institute for rising high school juniors and seniors.

Taking it to the Bank
http://colsa.unh.edu/article/spring-2013/taking-it-bank

Students in Estelle Hrabak’s Genetics Lab course receive hands-on research experience isolating specific genes for DNA sequencing. In addition to learning real-world research techniques, the students are working to generate the first-ever DNA sequences for watermelon, dill, basil, and mustard plants grown from seed to include in the GenBank database. Pictured at right, Alexis Reddel ’15 examines a petri plate containing an isolation streak of E. coli.

The Bees and Dinosaurs Connection – Both Went Extinct 65 Million Years Ago
http://www.unh.edu/unhtoday/bees
http://www.unh.edu/news/releases/2013/10/bp24bees.cfm#ixzz2pv82sPVz

Working in collaboration with two scientists from Australia, assistant professor of biological sciences Sandra Rehan was the first to document an extinction of bees that occurred during the event that resulted in the loss of dinosaurs and many flowering species. Rehan explained that “understanding extinction and the effects of declines in the past can help us understand the pollinator decline and the global crisis in pollinators today.”
The Evolution of Teaching
http://colsa.unh.edu/article/fall-2013/evolution-teaching

Matt MacManes, an evolutionary biologist who works at the intersection of genomics, field biology, and evolutionary biology, is the first of five new scientists with a background in genomics that will be joining the faculty of the College of Life Sciences and Agriculture (COLSA). Jon Wraith, COLSA dean, said that the new faculty from the genome-enabled biology cluster hire will “significantly increase our abilities to address student enrollment demands, build upon [UNH] research excellence, and enhance our services to the institution, profession, and stakeholders.”

The Great (Yellow and White) Pumpkin - Brent Loy Breeds Two New Varieties
http://www.unh.edu/unhtoday/2013/10/great-pumpkin
http://www.unh.edu/campusjournal/2013/10/great-yellow-and-white-pumpkin

Brent Loy, professor of plant biology and genetics, has conducted research at UNH for 45 years. During that time, he has developed over 60 kinds of plants that have been licensed to commercial seed companies by the University. Loy’s plant breeding expertise lies in melons, winter and summer squash, ornamental pumpkins, and gourds. Loy’s white pumpkin, Moonshine, began selling in seed catalogs about two years ago, and his jack-o-lantern Sunlight will appear soon.

The Macfarlane Greenhouse Facility
http://colsa.unh.edu/article/fall-2013/macfarlane-greenhouse-facility

Research at the Greenhouse includes a project in collaboration with the Universities of Maine and Vermont to assess the potential for the emergence of new cropland weeds in northern New England as a consequence of climate change, as well as Brent Loy’s ongoing experiments with the breeding and genetics of cucurbits and tomatoes. In the spring, the Greenhouse collaborated with Strawberry Banke’s Curator of Historic Landscapes, John Forti, to grow a variety of heirloom ornamental and vegetable plants for use in the museum’s gardens.

Third Annual New England Food Summit Convenes in Maine
http://us1.campaign-archive1.com/?u=f961de241c3cfb5cbfc3ddf440&id=e906f10ac2&e=UNIQID

Delegates from UNH joined others from across New England in Portland, Maine for the third annual New England Food Summit. Convened by Food Solutions New England, the summits are designed to build upon ongoing regional efforts and to clarify regional priorities and action items that states can effectively undertake together.
UNH Greenhouses Get Top Grade for Sustainability
http://colsa.unh.edu/article/spring-2013/putting-green-greenhouse
http://www.unh.edu/news/releases/2013/11/bp06sustainable.cfm
http://www.unh.edu/campusjournal/2013/11/unh-greenhouses-get-top-grade-sustainability

The Macfarlane Greenhouse Facility received an “A” in sustainability by the Milieu Project Sierkeelt (MPS) Group of the Netherlands. The Greenhouse is the first teaching and research greenhouse in the world to participate in the certification program. The MPS program assesses energy, water, and fertilizer use; crop protection methods; and waste management (including CO$_2$). The distinction reflects UNH leadership throughout northern New England and sets a standard for responsibility in agriculture and food production.

UNH Researcher Receives $750,000 from NSF for Ongoing Work on Lamprey Hormones
http://www.unh.edu/news/releases/2013/aug/bp29lamprey.cfm

Stacia Sower, Director of the Center for Molecular and Comparative Endocrinology at UNH and professor of biochemistry, is the recent recipient of a rare, accomplishment-based renewal grant from the National Science Foundation (NSF). These grants are awarded only to researchers who have consistently made significant contributions to their fields over the course of their careers. The award also acknowledges her past productivity, evidenced by 170 publications and continuous NSF support since 1986. The grant will fund Sower’s research of reproductive hormones in the sea lamprey, one of the oldest lineages of vertebrates.

UNH Researchers Contribute to First Sequence of Lamprey Genome
http://www.unh.edu/campusjournal/2013/02/unh-researchers-contribute-first-sequence-lamprey-genome

Professor of biochemistry Stacia Sower and colleagues in the UNH Center of Molecular and Comparative Endocrinology contributed to the sequencing of the sea lamprey genome. Their work suggests an evolutionary connection between the sea lamprey—a jawless, fish-like parasite with a tooth-lined suction cup for a mouth—and humans. This breakthrough in vertebrate evolution was reported in a 2013 issue of *Nature Genetics*.

UNH Researchers Develop Drones for Orchard Management
http://www.unh.edu/news/releases/2013/11/bp13applescab.cfm
http://www.unh.edu/campusjournal/2013/11/researchers-develop-drones-orchard-management

Assistant professor of plant pathology Kirk Broders and Ph.D. student Matt Wallhead are bringing precision agriculture to New England orchard management by creating a financially efficient unmanned aerial vehicle (UAV). The UAV is equipped with a camera, GPS, and infrared technology, which will enable researchers to see early pests, nutrient stress, and infections affecting crops.
UNH Student Receives Prestigious American Cancer Society Fellowship

http://www.unh.edu/campusjournal/2013/04/unh-student-receives-prestigious-american-cancer-society-fellowship

Jenny Jing ’13, a biomedical sciences major and Honors Program senior, was selected as an Alvan T. – Viola D. Fuller Junior Research Fellow by the American Cancer Society. The Fuller Fellowships offer undergraduate students from New England an opportunity to participate for ten weeks during the summer in laboratories conducting cancer research. During the summer of 2013, Jing worked in the Massachusetts General Hospital lab of Harvard University pathology professor Andrea McClatchey.

UNH, UC Davis Launch Network to Study Environmental Microbes

http://www.unh.edu/news/releases/2013/11/bp07microbes.cfm#ixzz2pvE96bpw
http://www.unh.edu/campusjournal/2013/11/unh-uc-davis-launch-network-study-environmental-microbes

Scientists at UNH and the University of California, Davis received a $500,000 grant from the National Science Foundation to create a Research Coordination Network on microbial biodiversity. Their work will utilize novel genome sequencing technology to study and classify eukaryote species such as fungi, single-celled animals, and marine nematodes (pictured at left), an abundant yet largely unknown category of organisms. W. Kelley Thomas, Hubbard Professor in Genomics and director of UNH’s Hubbard Center for Genome Studies, is co-principal investigator on this research that will lead to a better understanding of the vital functions these organisms play in the environment.

What Is There to Lose?

http://unh.edu/cie/newsletter/2013/spring/uganda-tiemann.html

Lisa Tiemann, a post-doctoral researcher and soil biogeochemist, spent the summer of 2013 collecting soil samples from 150 sites around Kibale National Park in Uganda. She is collaborating with UNH agroecologist Stuart Grandy and geographer Joel Hartter to conduct preliminary research for Uganda’s implementation of a healthy soil fertility management strategy that aims to prevent wide scale food insecurity in the densely populated country. Her research is supported by a three-year fellowship from the National Science Foundation’s Science, Engineering, and Education for Sustainability program.

Wildflower Guide Now Available Online

http://extension.unh.edu/articles/Wildflower-Guide-Now-Available-Online

Cathy Neal, UNH Cooperative Extension nursery and landscape horticulture specialist, and Amy Douglas-Papineau, a research assistant, are studying wildflower meadow establishment. They have created an online resource and photo guide for native wildflowers, from seedling stage to mature plants. The New Hampshire Plant Growers Association Horticulture Endowment Fund provided initial funding for the research, and further funding has been provided by New England Grows and the UNH College of Life Sciences and Agriculture through the Anna and Raymond C. Tuttle Environmental Horticulture Fund.
Woodman Farm
http://colsa.unh.edu/article/fall-2013/woodman-farm

The variety of research projects at the Woodman Farm reflects the breadth of interests of UNH faculty. In 2013, a hardy kiwi breeding project was started. At the same time, scientists and students continued studies of bitter rot and apple scab, made advancements in strawberry genetics and plant breeding, carried out a peach tree pruning experiment, and researched greenhouse salad greens in collaboration with the New Hampshire Department of Agriculture, Markets, and Food. The Woodman Farm also is a regular host to tours for University classes as well as local and regional schools.
Business & Technology

2013 High School Summer Internship Program
http://www.unh.edu/research/sites/unh.edu.research/files/docs/RES_AREAS/Digest_13/B%26T_%20IOL_High_School_Summer_Internship_Program.pdf

During the summer of 2013, high school interns at the UNH InterOperability Laboratory worked together to create the UNH-IOL mobile website. UNH alumni from Coder Den provided invaluable expertise as project mentors for the interns. Other program sponsors whose donations made the internship program possible were Enterasys, CATechnologies, Liberty Mutual Insurance, and QA Cafe.

2013 NSF Graduate Research Fellowship Program (GRFP)
http://www.unh.edu/research/sites/unh.edu.research/files/docs/RES_AREAS/Digest_13/B%26T_IOL_2013_NSFRF.pdf

Patrick MacArthur of the UNH InterOperability Laboratory has received a prestigious National Science Foundation Graduate Research Fellowship. The award will provide him with support to pursue a Ph.D. in computer science. Patrick plans to continue his research on high performance networks, studying the use of RDMA to transfer large amounts of data between geographically distributed sites with the goal of making the transfers much more efficient.

AIRMAR Awarded Technology Innovation Grant to Develop a Portable Lightning Sensor
http://www.unh.edu/news/releases/2013/aug/gs21nhirc.cfm

AIRMAR Technology Corporation, a Milford-based manufacturer of electronic sensors, is collaborating with Plymouth State University professor of meteorology James Koermer to prove the viability and effectiveness of a portable lightning sensor that would accurately detect and measure the lightning type, direction, and range of an atmospheric lightning event. The collaboration is made possible by a Granite State Technology Innovation Grant from the NH Innovation Research Center (NHIRC). The NHIRC, based at UNH and administered by UNH Innovation, was created in 1991 by the New Hampshire Legislature to support innovations through industry and university collaborations, thereby increasing the number of quality jobs in the state.

An Increase in the Minimum Wage Won’t Benefit Everyone Equally, New Research from UNH’s Carsey Institute Finds
http://unh.edu/news/releases/2013/jun/em18carsey.cfm
http://www.unh.edu/campusjournal/2013/06/increase-minimum-wage-won%E2%80%99t-benefit-everyone-equally-new-research

Jessica Carson, vulnerable families researcher at the Carsey Institute at UNH, found that the proposed minimum wage increase would not benefit everyone equally. Her research suggested that the increase would disproportionately benefit hourly workers who are young, less educated, nonwhite, female, and never married.
Attention, Capital-Hungry Entrepreneurs: New UNH Research Can Help ‘Show You the Money’
http://www.unh.edu/news/releases/2013/jun/lw12money.cfm

Researchers in the UNH Peter T. Paul College of Business and Economics have found that entrepreneurs who avoid changes in their workforce and revenues are more likely to obtain funding. They also found that certain types of companies can improve their creditworthiness by securing diverse sources of financing. Members of the research team included Devkamal Dutta, assistant professor of strategic management and entrepreneurship; Jeffrey Sohl, professor of entrepreneurship and director of the UNH Center for Venture Research; and Tevfik Aktekin, assistant professor of decision sciences.

Carsey Institute: Part-Time Workers Still Struggling to Find Full-Time Work
http://www.unh.edu/news/releases/2013/jul/lw23carsey.cfm

Rebecca Glauber, assistant professor of sociology and faculty fellow in the Carsey Institute at UNH, found that American workers in involuntary part-time positions are still struggling to find full-time work in the aftermath of the recent recession. They also are more likely than full-time employees to be living in poverty. In addition, Glauber found that while the overall rate of unemployment has decreased since 2010, the number of individuals in involuntary part-time positions has remained constant.

ECOCat Vehicle Selection Calculator Released
http://www.unh.edu/campusjournal/2013/05/ecocat-vehicle-selection-calculator-released

In 2013, the 300-plus transit and non-transit vehicles on UNH’s campus traveled a total of 1.6 million miles, cost more than $624,000 in fuel expenses, and emitted 1,500 tons of carbon dioxide. The ECOCat Vehicle Selection Calculator, which compares vehicle price, miles per gallon, greenhouse gas emissions, and environmental costs for a vehicle’s full life cycle, will help UNH departments and offices choose fiscally and environmentally wise vehicles when replacing the ones now in use.

Entitlement-Minded Workers More Likely to Claim Bosses Mistreat Them, New UNH Research Shows
http://www.unh.edu/campusjournal/2013/09/entitlement-minded-workers-more-likely-claim-bosses-mistreat-them-new-unh-research-shows

Paul Harvey, associate professor of organizational behavior at UNH, collaborated with researchers from across the country and Australia to find that workers with a high sense of entitlement are more likely to make claims of mistreatment from their bosses than employees with a lesser sense of entitlement. Harvey explained that workers with a higher sense of entitlement have an unjustified positive self-perception, are less willing to accept criticism, and believe they are more deserving of praise and rewards than their peers.
From Islamic Banking in Egypt to SME Development and Microfinance in Jordan
http://www.unh.edu/cie/newsletter/2013/fall/perea.html

With the support of a grant from the International Research Opportunity Program, economics and political science major Austin Perea ’13 went to Egypt and Jordan to learn about Islamic banking and microfinance. Although his trip was cut short due to the volatile political climate in Egypt, the experience fueled Perea’s passion to continue studying Arabic and business. He hopes to visit the Middle East again.

Innovation Award Used for Clinical Evaluation of Pump Prototype for Cardiopulmonary Bypass

Design Mentor, Inc., a Pelham-based developer of medical devices for Fortune 100 Med-Tech companies, has collaborated with Dartmouth College to test their patented pulsatile pressure cardiac pump, VentriFlo™. Unlike the existing continuous flow pumping processes, the VentriFlo mimics the physiological flow of blood from the human heart. A Granite State Technology Innovation Grant from the NH Innovation Research Center (NHIRC) is supporting the collaboration. The NHIRC, based at UNH and administered by UNH Innovation, was created in 1991 by the New Hampshire Legislature to support innovations through industry and university collaborations, thereby increasing the number of quality jobs in the state.

Innovation Award Yields New Materials for Efficient and Cost-Effective Solar Energy Panels

Conductive Compounds Inc. (CCI), a manufacturer of specialty conductive inks, completed a two-year project in collaboration with Dale Barkey, chemical engineering professor at UNH. The project focused on the development of stable, cost effective metal particles that can create more conductive solar energy panels and increase efficiency in other print applications. The project, which provided four UNH engineering students with a real-world research experience, was funded by a NH Innovation Research Center (NHIRC) Innovation Grant matched by Conductive Compounds and federal National Science Foundation EPSCoR funds.

Institute of Museum and Library Services Grant Will Help Build PLACE
http://www.unh.edu/campusjournal/2013/11/institute-museum-and-library-services-grant-will-help-build-place

The UNH Library partnered with the Earth Systems Research Center of UNH’s Institute for the Study of Earth, Oceans, and Space to secure a grant of $474,156 from the Institute for Museum and Library Services. The funds will be used to build PLACE, a position-based location archive coordinate explorer. PLACE is a geospatial search interface that will enable the general public to have easier access to information that is difficult to locate with text-based searching. The PLACE project represents the next step in the UNH Library’s long-standing goal of providing maps, atlases, air photos, and guidebooks online while collaborating with new partners and contributing the resulting work to the library community.
International Delegations Learn About UNH’s Green Launching Pad
http://www.unh.edu/unhtoday/green-launching-pad%20
http://www.unh.edu/campusjournal/2013/07/international-delegations-learn-about-unh%E2%80%99s-green-launching-pad

Two delegations of visitors, one from Japan and another from Israel and the Palestinian Territories, traveled to UNH to learn about the Green Launching Pad and New Hampshire’s green innovation efforts. The Green Launching Pad is a partnership between UNH and the New Hampshire Office of Energy and Planning to create energy-related jobs in the state. It focuses on connecting entrepreneurs and private industry with faculty, students, and state-level resources to start and increase the growth of new, green businesses in New Hampshire.

Making Connections With the InterOperability Lab - 25 Years of Technological Testing and Training Future Generations of Engineers
http://www.unh.edu/unhtoday/interoperability-lab
http://www.unh.edu/news/releases/2013/sep/bp03iol.cfm

In October of 2013, the UNH InterOperability Laboratory (UNH-IOL) celebrated 25 years as a leading independent test site for new technologies and a unique training ground for future engineers. The celebration included interactive demonstrations, tours, and networking with industry leaders, UNH-IOL alumni, and current students. Unique in its dual mission, the UNH-IOL provides independent, neutral, confidential testing of new technology for interoperability for hundreds of member companies while giving more than 100 undergraduate and graduate students each year hands-on experience with developing technologies.

Neighboring States Seek Geospatial Smarts
http://extension.unh.edu/articles/Neighboring-States-Seek-Geospatial-Smarts

Increasingly, Shane Bradt, UNH Cooperative Extension state specialist in geospatial technologies, has been sought out by organizations in neighboring states that need training in his area of expertise. In 2013, Bradt trained professionals at Vermont’s Center for Geographic Information, taught GIS 101 to Massachusetts-based conservation professionals at an event sponsored by the New England chapter of URISA (a professional association for those in the GIS field), and presented at a New England URISA event for New Hampshire and Vermont-based GIS professionals held at Dartmouth College in the spring. The U.S. Department of Labor’s Employment and Training Administration lists geospatial technology as a “high growth industry” and says that “training in geospatial applications...is essential to developing the necessary pipeline of skilled workers.”
‘New Hampshire Inspires Innovation’ Hosts Workshop for Science & Tech Companies to Learn About Federal Funding
http://www.unh.edu/news/releases/2013/feb/lw28sbdc.cfm

New Hampshire Inspires Innovation offered a “Small Business Innovation Research National Science Foundation Proposal Workshop” for new science and technology companies that would benefit from additional information about the federal Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) programs. New Hampshire Inspires Innovation is a collaboration between UNH Innovation and the NH Small Business Development Center, which is based in the Peter T. Paul College of Business and Economics. NH Inspires Innovation provides grant information and advice to New Hampshire companies and increases opportunities for the growth of federally- and state-funded research partnerships.

New Tech Center Offers Cutting-Edge Opportunities
http://manchester.unh.edu/blog/campus-news/new-tech-center-offers-cutting-edge-opportunities
http://www.unh.edu/unhtoday/2013/03/new-tech-center-offers-cutting-edge-opportunities

The Emerging Technology Center (ETC) at UNH Manchester is a cutting-edge resource for businesses and academics to collaborate together on technology projects. It connects students and businesses, offering students the chance to work on real world projects that will benefit the Manchester community. The ETC, located in the newly renovated Pandora Mill, will support advancement in education and technology with the help of a three-year, $125,000 commitment from Manchester-based Dyn and its philanthropic entity, DynCares. Dyn is the worldwide leader in Internet performance solutions, specializing in traffic management, message management, and performance assurance.

Paul Bengal to Lead UNH’s Emerging Technology Center
http://manchester.unh.edu/blog/campus-news/paul-bengal-lead-unh-s-emerging-technology-center

In February 2013, Paul Bengal became the Director of the Emerging Technology Center at UNH Manchester. Bengal believes the Center is in a unique position to respond to the current industry trend of increased outsourcing by offering advanced student skills in software development and other areas of technology while also creating an innovative model for higher education. Bengal comes to the position with a varied background of experience in industry, teaching, and community service.

Paul College Launches Innovation Lab for Rapid Prototyping of New Products
http://www.unh.edu/news/releases/2013/10/lw23innovationlab.cfm#ixzz2pv7TYea4
http://www.unh.edu/campusjournal/2013/10/paul-college-launches-innovation-lab-rapid-prototyping-new-products

In the fall of 2013, UNH’s Peter T. Paul College of Business and Economics launched the Innovation Lab. The lab will enable students to rapidly prototype new products with a 3D printer and 3D image scanning system. Venky Venkatachalam, professor of information systems and associate dean of academic programs at Paul College, said, “The new Innovation Lab gives students a complete experience, starting from a concept and translating that creative idea into a product prototype.” Support for the Lab has been provided by Borealis Ventures, New Hampshire’s largest venture capital firm, and Unitil, a public utility holding company with operations in Maine, New Hampshire, and Massachusetts.
Paul College Professor Helps Out IMF's Fiscal Affairs Department
http://www.unh.edu/unhtoday/2013/02/paul-college-professor-helps-out-imfs-fiscal-affairs-department

The International Monetary Fund (IMF) has appointed John Hasseldine, associate professor of accounting and finance at the UNH Peter T. Paul College of Business and Economics, as an external fiscal expert. Hasseldine has assisted with the IMF’s work on developing a model and estimating the tax gap for the Value Added Tax (VAT) for member countries.

Rural Workers More Likely to Work at Middle-Skill Jobs
http://www.unh.edu/news/releases/2013/jun/lw11carsey.cfm

Research by Justin Young, a doctoral student in sociology and a research assistant in the Carsey Institute at UNH, showed that rural workers are more likely than their urban counterparts to work at middle-skill jobs that do not require a four-year college degree. Middle-skill jobs are positions requiring at least some on-the-job training, an apprenticeship, or post-secondary education that requires no more than a two-year degree.

Scientists Develop New Use for Sonar Technology During Deepwater Horizon Spill
http://www.unh.edu/unhtoday/2013/01/scientists-develop-new-use-sonar-technology-during-deepwater-horizon-spill

In a special edition of the journal Proceedings of the National Academies of Science about the 2010 Deep Water Horizon oil spill, an article co-authored by UNH researchers Larry Mayer and Tom Weber describes the various approaches of safely shutting the Macondo Well. Working with U.S. Geological Service staff and other researchers, Mayer and Weber – director and assistant professor, respectively, in UNH’s Center for Coastal and Ocean Mapping – confirmed that the sonar technology they developed for sea floor mapping can detect seeps of gas in the water column. They also found that the well was not leaking after it had been capped.

Acoustic backscatter suggesting a small amount of gas was leaking from an old wellhead several kilometers from the Macondo Well. This technique then was used to determine that the Macondo Well was shut down successfully.
Credit: UNH Center for Coastal and Ocean Mapping
Shane Bradt Named To Boards of Two Organizations
http://extension.unh.edu/articles/Shane-Bradt-Named-Boards-Two-Organizations

Shane Bradt, UNH Cooperative Extension geospatial technologies specialist, was named to the New Hampshire Lakes Management Advisory Committee (LMAC) and the board of the Northeast Arc Users Group (NEARC). New Hampshire Governor Maggie Hassan nominated Bradt and the Governor’s Executive Council recently confirmed his appointment to the LMAC, which advises the New Hampshire Department of Environmental Services on how to carry out the Lakes Management and Protection program. The NEARC is an organization dedicated to helping users of Esri GIS software become more successful.

Social Business Innovation Challenge Winners Announced
http://www.unh.edu/news/releases/2013/sep/lw30yunus.cfm#ixzz2pv538R2T
http://www.unh.edu/campusjournal/2013/10/social-business-innovation-challenge-winners-announced

The UNH student team “PLAN: The Post-Landfill Action Network” won the first New Hampshire statewide Social Business Innovation Challenge. The students proposed to reduce the amount of reusable items that end up in landfills. Muhammad Yunus, Nobel Laureate and pioneer of the microfinance industry, presented the team with its award and gave the keynote address at the statewide New Hampshire Social Business and Microfinance Forum. The events were hosted by UNH and organized by the Peter T. Paul College of Business and Economics, the Carsey Institute at UNH, and the New Hampshire Community Loan Fund.

Student Project Tracks Building Efficiency with Twitter
http://www.unh.edu/news/releases/2013/apr/bp02twitter.cfm

A student project, “Tweeting (Dis)comfort,” is engaging students to use Twitter to tweet about classrooms and buildings that they find uncomfortably hot or cold. Civil engineering student Alex Wells ’14 is tracking the tweets throughout the fall and spring semesters to find patterns within buildings and will then present the results to the UNH energy office. Matt O’Keefe, campus energy manager, says, “The findings will most likely tell us that a system has failed...the hope is that the information will support the need for repair to areas that repeatedly cause discomfort.”

Sustainable Growth Takes Hold in U.S. Angel Investor Market, UNH Center for Venture Research Finds
http://www.unh.edu/news/releases/2013/10/lw16angel.cfm#ixzz2pv6jK1xG
http://www.unh.edu/campusjournal/2013/10/sustainable-growth-takes-hold-us-angel-investor-market-center-venture-research-finds

New data from the UNH Center for Venture Research shows sustainable growth during the first two quarters of 2013, with a 5.2 percent investment increase compared to the same period in 2012. Angel investments created 111,500 new jobs in the United States during the first half of 2013 and continue to be a significant contributor to job growth.
Tablet Computer Stand from UNH “MacGyver” Gets University’s First Design Patent

http://www.unh.edu/news/releases/2013/may/bp22tablet.cfm
http://www.unh.edu/unhtoday/2013/05/tablet-computer-stand-earns-university%E2%80%99s-first-design-patent
http://www.unh.edu/campusjournal/2013/05/tablet-computer-stand-unh-%E2%80%9Cmacgyver%E2%80%9D-gets-university%E2%80%99s-first-design-patent

Theresa Willkomm, assistant professor of occupational therapy and director of ATinNH, a statewide assistive technology program housed at UNH’s Institute on Disability, has designed a portable stand with a unique feature: a flexible center stand and swivel mounting plate which allows iPads® and other tablets to be positioned at any height, angle, or distance from a user’s face. The AT Pad Stand is highly portable, unsnapping into two lightweight pieces, and demonstrates particular promise for using the iPad®’s high-quality camera at any angle, as well as for holding a book, a hairdryer, or other item for people with a range of disabilities. The AT Pad Stand received UNH’s first-ever design patent from the U.S. Patent and Trademark Office.

