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Greetings!

Thank you for taking a few minutes to peruse our newsletter. As a university professor, I find myself writing this message at a busy time of year for the academic community. Students and faculty are busily preparing for final exams, while also thinking ahead to summer internships and the field research season. I opened my local newspaper this morning to see that in-state undergraduate tuition at Virginia Tech will increase again in the coming year (this time by 4.9%), bringing tuition for the 2013-14 academic year to \$11,455. Add in room, board, meal plan, and fees, and the average will be \$19,105 for the year; do the math and you'll see that the price tag for that bachelor's degree will easily be north of \$80,000. I feel a lump come up in my throat, mainly because I'm just ten years from facing this economic reality with my second-grade daughter, but also because I worry about the viability of collegiate arboriculture at the land-grant university.

At a time when students are shouldering historic levels of debt to obtain a college degree, we need to vigilantly demonstrate that there is value in an urban forestry or arboriculture college degree. Indeed, when I look around the national landscape of collegiate

arboriculture, there are troubling signals that our higher education model may be threatened by the basic economics of supply and demand and return on investment. A brief introduction to a newsletter does not afford the space to debate the merits of collegiate arboriculture. However, it does offer me an opportunity to bring this changing landscape of higher education to your attention—and to implore you to support collegiate arboriculture at your *alma mater* or your local university. Efforts are already underway nationally to secure the footing of collegiate arboriculture. In this newsletter, Dr. John Ball of South Dakota State University will provide an update on a group that he is helping to organize to address this issue. Please take the time to read John's article and consider how you might help secure the future of collegiate arboriculture.

Regards,

Eric Wiseman, Ph.D.
AREA Secretary-Treasurer
Associate Professor of Urban Forestry
Virginia Tech

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Registration for 2013 ISA Annual Conference—Toronto, Ontario, Canada

Registration is now open for the 2013 ISA conference! Join us in Toronto for the AREA sessions and annual business meeting on Wednesday, August 7. To see the 2013 ISA conference program or to register, visit: <http://www.isa-arbor.com/events/conference/index.aspx>. Register on or before May 31 for the lowest rates!

Collegiate Arboricultural Advancement Committee:

Working to promote arboricultural, landscape management, and urban forestry programs

By John Ball, Chair, CAAC

Arboricultural post-secondary education is struggling for survival. There have been numerous programs cut during the past decade and very few created or growing. Typically when a faculty member retires—and most programs are only one faculty deep—the decision is made to eliminate the program and shift the salary to another field.

We also have seen a reduction in faculty teaching load within our discipline during this same time period. There are several reasons for this loss of faculty and programs:

- » **Arboriculture programs are not attracting many students**, relative to other fields, and dollars chase students. Many schools are partitioning funds based upon course load and majors, and courses that attract the most students are going to be the best funded.
- » **Income for a recent graduate has not kept pace with the cost of college.** A good rule-of-thumb is the maximum amount to borrow for a college education should be no more than the expected first year salary. Tuition and fees are climbing at a rate many times that of inflation, and it is not difficult for a student to complete a 4-year degree and be more than \$40,000 in debt. Understandably, students are trying to get the most from college, and while they look for professions that they will enjoy, they also have to look critically at the benefit-cost ratio of their education. Unfortunately, arboriculture has not kept pace with many other fields, such as engineering, business management, and information technology, for which starting pay can be \$50,000 to \$60,000 for nearly the same cost of education.
- » **Industry support is lacking.** Major engineering, agronomy, and pharmaceutical companies have spent millions of dollars on university buildings, equipment, and scholarships, and this money certainly attracts the attention of university administration.

This does not mean that arboriculture is destined to disappear from the nation's classrooms, but it does mean that we, as a profession, cannot sit back and expect enrollment to improve.

Husqvarna has provided funds to start a training program for arboriculture instructors. The training, provided by ArborMaster, instructs faculty in the basics of climbing, rigging, and felling—fundamental skills for arborists. Husqvarna also has provided support for the development of a committee, the **Collegiate Arboricultural Advancement Committee (CAAC)**, to promote and advance arboricultural, landscape management, and urban forestry education and training in 2- and 4-year institutions.

The goals of the committee are to:

- » Promote the development of 2- and 4-year curricula for college arboriculture, landscape management, and urban forestry programs.
- » Provide guidance and assistance to instructors/programs in curriculum development, course lectures, and lab content.
- » Provide guidance and assistance to instructors/programs to develop networks of employment opportunities for students.
- » Promote the development of on-campus arboriculture, landscape management, or urban forestry clubs or societies.
- » Provide guidance for the recruitment and retention of students in arboriculture, landscape management, or urban forestry programs at colleges.

