Jason Carl Grabosky

Home: 5394 Rathbun Road, Cazenovia, NY

Work: 14 College Farm Road, New Brunswick, NJ

**Education**

Cornell University

*PhD Ornamental Horticulture 1999*

**Dissertation:** Grabosky, J. C. 1999. Growth response of three tree species in sidewalk profiles. Cornell University. Pp. 182.

Cornell University

*Master of Science, Ornamental Horticulture 1996*

**Thesis:** Grabosky, J. C. 1996. Developing a Structural Soil Material With High Bearing Strength and Increased Rooting Volumes for Street Trees Under Sidewalks. Cornell University. pp. 152.

California Polytechnic State University at San luis obispo

*Bachelor of Science, Magna Cum Laude, Ornamental Horticulture 1987*

Major fields of study: Nursery Management; tissue culture propagation; tropical foliage production. Terminal research project: " In Vitro Culture of *Brassaia actinophylla* 'Amate'"

State University of New York at Cobleskill

*Associate of Applied Science, High honors, Ornamental Horticulture 1984*

Major field of study: Nursery Management

**Employment History**

May 2012 - Present: John and Eleanor Kuser Faculty Scholar in Urban and Community Forestry: Professor Rutgers University; School of Environmental and Biological Sciences; Department of Ecology, Evolution, and Natural Resources and Department of Extension Specialists (until June 2008): Appointment 10 Month: Research/Teaching/Extension 40:30:30

Co-adjutant Faculty: Department of Landscape Architecture

Graduate program affiliations: Ecology and Evolution, Plant Biology, Landscape Architecture, Environmental Science

Collaborative Associate: Center for Advanced Infrastructure and Transportation, NJ LTAP program Member

Director: Rutgers S.E.B.S. Undergraduate General Honors Program 2015-present

Director: Center for Resilient Landscapes: A joint venture of Rutgers and the USDA Forest Service 2014-present

Faculty Coordinator: Urban and Community Forestry Undergraduate Program

Sept. 2006- May 2012: John and Eleanor Kuser Faculty Scholar in Urban and Community Forestry: Associate Professor, Appointment 10 Month Research/Teaching/Extension 40:30:30

Sept. 2002- May 2006: John and Eleanor Kuser Faculty Scholar in Urban and Community Forestry: Assistant Professor, Appointment 10 Month Research/Teaching/Extension 40:30:30

Nov 1999 - July 2002: Assistant Professor, University of Florida, Department Environmental Horticulture Appointment 12 month Research/Teaching/Extension 30:70:00

April 1999 Visiting Scientist/Lecturer, University of Turin, Italy

**Seminari Su Verde Urbano**: a 20 hour series of seminars, for the graduate faculty, students and professional guests: lAula Magna della Facolta di Agraria dellUniversita di Torino.

Designed as a continuing conversational lecture with field walks and demonstrations concluding each four-hour segment of lecture. Topics included: Soil basics; urban soils; urban tree root zones; site assessment; plant selection based on site; transplanting; pruning and wounding; integrating tree root zones and pavement. Presented in English with an interpreter. Most text slides were presented in Italian.

1998 - 1999 Extension Associate III, Cornell University (non-tenure faculty) (Appointment 12 month, annual renewal: Research/Teaching/Extension 40:25:35)

1998, 1996, 1994 Laboratory Assistant, Cornell Cooperative Extension Turfgrass Shortcourse

1988 -1989 Instructor, Board of Cooperative Educational Services: Onondaga-Cortland-Madison-Counties: Home Landscaping and Gardening

1987 - 1993 Assistant Manager, Northern Nurseries Inc. Cicero, NY location

1985 - 1986 Laboratory Assistant, California Polytechnic State University: San Luis Obispo, Courses: Tropical Foliage Production, Diseases and Pests on Woody Ornamentals