Credit: UNH Innovation

Taking Care of Business at UNH’s Emerging Technology Center

http://manchester.unh.edu/blog/campus-news/taking-care-business-unh-s-emerging-technology-center

The new Emerging Technology Center (ETC) at UNH Manchester is a launching pad for college students and a resource for start-ups, small businesses, and established firms that need new talent. The ETC, which is located in the 163-year-old Pandora Mill, provides students with an opportunity to gain real-world experience in the technology industry while also helping the surrounding business community.

UNH Celebrates First-in-the-State Supercomputing Capabilities – Trillian is 1,000 Times More Powerful Than a Desktop Computer

A new supercomputer, dubbed “Trillian,” will enhance the already cutting-edge physics research at UNH’s Institute for the Study of Earth, Oceans, and Space. A $534,977 grant from the Major Research Instrumentation (MRI) Program of the National Science Foundation supported the acquisition of Trillian and the related infrastructure improvements needed to house and maintain it for optimum performance. The Cray XE6m supercomputer will be at least 15 times faster and more powerful than the computer cluster it replaces. According to Joachim “Jimmy” Raeder, astrophysicist and a lead UNH scientist on the grant, having a supercomputer on campus allows for quick data processing and efficient data storage, and it provides graduate students and post-doctoral researchers with valuable hands-on experience.
UNH Celebrates Innovation; Recognizes Commercialization Success of Operation Hat Trick

http://www.unh.edu/news/releases/2013/10/em16orpc.cfm#ixzz2pv6S1yuo
http://www.unh.edu/campusjournal/2013/10/unh-celebrates-innovation-recognizes-operation-hat-trick

Senior associate athletic director for external affairs Dot Sheehan was awarded UNH’s Innovator of the Year Award in 2013 for her efforts in founding and growing Operation Hat Trick, a program started at UNH to memorialize Nate Hardy and Mike Koch, two U.S. Navy SEALs killed in Iraq in 2008. When Sheehan heard in a radio broadcast that what soldiers suffering from head wounds wanted most when they came back to the U.S. was a head covering, she set out to provide collegiate caps to these soldiers. Operation Hat Trick is now a nonprofit company that has resulted in licenses with universities around the country, minor league baseball teams, and the Boston Bruins.

UNH Celebrates Manchester’s Emerging Technology Center and FIRST® Robotics

http://manchester.unh.edu/blog/campus-news/unh-celebrates-manchester-s-emerging-technology-center-and-first-robotics

In March, UNH celebrated the opening of the Emerging Technology Center at UNH Manchester, one of UNH’s strategic efforts to address the need for more STEM (Science, Technology, Engineering, and Mathematics) graduates to meet the region’s workforce needs. The event also recognized the work of the New Hampshire-based FIRST® Robotics and the support the University has received from the organization’s founder, Dean Kamen. FIRST is an acronym for “For Inspiration and Recognition of Science and Technology,” which encapsulates the organization’s mission: “To show students of every age that science, technology, and problem-solving are not only fun and rewarding, but are proven paths to successful careers and a bright future for us all.”

UNH Center for Venture Research: Moderate Recovery Continues in 2012 for U.S. Angel Investor Market

http://www.unh.edu/news/releases/2013/apr/lw25cvr.cfm
http://www.unh.edu/campusjournal/2013/04/unh-center-venture-research-moderate-recovery-continues-2012-us-angel-investor-market

According to the 2012 Angel Market Analysis released by UNH’s Center for Venture Research, 2012’s angel investor market continued the upward trend in investment dollars and number of investments that started in 2010, albeit at a moderate pace. “The small increase in both total dollars and the number of investments resulted in a deal size for 2012 that was virtually unchanged from 2011. These data indicate that while fewer angels were active investors in 2012, those who did invest have increased their individual investments substantially in 2012,” according to Jeffrey Sohl, director of the Center, which is based in the Peter T. Paul College of Business and Economics.

UNH Economists Submit U.S. Supreme Court Brief Opposing Internet Sales Tax Effort

http://www.unh.edu/news/releases/2013/10/lw22salestax.cfm#ixzz2pv74J334
http://www.unh.edu/campusjournal/2013/10/unh-economists-submit-sales-tax-brief-us-supreme-court

Neil Niman and Richard England, two UNH economists, submitted an amicus brief to the U.S. Supreme Court which supports the efforts of Amazon.com and Overstock.com to block a New York state Internet sales tax effort. The economists believe the New York sales tax effort will dampen innovation and diminish competition and overall growth.
UNH Hosts Debt Crisis Conference in Washington, D.C.
http://www.unh.edu/news/releases/2013/11/em27law.cfm#ixzz2pVGWJeEmx
http://www.unh.edu/unhtoday/2013/12/unh-hosted-national-conference-national%E2%80%99s-debt

In December 2013, UNH hosted a conference on Capitol Hill to bring attention to the importance of slowing the growth of the nation’s debt. The conference featured Washington experts, including Congressional Budget Office Director Douglas Elmendorf and former Senate Budget Committee Chairman Kent Conrad. It was organized by UNH School of Law’s Warren B. Rudman Center for Justice, Leadership, and Public Policy and UNH’s Peter T. Paul College of Business and Economics, in partnership with The Concord Coalition, The Center for Public Integrity, and Fix the Debt. UNH Law Dean John Broderick said the conference was a “wonderful opportunity to showcase our joint capacity to convene a national forum on a topic of substantive consequence to the American people.”

UNH Hosts Statewide Social Business and Microfinance Forum; Innovation Challenge

In September 2013, UNH welcomed Nobel Laureate and pioneer of the microfinance industry Muhammad Yunus as the keynote speaker for the New Hampshire Social Business and Microfinance Forum and the first Social Business Innovation Challenge. The Challenge asked college students, community members, and social entrepreneurs from across the state to discover innovative and business savvy solutions to pressing social and environmental issues at the state, national, and global level.

UNH Launches New Organization to Accelerate Commercialization
http://www.unh.edu/news/releases/2013/10/em29innovation.cfm

UNH has created UNH Innovation to serve as “the front door to the University for our partners in the business community,” said Jan Nisbet, senior vice provost for research at UNH. “This creates a clear path into the University if you’re interested in our technology, our equipment, and our expertise.” UNH Innovation comprises licensing (what was once the University’s Office for Research Partnerships and Commercialization); services (such as the InterOperability Lab, and equipment and facilities rentals); and ventures and economic development. UNH Innovation plans to create a mentorship program and increased opportunities for students to work directly with businesses.

UNH Law Student Wins Holloway Prize Competition for Brain Aneurysm Clip
http://www.unh.edu/news/releases/2013/may/lw09holloway.cfm

Craig Litherland, a UNH School of Law student with a biomedical engineering background, won the 2013 UNH Paul J. Holloway Prize Innovation-to-Market competition for his zero artifact aneurysm clip, CranioVation. This clip will greatly reduce the cost of treating brain aneurysms and save lives. Hosted by the Peter T. Paul College of Business and Economics, the competition is the oldest business plan competition in New Hampshire and one of the first in the nation.

Credit: UNH School of Law

Credit: UNH Media Relations
UNH Lodging Executive Sentiment Index (LESI)
Produced by the Department of Hospitality Management in the Peter T. Paul College of Business and Economics, the LESI is a tool to assist lodging executives in predicting the economic future. The LESI is expected to give lodging managers an early glimpse of the direction of the overall lodging industry beyond their own properties and markets, thereby helping them in operational and planning decisions.

December 2012  UNH Lodging Index.Ticks Up
http://www.unh.edu/news/releases/2013/jan/lw24lesi.cfm

January 2013  UNH Lodging Index Continues to Climb
http://www.unh.edu/news/releases/2013/feb/lw15lesi.cfm
http://www.unh.edu/campusjournal/2013/02/unh-lodging-index-continues-climb

February 2013  U.S. Lodging Executives More Optimistic About Future
http://www.unh.edu/news/releases/2013/mar/lw18lesi.cfm
http://www.unh.edu/campusjournal/2013/03/us-lodging-executives-more-optimistic-about-future-unh-lodging-index-shows

March 2013  Lodging Executives Less Optimistic About Business Conditions
http://www.unh.edu/news/releases/2013/apr/lw22lesi.cfm
http://www.unh.edu/campusjournal/2013/04/paul-college-lodging-executives-less-optimistic-about-business-conditions-march

April 2013  UNH Lodging Executive Sentiment Index Flat
http://www.unh.edu/news/releases/2013/may/lw16lesi.cfm
http://www.unh.edu/campusjournal/2013/05/unh-lodging-executive-sentiment-index-flat-april

May 2013  Lodging Executives More Optimistic About Current Business Conditions Than Future
http://www.unh.edu/news/releases/2013/jun/lw26lesi.cfm
http://www.unh.edu/campusjournal/2013/06/unh-research-lodging-executives-more-optimistic-about-current-business-conditions-future

June 2013  LESI Falls as Present and Future Business Conditions Weaken
http://www.unh.edu/news/releases/2013/jul/lw24lesi.cfm
http://www.unh.edu/campusjournal/2013/07/unhlesi-falls-present-and-future-business-conditions-weaken

July 2013  LESI Flattens While Employment Outlook Improves
http://www.unh.edu/news/releases/2013/aug/lw22lesi.cfm
http://www.unh.edu/campusjournal/2013/08/unhlesi-flattens-while-employment-outlook-improves

August 2013  LESI Surges on Strong Business Conditions and Employment Outlook
http://www.unh.edu/news/releases/2013/sep/lw24lesi.cfm#ixzz2py3yDHgR

September 2013  Lodging Index Falls Due to Uncertainty in Nation’s Capital
http://www.unh.edu/news/releases/2013/10/lw25lesi.cfm#ixzz2py8Mz3Sy
http://www.unh.edu/campusjournal/2013/10/unh-lodging-index-falls-due-uncertainty-nation%E2%80%99s-capital

October 2013  Lodging Index Continues its Slide
http://www.unh.edu/news/releases/2013/11/lw26lesi.cfm
http://www.unh.edu/campusjournal/2013/11/unh-lodging-index-continues-its-slide
November 2013  
LESI Increases Despite Flat Future Outlook
http://www.unh.edu/news/releases/2013/12/lw18lesi.cfm
http://www.unh.edu/campusjournal/2013/12/unh-lesi-increases-despite-flat-future-outlook

UNH Manchester Receives $750,000 from NSF for Computing Education for High School Students
http://www.unh.edu/campusjournal/2013/09/unh-manchester-receives-750000-nsf-computing-education-high-school-students

UNH has been awarded a $750,000 five-year grant from the National Science Foundation’s EPSCoR program to develop a pilot project for students in the state’s Career and Technical Education (CTE) centers. In partnership with UNH Cooperative Extension and the New Hampshire Department of Education, “The Ecosystem Computing Challenge: Partnership Model to Build Access to Relevant Computing Education for Underrepresented High School Students” will be led by Mihaela Sabin, associate professor of computer science in the computing technology program at UNH Manchester, the University’s urban campus. Students will monitor, map, and gain an understanding of New Hampshire’s natural ecosystems. They also will create their own mobile apps, learning important science, technology, engineering, and math skills in the process. Extension staff will help connect industry professionals to the classrooms so students can gain the professionals’ perspectives while hearing and seeing firsthand how technological innovations come to life.

UNH Showcases Technologies for Innovators and Investors at Tech Summit
http://www.unh.edu/campusjournal/2013/05/unh-showcases-technologies-innovators-and-investors-tech-summit

In May, UNH presented technologies developed at the University to some of the world’s leading innovators and investors at the TechConnect WORLD Summit in Washington D.C. Representatives from the Office for Research Partnerships and Commercialization showcased three technologies: NSPECT, a portable neutron and gamma-ray imaging spectrometer developed by James Ryan, professor in the Space Science Center at the UNH Institute for the Study of Earth, Oceans, and Space; ERMA®, a Web-based data visualization program originally developed for monitoring environmental disasters by professor of civil and environmental engineering Nancy Kinner in partnership with UNH Research Computing and Instrumentation and the National Oceanic and Atmospheric Administration; and high-performance organic semiconductors for flexible electronics, developed by Glen Miller, professor of chemistry and director of the UNH materials science program.

Venky Venkatachalam – Helping Small Businesses Profit

Venky Venkatachalam, professor of information systems in the Peter T. Paul College of Business and Economics, created the Angel Capital Electronic Network (ACE-Net) in the mid-nineties to address the needs of small businesses. He also developed PRONet, a program used by the U.S. Department of Defense to assist the more than 195,000 small businesses seeking procurement opportunities. Currently, he is working on The Green Launching Pad, a program that will improve New Hampshire’s economy and environment by fostering green entrepreneurship that connects businesses, faculty members, and students at UNH and across the state.
Wake-Up Call
http://unhmagazine.unh.edu/sp13/wakup.html

Shaojun Yao ‘12G was a chemistry doctoral student also working toward his MBA when he developed a "smart" hydrogel that, on contact with the skin, releases aromatic oils that increase alertness. Wakeup, a patent-pending, anti-fatigue, time-release gel, comes in a small tube that can be wiped under the nose to deliver a minty aromatic pick-me-up that lasts up to an hour. His idea has flourished into a start-up company, Wakeup Inc., which is raising capital and hoping to have the product available soon for sale by gas stations and convenience stores.

Wendy’s Surge Boosts UNH Franchising Index in Q3 2013
http://www.unh.edu/news/releases/2013/11/lw06wendy.cfm#ixzz2pvDY7iBt
http://www.unh.edu/campusjournal/2013/11/wendy%E2%80%99s-surge-boosts-unh-franchising-index-q3-2013

UNH’s Rosenberg Center’s Franchise 50 Index tracks publicly traded companies in the U.S. engaged in business format franchising. The RCF 50 Index rose 2.2 percent in the third quarter of 2013, boosted by a strong performance from Wendy’s. According to Hachemi Aliouche, co-director of the Rosenberg International Franchise Center at the UNH Peter T. Paul College of Business and Economics, thirty six components of the RCF 50 Index made positive gains in the quarter, while 14 lost value.

With Mosaic Parcel Map, UNH Helps State Agencies Work Smarter
http://www.unh.edu/unhtoday/2013/01/mosaic-parcel-map-unh-helps-state-agencies-work-smarter

The Mosaic Parcel Map, a project of UNH’s Technology Transfer Center (T2), combines the tax maps of all of New Hampshire’s 234 cities and 22 unincorporated areas to create the first sustainable statewide parcel map in the United States. By knitting all the property maps into one digital file, the Mosaic Parcel Map will provide quick access to the essential information gleaned from towns’ computer assisted mass appraisal (CAMA) systems (e.g., property location and boundaries, ownership, date of sale, land area, building area, and land and building assessments). This will enable state officials to assess damage totals in the aftermath of disasters quickly and efficiently. According to UNH professor of civil engineering Charles Goodspeed, director of T2, the map is the result of nearly two decades of work in partnership with New Hampshire’s Department of Revenue Administration.
Engineering & Physical Sciences

Back to the Future – Climate Modeler Matthew Huber Peers into the "Deep Time" of Earth's Past to See What Might Lie Ahead
http://www.unh.edu/unhtoday/2013/11/back-future
http://www.eos.unh.edu/Spheres_1113/huber.shtml

Matthew Huber joined the UNH Earth Systems Research Center and the department of earth sciences in the fall of 2013, bringing with him an international reputation for his work studying the Earth's past warm climates and other skills that will allow him to collaborate with UNH researchers and other scientists around New Hampshire. Huber uses large-scale, supercomputer mathematical modeling to understand the deep-time of Earth's climate history and what it might mean for future climate change. He believes, “our understanding of modern and future climate is only as secure as our understanding of past climate.”

Big Things Have Small Beginnings
http://www.unh.edu/unhtoday/2013/05/big-things-have-small-beginnings

Emily Wong ’14 and Logan Mower ’14 were the first participants in what chemical engineering professor Xiaowei Teng hopes is a new tradition of collaborative undergraduate research at the Brookhaven National Laboratory in Upton, NY. Wong and Mower are working with Teng and his collaborator, Anatoly Frenkel of Yeshiva University, on a project studying ways to use nanocatalysts – tiny particles that jump-start chemical reactions – to make more efficient ethanol fuel cells. Wong, Mower, and Teng met Frenkel and five of his undergraduate students at Brookhaven to take advantage of the unique modeling capacity available at the U.S. Department of Energy-supported laboratory. Wong, a chemical engineering major, said that the trip was a “huge opportunity” to see practical applications of theories she’d learned in the classroom.

College Receives Funding for Engineering Technology Laboratory
http://manchester.unh.edu/blog/campus-news/college-receives-funding-engineering-technology-laboratory

The University of New Hampshire at Manchester received a $75,000 donation from a private foundation to build and equip an Engineering Technology Laboratory. Scheduled to open in the fall of 2014, the Engineering Technology Laboratory will transform the learning experience of students in UNH Manchester’s Electrical Engineering Technology and Mechanical Engineering Technology programs. The Engineering Technology Laboratory will be located in the UNH STEM Discovery Lab in the historic Pandora Mill.

Erin Bell, Bridge Doctor
http://www.unh.edu/campusjournal/2013/02/research-profile-erin-bell-bridge-doctor

Erin Bell, associate professor of civil engineering, is a bridge doctor. Or rather, she works to develop the tools needed to monitor the “health” of bridges. These tools include bridge sensors that use a variety of factors to detect problems, where pure visual assessment has been used in the past. Bell is interested in using these and other elements of intelligent infrastructure to protect and maintain existing bridges and to design new ones.
From Hydrophones to Drones
http://www.eos.unh.edu/Spheres_1113/abisko.shtml

Unique methodology developed by UNH Earth Systems Research Center scientists Ruth Varner and Michael Palace is now a core component of two Sweden-based climate change projects headed up by Varner: a National Science Foundation (NSF) Research Experience for Undergraduates program and an NSF Macrosystems Biology project. The latter, larger project incorporates another novel bit of technology initiated by Palace, a camera-toting "quadcopter" that hovers and snaps infrared images of the rapidly changing Swedish peatland. Both projects involve teams of researchers and students in efforts to better quantify the contribution of methane gas to climate change.

From Manchester to the Moon
http://www.unh.edu/unhtoday/2013/05/Manchester-Moon

Since the fall of 2010, Josh Chabot ’13, Mike Johnson ’13, and Joe Kelley ’13 have been part of a team of students helping associate professor of mechanical engineering May-Win Thein create a small-scale simulation of a 12-foot-wide NASA satellite with an unusual feature: 200-foot-long flexible booms that affect the way it moves in space. Over the past two years, Chabot’s team’s work on the project – the NASA Magnetospheric MultiScale (MMS) Mission TableSat 1C – has led to the publication of two papers under Thein’s guidance, as well as presentations at NASA’s Goddard Space Flight Center in Greenbelt, Maryland, and conferences in South Carolina and Hawaii. Next, the model will be used to answer questions about the way the boomed satellite moves as it orbits the Earth – a phase of the project that will take place after Chabot, Kelley, and Johnson graduate.

Graduate Students Win Prestigious Fellowships
http://www.unh.edu/unhtoday/2013/05/graduate-students-win-prestigious-fellowships

Four UNH students have received highly competitive National Science Foundation Graduate Research Fellowships which support outstanding graduate students in science, technology, engineering and math. The winners were: Nancy Fernandes, an M.S. student in biochemistry; Patrick MacArthur, an M.S. student in computer science; and Amanda Daly and Lauren Koenig, both pursuing doctoral degrees in Natural Resources & Earth Systems Science (NRESS). Katrina Papanastassiou, an M.S. student in natural resources, was recognized with an honorable mention.

In Their Own Words - Will Clyde
http://www.unh.edu/unhtoday/William-Clyde

William Clyde, associate professor of earth sciences, is the 2013 recipient of UNH’s Outstanding Associate Professor award. Clyde has authored dozens of critically acclaimed studies, mentored hundreds of students, earned a reputation as a leading researcher in the field of paleontology, and is a leader among his peers at UNH and worldwide. In this video, Clyde takes us from the Granite State to the Grand Canyon as he and his students study the stories that rocks and fossils tell.
Joel Johnson, Associate Professor of Geology – Sweden
http://unh.edu/cie/joel-johnson

During the summer of 2013, Joel Johnson served as a research mentor and co-mentor for three undergraduate students who took part in a National Science Foundation-funded International Research Experience for Undergraduates program at the Abisko Scientific Research Station in sub-Arctic Sweden, near Lake Torneträsk. Their research focused on investigating the impacts of climate change on biogeochemical processes in northern upland and wetland ecosystems.

UNH Mathematician’s Proof Is Breakthrough Toward Centuries-Old Problem
http://www.unh.edu/news/releases/2013/may/bp16zhang.cfm
http://unhmagazine.unh.edu/f13/yitang-zhang.html
http://www.unh.edu/unhtoday/2013/05/math-lecturer-hits-prime-time
http://www.unh.edu/campusjournal/2013/05/zhang%E2%80%99s-proof-mathematical-breakthrough

A new proof by UNH mathematician Yitang “Tom” Zhang is being heralded as a breakthrough in the quest to solve one of the world’s oldest mathematical problems, one that many attribute to the Greek mathematician Euclid. The proof takes aim at what’s known as the “twin prime conjecture,” which states that there is an infinite number of prime numbers (numbers divisible only by 1 and themselves) that are only two numbers apart, such as 3 and 5 or 17 and 19. Zhang’s work, which has been described as proving a weak version of the twin prime conjecture, has been praised by other mathematicians.

Per Berglund, Professor of Physics – Germany
http://unh.edu/cie/berglund

In May 2013, Per Berglund traveled to Hamburg to visit the German Electron Synchtron (DESY), one of the world’s leading particle accelerators used to study the fundamental constituents of nature and their interactions. During his two-month stay at DESY, Berglund worked with colleagues from both DESY and the University of Hamburg, focusing on new aspects of string compactifications, a facet of string theory, a leading candidate for a unifying theory of the basic forces in nature.

Precision Racing Team Prevails at International Competition
http://www.unh.edu/unhtoday/2013/05/precision-racing-team

For a decade, UNH Precision Racing has competed in the international Formula SAE Competition, organized by the group formerly known as the Society of Automotive Engineers. The car they designed in 2013 for this engineering challenge performed better than any of UNH Precision Racing’s previous entries. Competing at the Michigan International Speedway against 120 teams from universities around the world, UNH’s Car 49 was ranked sixth for fuel efficiency, tied for 10th place in design, and came in 26th overall. Todd Gross, professor of mechanical engineering, was advisor to the team of 14 undergraduates – 12 mechanical engineering students and two electrical and computer engineering majors.
Profile in Sustainability - Dr. Alison Watts, Research Assistant Professor in Civil Engineering
http://us1.campaign-archive2.com/?u=f961de241cfb5cbfcd3dd440&id=fb65c19757

Alison Watts conducts research that helps address water-related issues on local, regional, and national scales. Her focus on stormwater management and pollution control reflects her belief that “we must balance the needs and tradeoffs of today with a future that can continue to support the human and natural systems that we value.”

Credit: The Sustainability Institute at UNH

Smart Students Study Cutting-edge Science with Project SMART
http://www.unh.edu/unhtoday/project-SMART

Project SMART (Science and Mathematics Achievement through Research Training) is a UNH summer institute that gives rising high school juniors and seniors the chance to study biotechnology or space science while getting a close-up look at the research process alongside UNH faculty. A poster session, part of the closing ceremony on the program’s final day, enabled the participants to showcase what they had learned during four intensive weeks. Dozens of relatives, friends, and UNH administrators got an overview of projects that explored scientific technologies and their impacts on society.

Credit: Julie K. Byrd-Jenkins, UNH Photographic Services

UNH Hosts Fluid Dynamics Conference

In November 2013, fifty five of the world’s leading researchers of turbulence gathered in Durham for a fluid dynamics conference organized by UNH’s integrated applied mathematics program. The conference, called “High Reynolds Number Boundary Layer Turbulence: Integrating Descriptions of Statistical Structure, Scaling and Dynamical Evolution,” also was supported by the National Science Foundation, the UNH Research Office, the College of Engineering and Physical Sciences, and the Department of Mechanical Engineering. The workshop was organized by John Gibson, assistant professor of mathematics, and Joe Klewicki, professor of mechanical engineering. In addition, the workshop organizing committee included associate professor Greg Chini, assistant professor Martin Wosnik, and associate professor Chris White, all of the mechanical engineering department.

UNH Mathematician Zhang Receives Cole, Ostrowski Prizes
http://www.unh.edu/news/releases/2013/12/bp02zhang.cfm
http://www.unh.edu/campusjournal/2013/12/zhang-receives-cole-ostrowski-prizes

Yitang “Tom” Zhang, a lecturer in mathematics at UNH, will receive the 2014 Frank Nelson Cole Prize in Number Theory from the American Mathematical Society. Presented every three years, the Cole Prize recognizes an outstanding research paper in number theory that has appeared in the preceding six years. Zhang is also the 2013 recipient of the Ostrowski Prize, awarded every other year by the Switzerland’s Ostrowski Foundation for outstanding achievements in pure mathematics.
UNH Professor Receives $750,000 in Prestigious Dept. of Energy Award
http://www.unh.edu/news/releases/2013/may/bp15teng.cfm
http://www.unh.edu/campusjournal/2013/05/unh-professor-receives-750000-prestigious-dept-energy-award

Xiaowei Teng, assistant professor of chemical engineering, has received a prestigious Early Career Research Award from the U.S. Department of Energy to pursue fundamental research that will explore possible ways to improve the ability to store energy in supercapacitors. Supercapacitors, which charge within minutes or even seconds, hold promise as an alternative ‒ or augmentation ‒ to ion batteries in electric vehicles. The award, which was one of just 61 selected from about 770 submitted proposals, will provide support for at least one Ph.D. student and five undergraduates to work with Teng. In addition, it will allow for the purchase of supplies and equipment for his lab, and for travel to use the specialized facilities at Brookhaven National Laboratory in New York and Oak Ridge National Laboratory in Tennessee.