The executive committee is composed of faculty from 2- and 4-year programs across the United States. There is also an advisory board composed of representatives from ArborMaster, Bartlett Tree Experts, Davey Tree Expert Company, Husqvarna, the International Society of Arboriculture, and the Tree Care Industry Association to help guide them in achieving their goals.

The CAAC was formed last autumn and obviously has much to do in the coming years. While it is a big task that will require the work of many other individuals and organizations, our hope is that we can stop the decline of arboriculture programs and courses, and expand the opportunities for students.

Scholarships

Annual Bartlett Foundation Scholarships Available for Arboriculture and Urban Forestry Students

Applications are due October 1, 2013

The Bartlett Tree Foundation, Inc., provides financial assistance for selected students of arboriculture, horticulture, forestry, and related disciplines at both two-year and four-year colleges and universities. Bartlett Foundation scholarship endowments have expanded since its founding in 1985, and it awards over \$50,000 annually through two scholarship programs: Foundation Schools and At-Large Scholarships.

Currently there are twenty-eight Foundation School with a dedicated scholarship, and each school utilizes its own criteria to select one or more awardees each semester.

The At-Large Scholarships are competitive and available to students at both Foundation-supported schools and at other two- and four-year colleges and universities that have programs in horticulture, arboriculture, or urban forestry.

For more information, please visit the Bartlett Foundation website at:

www.bartletttreefoundation.org.

Foundation Schools

Allegany College of Maryland
Brigham Young University
California Polytechnic State University
Central Piedmont Community College
Clemson University
Mid-State Technical College
North Carolina State University
Paul Smith's College of Arts & Sciences
Penn State University-Mont Alto
Pennsylvania College of Technology
Purdue University
Rutgers University
Steven F. Austin State University
SUNY – College of Environmental Science and Forestry

SUNY-Farmingdale State University
Texas A&M University
The Williamson Free Trade School
Unity College (Maine)
University of Florida-Gainesville
University of Georgia-Athens
University of Maryland-College Park
University of Massachusetts-Amherst
University of Pennsylvania
University of Rhode Island
University of Wisconsin-Stevens Point
Virginia Tech
West Virginia University
Western Illinois University

Davey Tree Expert Company Arbor Grant: scholarships assist college students in the green industry

In 1880 John Davey began his tree care business in Kent, Ohio and immediately put an emphasis on education and training. He spent as much time with people as he did with trees and enjoyed teaching his clients and employees about all aspects of caring for trees, shrubs and landscape plants. In 1901 John Davey published "The Tree Doctor," the first comprehensive book on the topic of arboriculture, and in 1909 organized and taught The Davey Institute of Tree Surgery, the first intensive training course focused on tree care. As a testament to his legacy the Davey Institute of Tree Sciences continues to be the most comprehensive training session for employees in the industry.

The Davey Tree Expert Company also reaches well beyond the ranks of their employees to provide educational support to students with an interest in trees. Each year the Davey Foundation sponsors the Davey Arbor Grants, a merit-based scholarship program that provides \$1,000 awards to college students. College scholars from across North America are encouraged to apply for the grants, which are awarded annually in October.

To be eligible, a student must be enrolled in a 2 or 4-year program that focuses on forestry, urban forestry, arboriculture or "green industry" related field. Awards are based on the student's academic history, a letter of intent, as well as a reference from a faculty member of their choice.

In 2012, forty \$1,000 Arbor Grants were awarded to students representing 32 colleges and universities. Davey expects to award a similar number of Arbor Grants in 2013.

Applications for Davey Arbor Grants are due in September. Additional information can be obtained by sending an e-mail to education@davey.com

Tree Biomechanics Week 2013

August 15–16, 2013, in Shalersville, and Kent, Ohio, US

The International Society of Arboriculture (ISA) and the Davey Tree Expert Company (Davey) have partnered to offer **Tree Biomechanics Week 2013**.

Why do some trees stay upright in a storm while others fail? How much decay is too much? Can trees be pruned to prevent damage from ice, snow, or extreme wind?

A key element of Tree Biomechanics Week is a two-day research symposium at the Davey Institute. This event is your opportunity to learn about the latest advances in biomechanics research and its implications for assessing tree risk, interact with researchers and practitioners from around the world, and see demonstrations from experiments in progress.