1982 - 1986 Labor, crew chief, Executive Estates Landscaping Cazenovia, New York

**Teaching activity**

|  |  |  |
| --- | --- | --- |
| **Rutgers University** | Teaching Effectiveness (Max = 5) | Course Quality (Max = 5) |
| S/ Yr | Course Title | Number | Cr  |  | Respon-sibility | Instructor | Dept Mean | Instructor | Dept Mean |
| S17 | Honors Seminar: about that question | 11:554:1 | 3 | Lec  | Total |  |  |  |  |
| S17 |  Silviculture | 11:216:471 | 3 | Lec  | Coteach with Zipse | 5.0 | 4.36 | 5.0 | 4.2 |
| F16 | Byrne-Aresty Seminar Trees | 11:090:101 | 1 | Lec  | Total | 4.92 | 4.58 | 4.92 | 4.51 |
| F16 | Arboriculture | 11:216:365 | 4 | Lec  | Total | 4.40 | 4.33 | 4.60 | 4.28 |
| F16 | Readings in Biology | 11:554:111 | 1 | Lec  | Total | 4.52 |  | 4.43 |  |
| F16 | Trees and the Environment(Ind Study) | 11:216:456 | 3 | Lec  | Total |  |  |  |  |
| F16 | Forest management planning (Ind study) | 11:216:xxx | 3 | Lec  | Total |  |  |  |  |
| S16 | Honors SeminarAbout that question | 11:554:196 | 3 | Lec  | Total | 4.44 | 4.54 | 4.11 | 4.38 |
| F15 | Byrne-Aresty Seminar Trees | 11:090:101 | 1 | Lec  | Total | xxx | xxxx | xxxx | Xxx |
| F15 | ArboricultureSpecial Topic | 11:216:xxx | 4 | Lec  | Total |  |  |  |  |
| F15 | Readings in Biology | 11:554:111 | 1 | Lec  | Total | 4.75 | 4.75 | 4.63 | 4.63 |
| F15 | Trees and the Environment | 11:216:456 | 3 | Lec  | Total | 4.00 | 4.47 | 3.5 | 4.44 |
| F15 | Forest management planning ind study | 11:216:xxx | 3 | Lec  | Total |  |  |  |  |
| S15 | Urban forestry | 11:216:403 | 3 | Lec Lab | Total | 4.8 | 4.37 | 4.8 | 4.31 |
| F14 | Arboriculture | 11:216:365 | 4 | Lec Lab | Total | 5.0 | 4.46 | 4.50 | 4.46 |
| June2014 | Contemporary Research in Urban ForestryEU COST Graduate seminar SLU Alnarp Sweden | Lec  | Group facilitator/ lecture |
| S14 | Urban forestry  | 11:704:403Sect 1 | 3 | Lec Lab | Total |  |  |  |  |
| S13 | Urban forestry  | 11:704:403Sect 1 | 3 | Lec Lab | Total | 4.44 | 4.09 | 4.11 | 3.94 |
| S13 | Urban forestry | 11:704:403Sect 2 | 3 | Lec Lab | Total | 4.83 | 4.09 | 4.67 | 3.94 |
| F12 | Arboriculture | 11:704:365 | 4 | Lec Lab | Total | 4.50 | 4.34 | 4.00 | 4.34 |
| S12 | Urban forestry | 11:704:403 | 3 | Lec Lab | Total | 4.59 | 4.19 | 4.33 | 4.05 |
| F11 | Trees and the Environment | 11:704:456 | 4 | Lec Lab | Total | 5.00 | 4.57 | 4.50 | 4.49 |
| S11 | Urban forestry | 11:704:403 | 3 | Lec Lab | Total | 4.71 | 4.35 | 4.64 | 4.27 |
| F10 | Arboriculture | 11:704:365 | 4 | Lec Lab | Total | 4.33 | 4.397 | 4.50 | 4.40 |
| S10 | sabbatical no assignment |
| F09 |
| S09 | Urban forestry | 11:704:403 | 3 | lec | Total | 4.55 | 4.37 | 4.52 | 4.27 |
| F08 | Trees and the Environment | 11:704:45611:704:599 | 3 | Lec | Total | 5 | 4.39 | 4.67 | 4.34 |
| F08 | Arboriculture | 11:704:365 | 4 | Lec Lab | Total | 4.67 | 4.39 | 4.67 | 4.34 |
| S08 | Urban Forestry | 11:704:403 | 3 | Lec Lab | Total |  |  |  |  |
| F07 | Arboriculture | 11:704:365 | 4 | Lec Lab | Total |  |  |  |  |
| S07 | Urban Forestry | 11:704:403 | 3 | Lec Lab | Total | 4.7 | 4.17 | 4.65 | 4.05 |
| F06 | Arboriculture | 11:704:365 | 4 | Lec Lab | Total | 4.8 | 4.42 | 4.8 | 4.39 |
| S06 | Urban Forestry | 11:704:403 | 3 | Lec Lab | Total | 4.67 | 4.26 | 4.62 | 4.13 |
| F05 | no assignment |  |
| S05 | Arboriculture | 11 :704:365 | 4 | Lec Lab | Total | 4.27 | 4.29 | 4.36 | 4.05 |
| S05 | Ethnobotany | 11:776:205 | 3 | Sem | 4% guest lect. |  |  |  |  |
| F04 | Urban Forestry | 11:704:403 | 3 | Lec Lab | Total | 5 | 4.4 | 4.9 | 4.35 |
| F04 | Dendrology | 11 :704:272 | 3 | Lec Lab | 4% guest lect. |  |  |  |  |
| S04 | Arboriculture | 11 :704:365 | 4 | Lec Lab | Total | 4.36 | 4.17 | 4.36 | 3.98 |
| F03 | Advanced L.A. departmental seminar | 11 :550:431 | 5 | Sem | 4% guest lect. |  |  |  |  |
| S03 | Ethnobotany | 11:776:205 | 3 | Sem | 4%guest lect. |  |  |  |  |
| S03 | Landscape Management and Maintenance  | 11 :776:238 | 3 | Sem | 4% guest lect. |  |  |  |  |
| S03 | Forest Ecology and Silvics | 11 :704:456 | 3 | Lec Lab | Total | 4.4 | 4.21 | 4.4 | 4.09 |
| F02 | No Assignment setting up program as new appointee |
| **University of Florida Gainesville** |
| S02 | Landscape and Turfgrass Management | ORH 4236 | 3 | Lec Lab | 50% | 4.47 | 4.6 | 4.26 | 4.55 |
| S02 | Plants, Gardens, and You | ORH 1030 | 1 | Lec  | 8% guest lect. |  |  |  |  |
| S02 | Arboriculture | ORH 4242 | 4 | Lec Lab | Total | 4.67 | 4.62 | 4.17 | 4.47 |
| F01 | Landscape Establishment | ORH 4848 | 3 | Lec Lab | Total | 5 | 4.66 | 4.67 | 4.47 |
| F01 | Landscape Management | LAA 6536 | 3 | Lec | 45% | 4.5 | 4.18 | 4.23 | NA |
| F01 | Landscape Management | LAA 3530 | 3 | Lec | 45% | 4.5 | 4.18 | 4.23 | NA |
| F01 | \*Urban Landscape Ecology | ORH 4932 | 3 | Lec | 8% guest lect. |  |  |  |  |
| F01 | Plants, Gardens, and You | ORH 1030 | 1 | Lec  | 8% guest lect. |  |  |  |  |
| SU01 | Plants, Gardens, and You | ORH 1030 | 1 | Lec  | 8% guest lect. |  |  |  |  |
| S01 | Landscape and Turfgrass Management | ORH 4236 | 3 | Lec Lab | 50% | 3.92 | 4.52 | 3.57 | 4.44 |
| S01 | Plants, Gardens, and You | ORH 1030 | 1 | Lec  | 8% guest lect. |  |  |  |  |
| S01 | Arboriculture | ORH 4242 | 4 | Lec Lab | Total | 4.57 | 4.52 | 4.71 | 4.44 |
| F00 | Landscape Establishment | ORH 4848 | 3 | Lec Lab | Total | 4.38 | 4.61 | 4.25 | 4.57 |
| F00 | Special Topic Landscape Establishment | ORH 5419 | 3 | Lec Lab | Total | 4.38 | 4.61 | 4.25 | 4.57 |
| F00 | Plants, Gardens, and You | ORH 1030 | 1 | Lec  | 8% guest lect. |  |  |  |  |
| SU00 | Plants, Gardens, and You | ORH 1030 | 1 | Lec  | 8% guest lect. |  |  |  |  |
| S00 | Landscape and Turfgrass Management | ORH 4236 | 3 | Lec Lab | 50% | 3.46 | 4.44 | 3.46 | 4.29 |
| S00 | Landscape and Turfgrass Management(honor section) | ORH 4236H | 3 | Lec Lab | 50% |  |  |  |  |
| S00 | Plants, Gardens, and You | ORH 1030 | 1 | Lec  | 8% guest lect. |  |  |  |  |
| S99 | University of Turin, ItalySeminari Su Verde Urbano | Visiting prof. Post doctoral seminar series |  | lect/field lect | 20 hours class/20 hours field time |  |  |  |  |
| F98 | Cornell Univ. Landscape Maintenance | HORT435 | 4 | lect/lab | 75% |  |  |  |  |

LAA 6536 and LAA 3530 shared a seminar, and evaluations for both sections were processed as one packet. LAA departmental mean was requested but was not available through their evaluation format.