UNH Students Shine in Goldwater Competition
http://www.unh.edu/news/releases/2013/apr/em19goldwater.cfm
http://www.unh.edu/campusjournal/2013/04/unh-students-shine-goldwater-competition

Two University of New Hampshire students are recipients of the prestigious Barry M. Goldwater Scholarship, the premier undergraduate award for STEM (Science, Technology, Engineering and Mathematics) majors. Odin Achorn, a chemistry major from Newfields, and Madelyn Ball, a chemical engineering student from Potsdam, New York, were awarded scholarships. In addition, sophomore Timothy Marquis, a biomedical science major from Nashua, received an honorable mention. All three students are members of the honors program and recipients of donor-funded awards from the Hamel Center for Undergraduate Research.

UNH to Celebrate 10 Years of Showcasing Undergrad Science Research

On April 24, 2013, the 10th annual Interdisciplinary Science & Engineering Symposium (ISE) took place, continuing the tradition of celebrating the scholarly achievements and research of hundreds of undergraduates. In addition to the 182 research posters 421 students presented – both record numbers – this year's event recognized UNH faculty and staff who have been instrumental in the long-term success of the ISE. The ISE was part of UNH's 14th annual Undergraduate Research Conference.

UNH to Celebrate First-in-the-State Supercomputing Capabilities
http://www.unh.edu/campusjournal/2013/10/unh-celebrate-first-state-supercomputing-capabilities-0

A new supercomputer at the UNH Institute for the Study of Earth, Oceans, and Space (EOS) will enable leading-edge research in multiple facets of modern physics. The Cray XE6m supercomputer, the only one of its kind in New Hampshire, has been dubbed Trillian. It is roughly 1,000 times more powerful than a typical desktop computer and will be at least 15 times faster and more powerful than the cluster it replaces.

Credit: Lisa Nugent, UNH Photographic Services

Left to right: Timothy Marquis, Madelyn Ball, and Odin Achorn.
Credit: UNH Media Relations

EOS researchers and RCI staff stand in front of Trillian. From left to right, Bernie Vasquez, Kai Germaschewski, Gregory Chini (front), Jimmy Raeder, Benjamin Chandran, John Gibson, and Patrick Messer.
Credit: Kristi Donahue, UNH-EOS
Health, Behavioral & Social Sciences

$1.1M State Contract Awarded to Institute on Disability to Support Community Mental Health Centers
http://www.iod.unh.edu/About/visionandvoice/fall2013/RENEW_Contract.aspx
http://www.unh.edu/news/releases/2013/12/mg03iod.cfm#ixzz2pvHYo6HY
http://www.unh.edu/campusjournal/2013/12/institute-disability-receives-1m-support-community-mental-health-centers

The UNH Institute on Disability was awarded a three-year, $1.08 million contract by New Hampshire’s Department of Health and Human Services to provide training to community mental health centers supporting RENEW, a school-to-career education program for youths with emotional and behavioral disabilities. UNH will assist the RENEW program by working with ten mental health facilities in New Hampshire.

2012: The End of the World as We Know It? – Evelyn French
http://cola.unh.edu/sites/cola.unh.edu/files/student-journals/2_SPECTRUM_French.pdf

Many people were led to believe that the ancient Maya calendar predicted the end of the world on December 21, 2012. Evelyn French ’14 studied the doomsayers’ theories and presents evidence from several archaeological contexts to suggest that those predictions did not accurately reflect the thinking of the ancient Maya. Instead of destruction, a new world would no doubt have been anticipated by the ancient Maya who would have celebrated this period as a time of rebirth and renewal, much like other important period endings in their calendar.

A Chemist’s Dreams and Visions
http://cola.unh.edu/thecollegeletter/2013-05/chemists-dreams-and-visions
http://www.unh.edu/news/releases/2013/mar/lw27history.cfm

Jan Golinski, professor of history and humanities, discussed 19th century scientist Humphry Davy at the 2013 Lindberg Lecture. Golinski explored Davy’s genius as a chemist, philosopher, and travel writer, as well as the glamour that surrounded him. The Lindberg Lecture is delivered annually by the previous year’s winner of the Lindberg Award for outstanding teacher-scholar in the College of Liberal Arts at UNH. Golinski is considered a leading international scholar in the history of science.

A Country’s Culture Influences Whether a Movie Gets Thumbs Up or Thumbs Down
http://www.unh.edu/news/releases/2013/may/lw30film.cfm
http://www.unh.edu/campusjournal/2013/05/country%E2%80%99s-culture-influences-whether-movie-gets-thumbs-or-thumbs-down

To identify cultural trends, UNH researchers studied 1,116 movies released between 2007 and 2011. Lead by M. Billur Akdeniz, assistant professor of marketing at Paul College, the study analyzed factors such as star power, high production budgets, and varying impact from country to country. The researchers found that whether a major U.S. motion picture booms or busts internationally depends on a country’s culture and how its population perceives the star power of the actors, production costs, critics’ reviews, and sequels.
“A Family’s Loss” Is Second Novel for UNH Thompson School Professor
http://www.unh.edu/news/releases/2013/mar/bp05barretto.cfm
http://www.unh.edu/campusjournal/2013/03/%E2%80%9C-family%E2%80%99s-loss%E2%80%9D-second-novel-unh-thompson-school-professor

UNH professor Tim Barretto spends much of his time pursuing ways to end child abuse. His new novel, *A Family’s Loss* (Beech River Books, 2013) addresses related issues and asks: How much of my understanding of my past is real? How much of it is family mythology, and how much have I created myself? Barretto is a professor of community leadership in the UNH Thompson School of Applied Science.

A "Gate City" Welcome
http://cola.unh.edu/thecollegeletter/2013-04/gate-city-welcome
http://www.unh.edu/unhtoday/2013/05/gate-city-welcome

Funded by a $1.8 million National Development Grant from the U.S. Department of Education’s Office of English Language Acquisition, GATE CITY (Getting All Teachers ESOL Certified in Two+ Years) is a joint program between UNH and the Nashua School District. This innovative program provides a new teaching model and helps passionate teachers create diverse and comfortable classrooms by working to support students of varied ethnicities and languages.

A Passion for Saving Lives: The Motivation of Surgically Trained Healthcare Professionals in Mozambique

Nursing major Sofia Cadime ’13 had a life-changing journey to Mozambique where she studied specially trained health care professionals in impoverished communities. Working hands-on as a nurse and researcher, Cadime discovered that passion and determination can save lives.

Abused Children Likely to be Placed Voluntarily with Other Family Members, UNH Carsey Institute Finds
http://www.unh.edu/news/releases/2013/feb/lw12skincare.cfm
http://www.unh.edu/campusjournal/2013/02/abused-children-likely-be-placed-voluntarily-other-family-members-unh-carsey-institute-finds

Associate professor of sociology Wendy Walsh conducted research at the Carsey Institute at UNH regarding out-of-care placement of abused children. Looking at placement patterns in both rural and urban areas nationwide, Walsh found that children are most often placed with family members, but that these informal kin caregivers often receive fewer services, including financial assistance, than other types of substitute caregivers.
Adjunct Professor Awarded for NHPR Radio Documentary
http://manchester.unh.edu/blog/campus-news/adjunct-professor-awarded-nhpr-radio-documentary

Keith Shields’ radio documentary recently was awarded the 2013 Regional Edward R. Murrow Award in the category of News Documentary. Shields is an adjunct professor in the communication arts program at UNH Manchester as well as the Executive Producer of NH Public Radio’s The Exchange. His documentary delved into the legal, legislative, and real-world realities of immigration.

Alumni Association Throws Support Behind Manchester STEM Efforts
http://www.unh.edu/unhtoday/2013/06/stem
http://www.unh.edu/news/releases/2013/jun/em24stem.cfm

The UNH Alumni Association has provided $25,000 toward the construction of the STEM Discovery Lab at UNH Manchester. The STEM Discovery Lab will feature hands-on lab space for students in grades five through twelve, with ongoing after-school and weekend activities facilitated by alumni and community mentors, UNH Manchester students, and faculty. The goal of the Lab is to get young people interested and involved in science, technology, engineering, and math disciplines at a young age.

Ann Dillon Appointed to NH Disability Commission
http://www.iode.unh.edu/About/visionandvoice/spring2013/article1_dillon.aspx

The goal of New Hampshire governor Maggie Hassan’s Commission on Disability is to remove barriers that hinder people with disabilities from participating in mainstream society. Ann Dillon, a UNH Institute on Disability staff member, has been selected to join the commission. Dillon brings her rich experience as a parent, occupational therapist, and advocate for people with disabilities to her work on the Commission.

Announcing a New Manchester Data Repository
http://manchester.unh.edu/blog/campus-news/announcing-new-manchester-data-repository
http://www.unh.edu/unhtoday/2013/08/manchester-has-new-data-repository

UNH Manchester and the UNH Dimond Library have teamed up to create the Manchester Data Repository to centralize data related to the city and to make the information readily available to the public. The collection will focus on data published between 2007 and 2013, presented in the form of studies, reports, plans, guides, needs assessments and indicators, charts and graphs, summaries, articles, and statements from various local organizations, all available in downloadable PDF format. The project was created in response to the need for research data expressed by members of the Manchester Research Group, a community working group organized in 2012 by Patrice Mettauer, senior lecturer in communication arts and coordinator of community outreach scholarship at UNH Manchester. Sarina Johnston, a 2013 graduate of UNH Manchester’s history program, took the lead on organizing the data collection.
Bill Stine, Guest Editor for “Frontiers in Perception”  
http://www.unh.edu/campusjournal/2013/09/bill-stine-guest-editor-%E2%80%9CFrontiers-perception%E2%80%9D

Associate professor of psychology Bill Stine has been appointed as a guest editor for Frontiers, an academic publisher and research network. He will be an editor for the “Frontiers in Perception” research topic, “The Venetian blind effect and early stereopsis.” Stine will share topic-editing duties with John Sparrow, associate professor of psychology at UNH Manchester, and 2 other colleagues from Rutgers University and the University of California – Irvine.

Boosting Biomedical Research Statewide  
http://www.unh.edu/unhtoday/2013/01/boosting-biomedical-research-statewide

By examining horseshoe crabs, zoology professor Win Watson is making strides in understanding how biological rhythms affect human behavior. With the support of the New Hampshire IDeA Network of Biomedical Research Excellence (NH INBRE) program, Watson is examining how our internal “clocks” can cause mental and physical distresses when out of sync. Supported by a $15.4 million award from the National Institutes of Health to Dartmouth College, NH INBRE aims to increase the state’s research capacity and the scientific knowledge of its workforce.

Cacao’s Relationship with Mesoamerican Society – Hillary Christopher  
http://cola.unh.edu/sites/cola.unh.edu/files/student-journals/5_SPECTRUM_Christopher.pdf

Cacao is a diverse and popular part of Mesoamerican society, but not many people are aware of its multitude of uses – ancient Maya even used it as a form of social and political currency. By examining the ecology of cacao, Mesoamerican preparation, political and social elements, cacao pots, and religious and ritual contexts, Hillary Christopher ’13 demonstrated that even the pots used to hold cacao became socially and politically important to the Maya.

CACL Launches Direct Care Career Guide  
http://iod.unh.edu/About/visionandvoice/winter2013/article2_caclguide.aspx  
http://www.unh.edu/news/releases/2013/jan/mg16cacl.cfm

The UNH Center on Aging and Community Living (CACL), a collaboration between the UNH Institute on Disability and the Institute for Health Policy and Practice at UNH, has launched a free online tool that provides information and career guidance to current and potential direct-care workers in New Hampshire. The Direct Care Career Guide is an interactive career resource tool that identifies direct-care career opportunities tailored to fit individual needs, preferences, and career aspirations. The Guide was developed through the CACL’s DirectConnect project, which is funded by a grant from the U.S. Department of Labor.
Carsey Institute at UNH: N.H. Has Largest Increase in Child Poverty in Nation
http://www.unh.edu/news/releases/2013/sep/lw20carsey.cfm

A research team led by Beth Mattingly, director of the research on vulnerable families program at the Carsey Institute at UNH and research assistant professor of sociology, has found that after having the lowest child poverty rate in the nation for more than a decade, the state of New Hampshire experienced the largest increase in child poverty from 2011 to 2012 of any state in the country. New Hampshire’s child poverty rate is now at 15.6 percent, an increase of 3.6 percent from 2011, which raises concern about the well-being of the Granite State’s children. Jessica Carson, vulnerable families research scientist at the Carsey Institute, and Andrew Schaefer, a doctoral student in sociology and a research assistant at the Carsey Institute, comprised the rest of the research team.

Carsey Institute: Age and Lifecycle Patterns Are Driving U.S. Migration Shifts
http://www.unh.edu/news/releases/2013/apr/lw12carsey.cfm
http://www.unh.edu/campusjournal/2013/04/carsey-institute-age-and-lifecycle-patterns-are-driving-us-migration-shifts

New research on age-related migration patterns, summarized in the brief, Age and Lifecycle Patterns Driving U.S. Migration Shifts, from the Carsey Institute at UNH, provides a fuller understanding of the complex patterns of demographic change in the United States. The brief was coauthored by Kenneth Johnson, senior demographer at the Carsey Institute and professor of sociology at UNH, and his colleagues Richelle Winkler, assistant professor of sociology and demography at Michigan Technological University, and Luke Rogers, a research assistant at the Carsey Institute and a doctoral student in sociology.

Carsey Institute: Granite Staters Support Increased Use of Renewable Energy, Value Environment’s Impact on Quality of Life

Lawrence Hamilton, professor of sociology and a senior fellow at the Carsey Institute at UNH, and Cameron Wake, research associate professor with the UNH Institute for Earth, Oceans, and Space, examined New Hampshire citizens’ attitudes toward renewable energy, drilling for oil, and the value of the environment. Analysis of data from the Granite State Poll, conducted by the UNH Survey Center, showed a combination of strong public interest but limited knowledge about the larger processes behind environmental conditions. The research was conducted as part of the five-year, National Science Foundation-supported Ecosystem and Society project of NH EPSCoR, with additional support from the Sustainability Institute at UNH.
Carsey Institute: Students with a Disability More Likely to be Restrained, Secluded in School

Research conducted by UNH colleagues Douglas Gagnon, doctoral candidate, Marybeth Mattingly, research professor of sociology, and Vincent Connelly, associate professor of education, has shed light on the use of restraint and seclusion in U.S. public schools as a response to student behavior problems. Examining the frequency and severity of restraint and seclusion measures, the researchers found that rates vary widely between schools of different economic and racial compositions. Overall, restraint and seclusion are used much more frequently on students with a disability than on students without a disability, especially in affluent school districts.

Catholic Scholar Available to Discuss Papacy and American Catholics

Catholic Scholar Available to Discuss Resignation and Legacy of Pope Benedict XVI

Center on Aging & Community Living Will Manage New Hampshire’s Balancing Incentive Program

The UNH Center on Aging and Community Living (CACL) will provide project management services to New Hampshire’s Balancing Incentive Program through a contract with the New Hampshire Department of Health and Human Services Division of Community Based Care Services. The goal of the Balancing Incentive Program is to use infrastructure improvements, professional development workshops, and community services and support to rebalance the amount of Medicaid funds between facility-based and community-based long term services. CACL is a collaboration between the UNH Institute on Disability and the Institute for Health Policy and Practice at UNH.

Christina Ortmeier-Hooper ELL Writer Book Released

The ELL Writer: Moving Beyond Basics in the Secondary Classroom, by assistant professor of English Christina Ortmeier-Hooper, was released in April 2013. This resource for secondary school English Language Acquisition (ELA) and English Language Learner (ELL) teachers reviews the literacy needs of adolescents and provides curriculum-building strategies as well as insight into student experiences.
College Students More Likely to Be Lawbreakers if Spanked as Children, New UNH Research Finds

http://www.unh.edu/news/releases/2013/11/lw22straus.cfm#ixzz2pvFspBWZ

Looking at criminality trends of students in 15 countries, co-director of the UNH Family Research Lab Murray Straus has discovered that contrary to popular belief, university students from loving, supportive families that practiced even just minimal spanking in childhood were more likely to show criminal tendencies as adults.

Community-Hospital Partnership to Facilitate Improvements in Care Transitions

http://www.unh.edu/research/sites/unh.edu.research/files/docs/RES_AREAS/Digest_13/HB%26SS_Community-Hospital_Partnership.pdf

Laura Davie, co-director of the UNH Center on Aging and Community Living, and Amy Newbury, former director of the Belknap County Aging and Disability Resource Center Care Transitions Pilot Site, have found that improving health care with an eye to truly quantifiable results will require non-traditional partnerships extending beyond the traditional medical model. They base their conclusion on the experiences of the Belknap County ServiceLink Resource Center and Lakes Region General Hospital partnership, which piloted a unique approach to enhance the Better Outcomes for Older Adults through Safe Transitions (BOOST) care transition model.

Courage to Care Team Conducts National Webinar

http://extension.unh.edu/articles/Courage-Care-Team-Conducts-National-Webinar

In May 2013, Cooperative Extension youth and family program leaders and specialists from over 40 states participated in an online training program that shared the successes of UNH Cooperative Extension’s Courage to Care program and taught them how they can bring this evidence-based method of teaching young people about civility, compassion, empathy, and kindness to their own state programming. UNH Cooperative Extension specialist and Courage to Care co-director Malcolm Smith presented along with UNH Cooperative Extension field specialists Rick Alleva and Thom Linehan. In addition, Patrick Shannon, associate professor of social work, shared the results of his independent study of the program’s effectiveness in raising empathy among middle school youth and reducing bullying and peer victimization in schools. The national webinar was hosted by Suzanne Le Menestrel, national program leader for 4-H and youth programs in the U.S. Department of Agriculture’s National Institute of Food and Agriculture.

Depression, Substance Abuse Problems in N.H. Rural Young Adults Above National Average


According to new research conducted by the Carsey Institute at UNH, Coos County young adults struggle with depression and substance abuse more than young adults in other rural communities nationwide. Karen Van Gundy, associate professor of sociology, suggests that this is a result of economic uncertainty. The Coos Youth Study will provide additional insight into this problem by studying young people’s decision-making over a ten-year period.
Did You Know? Employment Data for Workers With or Without Disabilities
http://iod.unh.edu/About/visionandvoice/winter2013/sidebar2_dyk.aspx

Data from the 2012 Annual Disability Statistics Compendium show that working-age people without disabilities were over two times more likely than those with disabilities to be employed in 2011. People without disabilities also earned 35% more during the year.

Did You Know? Obesity and Activity Levels in Adults With or Without Disabilities
http://www.iod.unh.edu/About/visionandvoice/spring2013/sidebar2_dyk.aspx

According to the New Hampshire Disability and Public Health Needs Assessment (2013), New Hampshire adults with disabilities are twice as likely to be sedentary and obese as are adults without disabilities. To address this disparity, the New Hampshire Disability and Public Health project will introduce an obesity prevention program for transition-age youth with disabilities and for parents of children with disabilities.

Digging It – Archaeology Students Unearth Original Campus Train Depot
http://www.unh.edu/unhtoday/2013/04/archaeology
http://www.unh.edu/news/releases/2013/apr/lw10train.cfm
http://www.unh.edu/campusjournal/2013/04/unh-archaeology-students-unearth-original-campus-train-depot

Before a traumatic 1905 train accident, a train depot ran right through UNH’s Durham campus. Now, a student-run archaeology dig, led by assistant professor of anthropology Meghan Howey, has unearthed pieces of the past, including coal, slag, bricks, and glass. Howey’s hope is that her course, “The Lost Campus: The Archeology of UNH,” of which the dig is a part, will build a longer-term commitment to UNH’s heritage, and that heritage will be taken into consideration when new building projects are planned.

Documentary Film “Who Cares About Kelsey?” to Air on NHPTV on January 19-20
http://www.unh.edu/news/releases/2013/jan/bp08kelsey.cfm

UNH Institute on Disability filmmaker Dan Habib’s documentary Who Cares About Kelsey? has received national acclaim and attention. It chronicles the life of a New Hampshire high school student facing a pressing national dilemma: lack of support for students with emotional and behavioral issues. The success of Habib’s film is a positive step in creating necessary public change.

e-Book on Psychological Science Published
http://www.unh.edu/research/sites/unh.edu.research/files/docs/RES AREAS/Digest_13/HB%26SS_e-Book_on_Psychological_Science_Published.pdf

Victor Benassi, professor of psychology, Catherine Overson, director of the Teaching and Learning with Multimedia project of the UNH Center for Excellence in Teaching and Learning, and Christopher Hakala, professor of psychology at Western New England University, have published an e-book, Applying Science of Learning in Education: Infusing Psychological Science into the Curriculum (2014). Written for non-experts, the book presents scholarship on the science of learning and its application in educational settings. Most of the work described in the book is based on theory and research in cognitive psychology.
Entitlement-Minded Workers More Likely to Claim Bosses Mistreat Them, New UNH Research Shows
http://www.unh.edu/news/releases/2013/sep/lw17entitlement.cfm

Paul Harvey, associate professor of organizational behavior in the Peter T. Paul College of Business and Economics, has found that an inflated sense of entitlement in employees can be a significant problem for managers in work environments. Surveys conducted by Harvey and his colleagues from Indiana University Southeast, the University of South Alabama, and the University of Queensland showed that employees with an elevated sense of entitlement often claimed their managers were abusive. This posed questions about how critical feedback or unpopular decisions by managers were perceived by the employees, and whether eliminating truly abusive behaviors by supervisors would eliminate the perception of abuse or the associated emotions and stress that can motivate retaliation by employees.

Extension’s Army of Volunteers Steps Up
http://www.unh.edu/unhtoday/2013/06/extension%E2%80%99s-volunteers

UNH Cooperative Extension coordinates one of the state’s largest and most diverse volunteer networks. In 2012, it brought together 4,100 volunteers who contributed 131,423 hours of service, providing the volunteers with ongoing training and support in their work, which ranged from leading 4-H clubs to serving as outreach educators in marine science, nutrition, forestry and wildlife issues, water protection, and backyard gardening. The volunteers’ services are valued at about $735 million. Extension’s efforts have helped the Granite State rank 19th in the nation in volunteerism.

Extension’s Charlotte Cross receives 2013 Presidential Award of Excellence
http://extension.unh.edu/articles/Extension%E2%80%99s-Charlotte-Cross-receives-2013-Presidential-Award-Excellence

Charlotte Cross, extension specialist/faculty in youth and families, was presented with the 2013 UNH Presidential Award of Excellence in recognition of her 30 years of service to youth and families across the state. Recently, Cross has committed herself to supporting the state’s military families, leveraging numerous grants to respond to the critical needs that have arisen due to the multiple deployments of armed forces in recent years and the resulting ripple effect the deployments have had on families and communities at home. In addition, her foundational work with the Teen Assessment Project continues to support research being conducted by the University in several New Hampshire locations.
Federal Subsidies Critical to Low-Income Families Facing Rising Child Care Costs
http://www.unh.edu/news/releases/2013/may/lw21childcare.cfm
http://www.unh.edu/campusjournal/2013/05/federal-subsidies-critical-low-income-families-facing-rising-child-care-costs

Research from the Carsey Institute at UNH has shown that low-income families have been hit hard by the rising cost of child care in America, and that federal child care subsidies are one of the most important ways to lessen the impact of these rising child care costs. Because many working families struggle to make ends meet, child care assistance not only helps families pay the bills, but also provides children with access to development opportunities. Kristin Smith, family demographer at the Carsey Institute and research assistant professor of sociology, and Nicholas Adams, a research assistant at the Carsey Institute and a doctoral student in sociology, drew these conclusions through their analysis of data from the Survey of Income and Program Participation, which was collected in the spring of 2005 and spring of 2011 by the U.S. Census Bureau.

Federal Supplemental Nutrition Assistance Program Use Grows in 2011

In 2011, 13 percent of all American households relied on the Supplemental Nutrition Assistance Program (SNAP) – the program formerly known as Food Stamps – with nearly 6.2 million more American households using the program than in the previous five years. Despite the U.S. Census Bureau’s September announcement that poverty had stabilized in 2011, SNAP receipt rose nationwide and remained important for potentially vulnerable families. The research was conducted by the Carsey Institute at UNH colleagues Jessica Carson, vulnerable families research scientist, and William Meub, vulnerable families research associate.

Federal Supplemental Nutrition Assistance Program Use Increases Slightly in 2012
http://www.unh.edu/news/releases/2013/11/lw05snap.cfm#ixzz2pvCwTpMA

In 2012, 13.6 percent of American households reported receiving SNAP benefits, suggesting that the multi-year trend of rising receipt rates may be slowing. This represents an increase from 13.0 percent in 2011 and 7.7 percent in 2007. The analysis, conducted by Jessica Carson, vulnerable families research scientist at the Carsey Institute at UNH, is based on U.S. Census Bureau estimates from the 2007 to 2012 American Community Survey.

For the People: History Student and His Father Make Documentary About the Gettysburg Address
http://cola.unh.edu/thecollegeletter/2013-11/people

Sean Conant, a first-year student at UNH, didn’t intend to make a documentary when he set out across America with his father to view all five copies of the Gettysburg Address. Once they realized the obstacles they faced, however, they decided to chronicle their journey, including their encounters with celebrities and prominent politicians. The project became a broad-reaching look at the impact of the Gettysburg Address on America and the world. The Conants hope to screen their film, The Gettysburg Address, at UNH in the spring of 2014.
Funding Cuts Resulted in Reduced Services to N.H.’s Troubled Youths

Legislative funding cuts to the New Hampshire Child in Need of Services (CHINS) program – designed to help the state’s troubled youths and help curb delinquent behavior and juvenile offenses – resulted in a steep drop in the number served by the program, while reports of child maltreatment increased. Lisa Speropolous, a doctoral student in sociology and a research assistant at the Carsey Institute at UNH, and Barbara Wauchope, director of evaluation and a research associate professor at the Carsey Institute, found there was a steep drop in the number of families and children served after the state changed its eligibility rules for CHINS services in response to the loss of funding. Support for the research was provided by New Hampshire Kids Count, an independent organization that advocates for child well-being.