Save the date: the symposium will be **August 15-16**.

Registration information will be posted at:

www.isa-arbor.com/events/workshopsAndSymposia/index.aspx.

Questions? E-mail research@isa-arbor.com.

ISA and Davey would like to thank the generous sponsors of Tree Biomechanics Week 2013:



BioCompliance Consulting, Inc.



Busy Bee Services, Ltd.

24th IUFRO World Congress



Sustaining Forests, Sustaining People: the Role of Research

October 5–11, 2014

Salt Lake City, Utah, USA

The International Union of Forest Research Organizations (IUFRO) is open to all individuals and organizations dedicated to forests, forest products, and related disciplines. The 24th IUFRO World Congress will provide attendees the opportunity to share knowledge and build relationships with colleagues from around the world.

The agenda will facilitate the flow of ideas and interaction among attendees. After the Congress, we hope that attendees will feel invigorated in their efforts to enhance understanding of the ecological, economic, and social aspects of forests and trees and to disseminate this information around the world.

Congress Themes

- » Forests and Forest Products for a Greener Future
- » Forest Health in a Changing World
- » Forests for People
- » Forest Biodiversity and Ecosystem Services
- » Forests and Climate Change
- » Forest and Water Interactions
- » Forest Biomass and Bioenergy

July 15 – October 15, 2013: Call for abstracts

Visit www.iufro2014.com/ for more information, or to submit an abstract.

Registration opens in November 2013.

September 29 – October 3, 2014: Special Program for Developing Countries Training

October 5 – 11, 2014: The 24th IUFRO World Congress

We look forward to seeing you in Salt Lake City!

Urban Tree Growth & Longevity (UTGL) Working Group Field Trip

At ISA Conference, Toronto, Canada

Date and time: Sunday, August 4, 2013 from 1-4 PM

Meeting point: Meet at 12:45 p.m. in the lobby of the InterContinental Toronto Centre, 225 Front Street West, to depart at 1 PM.

Sign up: The tour is free of charge and will be open to 25 participants on a first come, first served basis. To sign up, please email jbartens@ucdavis.edu.

Tour description: In conjunction with the City of Toronto's Parks, Forestry & Recreation Division, the UTGL working group is organizing a field trip that will give participants a glimpse of Toronto's planting, maintenance and monitoring efforts.

Site 1: Yonge and Bloor

This project involves continuous soil trenches designed and constructed involving the Yorkville BIA. We continue along Bloor St, identifying examples of above ground container locations, while comparing trees located in some of the older in ground tree installation designs. Until we arrive at a large scale development project (2KM) on Bloor St, this location will be under construction at the time of the tour and will enable us to view the installations related to the conditions below ground, while they are being constructed.

Site 2: High Park

High Park is a large urban park that contains provincially rare black oak savannah and woodland ecosystems, both natural and manicured. Besides topics plantings, maintenance, volunteer stewardships, challenges like oak decline will be discussed. Survival of oak plantings in High Park's natural areas is being monitored using photo monitoring which has been facing many challenges over the years.

Site 3: 401 and Allen Rd

This site is a highway greening project conducted by The Ohio State University to evaluate different tree species as they respond to planting, soil, and site scenarios. This is the first long term survival study of out-planted trees in a highway setting in North America. The study is composed of 6 sites, of which 3 are located at the intersection of Highway 401 and Allen Road. Over 10,000 (in total) coniferous and deciduous trees and shrubs were installed in 2010 using unique planting strategies



and plant production methods. Deciduous trees at each site have been continually monitored for growth and survival. Both opportunities and challenges as they relate to tree survival and growth will be discussed.

For more information please visit www.urbantreegrowth.org.

Upcoming Events

Urban Forestry Conference 2013

June 12, 2013

Hyatt Hotel - Lisle, Illinois

For details, see: www.naturalpathforestry.com/workshopufc2013.html

PNW-ISA ATC 2013 - Surrey, British Columbia

September 22, 2013

Sheraton Vancouver Guildford Hotel, Surrey, British Columbia

For details, see: www.pnwisa.org

2013 ISA-RMC Annual Conference

September 26-27, 2013

Little America Hotel & Resort, Cheyenne, Wyoming

For details, see: www.isarmc.org

Texas Chapter ISA 34th Annual Texas Tree Conference: "Branching Out"