\* A distance education lecture produced as a video with PowerPoint to an unknown class size linked by phone during the question/answer phase

 F00 ORH 4848 and ORH 5419 evaluated as one section

Class Contributions:

* Environmental Design and Analysis (2012,2013,2014) and Advanced Plant Materials (2014, 2015)
* Newark Youth training: Branchburg park, 3 hour seminar on tree management
* Veterans Training for professions 2015: 9 hours program training in tree care.

***Post-doctoral advising:***

Nazia Arbab: 2015-2017; Socio-ecological modeling of forest pest invasions for forest resilience and transition, USDA FS fellow with Rutgers Center for Resilient Landscapes.

Josh Caplan: 2010-2013; Root ecology and architecture in the management of invasive and native East coast woody understory shrubs.

***Graduate student advising:***

*Major Advisor:*

* Richard Leopold: Development of growth algorithms for urban tree growth and 4 dimensional fractal modeling on a hormone-based L-system models. Started fall 2016.
* April Jackson: Doctoral student Plant Biology program. Est date Fall 2017. Heat tolerance in *Acer saccharum* subsp. *saccharum* and its role for informing plant selections for a changing urban climate. DOE STEM Fellow 2010-2012; NSF Biofuel IGERT Fellow 2012-2015.
* Allyson Salisbury: Forest productivity along a gradient of trace element contamination in a spontaneously vegetated urban brownfield. PhD 2017 Environmental Science Program..
* Michael Gallagher: Micrometeorology of Pine forest organic layers in gap modeling for carbon, hydraulic and fire ecology modeling (USFS Research Tech. Silas Little Exp. Forest) PhD Ecology and Evolution Program (E.E.) 2017.
* Allyson Salsbury: Comparing the conditions and design of stormwater detention basins built between 1970 and 2011 to estimate service life (MS: 2013 Environmental Science Program)
* Jessica Sanders: Urban tree mortality analysis and urban site index development for NJ urban forest management (PhD: 2012 E. E. Program).
* Gregory Dahle: Allometric, anatomic and mechanical analysis of *Acer platanoides* branches for canopy modeling (PhD: 2009 E.E. Program).
* Frank Gallagher: The role of heavy metal contamination in the vegetative assemblage development of an urban brownfield. (PhD: 2008 E.E. Program).

*Committee Member/Advisor:*

Rutgers University:

* Jennifer Ryan: Growth and productivity responses on 6 plant species in 3 paved and non-paved design conventional scenarios. MLA 2017.
* Jennifer Blake-Mahmud est. Fall 2017. Stress based sexual expression of Acer pennsylvaticum. E.E. Doctoral Student
* Cara Faillace: 2017. Invasion s and Diversity: Mechanisms, microbes, and Multiple Scales. PhD. E.E. program
* Daniel Betz: October: 2015. MSc. Project-based. , Citizen science effrots within urban forestry programs in Philadelphia E.E Program.
* Michelle Talmadge: 2013. MSc. Project based E.E. Program; Economic analysis of urban forestry contribution to NJ.
* Adam Cesanek: 2013. Evaluating public amenities of stormwater management demonstration projects in Philadelphia, PA. MLA program
* Joseph Cherichello: 2012. Plant response to soil amendments in a public park interpretive center. MLA program (first graduate of the program)
* Alix Fowler: 2010. Plant Biology Master Science Dec. 2010. Woody plant community succession patterns in Hutchinson Memorial Forest
* Craig Ruzicki: 2010 E.E. program Master Science. Early root structure and growth of Japanese barberry seedlings.
* Charles Hofer. 2009 E.E. program MSc Project based. Metal loading impacts on house wren fledgling populations using an urban brownfield.

University of Florida

* Jason (Jake) Miesbauer PhD 2013 Environmental Horticulture. Effects of branch orientation, crown structure and pruning on tree response to external loads.
* Scott Jones MS 2005. Environmental Horticultue. Effect of pruning type, pruning dose, and wind speed on tree response to wind load.
* Nathan Eisner MS 2001. Compartimentalization zone formation in branch attachment zones.

Cornell University

* Felix Loh MS 2000. Nutrient and chlorophyll status of Ficus and Poplar grown in CU-Structural Soil.

*Doctoral student team advising:*

2012-2013 Rutgers NSF IGERT Biofuels program: Jackson W A, Morath S U, Rodgers M, and Hewitt E. Bayesian inference modeling on the social and economic impacts of sudden pest outbreaks in urban areas, including energy use changes in prescribed urban clear-cuts.

*Outside Reader/Evaluator for University of South Australia*

2016-2017 Doctoral Thesis for Timothy Johnson, dept. Civil Engineering, The School of Natural and Built Environments. Trees, Stormwater, and Civil Infrastructure: Synergies toward sustainable urban design. Pp353.

*Outside Reader/Evaluator for Swedish University of Agricultural Sciences; SLU; Alnarp*:

2013: Doctoral dissertation for Johan Östberg, SLU Thesis No. 2013:29 Faculty of Landscape Planning, Horticulture and Agricultural Sciences; Tree inventories in the urban environment. (Reader, Evaluation Committee Chair)

*Outside Reader/ Evaluator for University of Melbourne, Burnley College*:

2009 Doctoral dissertation for Elizabeth C. Denman.

An experimental assessment of the potential role of street trees in urban biofiltration systems.

2004 Doctoral dissertation for Matthew Parker.

The Management of Tree Replacement in Mature Urban Landscapes.

2003 Doctoral dissertation for Karen D. Smith.

The Effects of Properties of Designed Soils on the Growth of Corymbia maculata.

*Independent study: graduate program*

University of Florida 2002 ORH 5419 Tammy Kohlleppel Environmental Horticulture: Independent study option for landscape plant establishment class with master design plan for Fifield Hall landscape renovations

***Undergraduate student advising***

*Honors thesis students:*

Rutgers G. H. Cook Honors colloquium research practicum:

Irene Donne Spring-Fall 2011

Irene Donne Summer-Fall 2010

Daniel Clark Spring 2009, Fall 2007

Jason Sadowski Spring 2009

Rutgers G.H. Cook Honors thesis project advisor:

Irene Donne: The effect of pH and organic source soil amendment broadcast treatments on *Betula allaghaniensis* root growth pattern in a contaminated brownfield. May 2012.