Karen Graham Named Executive Director of UNH ADVANCE

Karen Graham, professor of mathematics, has been named executive director of UNH ADVANCE and special assistant to the Vice Provost for Faculty Development and Inclusive Excellence. In her role as executive director, Graham will provide administrative and strategic leadership for all aspects of the UNH ADVANCE program. This will include working with members of the leadership team and internal steering committee to build a vision and set of sustainable initiatives that seek to diversify STEM (Science, Technology, Engineering, and Mathematics) faculty and support best practices in faculty development across the university. A $3.47 million National Science Foundation ADVANCE Institutional Transformation award supports the UNH ADVANCE program, which has as its goal increasing the number of women faculty in STEM fields through changes in recruitment and retention policies and practices.

Granite State Future Looks at Community Needs

Granite State Future, a U.S. Department of Housing and Urban Development-funded initiative of New Hampshire’s regional planning commissions, is working to make New Hampshire a more livable and meaningful community. UNH Cooperative Extension and the NH Listens program of the Carsey Institute at UNH partnered with Granite State Future to develop a community engagement process with regional focus and attention to the inclusion of underrepresented populations. This diverse stakeholder input will be used to update the nine regional plans representing each of New Hampshire’s regional planning districts, thus giving decision-makers rich information about what community members value and the ideas and concerns they may have. The goal is to provide avenues for New Hampshire residents to come together, share perspectives, and ultimately, help shape the future of their communities, regions, and the state.
Grant Supporting Free AAC Training for NH Educators
http://www.iod.unh.edu/About/visionandvoice/spring2013/article3_nhaac.aspx

The NH AAC Initiative, a new project directed by Michael McSheehan of the UNH Institute on Disability, is providing critical statewide training on augmentative and alternative communication (AAC), a tool for individuals with limited or no speech capabilities. Funded by a fifteen-month, $100,000 grant from the New Hampshire Department of Education’s Bureau of Special Education, the program will enhance educators’ capacity to make meaningful differences in educational outcomes for students with complex communication needs. Pat Mirenda, an AAC expert from the University of British Columbia, will serve as senior advisor to the program. In addition to the Bureau of Special Education, partners on the project include UNH’s department of communication sciences and disorders and Crotched Mountain ATECH Services.

Grant to UNH Institute Will Evaluate Public Health Funding in N.H.
http://www.unh.edu/news/releases/2013/jul/bp29grant.cfm
http://www.unh.edu/campusjournal/2013/07/grant-unh-institute-will-evaluate-public-health-funding-nh

A $150,000 grant from the Robert Wood Johnson Foundation will allow the Institute for Health Policy and Practice at UNH (IHPP) to better understand how public health initiatives in New Hampshire are funded. The project, led by IHPP in collaboration with the New Hampshire Department of Health and Human Services, the Community Health Institute, and four community-based public health entities, will focus on funding for addressing tobacco use and prevention. From this evaluation, IHPP will develop tools that can be used throughout the nation to help collect financial and operating data, allowing other states to evaluate their own financial networks and how they relate to and affect public health services.

Grenier Edits Book on Physical Education for Students with Autism Disorders

Michelle Grenier, associate professor of kinesiology and coordinator of the UNH physical education and adapted physical education program, has edited a new book, *Physical Education for Students With Autism Spectrum Disorders*. The ‘hands-on’ book provides strategies, tools, and options for inclusive practices that can be used by teachers who work with students with autism spectrum disorders in both general and adapted physical education settings.

He Changed How Children Are Taught to Write
http://www.unh.edu/unhtoday/2013/05/he-changed-how-children-are-taught-write
http://www.unh.edu/news/releases/2013/may/lw20graves.cfm

Thomas Newkirk, professor of English, is a big supporter of Donald Graves’ innovative research that changed beliefs about literacy and education nationwide. In their new book, *Children Want to Write*, Newkirk and co-editor Penny Kittle, an English teacher at Kennett High School in North Conway and teacher educator at the summer UNH Literacy Institutes, present a collection of Donald Graves’ most significant writings paired with a disk of recovered videos illuminating his research and inspiring work with teachers and students. This collection honors Graves’ idea that writing is a natural outlet for self-expression and the development of critical thinking skills.
Highlighting IOD Donors – Fledgling Fund Grant to Support Who Cares About Kelsey?
National Outreach
http://iod.unh.edu/About/visionandvoice/winter2013/article4_donors.aspx

The UNH Institute on Disability has received a $25,000 grant from the Fledgling Fund to extend the impact of *Who Cares About Kelsey?*, an acclaimed documentary by UNH filmmaker Dan Habib, to schools and communities nationwide. The Fledgling Fund is a private foundation that is driven by the passionate belief that film can inspire a better world. It provides funding to implement plans designed to move audiences from passive viewers to motivated citizens who are ready to act. The grant will support the *Who Cares About Kelsey?* national outreach and engagement campaign, which will enable schools and partner groups around the country to use the film as a resource for better understanding students with emotional and behavioral challenges.

Highlighting IOD Donors – NH Leadership Series
http://www.iod.unh.edu/About/visionandvoice/spring2013/article4_donors.aspx

The *New Hampshire Leadership Series*, a project of the UNH Institute on Disability, has a long history of cultivating leaders who drive systemic change on issues related to disabilities. Two foundations – The Gilbert Verney Foundation and The Jack and Dorothy Byrne Foundation – recently awarded the Leadership Series with grants totaling $15,000. In addition, for the third consecutive year, the Finlay Foundation matched contributions of up to $5,000 from alumni and supporters.

**Hmong Americans Book Co-edited by Monica Chiu**
http://www.unh.edu/campusjournal/2013/05/hmong-americans-book-co-edited-monica-chiu

*Diversity in Diaspora: Hmong Americans in the Twenty-First Century*, a book co-edited by associate professor of English Monica Chiu, was published recently. The book provides new perspectives on the many challenges Hmong Americans face, including political and cultural citizenship.

**Hogwarts Now Enrolling!**
http://cola.unh.edu/thecollegetlettter/2013-04/hogwarts-now-enrolling
http://www.unh.edu/unhtoday/2013/03/unh-brings-harry-potter%E2%80%99s-adventures-youth-first-massive-online-course-kids

In summer 2013, UNH introduced its first Massive Online Course for Kids, “Harry Potter Storytelling: An Online Adventure for the Young Fan.” Conceived and taught by UNH English professor James Krasner, the course is designed to engage children in language arts in a new and fun way through the world of Harry Potter. The program is composed of five courses that approach the basics of reading, writing, and language in a non-linear structure, allowing students to make connections in their own way, which may be helpful to students with alternative learning styles, challenges, or disabilities. This educationally unique program also will allow Potter fans to learn about how language works in J.K. Rowling’s writing.
Impacting New Hampshire: Who Cares About Kelsey?
http://iod.unh.edu/About/visionandvoice/winter2013/article3_wcak.aspx

Since its May 2012 premiere, UNH Institute on Disability Filmmaker-in-Residence Dan Habib’s documentary film, *Who Cares About Kelsey?*, has been aired in a statewide public television broadcast and screened with overwhelming impact to over 5,000 people throughout New Hampshire. Audiences have indicated an increased understanding of youth with emotional and behavioral challenges, and hope to use what they have learned to challenge and improve their local school systems. Grants from the Endowment for Health, the New Hampshire Charitable Foundation, and the Lincoln Financial Foundation supported these events and the dissemination of free copies of the *Who Cares About Kelsey?* Education DVD Kit to every New Hampshire school or non-profit that works with youth.

In the Balance
http://unhmagazine.unh.edu/w13/joel_hartter.html

Joel Hartter, a human-environment geographer, believes that the best way to create policy change is through a deep understanding of the communities that the policies affect. For nearly a decade, Hartter’s research has taken him to Kibale National Park in Uganda. The people of Kibale struggle with three contrasting forces: the wildlife, a lush forest preserved by the government, and their own survival. Hartter hopes to improve the communication between the people of Kibale and national policy makers by hosting community meetings and conducting extensive research on weather, cultural practices, and wildlife. The ultimate goal is a conservation effort that takes into account the needs of local residents.

In the Shadow of Court-Clearing: The New Hampshire Supreme Court’s Struggle for Autonomy

History and philosophy double major Cory McKenzie ’14 spent a summer investigating the true meaning of court-clearing in New Hampshire, a tricky maneuver used in the nineteenth century to remove undesirable judges not by eliminating the judges themselves, but by eliminating the very courts they worked for. McKenzie learned that court-clearing should be remembered not only as an isolated incident in the nineteenth century, but also as an important influence on politics today.

Cory McKenzie (left) with John T. Broderick, former chief justice of the New Hampshire Supreme Court and dean of the UNH School of Law.

Credit: Cory McKenzie
Inquiry Journal Features Student Research

http://www.unh.edu/unhtoday/2013/05/inquiry-journal-features-student-research

In 2005, a donation from philanthropist Dana Hamel made it possible for UNH to launch Inquiry, an annual multidisciplinary undergraduate online research journal. Inquiry offers undergraduate researchers in all disciplines the opportunity to communicate their experiences and results to general and academic audiences worldwide – the final step in the research process.

Insights on Egypt

http://www.unh.edu/unhtoday/2013/08/insights-egypt

Jeannie Sowers, associate professor of political science, has conducted extensive research in and on Egypt and the Middle East. She is the editor of The Journey to Tahrir: Revolution, Protest, and Social Change in Egypt, which discusses the toppling of Egyptian President Hosni Mubarak and the beginning of the revolutionary restructuring of Egypt’s political and social order that currently is underway. In a recent interview with UNH Today, Sowers outlined the troubles facing Egypt and the realities of the deposition of Mubarak.

Interviewing the Street Children of Mekelle City, Ethiopia: Their Plight and What Help Public and Private Organizations Offer


English major and native Ethiopian Merhawi Wells-Bogue ’13 received a Summer Undergraduate Research Fellowship Abroad grant from the Hamel Center for Undergraduate Research to pursue a study in 2012 of the street children of Mekelle City. Through interviews with children and government officials in their (and his) native language, Tigrinya, Wells-Bogue learned about the extreme poverty and substandard living conditions street children experience, brought on by economic and social factors such as war and overpopulation. Wells-Bogue plans to produce a short documentary film using the videos, photographs and interviews he obtained while in Mekelle City and, as a journalist, to continue to give voices to street children and those who are trying to help them – in Mekelle City and worldwide.

Investigating the Presence of a Red Zone for Unwanted Sexual Experiences among College Students: Class Year and Gender

http://www.unh.edu/inquiryjournal/spring-2013/investigating-presence-red-zone-unwanted-sexual-experiences-among-college-students-class

McNair scholar and psychology major Elizabeth Wible ’13 spent the summer and fall of 2012 researching the often-ignored topic of unwanted sexual experiences. With her mentors, professors of psychology Victoria Banyard and Ellen Cohn, Wible explored the influence of class year and gender on unwanted sexual experiences on campus. Among many findings, she discovered that the campus had a “red zone,” or a time of danger, for a greater number of these experiences: first-year women were more likely to report unwanted sexual experiences than any other group of students.
IOD Director Presents at the National Institutes of Health
http://iod.unh.edu/About/visionandvoice/summer2013/IOD_Director_at_NIH.aspx

“Disability & Health: Definitions, Determinants, & Disparities,” presented by Charles Drum, Director of the UNH Institute on Disability, was the sole presentation focusing on disabilities at the two-week intensive program, “National Institute on Minority Health and Health Disparities (NIMHD) Translational Health Disparities Course: Introduction to the Principles and Practice of Health Disparities Research” in August of 2013. Attendees at this prestigious course conducted by the National Institutes of Health included public policy professionals, academic researchers, scientists engaged in health disparities research and activities, and health care and public health professionals. Drum advocated for increased knowledge of the health disparities that people with disabilities face.

IOD Grieves Passing of Research Associate Tony Ruiz
http://iod.unh.edu/About/visionandvoice/winter2013/article1_tony.aspx

Tony Ruiz, research associate in the UNH Institute on Disability (IOD), passed away on February 21, 2013. An integral part of the IOD, Ruiz was a part of many influential grant-supported project teams and aided in the execution of the Annual Compendium of Disability Statistics events, which brought many professionals together to discuss disability statistics and policy development. Colleagues will miss him for his kindness and keen intellect.

IOD Professor Attends Briefings in Washington for National Children’s Mental Health Awareness Week
http://www.unh.edu/campusjournal/2013/05/iod-professor-attends-briefings-washington-national-children%E2%80%99s-mental-health-awareness-week
http://www.iod.unh.edu/About/visionandvoice/spring2013/sidebar1_malloy.aspx

In May 2013, JoAnne Malloy, clinical assistant professor at the UNH Institute on Disability (IOD), spoke to members of Congress and their staff at a legislative briefing in recognition of National Children’s Mental Health Awareness Week. Malloy discussed two influential IOD projects: RENEW (Rehabilitation, Empowerment, Natural supports, Education and Work) and APEX (Achievement in Dropout Prevention and Excellence).

Jeannie Sowers, Professor of Political Science – Egypt
http://www.unh.edu/cie/jeannie-sowers

Jeannie Sowers, associate professor of political science, visited Cairo, Egypt in February 2013. Funded by a UNH Center for International Education travel grant from the Yale-Maria bequest for Middle East Studies, she sought to learn more about the ongoing political revolution that began in early 2011. Focusing on the debates over the controversial constitution that had just been passed, Sowers talked with people of various political perspectives about what the new constitution and ongoing revolution mean to Egyptians.
Julia Rodriguez: Studying Science through the Lens of History

http://www.unh.edu/campusjournal/2013/03/research-profile-julia-rodriguez-studying-science-through-lens-history

With the support of a prestigious National Science Foundation CAREER Award, associate professor of history Julia Rodriguez created HOSLAC (History of Science in Latin America and the Caribbean), a digital archive of primary sources, Web links, and references for students and professors. The award-winning archive covers 30 topics in the history of science in Latin America and the Caribbean, from Healers and Indigenous Medicine (2000 BCE+), to Latin American Nobel Prize Winners (1947-1995), and everything in between. Rodriguez’s newest project is a book that explores the history of anthropology as a field of research, mapping the contours of a complex, transatlantic dialogue among turn-of-the-century natural and social scientists from both Europe and the Americas in their pursuit of truths about Latin American races and civilizations.

Kate Hanson, Professor of Community Leadership – Thailand

http://unh.edu/cie//kate-hanson

Kate Hanson, professor of community leadership in the Thompson School of Applied Science, traveled to Thailand in January 2013. With the support of a UNH Faculty International Development Grant, Hanson visited as many non-governmental organizations as possible to research their structure and practices, as well as to identify potential partnerships between the UNH community and organizations in Thailand. Hanson also sought to bring a more global perspective to her teaching of social justice, collective action, and the organizational structures that make fundamental change possible.

Kimberly Phillips Presents at Southwest Conference on Disability

http://www.iod.unh.edu/About/visionandvoice/fall2013/SWConference_Disability.aspx

At 2013’s Southwest Conference on Disability, Kimberly Phillips, program evaluation specialist for the UNH Institute on Disability (IOD), presented “Disability As A Health Disparity Minority Group – Comparisons From the 2011 Behavioral Risk Factor Surveillance System.” Co-authored by Charles Drum, director of the IOD, the presentation discussed three main findings from their research: individuals with disabilities experience significant health disparities compared to the non-disabled population; individuals with disabilities experience high rates of disparities compared to non-disabled racial and ethnic minority groups; and minorities with disabilities experience high rates of health disparities.
Launching the Next Generation of Scientists
http://manchester.unh.edu/blog/campus-news/launching-next-generation-scientists

In 2013, UNH Manchester opened its STEM Discovery Lab, creating a challenging, hands-on learning community where K-12 students and teachers can engage in science, technology, engineering, and mathematics (STEM) and language arts through a research-based curriculum. The initial program includes more than 120 students in grades 4 through 12 from partner organizations Granite United Way, Mill Falls Charter School, and Beech Street Elementary school.

Local Norms Matter: Understanding National Responses to the Responsibility to Protect
http://manchester.unh.edu/blog/campus-news/local-norms-matter-understanding-national-responses-responsibility-protect

UNH Manchester colleagues Michael Contarino, associate professor of politics and society, and Melinda Negron-Gonzales, assistant professor of politics and society, have co-authored an article in the journal *Global Governance* explaining the range of responses to the third pillar of the Responsibility to Protect (R2P) norm adopted by the UN General Assembly in 2005. R2P obliges states to prevent atrocity crimes within their own borders, and not to turn a blind eye when they occur elsewhere; R2P’s “third pillar,” which permits UN Security Council-authorized coercive actions, has been controversial. Contarino’s and Negron-Gonzales’s paper explores why states employ different types of feedback to R2P, ranging from “soft” feedback, which seeks to build broader support for R2P, to “hard” feedback, which seeks to limit R2P. The researchers concluded that the feedback reflects both national strategic concerns and pre-existing local norms.

N.H. Ranks High in Civic Health, UNH Carsey Institute Finds
http://www.unh.edu/news/releases/2013/apr/lw17civichealth.cfm
http://www.unh.edu/campusjournal/2013/04/nh-ranks-high-civic-health-unh-carsey-institute-finds

The Carsey Institute at UNH report, *2012 New Hampshire Civic Health Index*, ranks New Hampshire higher than the national average on several key indicators of civic health, such as voter turnout, engagement in political discussions, contact with public officials, volunteerism, and charitable giving. The research was conducted by Bruce Mallory, interim director of the Carsey Institute and professor of education, and Quixada Moore-Vissing, doctoral student in education and graduate research assistant at the Carsey Institute, in partnership with the National Conference on Citizenship, The Center for Information and Research on Civic Learning and Engagement, the Campus Compact for New Hampshire, the University System of New Hampshire, and the New Hampshire College & University Council.
National Child Abuse Expert Available to Discuss Implications of Penn State Settlement

http://www.unh.edu/news/releases/2013/10/lw28finkelhor.cfm#ixzz2pv8dEmHg

David Finkelhor, director of the UNH Crimes Against Children Research Center and professor of sociology, is available to comment on the implications of the Penn State settlement for those abused by former football coach Jerry Sandusky. According to Finkelhor, the needs of victims often are complex and extensive, and for many victims of child sexual abuse, justice is achieved by preventing future harm.

National Child Abuse Expert Available to Discuss Institute of Medicine Report

http://www.unh.edu/news/releases/2013/sep/lw13childabuse.cfm

David Finkelhor, director of the UNH Crimes Against Children Research Center and a national expert on child abuse and neglect, is available to discuss the new Institute of Medicine report, *New Directions in Child Abuse and Neglect Research*, which was released in September 2013. A nationally recognized expert who has published extensively in the field of child abuse treatment, prevention, and developmental victimology, Finkelhor has studied the problems of child victimization, child maltreatment, and family violence since 1977.

New Initiative Will ADVANCE Search Committees

http://www.unh.edu/campusjournal/2013/12/new-initiative-will-advance-search-committees

Beginning in December 2013, faculty and administrative search committees will participate in seminars to strengthen their policies and practices for attracting and retaining a diverse candidate pool for hiring faculty. Funded by the National Science Foundation, the seminars are part of the UNH ADVANCE Institutional Transformation program, a five-year, $3.47 million initiative to support and advance women faculty in STEM (Science, Technology, Engineering, and Mathematics) fields. The seminars were developed by an ADVANCE committee comprised of faculty representatives from each college and chaired by Monica Chiu, professor of English.

New Knowledge for Nurses

http://www.unh.edu/unhtoday/2013/02/new-knowledge-nurses

Supported by a $15.4 million grant from the National Institutes of Health, the New Hampshire IDeA Network of Biomedical Research Excellence (NH INBRE) seeks to increase the state’s research capacity and the scientific knowledge of its workforce. NH INBRE’s iSURF-N program, the “Bench to Bedside” Summer Nursing Research Fellowship Program at Dartmouth-Hitchcock Medical Center in Lebanon, gives undergraduate nursing students (including those from UNH) a chance to participate in the entire clinical research process, from formulating a study question to applying findings to patient care. The goal of the 10-week iSURF-N program is to increase the number of new nurses who decide to pursue research as part of their careers.
New UNH Research: Online Predators Not Distinctively Dangerous Sex Offenders
http://www.unh.edu/news/releases/2013/aug/lw06ccrc.cfm
http://www.unh.edu/campusjournal/2013/08/new-unh-research-online-predators-not-distinctively-dangerous-sex-offenders-0

A new study from the UNH Crimes Against Children Research Center challenges the view that online predators who use Internet and cell phone communications to lure teens into sexual relationships are a distinctly dangerous variety of sex offender. Findings show that in crimes involving such communications, offenders who meet and recruit youth online operate in much the same way as offenders who meet and know youth in ordinary offline environments. The research was conducted and authored by Janis Wolak, research assistant professor, and David Finkelhor, professor of sociology and director of the UNH Crimes Against Children Research Center.

NH Mental Health Survey Releases Fifth Year of Data on State Community Mental Health System
http://www.iod.unh.edu/About/visionandvoice/spring2013/article5_pmhs.aspx
http://www.unh.edu/news/releases/2013/mar/mg27iod.cfm

The UNH Institute on Disability has released a five-year summary of consumer perspectives on the mental health care offered by New Hampshire's community mental health centers (CMHCs). Results of the study, commissioned by the New Hampshire Bureau of Behavioral Health, show that there are many strengths in the CMHC service system, but there are still multiple challenges that need to be addressed if New Hampshire residents are going to achieve and maintain good health.

Northeast Passage in the News: Those with Disabilities Thrive in Sporting Program
http://www.unh.edu/research/sites/unh.edu.research/files/docs/RES AREAS/Digest_13/HB%26SS_Northeast Passage_Sporting_Programs.pdf

Since its creation in 1990, Northeast Passage has provided adapted and therapeutic sports to people with disabilities in New Hampshire and throughout New England. With its first research grant from the National Institute on Disability and Rehabilitation Research, Northeast Passage developed the Promoting Access Transition and Health (PATH) program that helps individuals with spinal cord injuries transition from the hospital to home and community living. In addition to helping disabled people overcome the physical challenges of achieving a more active lifestyle, Northeast Passage helps individuals and their families cope with the emotional impact of disabilities.

Presenting Pompeii: Reconciling Relationships between Configuration and Conservation – Karilyn Sheldon
http://cola.unh.edu/sites/cola.unh.edu/files/student-journals/7_SPECTRUM_SHELDON.pdf

Pompeii has long been considered a city with breathtaking preservation, but disputes exist over its management, organization, and conservation. The disjointed relationship between the presentation of Pompeii and its preservation was the focus of research by classics and anthropology major Karilyn Sheldon ‘13. She concluded that the relationship between presentation, configuration, and conservation will need to be incorporated into a holistic management strategy for the preservation of Pompeii to be both long-term and sustainable.

Credit: Wikimedia Commons
Prevention Innovations
http://cola.unh.edu/thecollegeletter/2013-02/prevention-innovations
http://www.unh.edu/unhtoday/2013/02/prevention-innovations
http://www.unh.edu/campusjournal/2013/02/prevention-innovations

The faculty who comprise the Prevention Innovations research center have applied the principles of innovation and collaboration to become nationally-known for their research and prevention education practices for ending violence against women. One of Prevention Innovations’ most widely known programs is a bystander intervention program developed for college campuses. Bringing in the Bystander® is an in-person training program that teaches bystanders how to intervene safely before, during, or after an incident of sexual and relationship violence or stalking. A complementary program, the Know Your Power® Bystander Social Marketing Campaign, uses posters, bus wraps, bookmarks, and other marketing materials in a media blitz spreading the same message. Although other prevention programs are available nationally, none has included the level of assessment integral to the UNH programs. The detailed assessments demonstrate the ability of the programs to change the behavior of the participants and allow Prevention Innovations faculty to improve the programs and tailor them to the individual needs of the campuses where the programs are implemented.

Professor Invited to White House Meeting on Teen Violence
http://www.unh.edu/unhtoday/2013/03/professor-invited-white-house-meeting-teen-violence

Katie Edwards, assistant professor of psychology and women’s studies, was one of a select group of researchers to attend the “1 is 2 Many Teen Dating Violence Awareness and Prevention Month” event at the White House in February 2013. Approximately 150 individuals gathered to hear Vice President Joe Biden and other senior administration officials discuss the importance of preventing teen dating violence. Edwards’s research focuses on primary prevention of intimate partner violence, as well as how to best assist survivors in their recovery. Her goal is to use research data to implement effective prevention and intervention efforts, and to advocate for legislative policy and social change.

Professor Publishes Article on HR Perspectives
http://manchester.unh.edu/blog/campus-news/professor-publishes-article-hr-perspectives

Kelly Kilcrease, associate professor and coordinator of the business program at UNH Manchester, has had an article published in the November 2013 issue of the SMU Mustang Journal of Management and Marketing. “Perspectives from HR Executives on Computer Based Training: An Examination into Its Uses and Effectiveness Based on Organizational Size” discusses the results of a survey of seven hundred and twenty-one human resources executives from small, medium, and large organizations which explored their opinions about the software, pedagogy, and cost effectiveness of computer-based training.

Credit: University of New Hampshire at Manchester
Professor Resch Admitted to Fulbright Specialist Roster
http://manchester.unh.edu/blog/campus-news/professor-resch-admitted-fulbright-specialist-roster
http://www.unh.edu/campusjournal/2013/05/professor-resch-admitted-fulbright-specialist-roster

Jack Resch, professor of history at UNH Manchester, was admitted to the Fulbright Specialist Roster in April 2013. The roster is a directory of U.S. scholars and professionals from which host international institutions in over 140 countries can select individuals to engage with them in short-term collaborative projects. Activities can include lecturing, conducting seminars, teacher training, assessments and evaluations, special conferences or workshops, as well as collaborating on faculty development and curriculum or institutional planning. Scholars are admitted to the roster through an application process that includes review by professional peers and the J. William Fulbright Foreign Scholarship Board.

Professor Wins Top Prizes from American Historical Association for ‘The Mortal Sea’
http://www.unh.edu/news/releases/2013/11/lw06bolster.cfm#ixzz2pvDG8t59

W. Jeffrey Bolster, professor of history, has been awarded the American Historical Association’s 2013 Albert J. Beveridge Prize and the 2013 James Rawley Prize in Atlantic History for his book, The Mortal Sea: Fishing the Atlantic in the Age of Sail. These are the latest in a host of awards that Bolster has received for his book, which offers an in depth and poignant account of the history of Atlantic fishing and the human impact on the ocean.