October 2-4, 2013

Waco, Texas

For details, see: www.isatexas.com

2013 ISA Prairie Chapter Conference

October 7-9, 2013

Ramada Conference Centre, Edmonton, Alberta

For details, see: www.isaprairie.com

MAC-ISA Annual Meeting 2013

October 12-15, 2013

Fredericksburg Hospitality House, Fredericksburg, Virginia

For details, see: www.mac-isa.org

Grant and Funding Opportunities

National Urban and Community Forestry Advisory Council

Fiscal Year 2014 Grant Applications



The National Urban and Community Forestry Advisory Council (NUCFAC), announces the posting of the U.S. Forest Service FY 2014 Urban and Community Forestry Challenge Cost Share grant program. This year, there are three grant categories:

1. Making Urban Trees and Forests More Resilient to the Impacts of Natural Disasters and the Long-term Impacts of Climate Change
2. Green Infrastructure Jobs Analysis
3. Utilizing Green Infrastructure to Manage and Mitigate Stormwater to Improve Water Quality

The request for proposal, instructions, proposal template, and required application forms may be downloaded at: www.fs.fed.us/ucf/nucfac.html.

Applications are to be submitted to Grants.gov www.grants.gov by July 15, 2013 (by 11:59 PM, EST).

Interested public may also download a copy of the application and instructions from Grants.gov www.grants.gov reference: CFDA 10.675.

For more information or assistance, contact:

Nancy Stremple, Executive Staff
Phone: 202-205-7829
Email: nstremple@fs.fed.us

Applications Will be Available for the Following Grants:

John Z. Duling Grants

Jack Kimmel International Grants

The TREE Fund's research grants have contributed to improvements in plant management techniques, industry safety practices and equipment, and strategies for disease and pest control. We offer grants in the areas of Root and Soil Management; Planting and Establishment; Plant Health Care; Risk Assessment and Worker Safety; Technology Transfer; Urban Forestry; and Arboriculture Education. Contact the TREE Fund <<http://www.treefund.org/contact>> to learn more about these grant opportunities:

John Z. Duling Grants (up to \$10,000; October 1st annual deadline): provide "seed" funding for new, innovative research projects. Apply Online <http://fs2.formsite.com/TREEFund/JohnZDulingGrant/index.html>.

Jack Kimmel International Grants (up to \$10,000; October 1st annual deadline): provide funding for arboriculture research projects all over the world. Apply Online <http://fs2.formsite.com/TREEFund/form858476841/index.html>.

Before applying for a grant, carefully read Grant Guidelines. Applications that do not contain all the requested information may be denied. Contact the TREE Fund www.treefund.org/contact with questions about grant programs, the application process, and program category selection.



Employment Opportunities



Position Announcement
Urban Forestry Research and Extension Associate
at Virginia State University

Virginia State University's College of Agriculture will hire an arborist or urban forester to lead and assist various research and outreach activities.

Description and Responsibilities:

Urban forest management can help solve urgent issues in the US and Virginia. Under the direction of VSU Faculty, the Urban Forestry Research and Extension Associate will design and implement outreach programs and research projects to increase knowledge and understanding of the appropriate selection, location, and maintenance of trees in urban and suburban spaces to increase environmental benefits and reduce costs and risks.

Research: Under the direction of VSU Faculty, the Associate will design and implement scientific research projects related to management of trees in urban/suburban spaces, potentially including issues of water quality, species testing, and socio-economics. She/he will lead or contribute to research publications.

Extension/Outreach: Together with VSU Faculty and Staff, the Associate will coordinate and implement educational programs for urban resource professionals, volunteers, officials, and the general public about arboriculture or urban forestry. Coordinate Cooperative Extension activities with Faculty at VSU and its partner institution, Virginia Tech. She/he will lead or contribute to extension publications. The Associate may be called upon occasionally to guest-lecture or team-teach university courses on arboriculture or urban forestry.

Qualifications:

- » A Master's degree or equivalent experience in Urban Forestry, Arboriculture, Horticulture, Natural Resources, Forestry, Environmental Conservation, Biology, or related field. Candidates may include, but are not limited to, recent

- graduates of Master's or PhD programs, or current PhD Candidates (e.g., "All but dissertation" candidates).
- » Knowledge of arboricultural practices such as the following: tree inventories; tree pruning; tree removal; tree cabling and bracing; tree transplanting; tree root pruning and root barrier installation; tree disorder diagnosis; application of pesticides and fertilizers; operation of equipment such as bucket truck, chipper, stump grinder, chain saws, etc.; and tree structure evaluation and risk assessment.
- » General knowledge/understanding of urban forest issues and policies in the Mid-Atlantic.
- » Demonstrated ability to design and implement research projects. Preference for experience with research related to arboriculture or urban forestry.
- » Outstanding verbal and written communication skills. Experience teaching in formal or non-formal settings.
- » Ability to effectively communicate difficult concepts to an audience.
- » Strong interpersonal skills and ability to deal professionally with diverse audiences.
- » Self-motivated, with ability to work independently or as a part of a team.
- » Ability to manage multiple projects simultaneously.