Christopher Aydin: The effect of off-target road salt deposition on soil structure and hydraulic behavior. May 2010.

Mike Gallagher: Spatial Visualization of 5th year wood decay development in two oak species resulting from reduction pruning cuts. May 2008.

Rutgers G.H. Cook Honors Thesis project co-advisor:

Christopher Klaube: An investigation of below-ground traits for various invasive plant species in New Jersey: How do certain native and invasive shrubs differ in root morphology? May 2008.

Rutgers G. H. Cook Honors Thesis Reader:

Catherine Dillon: Leaf area index and productivity in Betula alleghaniensis in an urban brownfield. 2016

Bernard Isaacson: Detection of Bacterial Leaf Scorch in Red Oaks Using Hyperspectral Reflectance May 2006.

Aresty Honors program:

Abhishek Arya: 2016 Development of code for linking FIA data to forest management platforms (in collaboration with NJ DEP Forestry services)

Ross Whitehead: Invasion ecology in understory woody plant species; root growth precision in nitrogen enrichment field studies. 2012-2013

Booker George: Root anatomy and scintillation to determine heavy metal deposition in tree species on a contaminated brownfield in NJ 2013

Project S.U.P.E.R:

Saira Khan: Research experience: Determining the Number of Flowers that can be expected to grow on a Red Maple tree

Independent Research:

Mahir Dixit, 2016-2017 computer Science/Statistics: Computational code development to move image file to r platform for urban tree growth increment analysis

Brazilian exchange student:

Anderson Vieira da Costa; summer 2016 Northern Arizona University (NAU), Federal University of ABC (UFABC - Brazil), Environmental and Urban Engineering Major

University of Florida Honors program:

Christian Galindo. 2001 Honors Terminal Research project: Somatic embryogenesis technique applications on propagation of *Abies guatamalensis*

*Independent study: Rutgers undergraduate program*

2008 11:704:483 Emily Carey: Management planning for preserved open space, the role of science informing public policy.

2003 11:704:483 McDermott, K. Urban Forestry: The relationships between municipal urban forest management planning and enabling ordinances

2002 11:704:483 Micklovic, S. Urban Forestry: Evaluation, selection and suggested design of customized

vegetation inventory software for Cook College urban forestry

*Independent study: University of Florida*

2000 Christian Galindo: The use of Planting tubes in establishing evergreen reforestation field stock

***Educational Training and conferences***

2002: International Tree Educator Summit, Morton Arboretum, Chicago Ill.

2001: Targeted distance educational training (U Florida distance learning development grant)

2001, 2007, 2009, 2011: National tree educational summit, Bartlett Tree Foundation Charlotte, NC

2002 – 2005: Board Certified Master Arborist Exam formation team/certification committee, International Society of Arboriculture, training in high-stakes examination development and psychometrics

**Research Activity**

***Graduate Thesis and dissertation***

1999: Growth response of three tree species in sidewalk profiles. PhD Dissertation Cornell University. Advisor: Nina Bassuk.

1996. Developing a structural soil material with high bearing strength and increased rooting volumes for street trees under sidewalks. Master of Science Thesis; Cornell University. Advisor: Nina Bassuk.