Professor’s Book Named Finalist for 2013 George Washington Book Prize
http://www.unh.edu/news/releases/2013/feb/lw18gould.cfm

Among the Powers of the Earth: The American Revolution and the Making of a New World Empire by Eliga Gould, professor of history, has been named a finalist for the 2013 George Washington Book Prize, the largest nationwide prize for a book on early American history and one of the largest literary prizes of any kind. It recognizes the past year’s best books on the nation’s founding, especially those that have the potential to advance broad public understanding of American history. The award jury described Gould’s book as “a fresh interpretation of the international history of the American Revolution.”

Professor’s New Book Details Worldwide Financial Panic of 1837
http://www.unh.edu/news/releases/2013/10/lw29lepler.cfm#ixzz2pv9KAdFc

In The Many Panics of 1837: People, Politics, and the Creation of a Transatlantic Financial Crisis, published in October 2013, Jessica Lepler, assistant professor of history, details how in the spring of 1837, people panicked as financial and economic uncertainty spread within and between New York, New Orleans, and London. Her transatlantic cultural history, based on archival research done on two continents, reconstructs the period between March and May 1837 to make arguments about the national boundaries of history, the role of information in the economy, the personal and local nature of national and international events, the origins and dissemination of economic ideas, and, most importantly, what actually happened in 1837.
Profile in Sustainability – Margaret McCabe, Professor of Law and Associate Dean of Academic Administration and Special Projects at UNH Law

http://us1.campaign-archive1.com/?u=f961de241cfb5cbfcd3ddf440&id=1563b82eae

As chair of the Sustainable Food System Task Force, Margaret McCabe’s primary goal is to bring together colleagues with an interest in food systems from across the University – whether curriculum, operations, research, or engagement – to think about how UNH and its students can become leaders in building more sustainable food systems. McCabe is professor of law and associate dean of academic administration and special projects at the UNH School of Law and a food and society faculty scholar with the Sustainability Institute at UNH.

Pseudo-archaeology: The Appropriation and Commercialization of Cultural Heritage – Alecia Bassett

http://cola.unh.edu/sites/cola.unh.edu/files/student-journals/6_SPECTRUM_Bassett.pdf

Pseudo-archaeology, interpretations of the past from outside of the academic archaeological community that typically reject accepted scientific and analytical methods, exaggerate evidence, draw dramatic or romanticized conclusions, and often are used to propagate racist ideologies or reap commercial benefits, has been described as “one of the two greatest challenges to contemporary archaeologists- the other being the destruction of archaeological remains.” For an article in the anthropology department's undergraduate journal Spectrum, Alecia Bassett ’14 investigated the role nationalism can play in promoting pseudo-archaeology and concluded that pseudo-archaeology must be combatted to defend against its detrimental effects on cultural heritage.

Psyched About Psych Cup – Win Means UNH Hosts 2014 NHPA Academic Convention

http://www.unh.edu/unhtoday/psych-cup

Six UNH undergraduate psychology majors took home the Psych Cup by defeating six other New Hampshire university teams in a Jeopardy-style psychology trivia competition at the 2013 New Hampshire Psychological Association Academic Convention, hosted by Plymouth State University. The win means that UNH will host the 2014 edition of the Convention, which will include student workshops, the psychology trivia competition, a research presentation session, an occupational fair, and faculty workshops. The purpose of the Convention, which is free to all participants, is to bring psychology students and faculty from New Hampshire colleges and universities together for a day of information gathering, activities, and networking.
Purity in Seclusion: Exploring the Anchoritic Lifestyle through an Archaeological Lens – Monica Stewart
http://cola.unh.edu/sites/cola.unh.edu/files/student-journals/3_SPECTRUM_Stewart.pdf

The anchoresses were women in 12th to 14th century Europe who chose an extreme life of religious devotion to Christ expressed through rituals of bodily denigration, sexual celibacy, and life-long seclusion in a cell attached to the church. Anthropology major Monica Stewart ’13 cross-examined the anchoress’ worldview through the lens of sexuality and queer theory. Using archaeological and ethno-historical data, she investigated theoretical explanations for understanding the anchoritic lifestyle, addressing issues of gender, sexuality, and personhood. Her findings were published in the anthropology department’s undergraduate journal Spectrum.

Real-World Democracy – An Egyptian Fulbright Scholar’s View of Recent Events in Egypt
http://www.unh.edu/cie/newsletter/2013/fall/el-saied.html

After living in the U.S. for a year as a Fulbright scholar teaching Arabic to UNH students, Samah El Saied returned to her native Egypt in June 2013. She found that accustoming herself to her home country in the midst of its changing political and social climate was both challenging and rewarding.

Record Number of Children Covered by Health Insurance in 2011
http://www.unh.edu/news/releases/2013/feb/lw05insurance.cfm
http://www.unh.edu/campusjournal/2013/02/record-number-children-covered-health-insurance-2011

Research conducted by Michael Staley, a research assistant in the Carsey Institute at UNH and a doctoral candidate in sociology, showed that a record number of U.S. children were covered by health insurance in 2011, mostly due to substantial increases in the enrollment rates of public insurance. In addition, enrollment in private insurance continued to decline, reflecting the economic and job market of 2011, four years after the beginning of the Great Recession.

Remedy for Depression?
http://cola.unh.edu/thecollegeletter/2013-02/remedy-depression
http://www.unh.edu/unhtoday/2013/03/remedy-depression

Timothy Warner, Ph.D. candidate in psychology, studies the implications of stress and depression with psychology professor Robert Drugan. Warner’s dissertation research explores a type of depression called “anxious depression,” which, as the name suggests, refers to the experience of simultaneously suffering from symptoms of both anxiety and depression. His work will contribute to understanding the neurological pathways and mechanisms associated with depression so that more effective therapies can be developed.
Renowned UNH Researcher on Corporal Punishment Makes Definitive Case Against Spanking in New Book

http://www.unh.edu/news/releases/2013/12/lw11spanking.cfm#ixzz2pvITw2dl

Murray Straus, founder and co-director of the UNH Family Research Lab and professor emeritus of sociology, has authored a book, *The Primordial Violence*, which presents a compelling argument against corporal punishment. In the book, Strauss brings together more than four decades of research that makes the definitive case against spanking, including how it slows cognitive development and increases antisocial and criminal behavior.

Responsible Governance and Sustainable Citizenship Project

http://us1.campaign-archive1.com/?u=f961de241cfb5cbfcd440&id=1563b82eae

The Responsible Governance and Sustainable Citizenship Project (RGSCP) is a newly-established initiative at UNH that will promote ethics, citizenship, principled leadership, responsible governance, and the creation of sustainable institutions. Funded by a $5 million endowment created by the N.H. Secretary of State’s Office and the Center for Public Responsibility and Corporate Citizenship, the project initially will illuminate these important topics through the liberal arts, and eventually will expand to include students from a variety of backgrounds as partnerships are created on and off campus. Tom Kelly, chief sustainability officer at UNH, sees the RGSCP as the “next step in a unique journey of the University’s leadership in sustainability.” “Sustainability provides a novel context for re-examining the enduring questions of democracy, citizenship, and a life well-lived, and that can only be accomplished through this kind of novel partnership,” said Kelly.

Rural Children in Child Welfare System More Likely to be Given Psychotropic Medication

http://www.unh.edu/news/releases/2013/jan/lw22medication.cfm

Research conducted by Wendy Walsh, research associate professor of sociology at the UNH Crimes Against Children Research Center, and Marybeth Mattingly, director of research on vulnerable families in the Carsey Institute at UNH and research assistant professor of sociology, has shown that rural children in the child welfare system who authorities suspect have been abused are significantly more likely to have been prescribed psychotropic medication than their urban peers. Psychotropic medications usually are given to children to address emotional and behavioral problems such as attention deficit disorder, attention deficit hyperactivity disorder, autism, autism spectrum disorder, mental retardation or developmental delay, depression, anxiety, and eating disorders.
Rural Workers More Likely to Work at Middle-Skill Jobs

http://www.unh.edu/campusjournal/2013/06/rural-workers-more-likely-work-middle-skill-jobs

Justin Young, doctoral student in sociology and research assistant at the Carsey Institute at UNH, found that rural workers are more likely to work at middle-skill jobs when compared with their urban counterparts. Middle-skill jobs are defined as positions requiring at least some on-the-job training, an apprenticeship-type experience, or postsecondary education entailing no more than a two-year degree. According to Young’s analysis of data from the Annual Social and Economic Supplement to the Current Population Survey, since 2003, the percentage of workers holding middle-skill jobs has not changed in rural places but has declined slightly in urban areas, reflecting a long-term decrease in these types of occupations. Thus, national declines in the availability of middle-skill work in recent years appear to reflect an urban, rather than rural, trend.

Ruth Varner Named Director of the Joan and James Leitzel Center

http://www.unh.edu/campusjournal/2013/05/ruth-varner-named-director-joan-and-james-leitzel-center

Ruth Varner became director of the Joan and James Leitzel Center for Mathematics, Science, and Engineering Education in August 2013, replacing inaugural director Karen Graham. An associate professor in the UNH Institute for the Study of Earth, Oceans, and Space and department of earth sciences, Varner also has served as a faculty fellow in the Center for several years. Varner will draw upon the significant relationships she has built within the STEM education community at UNH and with scientists locally and internationally to lead the Leitzel Center in addressing the shortage of science, technology, engineering, and mathematics teachers and professionals in New Hampshire and nationwide.

Sarah Sherman Pens New Book on Consumerism


Sacramental Shopping: Louisa May Alcott, Edith Wharton, and the Spirit of Modern Consumerism, by Sarah Way Sherman, associate professor of English, was published recently by the University of New Hampshire Press. The heroines in both “Little Women” (1868) and “The House of Mirth” (1905) grapple with conspicuous consumption, an aspect of modernity that challenged older beliefs about ethical behavior and core identity. In her book, Sherman analyzes how Alcott and Wharton rework traditional Protestant discourse to interpret their heroines’ struggles.

Scholarly Activity and Involvement – IOD Organizational CV

http://iod.unh.edu/Research/IOD_CV.aspx

The primary academic activities of the UNH Institute on Disability serve as interlinked and mutually reinforcing components of engaged scholarship. This report describes the IOD’s scholarly activities conducted between July 1, 2012, and June 30, 2013. A complete inventory, or organizational curriculum vitae, is included.
Second-Generation Balkan War Victims Struggle with Violence, Substance Abuse

Second-generation teenage victims of the Balkan Wars (1991-2002) are struggling with violence and substance abuse, in large part because their parents were never treated for war trauma, according to research conducted by Laurence French, senior research associate at UNH Justiceworks. French, a sociologist, criminologist, and psychologist who has worked with traumatic stress clients for more than 40 years, collaborated with researchers Goran Kovacevic of the University of Sarajevo, Sarajevo, Bosnia-Herzegovina, and Lidija Nikolic-Novakovic of the International University of Novi Pazar, Pancevo, Serbia, to survey high school students from three major sectarian groups in Bosnia-Herzegovina: Muslim Bosniaks, Catholic Croats, and Orthodox Serbs. The results of their research were published in an article in the scholarly journal, Alcoholism Treatment Quarterly.

Sibling Aggression, Often Dismissed, Linked to Poor Mental Health

A new study from researchers at UNH finds that sibling aggression is associated with significantly worse mental health in children and adolescents. Led by Corinna Jenkins Tucker, associate professor of family studies at UNH, the study was unique in its size and scope and is among the first to look at sibling aggression across a wide age and geographic range. A scholarly article reporting the results of the research, “Association of Sibling Aggression with Child and Adolescent Mental Health,” was published in the July 2013 issue of the journal Pediatrics.

Sixth Graders Learn It Takes “Courage to Care”

Courage to Care, a bullying prevention program developed at UNH, has grown faster than predicted. In New Hampshire, 150 teachers in 26 schools have completed the three-day Courage to Care training so far, and more than 1,500 students have taken part in it. The program also is in use in 40 schools nationwide, with more than 2,000 students participating. Creation of the program, started in 2011, was a collaborative effort among Malcom Smith, Rick Alleva and Thom Linehan of UNH Cooperative Extension; Jeff Frigon of the UNH Browne Center for Innovative Learning; and Patrick Shannon of the UNH department of social work. In 2013, Courage to Care began to attract international attention when a team from South Korea’s public broadcasting system making a documentary about bullying prevention visited Barnstead Elementary School, where sixth-graders are participating in the Courage to Care program. The South Korean team’s film has now been seen by hundreds of thousands of viewers across Asia.
Speech Recognition and ‘Big Data’ Research at Summer Speech Academy


Michael Jonas, assistant professor in computing technology at UNH Manchester, leads the Summer Speech Academy, a program that provides students with opportunities to work on speech recognition technology projects focused on research and discoveries that may move the field forward. Jonas has invited students from UNH Manchester and area community colleges to be involved in his research for the past three years, and hopes to expand this program that helps fuel student excitement about computer science and continued education.

Student Finds Surprising Views on Slavery Among N.H. Civil War Soldiers

http://www.unh.edu/unhtoday/2013/04/student-finds-surprising-views-slavery-among-nh-civil-war-soldiers
http://www.unh.edu/news/releases/2013/apr/lw04civilwar.cfm
http://www.unh.edu/campusjournal/2013/04/unh-student-explores-nh-civil-war-soldier-attitudes-about-slavery

Nathan Marzoli ’13, a history major from Dover, investigated the attitudes of New Hampshire Civil War soldiers for his senior research project, “New Hampshire Civil War Soldiers and Slavery.” Using a variety of sources including diaries and actual letters sent by New Hampshire soldiers, Marzoli found that while New Hampshire was one of the most liberal states in the nation at the time of the American Civil War, racism was common, even among those soldiers who said they supported freeing the slaves. Marzoli discussed his project as part of the history department’s presentations at UNH’s Undergraduate Research Conference in April.

Dated June 9, 1864, a letter to his wife written by John Henry Jenks, a soldier from Keene who served in the 14th N.H. Infantry Regiment. The letter was one of the primary sources Marzoli used in his research.

Credit: UNH Media Relations

Studying the Impact of Strength-training on Older Adults

http://www.unh.edu/unhtoday/2013/04/studying-impact-strength-training-older-adults
http://www.unh.edu/campusjournal/2013/04/studying-impact-strength-training-older-adults

Assistant professor Summer Cook, along with co-investigators Dain LaRoche, a colleague in the department of kinesiology, and Pablo Arriaza, from the social work department, is exploring the effectiveness of two distinct strength-training regimens for older adults whose muscle weakness puts them at risk for mobility limitations and loss of independence. The research team, which includes undergraduate students in key roles, is comparing traditional resistance training exercises, in which participants build muscle strength by lifting heavy weights, to an innovative program that uses very light resistance coupled with blood flow restriction. Madeline Allen ’14 is helping gather data for the three-year, $360,000 National Institutes of Health-supported study, and with a grant of her own from the Grimes Family Fund, Allen is conducting her own research, a shorter sub-study that will look at effects of the training regimens six weeks into the full 12-week study.
Sue Fox Named to Commission on Medicaid Care
http://www.iod.unh.edu/About/visionandvoice/spring2013/article2_fox.aspx

Sue Fox, associate director of the UNH Institute on Disability, was appointed in the spring of 2013 to the newly-formed New Hampshire Commission on Medicaid Care Management. The commission brings together members of the public representing a broad range of experience in health care issues to review and advise on the implementation of an efficient, fair, and high-quality Medicaid management system. Commission members will draw on their expertise in managed care and payment reform models of care, Medicaid public policy, elderly affairs, children’s health, public health, mental health, developmental disabilities, and adult health care services to ensure that both patients and health care providers are protected as the state moves to a managed care model for its Medicaid program.

Summer: Sun, Fun, and Science
http://www.unh.edu/unhtoday/2013/07/excell

In 2004, the EXCELL program (Educational Excellence for English Language Learners) at UNH Manchester was developed by the University’s Center for Academic Enrichment to provide middle-school students with an experience similar to that of high school-adult summer programs in English for speakers of other languages. In 2011, EXCELL adapted its curriculum to focus on science, technology, engineering, and math (STEM), providing the students with a five-week-long opportunity to study science at UNH Manchester while continuing to develop their English language skills.

Targets of Bully Bosses Aren’t the Only Victims, New UNH Research Shows
http://www.unh.edu/news/releases/2013/feb/lw06bullying.cfm
http://www.unh.edu/campusjournal/2013/02/targets-bully-bosses-aren%E2%80%99t-only-victims-new-unh-research-shows

Abusive bosses who target employees with ridicule, public criticism, and the silent treatment can negatively impact the work environment for the co-workers of those bullied employees. In the first-ever study to investigate vicarious supervisory abuse, Paul Harvey, associate professor of organizational behavior at UNH, and colleagues from Indiana University Southeast and New Mexico State University found similar negative impacts of first-hand supervisory abuse and second-hand vicarious supervisory abuse: greater job frustration, tendency to abuse other coworkers, and a lack of perceived organizational support. In addition, the negative effects from either type of abuse were intensified if the coworker was a victim of both kinds of supervisory abuse. Full results of the research were published in the Journal of Social Psychology.
The Effect of a Barefoot Training Program on Running Economy and Performance


Exercise science major Neil Baroody ’13 helped conduct the second phase of a study to evaluate a systematic training program designed to safely teach the skill of barefoot running and then test the outcome of this training on a runner’s economy and race performance. During the ten-week barefoot training period, Baroody acted as a coach and closely monitored the runners’ training volume and schedules, soft-tissue routines, dynamic warm-ups, and running mechanics to help avoid injuries and ensure that the runners complied with the progressive training regimen. Timothy Quinn, associate professor and coordinator for the exercise science option in the department of kinesiology, led the research team.

The Institute on Disability Receives $4.3M Federal Grant to Improve National Disability Data

http://www.iod.unh.edu/About/visionandvoice/fall2013/statsrrtc_grant.aspx
http://www.unh.edu/news/releases/2013/10/mg15iod.cfm#ixzz2pv5qHWqB
http://www.unh.edu/campusjournal/2013/10/unh-receives-43m-federal-grant-improve-national-disability-data

The UNH Institute on Disability (IOD) has received a $4.3 million grant from the U.S. Department of Education’s National Institute on Disability and Rehabilitation Research (NIDRR). This five-year grant will support work by the Disability Statistics and Demographics Rehabilitation Research and Training Center (StatsRRTC) to narrow and actively bridge the divide between the producers and end users of disability statistics. It will support better data collection, more accurate information, better decision-making, and more effective programs, ultimately leading to better lives for people with disabilities.

The Research and Engagement Academy: Advancing Faculty Scholarship and Partnerships through External Funding Opportunities

http://www.unh.edu/unhtoday/2013/01/research-and-engagement-academy-advancing-faculty-scholarship-and-partnerships-through-exter

In spring 2013, the UNH Research and Engagement Academy inducted twenty faculty members into its third Academy class. The Academy is a cohort-based faculty development learning community designed to enhance faculty members’ scholarly careers by strengthening the quality and quantity of proposals submitted to external funders and increase the diversity of faculty who are awarded grant funding.

The Speed They Need

http://www.unh.edu/unhtoday/2013/01/speed-they-need

Bioinformatics has become increasingly important as biologists in fields ranging from evolution to ecology use DNA sequencing to study the world around them. The bioinformatics core facility in UNH’s Hubbard Center for Genome Studies provides bioinformatics training and consultation to students and faculty at schools across the state that are working on NH INBRE projects involving DNA sequencing. NH INBRE (New Hampshire IDeA Network of Biomedical Research Excellence) is a National Institutes of Health-supported coalition working to increase the state’s research capacity and the scientific knowledge of its workforce.
Tired UNH Students Love Their Cup of Joe, Research Study Finds
http://www.unh.edu/news/releases/2013/apr/lw24coffee.cfm

Nicole Olsen ’13, a marketing major in the Peter T. Paul College of Business and Economics, conducted a study that examined the reasons why college students consume caffeine, where and when they consume it, what types of caffeinated beverages they consume, and how much they consume daily. She found that UNH students who rely on caffeine to help them stay awake are more likely to turn to a cup of coffee than any other caffeinated beverage.

Tom Safford, Associate Professor of Sociology – Brazil
http://unh.edu/cie/tom-safford

With support from a UNH Center for International Education development grant, Tom Safford traveled to Brazil for two weeks in June and July of 2013 to initiate a new line of research examining social and environmental issues facing Brazilian coastal communities. A critical part of his trip was to identify Brazilian scholars and graduate students with whom he could work on future research projects. Safford discovered great opportunities for research collaboration with colleagues at the Universidade Federal Fluminense and the Universidade Estadual Norte Fluminense in the regional center of Campos dos Goytacazes.

Training Director to Receive Doctorate
http://iod.unh.edu/About/visionandvoice/winter2013/sidebar1_betsy.aspx

For her dissertation research, Betsy Humphreys, interdisciplinary training director for the New Hampshire Leadership in Neurodevelopmental Disabilities (NH LEND) program based in the UNH Institute on Disability, examined insurance claims data from the NH Comprehensive Healthcare Information System to determine the timing of autism spectrum disorder diagnoses for a sample of children who received or did not receive developmental screening during well-child care. She found that, overall, the average age of diagnosis was just under 29 months, an indication that New Hampshire’s early identification efforts are progressing.

Two Professors Recognized for Lifetime Achievements in Research
http://www.unh.edu/research/sites/unh.edu.research/files/docs/RES_areas/Digest_13/HB%26SS_Two_Professors_Restricted_for_Lifetime_Achievements_in_Research.pdf

David Finkelhor, director of the UNH Crimes Against Children Research Center, co-director of the UNH Family Research Lab, and professor of sociology, has been awarded the William Friedrich Child Sexual Abuse Research, Assessment, and/or Treatment Award for his substantial contributions to the field of child maltreatment, especially child sexual abuse. Murray Straus, founder and co-director of the UNH Family Research Lab and professor emeritus of sociology, has been awarded the Linda Saltzman Memorial Intimate Partner Violence Researcher Award for his substantial contributions to the field of intimate partner violence. Finkelhor and Strauss were presented with these awards recognizing their lifetime achievements in research at the 18th International Conference on Violence, Abuse, and Trauma in September, 2013.
Unemployment Restricts Access to Kidney Transplants, UNH Research Finds

According to a new collaborative research study led by UNH, people in end-stage kidney failure in need of a transplant are much less likely to be placed on a waiting list or to actually receive a new kidney once on the list if they are unemployed or work part-time. The research was conducted by Robert Woodward, the Forrest D. McKerley Endowed Chair in Health Economics, and by researchers at the University of Pittsburgh Medical Center, the University of Massachusetts Memorial Medical Center, and the Transplant Institute at Beth Israel Deaconess Medical Center. Woodward and his collaborators suggest that patients who are more likely to experience barriers to transplants based on employment status could benefit from increased interaction between patients, social workers, and other medical personnel, including case managers and financial specialists.

UNH ADVANCE Awards Leadership, Collaboration Grants to Faculty

In the spring of 2013, the UNH ADVANCE program, a National Science Foundation-supported initiative to increase the representation and advancement of women in academic science and engineering careers, awarded its Collaborative Scholarship Advancement Awards and the 2013 Karen Von Damm Leadership Development Grant. The latter is designed to help female faculty members assume leadership roles within the University while maintaining their research programs. It honors Von Damm, a world-renowned UNH chemical oceanographer who passed away in 2008. Jo Daniel, associate professor of civil engineering, received the 2013 Karen Von Damm Leadership Development Grant.

UNH Analysis Leads to Change in How Child Support is Calculated in N.H.

An extensive analysis of New Hampshire child support guidelines by a UNH team resulted in a substantial change in how child support is calculated in the Granite State, effective July 1, 2013. UNH researchers recommended that the state adopt the income shares model for calculating child support. Under the new formula, the incomes of each parent are combined to determine the total amount that would have been spent on the child, and each parent’s contribution toward child support is allotted based on that joint income figure. The state is required to have its child support guidelines reviewed every four years; this was the first time a team from UNH conducted the analysis. This review was conducted by Malcolm Smith, UNH Cooperative Extension professor and affiliate professor of education; Michael Kalinowski, associate professor of family studies; Reagan Baughman, associate professor of economics; and Megan Henly, a doctoral student in sociology.
UNH British Historian Available to Discuss Royal Birth, Succession Tradition, and Why Americans Love the Royals

http://www.unh.edu/news/releases/2013/jul/lw19royals.cfm

Nicoletta Gullace, associate professor of history, studies 20th century and modern British history. She offers insights into the significance and broader impacts of the legal change in royal succession, modern influences on the royal family, and why Americans are interested in the British royals.

UNH British Historian Explains Appeal of Downton Abbey

http://www.unh.edu/unhtoday/2013/01/unh-british-historian-explains-appeal-downton-abbey

It may be the elegant and nostalgic lifestyle depicted in the PBS TV series *Downton Abbey* that has captured the imaginations of American viewers, according to Nicoletta Gullace, associate professor of history. She explains that Americans may be intrigued by *Downton Abbey* and this period of British history because of its combination of tradition and modernity. Gullace also notes that, while the fashion and traditions of the time are intriguing, today's independent women would be hard pressed to live within the constraints experienced by early 20th century women of the Edwardian era.

UNH Carsey Institute Experts Available to Discuss SNAP Usage and Benefits

http://www.unh.edu/news/releases/2013/jun/lw07snap.cfm

UNH Carsey Institute Experts Available to Discuss U.S. Poverty Trends

http://www.unh.edu/news/releases/2013/sep/lw12carsey.cfm
http://www.unh.edu/news/releases/2013/10/lw30carsey.cfm#ixzz2pv9ti4Bx

The Carsey Institute at UNH has a variety of resources available to help journalists understand usage patterns and the benefits of the Supplemental Nutrition Assistance Program (SNAP), formerly known as Food Stamps, as well as trends in child poverty. Marybeth Mattingly, director of research on vulnerable families, and Jessica Carson, vulnerable families research scientist, can be contacted to discuss these topics. In addition, a number of policy briefs and research reports present insights and relevant data addressing these issues.