About VSU:

Virginia State University, founded in 1882, is located 20 miles south of Richmond, adjacent to Petersburg in the village of Ettrick. VSU was the first fully state-supported four-year institution of higher learning for blacks in America, and is Virginia's 1890 Land Grant University. With a current student population of 5,300, the University sits atop a rolling landscape overlooking the Appomattox River with expansive views of Petersburg. VSU includes a 236-acre main campus and a 416-acre agriculture research facility.

Starting date: to be determined

Duration: up to four years

Position Type: hourly

Wages: competitive rate based on qualifications

Location: Petersburg, VA

To Apply:

Interested applicants should send a cover letter and CV to Dr. Gregory Frey at gfrey@vsu.edu; 804-524-5057 (fax); or PO Box 9081, Petersburg, VA 23806.

Other inquiries to gfrey@vsu.edu or 804-524-6967.

Applications will be accepted until June 7, 2013 or until a qualified candidate is identified.

The John Bartram Professorship in Urban Forestry at the University of Delaware

POSITION DESCRIPTION

Applications are invited for the position of Assistant, Associate, or Full Professor of Urban Forestry. This is a full-time, tenure track, 9 month (academic year) position within the Department of Plant and Soil Sciences that reports to the department Chair. This position complements and enhances the Department of Plant and Soil Sciences within the College of Agriculture and Natural Resources and will be expected to collaborate synergistically with others within the College. The successful candidate should have a strong background and expertise in ecosystem services and a broad and integrating perspective of the principles of urban forest sustainability. Possible areas of professional expertise can include knowledge of urban forest issues and solving ecosystem management problems under current and future urban environments, which potentially involve the impact of insects, diseases, soils, natural disturbances and damaging weather phenomena, tree mortality mitigation, species selection, and induced stress from human activities. Of additional relevance and applicability to this position is a keen awareness of, and possible expertise in, the impact of pollution, canopy effects, heat islands, watershed management, and climate change as related to the response and condition of the urban forest.

QUALIFICATIONS

Ph.D. in urban forestry or a related discipline. Rank is contingent upon experience and qualifications and exceptional early career scientists are welcome to apply for the Assistant Professor level. Demonstrated evidence of emerging status as a regional or national authority is also desirable. Excellent written, oral communication, and presentation skills utilizing traditional and digital formats are required, and prior evidence should be referenced or provided.

RESPONSIBILITIES

- » 55% research with applied emphasis. Responsible for attracting and directing graduate students, obtaining external funding, and publishing in both peer-reviewed journals and other publications with industry-related audiences. Applicants should provide prior evidence of these scholarly activities through a growing record of demonstrated success. Responsible for collaborating with diverse groups within and outside of the University and the state of Delaware, including colleagues, local communities and municipalities, state and federal agencies, and related non-profit and/or private sector entities.

- » 40% teaching. Responsible for a minimum of 1 upper and 1 lower division undergraduate course/year that will teach principles of urban forestry and urban ecology that include elements of soil science, best practices within planned/ designed landscapes, and sustainability principles. Additional teaching at the graduate level is welcome within the candidate's area of expertise. Applicants should provide prior evidence of an enthusiastic approach to teaching through publication, peer evaluation, personal recognition, and/or projects that have engaged students.
- » 5% Service. The successful candidate will also participate in academic committees and professional society affairs.

APPLYING TO THE POSITION

Applicants should forward their Curriculum Vitae, the names and email addresses of five (5) personal references, and a cover letter of stated interest in this position that includes an indication of teaching interests to:

Robert E. Lyons, Professor and Director
Chair, Landscape Horticulture Search Committee
c/o Ms. Sue Biddle
University of Delaware
531 South College Avenue, 126 Townsend Hall
Newark, DE 19717-1303
Email: sbiddle@udel.edu

REVIEW OF APPLICATIONS

Begins July 1, 2013 and will continue until a suitable candidate is identified. The Curriculum Vitae and letters of reference (when requested) will be shared with departmental faculty.