***Patent***

Primary inventor: US Patent # 5,489,069

An Urban Tree Soil To Safely Increase Rooting Volumes

Cornell Research Foundation

***Juried manuscripts***

1. Dahle G A, James K R, Kane B, Grabosky J, Detter A. 2017. A review of factors that affect the static load-bearing capacity of urban trees. Arboriculture & Urban Forestry 43(3):89-106.
2. Salisbury AB, Reinfelder RR, Gallagher FJ, Grabosky JC. 2017. Long term stability of trace element concentration in a spontaneously-vegetated urban brownfield with anthropogenic soils. Soil Science 182(2):69-81.
3. Caplan J S, Stone B W G, Faillace C A, LaFond J J, Baumgarten J M, Mozdzer T J, Dighton J, Meiners S J, Grabosky J C, Ehrenfeld J G. 2016. Nutrient foraging streategies of forest shrubs correspond to interspecific differences in productivity and population growth. Annals of Botany doi: 10.1093/aob/mcw217.
4. Grabosky J and Bassuk N. 2016. Seventeen years’ growth of street trees in structural soil compared with a tree lawn in New York City. Urban Forestry & Urban Greening 16:103-109.
5. Grabosky J. 2015. Establishing a common method from which to compare soil systems designed for both tree growth and pavement support. Soil Science 180(4/5):207-213.
6. Gallagher F J, Caplan J S, Krumins J A, Grabosky J C. 2015. Root growth responses to soil amendment in an urban brownfield. Ecological Restoration 33(1):10-13.
7. Dahle G, Grabosky J, Kane B, Miesbauer J, Peterson W, Telewski F W, Koeser A, Watson G. 2014. Tree Biomechanics: A White Paper from the 2010 International Meeting and Research Summit at the Morton Arboretum (Lisle, IL, US). Arboriculture & Urban Forestry 40(6):309.318.
8. James K R, Dahle G A, Grabosky J, Kane B, Detter A. 2014. Tree Biomechanics Literature Review: Dynamics. Arboriculture and Urban Forestry 40(1): 1-15.
9. Sanders J R and Grabosky J C. 2014. 20 years later: Does reduced soil area change overall tree growth? Urban Forestry & Urban Greening 13(2014):295-303.
10. Ma W, Liu Y, Sun Y, Grabosky J. 2014. Carbon stock in Korean larch plantations along a chronosequence in the Lesser Khingan Mountains, China journal of forestry research 25(4): 749-760.
11. Dahle G A, and Grabosky J C. 2014. Variation in anatomical features along *Acer platanoides* (Aceraceae) branches. International Journal of Horticulture and Floriculture Vol. 2 (5)129-136
12. Dahle G A, Gallagher F J, Gershensond D, Schafer K V R, Grabosky J C. 2014. Allometric and mass relationships of Betula populifolia in a naturally assembled urban brownfield: implications for carbon modeling. Urban Ecosystems. DOI 10.1007/s11252-014-0377-9
13. Sanders J, Grabosky J, Cowie P. 2013. Establishing maximum size expectations for urban trees with regard to designed space. Arboriculture and Urban Forestry 39(2):68-73.
14. Dahle G A and Grabosky J. 2012. Determining if Lateral Imbalance Exists in First Order Branches Leading to a Potential Development of Torsional Stress. Arboriculture & Urban Forestry 38:141-145
15. Bassuk N, Grabosky J, Mucciardi T, Raffel G. 2011. Ground Penetrating Radar Accurately Locates Tree Roots in Two Soil Media Under Pavement. Arboriculture & Urban Forestry 37(4):160-166.
16. Gallagher F J, Pechmann I, Holzapfel C and Grabosky J. 2011. Altered vegetative assemblage trajectories within an urban brownfield. Environmental Pollution 159(2011):1159-1166.
17. Novi A, Grabosky J, Eisenman S. 2011. A Passion for forestry and *Metasequoia*: A tribute to John Kuser. Japanese Journal Historic Botany 19(1-2):1-6.
18. Gilman E F and Grabosky J. 2011. *Quercus virginiana* root attributes and lateral stability after planting at different depths. Urban Forestry Urban Greening 10(2011):3-9.
19. Grabosky J C, Smiley E T, Dahle G A. 2011. Observed symmetry and force of *Plantanus* X *acerifolia* (Ait.) Willd. roots occurring between foam layers under pavement. Arboriculture & Urban Forestry 37(1):35-40.
20. Grabosky J and Gucunski N. 2011. A method for simulation of upward root growth pressure in compacted sand. Arboriculture & Urban Forestry 37(1):27-34.
21. Dahle G A and Grabosky J. 2010. Allometric patterns in *Acer platanoides* (Aceraceae) branches. Trees Structure Function 24:321-326 DOI 10.1007/s00468-009-0401-5
22. Dahle G A and Grabosky J. 2010. Variation in Modulus of Elasticity (E) along *Acer platanoides* L. (Aceraceae) branches. Urban Forestry Urban Greening 9(2010):227-233. doi:10.1016/j.ufug2010.01.004
23. Gallagher F, Pechmann I, Isaacson B, Grabosky J. 2010. Seed Dispersal in *Betula populifolia* Marsh.: A comparison using specimens from metal contaminated soils. Urban Habitats
24. Gilman E F and Grabosky J. 2009. Growth partitioning three years after subordination pruning of *Quercus virginiana*. Arboriculture & Urban Forestry 35(6):281-286.
25. Dahle G A and Grabosky J C. 2009. Review of literature on the function and allometric relationships in tree stems and branches. Arboriculture & Urban Forestry (35(6):311-320.
26. Grabosky J, Bassuk N, Haffner T. 2009. Plant available moisture behavior in stone-soil media for use under pavement while allowing urban tree root growth. Arboriculture &Urban Forestry 35(5):271-277.
27. Gallagher F J, Pechmann I, Bogden J, Grabosky J, Weis P. 2008. Soil metal concentrations and plant productivity in an urban brownfield. Environmental Pollution 153:351-361.
28. Grabosky J and Bassuk N. 2008. Growth of three tree species in designed stone-soil blend under pavement and non-paved lawn in a Brooklyn, New York Streetscape: tenth year data. Arboriculture & Urban Forestry 34(4):265-266.
29. Gallagher F J, Pechmann I, Bogden J, Grabosky J, Weis, P. 2008. Soil Metal Concentrations and productivity of *Betula populifolia* (gray birch) as measured by field spectrometry and incremental growth in an abandoned urban brownfield in New Jersey. Environmental Pollution 53(2):699-706.
30. Gilman E F, Masters F, Grabosky, J. 2008. Pruning affects tree movement in hurricane force winds. Arboriculture & Urban Forestry (34(1):20-28.
31. Gilman E F, Grabosky J C, Jones S, Harchick C. 2008. Effects of pruning dose and type on trunk movement in tropical storm winds. Arboriculture & Urban Forestry 34(1):13-19.
32. Grabosky J, Gilman E, Harchick C. 2007. Use of cross-sectional area for predicting pruning dose in young field-grown *Quercus virginiana* Cathedral in Florida US. Urban Forestry and Urban Greening 6(3):159-167.
33. Grabosky J and Gilman E. 2007. Response of two oak species to reduction pruning cuts. Arboriculture & Urban Forestry 33(5):360-366.
34. Dahle G A, Holt H H, Chaney W R, Walen T M, Grabosky J, Cassens D L. 2006. Decay patterns in Silver Maple (*Acer saccharinum*) trees converted from roundovers to V-trims. Arboriculture and Urban Forestry 32(6):260-264.
35. Gilman E and Grabosky J. 2006. Branch union morphology affects decay following pruning. Arboriculture & Urban Forestry 32(2):74-79.
36. Gilman E and Grabosky J. 2004. Mulch and planting depth affect Live Oak (*Quercus virginiana* Mill.) Establishment. Journal of Arboriculture 30(5):311-316.
37. Grabosky J and Gilman E. 2004. Measurement and prediction of tree growth reduction from tree planting space design in established parking lots. Journal of Arboriculture 30(3): 154-164.
38. Gilman E F, Grabosky J, Stodola A, Marshall M D. 2003. Irrigation and Container Type Impact Red Maple (*Acer rubrum* L.) 5 Years After Landscape Planting. Journal of Arboriculture. 29(4): 231-236.
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45. Grabosky J, Bassuk N, Irwin L, van Es H. 2001. Shoot and root growth of three tree species in sidewalk profiles. Journal of Environmental Horticulture 19(4) 206-211.
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1. Grabosky J. Establishing a life-cycle approach to inform urban canopy management. ***In Press (****from ISHS Keynote address)*Acta Horticulturae
2. Caplan J, Whitehead R, Gover A, Grabosky J. Extended leaf phenology presents an opportunity for herbicidal control of invasive forest shrubs. ***Accepted*** Weed research.
3. Faillace C A, Caplan J S, Grabosky J C, Morin P J.Underneath it all: belowground competition in forest understory shrubs is associated with phylogeny but not origin. ***Accepted*** Journal of the Torrey Botanical Society
4. Grabosky J and Gucunski N. The influence of root position and growth on pavement tensile crack failure when occurring under an asphaltic concrete pavement section. ***In preparation*** Urban Forestry & Urban Greening
5. Arbab, N.N, S. Grabosky and P.Zipse, 2017. Modeling Geographic Distribution of Emerald Ash Borer (EAB) Risk in New Jersey ***in preparation*** Ecological Modelling
6. Arbab, N.N, R.Haight and J. Grabosky, 2017. Cost of Emerald Ash Borer (EAB) Infestation in Terms of Loss Value of Ash Trees in New Jersey ***in preparation*** Ecological Economics
7. Grabosky J, Gilman E F, Aydin C, Gallagher M.. Visualization of decay using CT scan methods to appraise wood decay 5 years after reduction pruning in *Q. Virginiana* and *Q. Schumardii.* ***In preparation***