UNH Experts Available to Discuss Syria

http://www.unh.edu/news/releases/2013/sep/lw06syria.cfm

Nine faculty experts were available in September 2013 to discuss the political, historical, foreign policy, national security, and economic ramifications of U.S. military action in Syria. They were: Dante Scala, associate professor of political science (U.S. presidential politics and domestic politics); Kurk Dorsey, associate professor of history (U.S. foreign policy); Marion Dorsey, associate professor of history (history of the use of gas and chemical weapons in warfare); Alynna Lyon, associate professor of political science (history of U.S. foreign policy in the Middle East and humanitarian intervention); Jeannie Sowers, associate professor of political science (politics and history of the Middle East); Lionel Ingram, Murkland Lecturer in Political Science (international and national security policy); and Neil Niman, chair of the UNH department of economics and associate professor of economics (impact on the U.S. economy).
UNH Historian Wins Prestigious 2013 Bancroft Prize
http://www.unh.edu/news/releases/2013/mar/lw18bancroft.cfm

W. Jeffrey Bolster, associate professor of history, was one of two recipients of the 2013 Bancroft Prize for his gripping and eloquent history of the human impact on the ocean, titled *The Mortal Sea: Fishing the Atlantic in the Age of Sail*. The Bancroft Prize is awarded annually by the trustees of Columbia University. Winners are judged in terms of the scope, significance, depth of research, and richness of interpretation they present in the areas of American history and diplomacy. In 2013, 223 books were nominated for prize consideration. According to Columbia University, the winning works, while different in subject matter, demonstrate the powerful impact of re-examination of historical events in an ever-changing and ever-evolving world.

UNH Historian’s Book about JFK’s Assassination to Become Major Documentary
http://www.unh.edu/news/releases/2013/apr/lw05jackie.cfm
http://www.unh.edu/unhtoday/2013/04/academy-award-winners-part-star-studded-tlc-production

On November 17, 2013, *Letters to Jackie: Remembering President Kennedy* premiered nationwide on TLC as an exclusive television event to mark the 50th anniversary of the president’s assassination. Based on the book *Letters to Jackie: Condolences From a Grieving Nation* by Ellen Fitzpatrick, professor of history, the film examines the extraordinary collection of letters sent to First Lady Jacqueline Kennedy following the president’s assassination, creating a moving portrait of the nation’s grief from this cross-section of American life. The two-hour film featured highly-acclaimed actors and was executive produced by Academy Award-winning documentary filmmaker Bill Couturié’s The Couturie Company, in partnership with Amblin Television.

JFK Movie Based on UNH Historian’s Book Premieres on TLC Nov. 17
http://www.unh.edu/news/releases/2013/11/lw04fitzpatrick.cfm#ixzz2pvAvdzmC

UNH Institute to Coordinate Improved Children’s Health Care in N.H.
http://www.unh.edu/news/releases/2013/jan/bp23chip.cfm

The Institute for Health Policy and Practice at UNH (IHPP) has been selected to coordinate development of the state’s first Child Health Improvement Partnership, or CHIP. With support from a grant from the Endowment for Health, IHPP will develop the infrastructure for this new collaboration of public and private health care partners aimed at improving the quality of children’s health care in the state. Jo Porter, IHPP deputy director, is principal investigator for the project, while Dr. Alison Holmes, a pediatrician practicing at Dartmouth-Hitchcock Medical Center and assistant professor of pediatrics at Dartmouth’s Geisel School of Medicine, will serve as the NH CHIP’s medical director.
UNH Law, Health Policy Institute Form Partnership for Health Law Expertise

http://www.unh.edu/news/releases/2013/11/bp13unhlaw.cfm#ixzz2pvEUQy00
http://www.unh.edu/campusjournal/2013/11/partnership-formed-further-health-law-expertise

In November 2013, the Institute for Health Policy and Practice at UNH and the UNH School of Law launched a formal partnership to build an applied research and teaching program in health law. This partnership will strengthen each entity’s capacity to serve the state and the nation in the quest for optimal health and the policy that supports it.

UNH Manchester Professor Resch Receives Distinguished Professor Award

http://manchester.unh.edu/blog/campus-news/unh-manchester-professor-resch-receives-distinguished-professor-award

Jack Resch, professor of history and coordinator of the Humanities Program at UNH Manchester, was named the recipient of the University’s Distinguished Professor Award in 2013. The award is the only University-wide award given each year to a faculty member whose overall record of excellent teaching, caring about students, devotion to the University community, and substantial record of scholarly achievement exemplifies a distinguished career.

UNH Prof: For Children in Military Families, Grief Often Misunderstood

http://www.unh.edu/news/releases/2013/jan/bp15military.cfm

New research by Pablo Arriaza, assistant professor of social work, explored the unique grief responses of children of military families in the context of ongoing and frequent deployments. “Grief Among Children of Military Families,” published recently in the Illinois Child Welfare Journal, was co-authored by Kerri Cornelissen, who completed her master’s degree in social work at UNH in 2011. Based on the results of the research, the study’s authors provide guidelines for military families in different cycles of deployment.

UNH Professor Available to Discuss Anticipated Lance Armstrong Apology

http://www.unh.edu/news/releases/2013/jan/lw16smith.cfm

Nick Smith, associate professor of philosophy and author of I Was Wrong: The Meaning of Apologies, is available to discuss Lance Armstrong’s public apology, as well as apologies by public figures in general. “Apologies are promises to change. Like promises, we cannot judge them fully in the moments they are spoken,” says Smith. “Wrongdoers need time to search for the deepest values that orient their lives and to begin rebuilding their futures with habits that honor those principles. Although it may not make for good television, this sort of persistent growth creates good people. Moral development does not occur within a news cycle,” he says.
UNH Professor: Growing Demand for ‘Green’ Technologies Threatens Environmental, Humanitarian Nightmare

http://www.unh.edu/campusjournal/2013/05/unh-professor-growing-demand-%E2%80%98green%E2%80%99-technologies-threatens-environmental-humanitarian-nightmare

As global consumers demand more “green” technologies and advanced products, people living in areas where substances are extracted to be used in the manufacture of such products face increasing environmental and humanitarian devastation, according to a new analysis by Stacy VanDeveer, associate professor of political science. In his analysis, VanDeveer discusses three substances that play important roles in the “green technology” revolution: coltan, lithium, and rare earth minerals. The analysis, “Resource Curses: Redux, Ex-Post, or Ad Infinitum?” is presented in a new report titled Backdraft: The Conflict Potential of Climate Change Adaptation and Mitigation, published by the Woodrow Wilson International Center for Scholars.

Credit: Woodrow Wilson International Center for Scholars

UNH Professors Hold Workshops for Girls Technology Day

http://manchester.unh.edu/blog/campus-news/unh-professors-hold-workshops-girls-technology-day

UNH Manchester professors Mihaela Sabin and Michael Jonas of the Computing Technology program held workshops for eighth-, ninth- and tenth-graders during the first annual Girls Technology Day on March 14, 2013. Held at the New Hampshire Technical Institute in Concord, N.H., the event included ten workshops covering topics ranging from cybersecurity to 3D modeling. Girls Technology Day is designed to promote computing, engineering, and technology to junior high and high school girls.

Credit: University of New Hampshire at Manchester

UNH Report: Recession Did Not Lead to More Violence Against Children

http://www.unh.edu/news/releases/2013/may/lw13finkelhor.cfm
http://www.unh.edu/campusjournal/2013/05/unh-report-recession-did-not-lead-more-violence-against-children

A new study from the UNH Crimes Against Children Research Center shows that there has not been a recession-related increase in violence exposure among children and youth. The research tracking more than 50 forms of violence, crime, bullying, and child maltreatment from 2008 to 2011 found that levels of most forms of violence either declined or stayed the same. The study, the National Survey of Children’s Exposure to Violence, was funded jointly by the U.S. Department of Justice and the Center for Disease Control and Prevention, and was led by David Finkelhor, professor of sociology and director of the UNH Crimes Against Children Research Center.
UNH Research: Nearly 1 in 10 Young People Report Perpetrating Sexual Violence

Kimberly Mitchell, research associate professor of psychology at the UNH Crimes Against Children Research Center, and Michele Ybarra, president and research director of the Center for Innovative Public Health Research in San Clemente, California, estimated adolescent sexual violence perpetration by analyzing data for 1,058 young people between the ages of 14 and 21 years in the Growing Up with Media study. They found that nearly 1 in 10 people 21 years of age or younger reported perpetrating some type of coercive or forced sexual violence during their lifetime. Perpetrators reported more exposure to media that depicted sexual and violent situations. This study was supported by a cooperative agreement with the Centers for Disease Control and Prevention.

UNH Research: Post-Run Ice Baths Not Beneficial for Strength, Soreness

Research led by Naomi Crystal ’11G found that subjects who engaged in post-exercise cryotheraphy, or ice baths, experienced no difference in strength or perceived soreness when compared with a control group. Crystal conducted the study, which was her master’s thesis work, in collaboration with associate professor of kinesiology Dain LaRoche, assistant professor of kinesiology Summer Cook, and Dave Townson, associate professor of molecular, cellular, and biomedical sciences.

UNH STEM Discovery Lab Inspires a New Generation

The UNH STEM Discovery Lab, which opened in Fall 2013, was created in partnership with the Manchester School District, Granite United Way, Mill Falls Charter School, and other community organizations to provide a challenging, hands-on learning community for K-12 students and their teachers in the fields of Science, Technology, Engineering, and Mathematics (STEM) and language arts through a research-based curriculum. The Norwin S. and Elizabeth N. Bean Foundation has awarded a grant of $25,000 to UNH Manchester to support the continued development of the Lab.
UNH Student Receives Prestigious American Cancer Society Fellowship

http://www.unh.edu/news/releases/2013/apr/bp29jeng.cfm

Biomedical sciences major Jenny Jing ’13 was selected as an Alvan T. – Viola D. Fuller Junior Research Fellow by the American Cancer Society in the spring of 2013. The prestigious Fuller Fellowships give undergraduate students from New England an opportunity to work in laboratories performing cancer-related research for ten weeks during the summer. Jing worked in the Massachusetts General Hospital laboratory of Andrea McClatchey, professor of pathology at the Harvard Medical School with the support of the fellowship, and plans to pursue a joint M.D./Ph.D.

UNH Terrorism Experts Available

http://www.unh.edu/news/releases/2013/apr/lw16terrorism.cfm

The following UNH experts on terrorism are available to discuss concerns: Cesar Rebellon, associate professor of sociology, and Lionel Ingram, senior lecturer of political science (global and national terrorism trends); Charles Putnam, co-director of Justiceworks at UNH (investigating a terrorist attack); and David Finkelhor, director of the UNH Crimes Against Children Research Center (trauma in children, and how to talk to your children about the attack). As a member of the N.H. Attorney General’s Office, Putnam was involved in New Hampshire’s response following the terrorist attacks of Sept. 11, 2001.

Wilderness Therapy Programs Less Risky Than Daily Life, UNH Research Finds

http://www.unh.edu/news/releases/2013/mar/bp28wilderness.cfm

Michael Gass, professor of outdoor education in the kinesiology department, and Stephen Javorski, a doctoral student, found that adolescents participating in wilderness and adventure therapy programs are at significantly less risk of injury than those playing football, and that these teens are three times less likely to visit the emergency room for an injury than if they were at home. These findings, based on an analysis of risk management data from 12 programs providing outdoor behavioral healthcare in 2011, were reported in the Journal of Therapeutic Schools and Programs.

Young Adults Enliven and Inspire the NEGC

http://www.iod.unh.edu/About/visionandvoice/spring2013/article6_negc.aspx

Through the work of its Transitions group, the New England Genetics Collaborative (NEGC) focuses on the transition of adolescents with special health care needs from pediatric to adult health care. To reduce barriers to care, the group is gathering information on the health care status of young adults with genetic conditions, developing tools to assist in the process, and increasing awareness and support for successful transitions by sharing experience, information, and expertise. The NEGC is now working to include youth voices as part of its six-state Advisory Committee and through participation in the Transitions group.
Youth and Vegetative Renewal in Ancient Maya Religious Ideology – Emma Pankey
http://cola.unh.edu/sites/cola.unh.edu/files/student-journals/1_SPECTRUM_Pankey.pdf

For an article published in the anthropology department undergraduate journal Spectrum, Emma Pankey ’14 examined historical evidence of the practice of child sacrifice among the ancient Maya, seeking to understand how this ritual expressed the direct relationship that existed for the Maya between children and their generation of key crops, such as maize. She concluded that the sacredness of children in ancient Maya religion should be recognized explicitly.

"Who Will [Independence] Please but Ambitious Men?": Rebels, Loyalists, and the Language of Liberty in the American Revolution

Supported by an Undergraduate Research Award (URA) from the Hamel Center for Undergraduate Research, history major Alexa Price ’13 conducted research in various archives throughout New Hampshire, hoping to discover the reasons why men chose to remain loyal to Britain during the time of the American colonies’ fight for independence. Her explorations led her to a new research topic, a study focused on loyalist rhetoric in regards to liberty and representation that revealed surprising similarities in the ideologies that supported both patriotism and loyalty.

Alexa Price portraying a loyalist refugee at a living history event
Credit: Willow Brook Photography, Pittsfield, VT
**Humanities & the Arts**

**2013 in Books, Recordings, and Film**

Highlights of scholarly and creative works produced by faculty in the College of Liberal Arts (COLA) in 2013 include a collection of scholarly essays on Margaret Fuller, a CD of the UNH Wind Symphony, and a documentary film about President John F. Kennedy. In addition to the works highlighted, the scholarly and creative efforts of COLA faculty included journal articles, book chapters, white papers, visual art, scores, scripts, lectures, art exhibitions, recitals, and theatre and dance productions.

**Adjunct English/Journalism Professor to Publish First Novel**

Adjunct professor David Cataneo has published his first novel, *Eggplant Alley*. The young adult work is focused on Nicky Martini, a thirteen-year-old boy growing up in the Bronx during the 1970s. Cataneo teaches classes in English and journalism at UNH, and has previously authored six nonfiction books.

**Adjunct Professor Illustrates Children's Book**
http://manchester.unh.edu/blog/campus-news/adjunct-professor-illustrates-childrens-book


**At English Professor's Core is Research and Love of Learning**
http://www.unh.edu/campusjournal/2013/02/english-professors-core-research-and-love-learning

Gail Fensom, director of the first-year writing program at UNH Manchester, considers herself to be a researcher as well as a teacher. “My classrooms are my research labs and my students are my subjects,” she says. Fensom has used what she’s learned in her classrooms to help college students pick up the writing and reading fundamentals they may have missed along the way.

**Brigitte Bailey Co-edits Collection on Margaret Fuller**
http://www.unh.edu/campusjournal/2013/05/brigitte-bailey-co-edits-collection-margaret-fuller

UNH associate professor of English Brigitte Bailey co-edited a collection of scholarly essays on Margaret Fuller, titled *Margaret Fuller and Her Circles*. The work examines the life, writings, and social reform efforts of Fuller (1810-1850). Each contributing author offers new insight into this iconic figure of the antebellum period and the Transcendentalist movement.
Extending the Conversation: Julee Holcombe

UNH associate professor and artist Julee Holcombe uses collage art and photography to depict travel-inspired cityscapes. Her latest series, “Made in Chimerica,” creates a visual dialogue of life in China and America. Holcombe has participated in more than forty exhibitions and has received two UNH Summer Faculty Fellowships to support her work.

From Fiction to Film: An Interview with Author Tom Paine
http://cola.unh.edu/thecollegeletter/2013-03/fiction-film
http://www.unh.edu/unhtoday/2013/03/fiction-film-interview-author-tom-paine

“The Hot War,” a story by UNH associate professor of English Tom Paine, was featured in the January 2013 issue of the literary magazine Zoetrope: All-Story. Paine teaches creative writing courses to both undergraduates and students in UNH’s Masters of Fine Arts in Writing program. In a video interview for The College Letter, Paine discussed his teaching style, early inspiration, and his connection to Francis Ford Coppola.

History Book Prizes

History professor Jeffrey Bolster, author of The Mortal Sea, recently won the North American Society for Oceanic History’s John Lyman Book Award, presented to the best book in U.S. maritime history. Eliga Gould, professor and chair of the history department, was awarded the SHEAR Book Prize from the Society for Historians of the Early American Republic for his book Among the Powers of the Earth.

Little Icons
http://cola.unh.edu/thecollegeletter/2013-09/little-icons
http://www.unh.edu/campusjournal/2013/09/art-words-painting-poems-charles-simic

Portsmouth artist and salon owner John Angelopoulos created a series of paintings inspired by the early poetry of UNH professor emeritus Charles Simic. Describing the paintings as “little icons” reminiscent of Byzantine-era mosaics, Angelopoulos’s work depicts the darkness and humor present in Simic’s internationally acclaimed poetry. The paintings were displayed in the Special Collections of the UNH Dimond Library in October of 2013. The exhibit, “Relaxing in a Madhouse, Paintings by John Angelopoulos, Poems by Charles Simic,” displayed Simic’s original poems alongside Angelopoulos’s interpretations. Simic, a former U.S. Poet Laureate, teaches in UNH’s Masters of Fine Arts in Writing program.
On the Bookshelf: New Edited Collection by Kevin Healey
http://www.unh.edu/campusjournal/2013/05/bookshelf-new-edited-collection-kevin-healey

Kevin Healey, assistant professor in the department of communication, co-edited a book titled *Prophetic Critique and Popular Media: Theoretical Foundations and Practical Applications*. The book introduces several perspectives from authors examining how the idea of the “prophetic” interacts in both secular and religious analysis of media.

Professor Publishes Book on Pioneering Work of Donald Graves
http://www.unh.edu/campusjournal/2013/05/professor-publishes-book-pioneering-work-donald-graves

Professor of English Tom Newkirk has co-authored a book on the impact of the work of Donald Graves, founder of the UNH Writing Process Laboratory. Included with the book is a DVD featuring Graves introducing his pioneering teaching strategies to young writers. Newkirk is the author of several other books focused on the teaching of composition and literacy.

Rachel Trubowitz: Puzzle-Solving, from Milton to Motherhood
http://www.unh.edu/campusjournal/2013/01/research-profile-rachel-trubowitz-puzzle-solving-milton-motherhood

With the help of a UNH Humanities Center grant, professor Rachel Trubowitz of the department of English has published a book titled *Nation and Nurture in Seventeenth-Century English Literature*. The interdisciplinary work examines the connections between art, history, and the mother-child bond. Her next project, “Milton and Mathematics,” will be another step in Trubowitz’s efforts to discover how pieces connect, as she seeks to understand the “mathematical mindset and how Milton connects that with a kind of ethics.”

Say Yes to the Dress
http://www.unhmagazine.unh.edu/w13/embellishments.html

Guest curator Astrida Schaeffer, a costume historian, has worked to preserve and understand the stories behind a collection of Victorian-era dresses in the UNH Museum’s collection. The dresses were collected during the 1920s and 1940s by former UNH home economics professor Irmia Bowen. Schaeffer works to educate the public on the role of textiles in history and values the importance of preserving these delicate artifacts for future generations.

The Beijing Scene
http://cola.unh.edu/thecollegeletter/2013-12/beijing-scene

Art student Jennifer Lindsay ’14 combined her passions for Chinese culture and self-expression into a unique study abroad project. Under the guidance of her advisor, associate professor of sociology Chris Reardon, Lindsay traveled throughout Beijing to conduct interviews with contemporary Chinese artists. Her project, titled “Contemporary Art with Chinese Characteristics: Relations Between Beijing Artists and the Chinese Government Post-1989,” examines the dynamic and sometimes controversial role of the artist in modern China.
The Science of Art: Turning Used Metal into Sculptures
http://www.unh.edu/campusjournal/2013/07/science-art-turning-used-metal-sculptures

Works by nationally-known sculptor Wendy Klemperer will be featured in UNH’s Museum of Art through 2015. The exhibit features Klemperer’s recreations of animal skeletons from scrap metals once used in buildings and bridges. Klemperer is based in Brooklyn but spends part of each year in Nelson, New Hampshire.

UNH Manchester Professor Receives Distinguished Professor Award
http://www.unh.edu/campusjournal/2013/04/unh-manchester-professor-receives-distinguished-professor-award

Jack Resch, professor of history and coordinator of the humanities program at UNH Manchester, received the University’s Distinguished Professor Award in 2013. This award is given annually to highlight the significant achievement of faculty members in UNH’s scholarly community. It is the only University-wide award given each year to the faculty member whose overall record of excellent teaching, caring about students, devotion to the University community, and substantial record of scholarly achievement exemplifies a distinguished career.

UNH Professor Dedicates Original Composition to Families of Newtown, Conn.
http://www.unh.edu/news/releases/2013/apr/lw18music.cfm
http://www.unh.edu/unhtoday/2013/04/newtown
http://www.unh.edu/campusjournal/2013/04/unh-professor-dedicates-original-composition-families-newtown-conn

UNH professor of music David Ripley created a new arrangement of his composition, “The Sleeping of a Child,” to honor the families affected by the tragedy in Newtown, Connecticut. Under Ripley’s direction, the UNH Concert Choir performed “The Sleeping of a Child” in a free concert at the Johnson Theater on May 5, 2013. Jazz pianist Brian Raymond, a graduate student in music education, electronically adapted Ripley’s hand-written score using a computer, and helped create the voice and harp parts. Ripley credits UNH’s resources and collaborative atmosphere for allowing him to pursue the tribute.

UNH Wind Symphony CD "The Music of Daniel Bukvich" Earns Grammy Entry List Appearance
http://cola.unh.edu/article/2013/10/bukvich-grammy-entry

A CD by the UNH Wind Symphony was awarded a Grammy Entry List Appearance from the National Academy of Recording Arts and Sciences. “The Music of Daniel Bukvich,” which was recorded in the spring of 2013, was highlighted by the Academy for both Album of the Year and Best Orchestral Performance.
Marine & Ocean Sciences

Beyond the Claw Crackers: Investigating a Neurobiological Bridge between the Environment and Behavioral Rhythms in Juvenile American Lobsters
http://www.unh.edu/inquiryjournal/spring-2013/beyond-claw-crackers-investigating-neurobiological-bridge-between-environment-and

Under the mentorship of professor of zoology Win Watson, neurobiology major Cody White ’13 pursued a senior thesis research project investigating the genetics underlying circadian clocks in American lobsters. White and Watson plan to submit an article for publication in a scientific journal focusing on how the lobster can be used as a model organism for understanding the role of genetics in nocturnal activity. White describes his undergraduate research experience as the highlight of his academic career and has applied to several graduate programs to continue his studies.

Fishermen, Meet the Customers
http://unhmagazine.unh.edu/w13/erik-chapman.html

UNH Cooperative Extension and UNH Sea Grant have teamed up with local residents and fishermen to establish community-supported fisheries. The fisheries, which support local fishermen financially while allowing members access to fresh, sustainably caught seafood, are helping to revitalize New England fishing communities.

GEBCO/Nippon Foundation Trains World’s Ocean Scientists at UNH
http://www.unh.edu/cie/newsletter/2013/spring/gebco.html

Since 2004, the UNH Center for Coastal and Ocean Mapping/Joint Hydrographic Center (CCOM/JHC) has played host to the Nippon Foundation/GEBCO Postgraduate Ocean Bathymetry training program, the only deep-ocean mapping training program in the world. UNH welcomes six international scholars each year to participate in the intensive one-year program. Scholars study alongside other postgraduate students at CCOM/JHC, developing the skills they will need for a career in deep-ocean mapping. GEBCO (General Bathymetric Chart of the Oceans) is the only international organization with the mandate to map the entire World Ocean, providing the most authoritative, publicly available bathymetric (a kind of underwater topography) datasets for the world’s ocean floor. The Nippon Foundation’s mission is to support social innovation by citizens, corporations, nonprofit organizations, governments, and international bodies to give all of humanity the chance to participate in creating the future.
Graduate Student Receives Ford Foundation Dissertation Fellowship
http://www.unh.edu/news/releases/2013/may/bp22fellowship.cfm
http://www.unh.edu/campusjournal/2013/05/graduate-student-receives-ford-foundation-dissertation-fellowship

Ocean engineering Ph.D. student Sylvia Rodriguez-Abudo was awarded a prestigious Ford Foundation fellowship to pursue her dissertation research, “Seabed Roughness in the Coastal Ocean.” Her work will provide detailed measurements of the physics of the seabed, helping to improve models used to predict beach erosion in response to forces such as hurricanes, tsunamis, or sea level change. Working with her advisor, associate professor of mechanical engineering Diane Foster, Rodriguez-Abudo expects to complete her dissertation in 2014.

Land Blubber – A Stinky Minke Gives Shoals Marine Laboratory Students Unique Dissection
http://www.unh.edu/unhtoday/2013/07/minke-whale

During the summer of 2013, the dissection of a deceased minke whale provided a hands-on learning experience for a group of ten undergraduate marine biology students – including 3 from UNH – in the UNH/Cornell University Shoals Marine Laboratory class “Whales, Seals and Sharks.” Under the guidance of Cornell professor Willy Bemis, the students traveled to where the whale had beached on a private residential property in Cape Elizabeth, Maine, and, while preparing the carcass for disposal, learned about the anatomy and evolutionary adaptations of minke whales, the most common whale in the Gulf of Maine. The whale’s skeleton, divided into sections, was sent to Shoals Marine Laboratory’s Portsmouth base, where it will be cleaned for future study.

New NSF EPSCoR Award Tackles Problems Related to Closure of Shellfish Beds and Beach Advisories
http://www.unh.edu/news/releases/2013/jul/ej25epscor.cfm

As part of the NH EPSCoR program, the New England Sustainability Consortium (NEST) will analyze how to best approach public resource issues that are impacting shellfish beds and beach advisories along the New England seacoast. UNH and the University of Maine will collaborate to study the diverse ecosystems that are affected by pollution. The researchers will then use the principles of sustainability to focus on how best to address the environmental and economic impacts.

One Potato, Two Potato, Sea Potato
http://www.unh.edu/unhtoday/2013/06/sea-potato
http://www.unh.edu/news/releases/2013/apr/bp03sea.cfm

UNH plant biology graduate students Lindsay Green and Hannah Traggis have been credited with spotting the “sea potato” (Colpomenia peregrine) seaweed while SCUBA diving in the Gulf of Maine. The seaweed was documented in Nova Scotia in the 1960s but never on the U.S. Atlantic coast until Green’s and Traggis’s diving trip in 2011. While the researchers are describing the new species as “introduced” rather than “invasive,” they plan to work with other scientists to monitor how this new organism might impact local ecosystems. Collaborators with Green and Traggis on this work include UNH professors of plant biology Arthur Mathieson and Christopher Neefus, and Clinton Dawes of UNH’s Jackson Estuarine Laboratory and the University of South Florida.