*Abstracts*

1. Raviram R, Novy A, Eisenman S, Struwe L, Bonos S, Grabosky, J. 2008. Assessing the Genetic Diversity of an *Ex Situ* Germplasm Collection of Dawn Redwoods (*Metasequoia glyptostroboides* Hu et Cheng). HortScience 43(3):591.
2. Grabosky J, Bassuk N, Haffner T. 2008. Plant available moisture in designed soils for pavement systems. HortScience 43(3):597
3. Gallagher M and Grabosky J. 2008. Digital visualization of decay in oak species five years after pruning. HortScience 43(3):596
4. Sanders J, Grabosky J, Falxa-Raymond, N. 2008. Urban tree planting and mortality statistics in the boroughs of NYC. HortScience 43(3):594
5. Dahle G and Grabosky J. 2008. Anatomical study to determine vessel to fiber ratio along norway maple (*Acer plataniodes*) branches. HortScience 43(3):594
6. Gould A B, Hamilton G, Vodak M, Grabosky J, Staniszewska H, Lashomb J. 2007. Incidence and severity of bacterial leaf scorch of oak in New Jersey urban forests. Phytopathology 97, S178.
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8. Loh F, Grabosky J, Bassuk N. 2000. Use of the Minolta SPAD-502 to Determine Chlorophyll concentration in *Ficus benjamina*, L. and *Populus deltoides*, Marsh leaf tissue. HortScience 35(3):423-424.
9. Grabosky J and Bassuk N. 2000. Growth response of four tree species to fertilization and humate additives to CU Soil. HortScience 35(3):423.
10. Grabosky J and Bassuk N. 2000. Growth response of *Salix nigra*, Marsh. to fertilization, humate additive, and mycorrhizae inoculation in a CU Soil Container Study. HortScience 35(3):424.
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*Conference Proceedings*

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2. Grabosky J. 2011. Structural Soil Substrate for urban trees. „Stadtbaumarten im Klimawandel“ (urban trees in the face of climate change). Wurzburg Germany. June 1, 2011.
3. Grabosky J. 2009. Developing Finite Element models for root growth under pavement. *In*: Watson G, Costello L, Scharenbroch B and Gilman E. *eds*. The Landscape Below Ground III: Proceedings on an International Workshop on Tree Root Development in Urban Soils. Morton Arboretum: International Society of Arboriculture. Savoy, Illinois. Pp294-300.
4. Grabosky J, Bassuk N, Haffner T. 2008. Plant available moisture in designed soils for pavement systems. 2008 Annual meeting Northeast Region American Society for Horticultural Science. New Brunswick, NJ. Jan. 4, 2008.
5. Gallagher M. and Grabosky J. 2008. Digital visualization of decay in oak species five years after pruning 2008 Annual meeting Northeast Region American Society for Horticultural Science. New Brunswick, NJ. Jan. 4, 2008.
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9. Grabosky J. 2003. The concrete jungle does not rest on forest soils. *In:* Course Notes: Urban Tree Planting Seminar. Melbourne Australia Dec.4, 2003.
10. Grabosky J. 2003. Special planting situations - structural soils. *In:* Course Notes; Urban Tree Planting Seminar. Melbourne Australia Dec.4, 2003.
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*Posters*

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2. Dillon C, Salisbury A, Gallagher F, Grabosky J. 2015 Comparing the leaf area index (LAI) of an urban forest before and after hurricane Sandy*.* *Rutgers Climate Institute Annual Symposium*
3. Salisbury A, Gallagher F, Grabosky J. 2015 Heavy metal exposure and drought effects on the photosynthesis of mature *Betula populifolia.* *Rutgers Climate Institute Annual Symposium*
4. Salisbury A, Gallagher F, Grabosky J. 2015 The influence of heavy metal contaminated soil on *Betula populifolia* photosynthesis Hudson Delaware Chapter of the Society of Environmental Toxicology and Chemistry (SETAC) Spring meeting, April 20-21, 2015New Brunswick, New Jersey
5. Salisbury A and Grabosky J. 2013. Soggy bottoms: The diversity of plant communities and their effects on the function of naturalized detention basins. *NJ Water Environment association Annual Meeting Student Poster session*
6. Caplan J S, Grabosky J C, Ehrenfeld J G. 2012. The role of nutrient foraging in understory shrub invasions of northeastern North America. *8th Congress of the International Society of Root Research*. Dundee, Scotland.
7. Salisbury A, Chericello J, Grabosky J. 2012. Conceptual Design for Incorporating Trees into a Permeable Asphalt Parking Lot Using Structural Soil. *2012 NJAES Student Poster Competition and 2012 NJ Water Environment Association Annual Meeting*
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11. Grabosky J. 2006. Hydraulic flow, mechanical support and canopy form: Using Hagen Pouselle law, pipe model theory and bio-mechanics for fractal tree canopy modeling. Shown at Garden state tree conference 2006, Int. Soc. Arb. Int. Meeting Aug 2007.
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20. Grabosky J. 2000. Street tree root zones and pavement section design. SNA Research Conference 2000.
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*Research Presentations listed as coauthor (partial recent listing):*

1. Caplan JS, Elgersma KJ, Faillace CA, Grabosky JC, Kourtev P, Ross KA, Yu S, Ehrenfeld JG[OOS 28-2](https://eco.confex.com/eco/2013/webprogram/Paper40111.html) [Changes in soil nutrients and microbial communities following understory shrub invasion by Berberis thunbergii](https://eco.confex.com/eco/2013/webprogram/Paper40111.html) 98th ESA Annual Meeting (August 4 -- 9, 2013)
2. Caplan JS, Grabosky JC, Ehrenfeld JG COS 163-3 Soil exploration by invasive and non-invasive forest shrubs: Inferences from root architecture 2012/8/9 97th ESA Annual Meeting
3. Salisbury, A., F. Gallagher, J. Grabosky. “Temporal changes in vegetation assembly and soil metal pollution in an urban brownfield.” (Presentation) Ecological Society of America Annual Meeting, Ft. Lauderdale, FL. Aug. 2016.
4. Salisbury, A., F. Gallagher, J. Grabosky. “The effects of metal soil contamination and drought on Betula populifolia photosynthesis.” (Presentation) Rutgers-Jilin University Graduate Student Exchange Forum, Jilin, China. May 2016.
5. Salisbury, A., F. Gallagher, J. Grabosky. “Photosynthetic response to drought and metal contaminated soil in mature Betula populifolia.” (Presentation) Mid-Atlantic Ecological Society of America Annual Meeting, Kutztown, PA. Apr. 2016.
6. Salisbury AB, Gallagher FJ, Grabosky JC. Long term stabilization of heavy metals in urban brownfield soil SUITMA 8 Mexico City Mexico. Sept 20-25, 2015
7. Arbab, N**.** J .Conley and J. Grabosky. 2016.”Projections of Invasive Emerald Ash Borer Dispersal Risk in New Jersey.” Poster presented at the Annual Conference of Computational Social Science Society of America (CSSSA). SantaFe, NM, November 16-20.
8. Arbab, N.. and J.Grabosky. 2016.”Socio-Ecological Impacts of Emerald Ash Borer in New Jersey.” Paper presented at the International Society for Ecological Modelling Global Conference, Towson, MD, May 8-12.
9. Jackson A and Grabosky J. Plasticity in population level response of *Acer* species complex taxa to water and temperature stress. 2ndInternational Conference on Urban Tree Diversity Feb 2016.
10. Jackson A, Struwe L, Grabosky J. Physiological and morphological variation within the hard maple complex Bot Society of America Ann. Conference, Boise ID June 29, 2014.
11. Jackson A, Grabosky J. Variation of response to water deprivation within the hard maple complex Sweden conference International Conference on Urban Tree Diversity june 16-18, 2014 Lund Sweden.

*Electronic publications*

1. NJArborists, International Society of Arboriculture. New Jersey Species Rating Guide 3rd Ed. 2015.
2. Bassuk N, Denig B, Haffner T, Grabosky J, Trowbridge P. 2015. CU-Structural Soil: A comprehensive guide. Cornell Urban Horticlture Institute. Pp. 57.
3. Krasnuk D, Geiger P, Viera V, Reutlinger C, Ali O, Rasmussen, L, Zipse P, Grabosky J. 2015. EAB Rapid Ash Survey Report and management options:... Rutgers NJAES Urban Forestry Program. ***(43 reports generated specific to municipalities***) avg. Pp. 43.
4. Grabosky J, Rabin J. 2014. Practical Management Responses to Emerald Ash Borer in NJ. Plant and Pest Advisory for Rutgers Cooperative Extension. June 23, 2014. <http://plant-pest-advisory.rutgers.edu/practical-management-responses-to-emerald-ash-borer-in-nj/>
5. Grabosky J. 2011. International Society of Arboriculture: Proceedings of the first international biomechanics field research conclave and conference, Shalersville and Kent, Ohio August 22-27, 2010: Presentation: Linking biology into the mechanics testing of static and dynamic loading response, and the implications for pruning practices. DVD Video chapter of conference video log.
6. 2010 re-release in digital of 1998 video: Cornell University / City of Ithaca NYSDEC grant: Support Your Local Tree: Cornell Structural Soil Mix 1998 Winner: New York State Conference of Mayors Environmental Project Competition <http://www.hort.cornell.edu/uhi/outreach/videos.htm>
7. 2009. Webinar segment: How can PICP impact tree health? 3-21-09 webinar: Permeable Interlocking Concrete Pavement. ICPI, the Low Impact development Center, and NC State University
8. 2008 Contribution of technical data and documentation, technical advisement including development of stormwater manual: <http://www.cnr.vt.edu/urbanforestry/stormwater/> Stormwater Management: Using trees and structural soils to improve water quality.
9. 2005 release date: Northern Trees tree selection web and expert selection system. URL: <http://orb.at.ufl.edu/TREES/index.html> A joint collaboration of Rutgers, University of Florida and USDA Northeast Area Urban and Community Forestry to be housed as USDA product at Florida. 4000+ images, 1500 facts sheets on tree species. Review by USDA state and regional program and research applications coordinators.
10. 2005. National Association of County Agricultural Agents; CDROM category; Communications Award: 1st Place National : Asian Longhorn Beetle CDROM NJAES Hlubeck W (PI and project director) Gould A (CoPI), Grabosky J (CoPI), Polanin N (CoPI), Weidman (CoPI) advisory team: Marko K, Buckley R, Kluchinski D, Hamilton G, Schulze C, Vodak M, Barbour B, Obal R, Perdomo P
11. 2003. Grabosky J Bassuk N Knutson P E Yoko G. Growing trees in a cement forest: research and technology lead to success in urban landscapes. Land Development Today March 2003 Vol 2 Issue 3 (re-released October 2004) <http://www.landdevelopmenttoday.com/Article106.htm>

*Extension publications*

1. NJArborists, International Society of Arboriculture. 2015. New Jersey Species Rating Guide 3rd Ed. 2015.
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3. Krasnuk D, Geiger P, Viera V, Reutlinger C, Ali O, Rasmussen, L, Zipse P, Grabosky J. 2015. EAB Rapid Ash Survey Report and management options:... Rutgers NJAES Urban Forestry Program. ***(43 reports generated specific to municipalities***) avg. Pp. 43.
4. Grabosky J, Rabin J. 2014. Practical Management Responses to Emerald Ash Borer in NJ. Plant and Pest Advisory for Rutgers Cooperative Extension. June 23, 2014. <http://plant-pest-advisory.rutgers.edu/practical-management-responses-to-emerald-ash-borer-in-nj/>
5. Day S D, and Dickinson S B eds. 2008. Managing stormwater for urban sustainability using trees and structural soils Virginia Polytechnic Institute and State University, Blacksburg, VA. Pp63. ***Contributing author***
6. Haffner T, Bassuk N, Grabosky J, Trowbridge P. 2007. Using Porous asphalt and CU-Structural Soil. Cornell University. Pp17.
7. Bassuk N, Grabosky J, Trowbridge P. 2005. Utiliser le CU-Sol Structural dans un environnemet urbain (French Translation of Using CU-Structural Soil in the Urban Environment. Cornell University. Pp15.
8. Bassuk N, Grabosky J, Trowbridge P. 2005. Using CU-Structural Soil in the Urban Environment. Cornell University. Pp15. <http://www.hort.cornell.edu/uhi/outreach/pdfs/custructuralsoilwebpdf.pdf>
9. Polanin N, Maletta M, Grabosky J. 2003/ updated 2009 /in revision . Rutgers AES Fact sheet: FS019 How to hire a tree care professional.
10. Grabosky J. 1999. Street Tree Establishment in Alternative Pavement Profiles. The Landscape Gardener, The NSLGA Magazine: Proceedings of the 31st Annual Professional Turf and Landscape Conference
11. Grabosky J. 1999. Transplanting in the Landscape: Disturbances and Interfaces. The Landscape Gardener, The NSLGA Magazine: Proceedings of the 31st Annual Professional Turf and Landscape Conference
12. Grabosky J. 1998. Tree Selection and Survival for Urban Areas. Note-taking outline, resource notebook and certification exam for Road Master Program. pp. 50 + informational booklets and literature.