Credit: Hannah Traggis
Research Confirms Bottom-Feeding Behavior of Humpback Whales
http://www.unh.edu/news/releases/2013/10/bp30humback.cfm
http://www.unh.edu/campusjournal/2013/10/research-confirms-bottom-feeding-behavior-humpback-whales

UNH professor Colin Ware of the Center for Coastal and Ocean Mapping was lead author on a study published in *Marine Mammal Science*, reporting that humpback whales in the southern Gulf of Maine spend more of their feeding time on the ocean floor than in any other feeding behavior, making them more susceptible to entanglement in fishing gear. Ware and his collaborators gathered data from 52 humpback whales by affixing DTAGs – synchronous motion and acoustic recording devices – to the whales’ backs and then, for the first time, tracking the movements of the whales below the ocean’s surface using TrackPlot, a custom software tool developed by Ware.

Researchers Search for Non-Native Species That Threaten N.H.’s Coast
http://www.unh.edu/news/releases/2013/aug/rr02estuary.cfm

In August, a team of researchers conducted a search of New Hampshire’s seacoast for non-native marine species that could threaten native populations of shellfish and damage waterfront structures such as piers, docks and pilings, as well as threaten public health through disease and pathogens. The one-day New Hampshire sweep was part of a six-day effort to collect, identify, and catalog marine organisms in coastal waters from Maine’s mid-coast to Cape Cod and Rhode Island. To ensure that New Hampshire’s coast was included in the wider study, the Piscataqua Region Estuaries Partnership (PREP) provided financial support for the effort.

School of Fish - Research Takes Pre-Medical Student into International Waters
http://www.unh.edu/unhtoday/2013/07/endocrinology

UNH pre-med student Tim Marquis is actively involved in the research being conducted in the laboratory of Stacia Sower, Director of the UNH Center for Molecular and Comparative Endocrinology. Working alongside Masumi Nozaki, an internationally renowned Japanese comparative neuroendocrinologist who was visiting the lab to collaborate with Sower’s team, Marquis is contributing to understanding how the brain controls the expression of hormones related to reproduction. Marquis plans to continue in research after completing medical school.

Student Research Engages the Community
http://www.unh.edu/unhtoday/2013/04/student-research-engages-community

Anthropology and history major Courtney Mills ’13 is one of many undergraduate students at UNH conducting research in classrooms, laboratories, and in the field that could have major impacts in New Hampshire’s communities. Mills studied codfish bones from local archeological sites and used collected records to map past patterns of overfishing. Her data will help establish a historical context from which fishery management experts can better understand the current codfish crisis in New England seawaters. Mills was one of more than 1,300 undergraduates whose work was featured at UNH’s 14th annual Undergraduate Research Conference in April of 2013.
The View from the Coast: A Scientist Conducts Environmental Research That Measures Beliefs Not Bacteria

http://cola.unh.edu/thecollegeletter/2013-12/view-coast
http://unh.edu/campusjournal/2013/12/view-coast-scientist-conducts-environmental-research-measures-beliefs-not-bacteria

Tom Safford is one of several social scientists on a team of researchers studying the coastal ecosystem in Maine and New Hampshire, assessing natural processes and human activity that cause bacterial outbreaks, beach erosion, and other ecosystem threats. Equally important is how decision-makers, the public, and other stakeholders perceive those threats and how scientific data is used to determine actions such as beach or shellfish bed closures. His job isn’t to try to change people’s perceptions or behaviors, but to supply the data that will allow those involved in environmental issues to make informed decisions.

The Yin and Yang of Coastal Carbon

http://www.eos.unh.edu/Spheres_0313/carbon.shtml

Doug Vandemark, research associate professor and director of UNH’s Ocean Process Analysis Laboratory, is working with a team of colleagues using buoy and cruise data to understand the patterns of how the level of carbon dioxide in the ocean is contributing to ocean acidity and the changing climate. After gathering enough data year after year to provide a time series – measurements of sufficient length, consistency, and continuity to determine climate variability and change – the UNH researchers have now shown that the Gulf of Maine is neither a clear sink nor source of carbon dioxide but, rather, a sort of recycling center for the greenhouse gas. But as carbon dioxide levels continue to rise in both the atmosphere and the ocean, even longer-term measurements, on the scale of decades, will be required to help develop the models needed to accurately predict future changes and to address the environmental and economic issues resulting from the rising ocean acidity on our nation’s east and west coasts and in many other areas of the world.

Troubled Waters: Research Scientist Takes Expertise In Ocean Color Remote Sensing To America’s "Third Coast"

http://www.eos.unh.edu/Spheres_1113/moore.shtml
http://www.unh.edu/campusjournal/2013/11/troubled-waters-research-scientist-takes-expertise-ocean-color-remote-sensing-americas-third

Tim Moore, an optical remote sensing specialist in UNH’s Ocean Process Analysis Laboratory, is part of a team of researchers studying Microcystis, a poisonous alga that proliferates in freshwater lakes, particularly in western Lake Erie and Saginaw Bay in Lake Huron. Moore and his colleagues adapted optical remote sensing techniques that employ satellite data to detect optically active constituents such as phytoplankton and sediments in the oceans for use in understanding this freshwater environmental hazard. The goal of the 3-year study is to develop algorithms for the detection, mitigation, and prediction of Microcystis via satellite. The work is co-funded by the National Institutes of Health and the National Science Foundation, and is being conducted in close association with the National Oceanic and Atmospheric Administration’s Great Lakes Environmental Research Laboratory in Ann Arbor, Michigan.
UNH Launches School of Marine Science and Ocean Engineering - Integrates the University’s Various Marine-related Research, Teaching and Outreach Activities

http://www.unh.edu/unhtoday/marine-science-and-ocean-engineering
http://www.unh.edu/news/releases/2013/sep/bp09marine.cfm

UNH has integrated the university’s various marine-related research, teaching, and outreach activities into the University’s first interdisciplinary school. The new School of Marine Science and Ocean Engineering will provide graduate courses, certificates, and degrees, drawing faculty from every college within the University. “The ocean is interdisciplinary, so the way we study it must be as well,” said Larry Mayer, director of the new school and director of UNH’s Center for Coastal and Ocean Mapping/Joint Hydrographic Center. “This school acknowledges the contributions that faculty here have made to the marine world and provides a better platform to attract students, federal funding, and donors and, ultimately, to better serve the region and the world in managing and conserving marine resources.”

UNH Researcher: The Horseshoe Crabs Are Coming!

http://www.unh.edu/news/releases/2013/may/bp07horshoe.cfm
http://www.unh.edu/campusjournal/2013/05/unh-researcher-horseshoe-crabs-are-coming

During the spring of 2013, Helen Cheng, a master’s student working with professor of zoology Win Watson, conducted the first major monitoring of the general population of horseshoe crabs in Great Bay. Cheng’s research is essential to understanding the previously unknown status of the horseshoe crab population in New Hampshire, specifically the Great Bay Estuary. In addition to playing a key role in the health of the ecosystem, horseshoe crabs are highly valued for their unique blue blood, which is widely used in the biomedical industry. Horseshoe crabs also are used as bait in eel and whelk (conch) fisheries and, as with many coastal species, face growing threats from destruction of their habitat by development.
Space Science

Dazzling Discoveries – Twin NASA Probes with UNH-led Instruments Aboard Mark a Year of Stellar Scientific Achievement
http://www.unh.edu/unhtoday/dazzling-discoveries

One year after its launch aboard the National Aeronautics and Space Administration’s twin Van Allen Probes, the Relativistic Electron Proton Telescope instrument (which is contained in a UNH-led Energetic Particle, Composition, and Thermal (ECT) Plasma Suite) continues to send back groundbreaking data that has changed scientists’ understanding of the Van Allen radiation belts that circle Earth. Data from the mission has fundamentally changed scientists’ understanding of the radiation belts, a harsh region of near-Earth space where “killer electrons” can travel at nearly the speed of light. Harlan Spence, director of the UNH Institute for the Study of Earth, Oceans, and Space, is lead scientist for the team that developed the ECT Plasma Suite, which accounts for six of the ten instruments onboard each of the twin Van Allen Probes.

Discover the Moon at the McAuliffe-Shepard Discovery Center

In collaboration with the National Aeronautics and Space Administration (NASA), and the McAuliffe-Shepard Discovery Center, UNH launched a new exhibit at the Center in June of 2013 titled, “Lunar Recon: Spacecraft, Craters and Cosmic Rays.” The exhibit highlights the scientific discoveries of NASA’s Lunar Reconnaissance Orbiter (LRO) mission as well as various historic aspects of lunar exploration. The LRO payload, comprised of six instruments and one technology demonstration, is providing key data to enable humans to return to the Moon. UNH scientists were part of the team for the Cosmic Ray Telescope for the Effects of Radiation (CRaTER), one of the LRO instruments. "Lunar Recon" features visual displays and hands-on activities, including a "cloud chamber" that allows visitors to see high-energy particles.

Enigmatic "Ribbon" Of Energy Discovered by NASA Satellite Explained
http://www.unh.edu/news/releases/2013/feb/ds05nasa.cfm
http://www.unh.edu/campusjournal/2013/02/enigmatic-%E2%80%9CRibbon%E2%80%9D-energy-discovered-nasa-satellite-explained

Nathan Schwadron, associate professor of physics, was the lead author on a paper published in the Astrophysics Journal that proposes a “retention theory” which may explain an astrophysical enigma that has perplexed scientists for years. Among other things, the data may reveal how magnetic fields influence our space environment.
Harlan Spence - Tightening Our Understanding of Earth's Radiation Belts

Like many of Harlan Spence’s other projects supported by the National Aeronautics and Space Administration and the National Science Foundation, his current research on the Van Allen radiation belts builds on his long-running investigation of space weather. “It has very practical societal relevance,” says Spence, professor of physics and director of the UNH Institute for the Study of Earth, Oceans, and Space. “We’re a space-faring nation and world. So much of the world economy depends on space technologies that can be affected by space weather.” The knowledge gained by studying the Van Allen belts will help protect the hundreds of commercial weather, communications, and navigation satellites that must spend time in the belts as they move in their orbits. It also could be applied to other radiation environments, helping astronauts stay safe as they venture to the Moon again, to Mars, or deeper into the solar system.

Heavenly Science: Student Balloons Video Earth Below, Space Above
http://www.unh.edu/unhtoday/2013/07/ProjectSMART
http://www.unh.edu/campusjournal/2013/07/heavenly-science-student-balloons-video-earth-below-space-above

In 2013, UNH’s Science and Mathematics Achievement through Research Training (SMART) summer residential program for high school students celebrated its 22nd year. Student participants launched two weather balloons carrying simulated satellites to measure cosmic rays and environmental parameters. This launch tested a new no-parachute design and took informative pictures of Earth from nearly 100,000 feet up, at the edge of outer space.

IBEX: The Little Satellite That Could, and Does
http://www.eos.unh.edu/Spheres_0313/ibex.shtml
http://www.unh.edu/unhtoday/2013/05/ibex-little-satellite-could

As part of the National Aeronautics and Space Administration’s Interstellar Boundary Explorer (IBEX) mission, UNH’s Space Science Center researchers have spent nearly five years exploring galactic clouds and magnetic ribbons. Nathan Schwadron, lead scientist for the IBEX Science Operations Center at the UNH Institute for the Study of Earth, Oceans, and Space, is excited to make the first-ever global measurements of the heliosphere, the immense magnetic bubble that contains our solar system, solar wind, and the entire solar magnetic field that extends well beyond the orbit of Pluto. The project has already made an incredible discovery: our solar system is moving at a different speed and direction than initially thought.
Interstellar Winds Buffeting Our Solar System Have Shifted Direction

http://www.unh.edu/news/releases/2013/sep/ds05ibex.cfm
http://www.unh.edu/campusjournal/2013/09/interstellar-winds-buffeting-our-solar-system-have-shifted-direction

In September of 2013, results based on four decades of data from 11 different spacecraft were published in *Science*. Co-authored by Eberhard Möbius, an astrophysicist who is UNH’s principal scientist for the National Aeronautics and Space Administration’s Interstellar Boundary Explorer mission, the results have revealed that particles in our solar system may have changed direction in the past 40 years. This discovery will help scientists pinpoint our location within the Milky Way and provide deeper insight into the sun’s heliosphere.

Metamorphosis of Moon’s Water Ice Explained

http://www.unh.edu/campusjournal/2013/06/unh-scientists-help-explain-metamorphosis-moon%E2%80%99s-water-ice

Andrew Jordan, research scientist in the UNH Institute for the Study of Earth, Oceans, and Space, was the lead author of an article titled “The Formation of Molecular Hydrogen from Water Ice in the Lunar Regolith by Energetic Charged Particles,” published in the *Journal of Geophysical Research* in June of 2013. The article presents results from NASA’s Lunar Crater Observation Sensing Satellite mission and shares information about how radiation can change the chemistry of ice, even in one of the solar system’s coldest regions: a permanently shadowed crater on the moon.

LunaCats Rocket to Third Place in NASA Competition

http://www.unh.edu/unhtoday/2013/06/lunacats
http://www.unh.edu/news/releases/2013/may/bp30luna.cfm
http://www.unh.edu/campusjournal/2013/05/unh-lunacats-rocket-third-place-nasa-robot-mining-competition

A robot created by nine former and current UNH students took third place in the National Aeronautics and Space Administration’s Lunabiotics Mining Competition, held at the Kennedy Space Center in May of 2013. Competing with 50 other teams from across North America, the UNH LunaCats’ remote controlled excavator named MOOSE (Magically Optimized Outer Space Excavator) mined for simulated regolith, a substance found on planetary bodies throughout the solar system.
Moon Radiation Findings May Reduce Health Risks to Astronauts

http://www.unh.edu/news/releases/2013/jun/ds11nasa.cfm
http://www.unh.edu/campusjournal/2013/06/moon-radiation-findings-may-reduce-health-risks-astronauts

A team of researchers from the Space Science Center in the UNH Institute for the Study of Earth, Oceans, and Space and the Southwest Research Institute reported data from the National Aeronautics and Space Administration’s Lunar Reconnaissance Orbiter (LRO) that could help reduce health risks to people on future space missions. UNH’s Nathan Schwadron co-authored an article in the American Geophysical Union journal *Space Weather* that explains how lighter materials such as plastics can shield spacecraft against radiation hazards, replacing the traditionally-used aluminum which can be both heavy and costly.

NASA Probes Detect "Smoking Gun" to Solve Radiation Belt Mystery

http://www.unh.edu/campusjournal/2013/07/nasa-probes-detect-%E2%80%9Dsmoking-gun%E2%80%9D-solve-radiation-belt-mystery

New observations have shown that the Van Allen radiation belts, two regions of high-energy particles in Earth’s magnetic field, are less stable than initially thought. Scientists such as UNH astrophysicist Harlan Spence are now closer than ever to understanding where, when, and how electrons are energized within the belts.

North by Southwest – SwRI and UNH Collaborate on New Space Science Department

http://www.eos.unh.edu/Spheres_1113/swri.shtml
http://www.unh.edu/news/releases/2013/mar/bp11swri.cfm

The Southwest Research Institute (SwRI), headquartered in San Antonio, Texas, and UNH have worked together on numerous research projects over many years. So it was a natural next step for the two entities to find a way to work in proximity for major projects. In March of 2013, SwRI and UNH signed a five-year agreement that will enable research collaborations on opportunities in astrophysics, earth and ocean sciences, and complex space missions. The agreement calls for SwRI to open a new department – the SwRI Earth, Oceans, and Space (SwRI-EOS) Department – at UNH’s Durham campus. The department will be led by Roy Torbert, professor of physics and director of the UNH Space Science Center.
The Sky's the Limit
http://www.eos.unh.edu/Spheres_1113/smart.shtml

Project SMART (Science and Mathematics Achievement through Research Training) is a UNH summer program that encourages high school students to participate in “real” science outside of the traditional classroom setting. Students build satellite components and collect and analyze environmental and satellite performance data. One notable project is the ever-expanding balloon work, which launches cameras into the sky to collect pictures and data. Among many other accomplishments, the summer 2013 balloon launch assisted in research on gamma-ray detector technology that will be essential for future space missions.

Third Radiation Belt Discovered With UNH-led Instrument Suite
http://www.unh.edu/news/releases/2013/feb/ds28belt.cfm
http://www.unh.edu/campusjournal/2013/03/third-radiation-belt-discovered-unh-led-instrument-suite

A transient third radiation belt of high-energy particles was seen for the first time with help from UNH scientists. The National Aeronautics and Space Administration’s Van Allen Probe mission utilizes a high-powered telescope which is part of the Energetic Particle, Composition, and Thermal Plasma instrument suite led by UNH researchers. Data from the suite will contribute to understanding how electrons move at the speed of light and penetrate ions in space. Results already are allowing scientists to refine and confirm their theories on radiation belt dynamics.

On Aug. 31, 2012, a giant prominence on the sun erupted, sending out particles and a shock wave that traveled near Earth. This event may have been one of the causes of a third radiation belt that appeared around Earth a few days later, a phenomenon that was observed for the very first time by the newly-launched Van Allen Probes. This image of the prominence before it erupted was captured by NASA’s Solar Dynamics Observatory (SDO).

Credit: NASA/SDO/AIA/Goddard Space Flight Center

UNH Research Helps Unravel Mysteries of Earth’s Radiation Belts
http://www.unh.edu/news/releases/2013/12/ds04vanallen.cfm#ixzz2pvHpj0Jv
http://www.unh.edu/campusjournal/2013/12/unh-research-helps-unravel-mysteries-earth%E2%80%99s-radiation-belts

Harlan Spence, director of the UNH Institute for the Study of Earth, Oceans, and Space and professor of physics, is the principal scientist for the UNH-led Energetic Particle, Composition, and Thermal Plasma (ECT) instrument suite being used by the National Aeronautics and Space Administration’s Van Allen Probes mission. Data from the ECT has increased understanding of the complex dynamics of particle acceleration, which will help scientists make better predictions of space weather conditions and offer better protection to commercial and telecommunications satellites.

The twin Van Allen Probes were launched on August 30, 2012 into elliptical, near-equatorial orbits around the Earth. Remarkably, rather than seeing just the well-known two-belt structure, the mission found almost immediate evidence of the clear three-belt structure portrayed in green in this diagram.

Credit: Andy Kale, University of Alberta
UNH Scientists Document, Quantify Deep-Space Radiation Hazards


In a special issue of the journal *Space Weather*, scientists from UNH and their colleagues have published findings measured by a UNH-led detector aboard the National Aeronautics and Space Administration’s Lunar Reconnaissance Orbiter. The research addresses radiation hazards that astronauts may encounter on deep space missions. UNH’s Cosmic Ray Telescope for Effects of Radiation (CRAter) radiation detector’s seminal measurements provide quantified radiation hazard data from lunar orbits and can be used to calculate radiation dosage from deep space to airline altitudes. These data will be critical for determining if long missions outside low-Earth orbit can be accomplished with acceptable risk.

UNH Scientists Launch "CubeSats" into Radiation Belts

http://www.unh.edu/campusjournal/2013/12/unh-scientists-launch-%E2%80%9Ccubesats%E2%80%9D-radiation-belts

Twin pint-sized satellites, built in part at the UNH Space Science Center by Ph.D. student Alex Crew, were launched into orbit from Vandenberg Air Force Base in California on December 5, 2013. The Focused Investigations of Relativistic Electron Burst Intensity, Range, and Dynamics (FIREBIRD) satellites will collect data that will ultimately allow engineers to design satellites for telecommunications, weather monitoring and prediction, and other uses that can better withstand the high-energy radiation they encounter. Funded by the National Science Foundation, FIREBIRD was among ten other CubeSats that shared a ride into space on a rocket dedicated to a larger mission, allowing these small, low-cost satellites to be put into space much more quickly than typical satellite missions.

UNH to Celebrate 10 Years of Showcasing Undergrad Science Research

http://www.unh.edu/news/releases/2013/apr/ds17urc.cfm

As part of the campus-wide Undergraduate Research Conference, UNH hosted the 10th annual Interdisciplinary Science & Engineering Symposium (ISE) in April 2013. ISE allows students to convey complex research in a coherent format and to explain their research projects to attendees and judges. Topics addressed by the students’ research projects include the Earth, the environment, biology, computer and physical sciences, mathematics, and statistics. In addition to showcasing the work of a record number of student participants, the 2013 event also honored faculty and staff who have been essential to the success of ISE over the years.

Credit: Kristi Donahue, UNH Institute for the Study of Earth, Oceans, and Space
A Matter of Scale
http://www.eos.unh.edu/Spheres_0313/scale.shtml

Forest ecologist Scott Ollinger of the UNH Institute for the Study of Earth, Oceans, and Space is researching the role that individual ecosystems play in climate change. As part of NH EPSCoR’s Ecosystems and Society project, Ollinger and his colleagues are exploring how local land management practices can impact the future of New Hampshire. This interdisciplinary work also involves studying climate change from a human perspective, utilizing the expertise of social science researchers in the Carsey Institute at UNH.

Arctic Warming and Your Weather: Public Sees a Connection
http://www.unh.edu/news/releases/2013/jul/lw31arctic.cfm

Using data gathered from the Granite State Poll, Lawrence Hamilton, professor of sociology and senior fellow at the Carsey Institute at UNH, and Mary Stampone, assistant professor of geography and the New Hampshire state climatologist, have found that most people believe that Arctic warming will impact local weather. Hamilton and Stampone also found strong political divisions while analyzing responses to the Poll questions. A detailed report of their findings has been published in the International Journal of Climatology.

Forest Watch Celebrates Banner Year
http://www.unh.edu/campusjournal/2013/05/banner-year-forest-watch-celebrated

More than 1,000 students from twenty-eight K-12 schools participated in the 23rd year of UNH’s interdisciplinary Forest Watch program. The students helped UNH scientists collect samples, measure foliage, and analyze spectral data related to the health of white pines in New England. Students have also become involved in studying the impact of climate change on sugar maple trees through a new component of the program called Maple Watch.

Building Shelter From the Storm
http://www.eos.unh.edu/Spheres_0313/shelter.shtml
http://www.unh.edu/campusjournal/2013/04/building-shelter-storm

Paul Kirshen is a civil engineer with joint appointments in the UNH Institute for the Study of Earth, Oceans, and Space (EOS) and the UNH department of civil engineering. His particular approach to civil engineering adaptation is to plan for the long term and implement measures only when climate change manifests itself, instead of over fortifying against an uncertain future. This incremental, progressive method to infrastructure design and building is aimed at protecting people, buildings, and budgets at the same time. As part of the New Hampshire Coastal Adaptation Workgroup, Kirshen works with Cameron Wake of the Earth Systems Research Center within EOS on several climate change adaptation projects, including one in Exeter, N.H.
Carsey Institute: Granite Staters Support Increased Use of Renewable Energy, Value Environment’s Impact on Quality of Life
http://www.unh.edu/news/releases/2013/jul/lw16carsey.cfm

A survey conducted by Lawrence Hamilton, professor of sociology and senior fellow at the Carsey Institute at UNH, and Cameron Wake, research associate professor in the UNH Institute for the Study of Earth, Oceans, and Space, showed that two-thirds of New Hampshire residents believe researching renewable energy should be prioritized over oil exploration and drilling. The investigators also found that a majority of New Hampshire residents value access to clean water, a scenic environment, and outdoor recreation opportunities. The full findings are discussed in the Carsey Institute policy brief, Granite Staters Weigh in on Renewable Energy vs. Drilling.

Climate Change Beliefs of Independent Voters Shift with the Weather, UNH Study Finds
http://www.unh.edu/news/releases/2013/jan/lw24climate.cfm

Self-identified independent voters offer varying responses to questions about climate change depending on current weather conditions, according to research conducted by Lawrence Hamilton, professor of sociology and senior fellow at the Carsey Institute at UNH, and Mary Stampone, assistant professor of geography and the New Hampshire state climatologist. Their data show that if the Granite State Poll survey was conducted on an unseasonably warm day, independent voter respondents were more likely to cite human action as the cause for climate change. The researchers have published a detailed report of their findings, “Blowin’ in the Wind: Short-Term Weather and Belief in Anthropogenic Climate Change,” in Weather, Climate, and Society.

Committee Chaired by UNH Prof Releases Final Gulf of Mexico Restoration Report
http://www.unh.edu/news/releases/2013/jul/bp11marine.cfm

Larry Mayer, director of UNH’s Center for Coastal and Ocean Mapping, served as committee chair for the National Research Council’s study of the 2010 Deepwater Horizon oil spill in the Gulf of Mexico. The congressionally mandated report argues that to assess the impact of losses resulting from that spill on the Gulf of Mexico, officials should consider the broad realm of goods and services provided by the Gulf to inform decisions for restoration. Mayer, whose primary research is focused on ocean mapping and sonar imaging, worked in the Gulf of Mexico on the NOAA ship Thomas Jefferson after the spill. He was selected to chair the 16-person committee in early 2011.

Documenting Climate Change in Your Backyard
http://www.unh.edu/campusjournal/2013/05/documenting-climate-change-your-backyard

Alyson Eberhard, NH Sea Grant/UNH Cooperative Extension coastal ecosystems specialist, trains groups of volunteer “citizen scientists” in recording phenology, or seasonal change, data concerning plants and animals. These data can then be used by researchers at UNH to understand how climate change is affecting the timing of seasonal events in southern New Hampshire. This program is an extension of the Signs of the Season program started by Maine Sea Grant, and is the start of an effort to compile long-term datasets to detect trends, adding to the information already collected throughout the U.S. through the National Phenology Network.
ECOCat Vehicle Selection Calculator Released
http://us1.campaign-archive1.com/?u=f961de241c9b5cbfcd3dd440&id=13206de9cd

In May 2013, a UNH team released the ECOCat Vehicle Selection Calculator, a spreadsheet application that helps UNH departments select fuel-efficient, eco-friendly vehicles for their professional use. Vehicle price, miles per gallon, and greenhouse gas emissions are used to analyze the full costs of the new vehicle. The calculator is part of UNH’s Climate Action Plan, WildCAP.

Credit: The Sustainability Institute at UNH

Expert Available to Comment on Quebec Oil Tanker Train Derailment
http://www.unh.edu/news/releases/2013/jul/bp10oil.cfm

Nancy Kinner, a professor of civil and environmental engineering at UNH, is available for comment on 2013’s oil tanker train accident in Lac-Megantic, Quebec. Kinner, an expert on oil spills who has worked with national media outlets and testified before congressional committees, argues that we need greater infrastructure to prepare for future accidents. She is the co-director of UNH’s Coastal Response Research Center and the Center for Spills in the Environment.

First Recipient of Thomas W. Haas Professorship in Sustainable Food Systems is Named
http://www.unh.edu/news/releases/2013/aug/bp26haas.cfm
http://www.unh.edu/campusjournal/2013/08/first-recipient-thomas-w-haas-professorship-named

Joanne Burke, clinical associate professor of nutrition, was named as the first Thomas W. Haas Professor in Sustainable Food Systems at UNH. Her focus will be on advancing the mission of Food Solutions New England (FSNE) through engagement, network development, and scholarship. Food Solutions New England is a learning-action network dedicated to the sustainability of a New England food system and an extension of UNH’s broader sustainability programs. Burke also will continue as director of the UNH Dietetic Internship Program in the College of Life Sciences and Agriculture.

Graduate Student Receives Switzer Environmental Fellowship
http://www.unh.edu/news/releases/2013/sep/bp17switzer.cfm
http://www.unh.edu/campusjournal/2013/09/graduate-student-receives-switzer-environmental-fellowship

Jessica Veysey, a doctoral candidate in UNH’s Natural Resources and Earth System Science program, received a Switzer Environmental Fellowship in 2013. This prestigious national award is given annually to only 22 graduate students who are working to address current environmental issues. Jessica Veysey’s advisor is Kim Babbitt, professor of natural resources and associate dean of academic affairs in the College of Life Sciences and Agriculture.
Ice Core Project Coordinated by UNH Obtains Unrivaled Climate Record
http://www.unh.edu/news/releases/2013/feb/ds05ice.cfm

UNH scientists Mark Twickler and Joe Souney of the Earth Systems Research Center within the UNH Institute for the Study of Earth, Oceans, and Space are serving as science coordinators of the West Antarctic Ice Sheet (WAIS) Divide ice core project. With funding from the National Science Foundation, the scientists of WAIS are extracting and then analyzing ice cores which form a record of uniquely detailed information on past environmental conditions, such as the atmospheric concentration of greenhouse gases, surface air temperature, wind patterns, the extent of sea ice around Antarctica, and the average temperature of the ocean. The recently extracted 11,160-foot core (the longest Antarctic ice core ever drilled by an American team) will provide data extending back 68,000 years. Due to harsh weather conditions and the remoteness of the field site limiting operations to only sixty days a year, the project took eight field seasons to collect the total length of ice core. It will take two years to complete the analysis of the ice and publish the results.

It’s Official: 2012 Broke Record for Warmest Year in New Hampshire
http://www.unh.edu/news/releases/2013/jan/lw16weather.cfm

According to assistant professor of geography and New Hampshire state climatologist Mary Stampone, 2012 was the warmest recorded year in New Hampshire history. Data from the National Oceanic and Atmospheric Administration’s National Climatic Data Center, which have been collected since 1895, show that eight of the ten warmest years in New Hampshire have occurred since 1990. Other northeastern states also broke average temperature records in 2012.

Linking Water with the Landscape
http://www.unh.edu/unhtoday/2013/01/linking-water-landscape

Heidi Asbjornsen, an associate professor with a joint appointment in the Earth Systems Research Center within the UNH Institute for the Study of Earth, Oceans, and Space and the department of natural resources and the environment, is studying water flow in forests. Using heat ratio sensors, Asbjornsen is able to monitor the total water use of trees. Working in the disciplines of ecophysiology – an experimental science that seeks to describe the physiological mechanisms underlying ecological observations – and ecohydrology, Asbjornsen’s ground-level, leaf-to-whole-plant research will complement larger-scale work done by colleague Scott Ollinger, professor of ecosystem ecology/remote sensing.
Little Green Appledore - Engineering Interns at Shoals Marine Lab Bring Sustainability to Island

http://www.unh.edu/unhtoday/2013/08/appledore

For four weeks in June and July, mechanical engineering major Dimitry Harris ’14 worked with three other sustainable engineering interns and the staff at the Shoals Marine Laboratory (SML) on Appledore Island to bring sustainable solutions to essential systems that are taken for granted on the mainland, such as generating power and supplying fresh water. The interns’ work made a valuable contribution to the island’s robust sustainability efforts.

Living the Dream

http://colsa.unh.edu/article/fall-2013/living-dream

Joe Tumber-Davila ’15 is an environmental conservation major in the College of Life Sciences and Agriculture with a passion for forestry research, education, and outreach. As a McNair scholar, he is studying the symbiotic relationship between mycorrhizal fungi and trees in the Bartlett Forest. Through his diverse activities, he shares his love of environmental science while working to fulfill his dream to become a professor at UNH.

Love That Dirty Water

http://www.unh.edu/unhtoday/2013/05/love-dirty-water

A group of nearly 50 fifth graders from the Oyster River School District took part in a research project to study water pollution on the UNH campus. Working alongside civil engineering professor Kevin Gardner and half a dozen UNH undergraduate and graduate students, the fifth graders engaged in hands-on activities while assisting with current UNH research initiatives. Their investigation will help the town of Durham identify sources of pollution entering College Brook and flowing into Oyster River – the drinking water supply for UNH and Durham – and ultimately reaching the Great Bay, New Hampshire’s most important estuary.

Making the Invisible Visible

http://www.eos.unh.edu/Spheres_0313/visible.shtml
http://www.unh.edu/campusjournal/2013/04/making-invisible-visible

Cameron Wake, research associate professor in UNH’s Earth Systems Research Center, is part of the NH EPSCoR program’s interdisciplinary Ecosystems and Society project, which is helping people visualize abstract changes in the environment and see the bigger picture of climate change. Wake and his colleagues are working to understand how humans interact with resources to prepare for the future. The project asks, “How can we make our communities and ecosystems resilient over time?”
Meet the “Godfather of UV Disinfection” - Faculty Excellence Winner Works Hard to Make Water Safe
http://www.unh.edu/unhtoday/Jim_Malley

Jim Malley, professor of civil and environmental engineering, was presented with UNH’s 2013 Award for Public Service in recognition of his leadership and commitment to providing safe drinking water to people all over the world. Malley pioneered the use of ultraviolet light disinfection to fight cryptosporidium, a waterborne disease that was responsible in 1993 for the largest documented drinking water outbreak in US history, affecting over 400,000 people in Milwaukee, Wisconsin. Since then, Malley has worked tirelessly at the national and international levels to improve drinking water “one system at a time.” In his 25-year career at UNH, Malley also has been a mentor and trainer to a generation of future environmental engineering professionals.

Michael Palace - Profile in Sustainability
http://www.unh.edu/campusjournal/2013/07/michael-palace-profile-sustainability
http://us1.campaign-archive1.com/?u=f961de241c65cbfcd3dd440&id=e90f10ac2&e=[UNIQID]

Michael Palace, assistant research professor and faculty fellow in the Sustainability Institute at UNH, studies the complex tropical ecology of Amazonia in an effort to understand our role in a sustainably managed ecological system. Palace also is involved with the UNH Ecosystem Task Force, which works to understand the biodiversity on UNH-managed lands and the carbon storage of UNH-maintained forests while assisting with the integration of local stakeholders and UNH into water quality and water use planning decisions. A passionate and creative researcher, he states that his personal goal is to describe to people how science works and to convey that it is both a productive and creative process.

Mirror, Mirror
http://www.eos.unh.edu/Spheres_0313/mirror.shtml

Scientists in the UNH Institute for the Study of Earth, Oceans, and Space are investigating the role that reflective surfaces, known as albedo, play in climate change. As part of NH EPSCoR’s Ecosystems and Society project, Ph.D. candidate Elizabeth Burakowski is interpreting satellite analysis of the northeastern U.S. to understand how albedo impacts complex local ecosystems in New Hampshire. Research associate professor Jack Dibb and master’s student Jacqueline Amante are collecting snow samples to examine how chemical compounds present in snow may impact local albedo.
New Hampshire Ecosystem Computing Challenge Receives $750,000 Award from National Science Foundation


UNH Manchester has received a $750,000 five-year grant from the National Science Foundation to introduce computing technologies and ecosystem awareness to high school students underrepresented in computer education. In addition to providing students with opportunities to use and develop technological tools to understand New Hampshire’s natural ecosystems, the Ecosystems Computing Challenge program will create a “model for novel partnerships between Cooperative Extension, 4-H, high school teachers at Career and Technology Education centers, and professionals from high technology companies.” Mihaela Sabin, associate professor of computer science in the Computing Technology Program at UNH Manchester, will lead the project in partnership with UNH Cooperative Extension and the New Hampshire Department of Education.

New Research Experiences Offered for Educators and Undergraduate Students

http://www.unh.edu/research/sites/unh.edu.research/files/docs/RES_AREAS/Digest_13/S%26E_EPSCoR_New_Research_Experiences_Offered_for_Educators_and_Undergrads.pdf

Through a new program modeled on the National Science Foundation’s Research Experiences for Teachers and Research Experiences for Undergraduates programs, the NH EPSCoR program gave six teachers and six college students the opportunity to spend 7 to 10 weeks conducting research alongside professional scientists during the summer of 2013. The participants worked with mentors on activities related to NH EPSCoR’s ongoing “Ecosystems and Society” project, which aims to better understand how people affect the environment. Most of the participants partnered with faculty members or graduate students at colleges and universities in New Hampshire, although mentors in businesses and nonprofit organizations also were involved in the project. The program, which will continue in future years, will help educators develop the skills they need to introduce their own students to the experience of conducting research. It also will provide the undergraduates with a unique perspective on working in a particular science discipline, which should help the students decide if and how they wish to pursue careers in the sciences.

Nutritional Scientist Wins National Honor

http://www.unh.edu/unhtoday/2013/04/nutritional-scientist-wins-national-honor

Joanne Burke, director of the graduate-level Dietetic Internship in the UNH College of Life Sciences and Agriculture, was honored with an Excellence in Hunger and Environmental Nutrition Award from the Hunger and Environmental Nutrition Dietetic Practice Group in 2012. The award was presented in recognition of her work “to reform the food system in a way that is environmentally and economically sustainable, and ultimately addresses ways to reduce the number of people who experience food insecurity through better public policy.” Currently, Burke is working with Margaret Sova McCabe, professor of law and associate dean of academic administration and special projects at the UNH School of Law, and the New Hampshire Children’s Alliance to develop a plan to address children’s hunger.
Ph.D. Candidate Participates in White House Panel on Climate Change
http://www.unh.edu/campusjournal/2013/05/phd-candidate-participates-white-house-panel-climate-change

Martha Carlson, coordinator of UNH Forest Watch and a Ph.D. candidate in the Natural Resources and Earth Systems Science program, was one of six private citizens to participate in “Climate Change: Discussion with Small Business Leaders,” a White House Council on Environmental Quality panel held in Washington, D.C. in April 2013. The Obama administration held the panel discussion “to receive ideas and recommendations about how to better combat climate change, with a special focus on working through the business community.” Drawing on her experiences as a timberland owner, maple sugar producer, and researcher of the effects of climate change on sugar maple trees, Carlson emphasized the importance of education about climate change and programs that involve both citizens and students in helping to plan for climate change.

Professor Discusses Environmental Security at Wilson Center Event in D.C.
http://www.unh.edu/campusjournal/2013/05/professor-discusses-environmental-security-wilson-center-event-dc

In May of 2013, political science professor Stacy VanDeveer joined fellow contributor Geoff Dabelko, director of environmental studies at Ohio University’s Voinovich School of Leadership and Public Affairs, and ClimateWire Deputy Editor Lisa Friedman in Washington, D.C. at an event to launch the report Backdraft: The Conflict Potential of Climate Mitigation and Adaptation. Sponsored by the Woodrow Wilson International Center for Scholars, Backdraft draws on the insights of leading environmental security experts to address and question the possible political implications and conflicts of transitioning to a green economy. The discussion also focused on how environmental initiatives can be a catalyst for peace.

Profile in Sustainability - Dr. Sheila McNamee, Professor in Communication and UNHSI Faculty Fellow
http://us1.campaign-archive1.com/?u=f961de241cfe5cbfcd3ddf440&id=167845dc56

Sheila McNamee, professor of communication and a UNH Culture and Sustainability Task Force member, is focused on building and maintaining a UNH community that is focused on sustainability. She is interested in how human diversity can enrich our ability to work together and create innovative approaches to problem solving. She says, “In essence, my scholarship is about sustainability: how do we sustain ourselves, our relationships, our communities, and our forms of practice so that we can work together in generative ways.”

Rivers Act as "Horizontal Cooling Towers," Study Finds
http://www.unh.edu/news/releases/2013/apr/ds22river.cfm
http://www.unh.edu/campusjournal/2013/04/rivers-act-%E2%80%9Chorizontal-cooling-towers%E2%80%9D-study-finds

Robert Stewart of the UNH Institute for the Study of Earth, Oceans, and Space (EOS) and Wilfred Wollheim of the department of natural resources and environment and EOS explored how thermoelectric power plants affect water ecosystems. Leading the collaboration with researchers from the City College of New York, Stewart and Wollheim found that heat from these plants increases river temperatures and negatively impacts fish and aquatic ecosystems. Insights gained through the study will be useful in assessing the full costs and tradeoffs of electricity production on regional scales and under changing climate conditions.
Scott Ollinger to Direct NSF's National Ecological Observatory Network

Scott Ollinger, professor of ecosystem ecology/remote sensing, has been selected to lead the National Science Foundation’s National Ecological Observatory Network, NEON. During his leave from UNH, Ollinger will oversee a national network that takes a multidisciplinary approach to conducting research and providing educational resources on ecology and the impact of climate change. UNH researchers John Aber, Serita Frey, William McDowell, and Wilfred Wollheim also have been involved in the creation of this new program.

Serita Frey: In the Environment, Little Things Count

Serita Frey, professor of soil microbial biology, studies how excess nitrogen from the burning of fossil fuels impacts natural nutrient cycles. She is passionate about studying the role that microbes play in forest decomposition, ecosystems, and human health. Her work at the Harvard Forest simulates environments of high nitrogen to anticipate how microbes will react under various conditions.

Seven Hundred Feet Down, a Thousand Years Back

Cameron Wake and Elizabeth Burakowski are taking part in a collaborative, National Science Foundation-funded project that is using ice core samples from Alaska’s Denali National Park to gain insights into 1,000 years of regional climatic history. In the summer of 2013, working with colleagues from Dartmouth College and the University of Maine and students from all three institutions, Wake and Burakowski gathered two 700-foot long cores that will be analyzed to better understand how glaciers respond to the impacts of climate change. The team had worked for six years to find the best location from which to collect the longest and best-preserved record of climate. The team also has maintained weather stations in the area for the last five years to gather data that will allow them to relate the weather in the mountains to the snow chemistry. Wake is a research associate professor in the Earth Systems Research Center of the UNH Institute for the Study of Earth, Oceans, and Space. Burakowski is a Ph.D. Candidate in UNH’s Natural Resources and Earth Systems Science program.
Stewardship Network Coming to New Hampshire

[Link to article: http://extension.unh.edu/articles/Stewardship-Network-Coming-New-Hampshire-1]

In 2013 UNH Cooperative Extension received grants from the National Science Foundation and the US Forest Service to create a network of citizen scientists. The online stewardship network will connect interested volunteers to well-organized, meaningful conservation and environmental science projects run by environmental groups, public agencies, and researchers. Malin Clyde, Cooperative Extension’s wildlife program education coordinator, will work with her team to build the network in collaboration with the Michigan-based nonprofit The Stewardship Network, which has been using this model for several years.

Sustainability Learning Collaboratives Project Launches with Verizon Foundation Support

[Link to article: http://us1.campaign-archive1.com/?u=f961de241cfb5cbfcd3dd440&id=f7529030e2]

[Link to article: http://www.unh.edu/campusjournal/2013/04/sustainability-institute-expands-sustainability-curricula-even-more-classrooms-support-veriz]

The Sustainability Institute at UNH was awarded a $50,000 grant by the Verizon Foundation to help implement a sustainability-related curriculum in local high schools and community colleges with large underserved populations. In addition, teachers and faculty will develop new teaching methods and assessment strategies reflecting the principles of sustainability. The interdisciplinary work will focus on the importance of the humanities and the social sciences in modern approaches to environmental issues.

Teachers Bring New Research Technology into Classrooms

[Link to article: http://www.unh.edu/research/sites/unh.edu.research/files/docs/RES_areas/Digest_13/S%26E_EPSCoR_Teachers_bring_new_research_technology_into_classrooms.pdf]

Across New Hampshire, educators, researchers, government agencies, nonprofit groups, and interested citizens are monitoring a state-of-the-art network of 100 water-quality sensors in the state’s rivers and streams. Funded by the National Science Foundation through its NH EPSCoR program, NH LoVoTECS (Lotic [moving water] Volunteer Network) has a two-part goal: to better understand the impact of human activity on New Hampshire’s water resources, and to provide educational experiences for the state’s young people.

The Sustainability Institute At a Glance

[Link to article: http://www.unh.edu/campusjournal/2013/03/sustainability-institute-glance]

The Sustainability Institute at UNH, formerly known as the Sustainability Academy, has broadened its focus to include interdisciplinary goals that will tackle modern environmental issues both inside and outside of the University. The Institute collects data and consults with departments on UNH’s use of natural resources, creates courses focused on the principles of sustainability, and is involved in several programs and task forces at the regional and state level. The Sustainability Institute collaborates with Campus Planning, Dining, Purchasing, Transportation Services, Housing, Athletics, and the Energy Office at UNH; its work in the areas of biodiversity, climate, food, and culture takes place on and off campus, nationally and internationally.
The Yin and Yang of Coastal Carbon
http://www.unh.edu/unhtoday/2013/06/coastal-carbon

Doug Vandemark, research associate professor and director of UNH’s Ocean Process Analysis Laboratory, and his colleagues are using buoy and cruise data to understand the patterns of how the level of carbon dioxide in the ocean is contributing to ocean acidity and the changing climate. After gathering enough data year after year to provide a time series – measurements of sufficient length, consistency, and continuity to determine climate variability and change – the UNH researchers have now shown that the Gulf of Maine is neither a clear sink nor source of carbon dioxide but, rather, a sort of recycling center for the greenhouse gas. But as carbon dioxide levels continue to rise in both the atmosphere and the ocean, even longer-term measurements (on the scale of decades) will be required to help develop the models needed to accurately predict future changes and to address the environmental and economic issues resulting from the rising ocean acidity on our nation’s east and west coasts and in many other areas of the world.

UNH Announces The Thomas W. Haas Professorship
http://www.unh.edu/news/releases/2013/jan/kb08haas.cfm
http://unhmagazine.unh.edu/w13/tom-haas.html

The Thomas W. Haas Professorship in Sustainable Food Systems has been established by the Sustainability Institute at UNH. The professorship will be supported by a one million dollar gift from the New Hampshire Charitable Foundation that was generated from a fund established by Durham philanthropist Tom Haas. The Haas Professor will provide leadership for Food Solutions New England, a public-private partnership that promotes collective action to achieve a healthy, prosperous, just, and sustainable food system in New England, and will work to engage the University community in efforts to advance sustainable agriculture, food choices, nutrition, and economic and social well-being on campus and beyond.

UNH Climate Change Experts Available to Discuss President’s Climate Action Plan

Stacy VanDeveer, professor of political science, and Cameron Wake, research associate professor of climatology and glaciology, are available to discuss President Obama’s Climate Action Plan. VanDeveer and Wake are researchers who study environmental policy and climate change, respectively. They both believe that the plan has taken important new steps in addressing the issues associated with climate change.
UNH Faculty Discuss Research Related to Deepwater Horizon Spill Sept. 23
http://www.unh.edu/news/releases/2013/sep/bp11deepwater.cfm

When BP’s Deepwater Horizon oil rig exploded in April 2010 and released nearly five million barrels of crude oil into the Gulf of Mexico, University of New Hampshire researchers responded by sharing their expertise with the government, the media, and the scientific community. On September 23, 2013, four of those researchers presented their perspectives to the University community and the public at the inaugural event of UNH’s Faculty Research Excellence Seminar Series. Larry Hamilton, professor of sociology and senior fellow at the Carsey Institute at UNH; Nancy Kinner, professor of civil and environmental engineering and director of the Coastal Response Research Center; Larry Mayer, director of the School of Marine Science and Ocean Engineering and the Center for Coastal and Ocean Mapping at UNH; and W. Kelley Thomas, Hubbard Professor in genomics and director of the Hubbard Center for Genome Studies at UNH, discussed their work in response to the spill and its aftermath, and then engaged in a lively discussion with the audience. The Faculty Research Excellence Seminar Series, sponsored by the UNH Research Office, recognizes and celebrates the quality and diversity of UNH faculty research accomplishments while bringing together multi- and interdisciplinary perspectives and providing opportunities for faculty to network and explore possible collaborations.

UNH Forest Watch: Record White Pine Needle Loss in 2010
http://www.unh.edu/news/releases/2013/feb/bp21forest.cfm
http://www.unh.edu/campusjournal/2013/02/unh-forest-watch-record-white-pine-needle-loss-2010

UNH researchers have found that white pine trees are failing to retain important older needles. The substantiating data were collected by K-12 students in UNH’s Forest Watch program, an inquiry-based science program that takes students and teachers out of their classrooms to study air pollution and forest health. Forest Watch founding director and emeritus professor of natural resources Barrett Rock explained, “White pines usually keep healthy, green needles that contribute significantly to the photosynthetic process by the whole tree for two or three full years. Something very serious is stressing the trees.” Rock said the loss of the needles might be a result of chemicals from forest fires or a response to the changing climate.

UNH Manchester Receives EPA Sub-Grant for Environmental Research
http://www.unh.edu/campusjournal/2013/08/unh-manchester-receives-epa-sub-grant-environmental-research

UNH Manchester was one of five New England campuses selected to receive a share of an Environmental Protection Agency grant to develop academic programs to address some of the region’s most pressing environmental issues. The grant will provide training and resources for faculty members to partner with community organizations to create discipline-crossing projects that will engage student researchers in public problem solving and environmental stewardship. The students’ activities will include providing immediate services to the Manchester community, such as water quality monitoring, and studying ways to mitigate climate change.
UNH Partners With the Portsmouth Brewery for Fall Science Cafes on Sustainability of Food
http://www.unh.edu/news/releases/2013/aug/bp27science.cfm

Cameron Wake, research associate professor of climatology and glaciology in the UNH Institute for the Study of Earth, Oceans, and Space, hosted the fall 2013 Portsmouth Science Café series which explored topics related to the sustainability of food. Guest presenters from UNH shared their insights during discussions titled: Long-Term Human Trends on North Atlantic Fish Stocks; New England Food Vision; and Oysters: Good for You, Good for the Bay. The Portsmouth Science Café is sponsored by NH EPSCoR, the University of New Hampshire, and the Portsmouth Brewery.

UNH Professor: Growing Demand for ‘Green’ Technologies Could Lead to Environmental and Humanitarian Nightmare
http://www.unh.edu/news/releases/2013/may/lw23vandeveer.cfm

Stacy VanDeveer of UNH’s Department of Political Science has published an analysis of how green technology and advanced products such as cell phones have led to an increase in dangerous mining practices. Focusing on coltan, lithium, and rare earth minerals, VanDeveer discusses the ecological hazards and international human rights issues associated with mining these products. The full report, Backdraft: The Conflict Potential of Climate Change Adaptation and Mitigation, was published by the Woodrow Wilson International Center for Scholars.

UNH-Based PREP Nets Donation for Water Monitoring
http://www.unh.edu/campusjournal/2013/02/unh-based-prep-nets-donation-water-monitoring

The Piscataqua Region Estuaries Partnership (PREP) has received a $10,000 donation from NextEra Energy Seabrook Station. The funds will allow for increased data collection and water monitoring in the Great Bay and Hampton-Seabrook watersheds. Monitoring is essential for understanding the health of the waters and for tracking the success of current and future management efforts aimed at curbing pollution. PREP is part of the U.S. Environmental Protection Agency’s National Estuary Program, which is a joint local, state, and federal program established under the Clean Water Act with the goal of protecting and enhancing nationally significant estuarine resources. PREP is administered by the University of New Hampshire.

Upstream Impact - Graduate Students Inspire the Next Generation of STEM Scholars
http://www.unh.edu/unhtoday/2013/05/upstream-impact

UNH graduate students in the Water Quality Analysis Laboratory have worked alongside local high school students to introduce new concepts in a hands-on, fieldwork-driven program with Dover High School. The project allows the high school students to become familiar with laboratory equipment and provides UNH researchers with valuable data about water quality in College Brook. The graduate students hope to share their love for STEM education with the high schoolers.
Volunteer Science

http://www.unh.edu/research/sites/unh.edu.research/files/docs/RES AREAS/Digest_13/S%26E_EPSCoR_Volunteer_Science.pdf

NH EPSCoR’s Ecosystem and Society project offers opportunities for community members to get involved in science first-hand. The NH LoVoTECS (Lotic [moving water] Volunteer Network) is working to improve understanding of New Hampshire’s water resources. The CoCoRaHS (Community Collaborative Rain, Hail, Snow Network) serves as a community-based network of volunteer weather observers and is currently the single largest provider of daily precipitation observations in the United States. The CoCoRaHS Albedo Project is a first-of-its-kind volunteer network collecting high quality snow albedo, snow depth, and snow density data for research and education applications.

Warmer Soils Release Additional CO₂ into Atmosphere; Effect Stabilizes Over Longer Term

http://www.unh.edu/news/releases/2013/jan/bp21frey.cfm
http://www.unh.edu/unhtoday/2013/01/serita-frey%E2%80%99s-research-probes-climate-change%E2%80%99s-impact-soils

UNH professor of microbial biology Serita Frey has found that soil organisms may slowly adapt to warmer temperatures over long periods of time. At the Harvard Forest, Frey and her colleagues have heated two land plots over the course of two and eighteen years, respectively, to model the possible impacts of climate change. The research is discussed in detail in an article published in Nature Climate Change.
UNH Research 2013 is produced by the Research Development and Communications unit of the UNH Research Office.

Find it on the Web at http://www.unh.edu/research/UNH-Research-Digest.

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