*Trade journal publications*

1. Zipse P, Grabosky J. 2015 NJ Emerald Ash Borer Update. The Gardener News Nov 2015
2. Zipse P, Grabosky J. 2015 NJ Emerald Ash Borer Update. The Shade Tree Oct 2015
3. Zipse P, Grabosky J. 2015 NJ Emerald Ash Borer arrives in NJ. The Shade Tree Oct 2014
4. Alvey A, Bassuk N Grabosky J. 2015. After the Aftermath: How Do Homeowners View Trees Following Hurricane Sandy? Arborist News 24(4):
5. Grabosky J. 2014. After the storm musings. The Shade Tree 87(1-2):9-10.
6. Dahle G. and Grabosky J. 2010. Is branch slenderness useful in arboricultural practices? Arborist News 19(6):28-31.
7. Grabosky J. 2003. Compaction in tree establishment and root zone protection. TCI Magazine July, 2003. 22-27.
8. Grabosky J. 2002. Soil compaction and tree care. Florida Arborist; Summer 2002: 5.
9. Grabosky J. 2002. Mycorrhyzae in the urban landscape. Ornamental Outlook Feb, 2002: 22-27.
10. Grabosky J, Bassuk N, Trowbridge P. 1999. Technical applications of designed pavement materials for urban tree planting. Landscape Architecture Technical Information Series.
11. Grabosky J. 1999. Sistemazione dei viali alberti con profili alternativi di pavimentazione. Flortecnica 3-99: 22. *(A Transcription of invited presentation in Italy dealing with skeletal soil material design and research: A system for tree-lined avenues with an alternative pavement profile).*
12. Bassuk N, Grabosky J, Trowbridge P, Urban J. 1999. Reprint of: Structural soil: An innovative medium under pavement that improves street tree. Ground Work: April 1999.
13. Grabosky J. 1995. Soil Amendments: When Where and Why. Arbor Age 15(5): 26-30.

*Book reviews*

1. Grabosky J. 2014. Methods in Forest Canopy Research Arboriculture and Urban Forestry
2. Grabosky J. 2013. Urban Tree Health: A practical and precise estimation method Arborist News
3. Grabosky J. 2012. Old Growth Urban Forests. Arboriculture and Urban Forestry.
4. Grabosky J. 2002. Horticulture Principles and Practices. 2nd ed.. NACTA Journal 46(2):34.
5. Grabosky J. 1999. Arboriculture: Integrated Management of Landscape trees, shrubs, and vines. 3rd ed. HortTechnology. April-June 1999: 297-298.

*Book Chapter*

Grabosky J Bassuk N. Chapter 22. Design Options to Integrate Urban Tree Root Zones and Pavement Support within a Shared Soil Volume ***In***: Ferrini F, Konijnendijk van den Bosch C, Fini A. Eds. Routledge Handbook of Urban Forestry. 2017.

Grabosky J. 2001. Chapter 13: Trees and urban construction. *In*: P. Lancaster (Editor). Construction in Cities. CRC Press. Boca Raton, 157-191.

*Executive report*

Grabosky, J. and R. Langhans (P.I.). 1999. Evaluation of manufactured soils from NY/NJ Harbor Dredged Material: bench-scale testing of Vivaldi lettuce in container and landscape media formulations at Cornell University. **Exec. Report** on contract with Westin Corp. subcontract 101062sS

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| **Research presentations** |
| 1/8/13 | USDA Program Director’s MeetingInvasion Ecology | Belowground Competition: A mechanism to explain the invasiveness of exotic forest understory shrubs |
| 9/25/12 | International Society of Arboriculture Tree Biomechanics Symposium, Morton Arboretum | Patterns of Radial Root Growth of *Acer Saccharinum* L. in response to wind loading, patterns with increasing distance from the trunk |
| 08/12/12 | International Society of Arboriculture 88th Annual Conference Portland, Oregon | L.C. Chadwick Award for Arboricultural Research:Tree research and applications: Patience in a time of immediacy |
| 09/13/11 | International Society of Arboriculture Tree survival in the urban forest, an international symposium | Developing an organizational approach to urban tree stocking management and research |
| 07/27/11 | International Society of Arboriculture 87th Annual Conference Sydney, Australia | Description of torsional self-loading in the primary branches of 40 year old *Tilia cordata* |
| 08/26/10 | International Society of Arboriculture and the TreeFund; 1st International biomechanics symposium and field workshop | On the importance of explicitly linking biology and anatomy into the interpretation and development of mechanical tests  |
| 07/30/10 | International Society of Arboriculture 86nd Annual Conference Chicago IL | Digital visualizations of decay in oak species 5 years after reduction pruning |
| 07/29/09 | International Society of Arboriculture 85nd Annual Conference Providence, RI | Modeling root growth impacts on pavement wearing surfaces with Finite Element Methods |
| 10/06/08 | International Society of Arboriculture Landscape Below Ground III Conference Lisle, IL | Modeling root growth impacts on pavement wearing surfaces with Finite Element Methods |
| 07/29/08 | International Society of Arboriculture 84nd Annual Conference St. Louis, MO | Ten years of study data: Tree growth in paved skeletal soils and plant available moisture testing in skeletal soils |
| 08/02/06 | International Society of Arboriculture 82nd Annual Conference Minneapolis MN | Measuring Canopy Architecture of Norway Maple to develop iterative standing load in branches. |
| 08/02/06 | International Society of Arboriculture 82nd Annual Conference Minneapolis MN | Impact of Reduction Pruning Cuts on discoloration and Decay in Live Oak and Schumard Oak, 3rd Year Data. |
| 07/30/05 | International Society of Arboriculture 81st Annual Conference Nashville TN | Defining the ability of roots to lift pavement |
| 08/05/03 | International Society of Arboriculture 79th Annual Conference Montreal Canada | Developing canopy coefficients for designing better ordinances |
| 01/04/08 | Northeast Region American Society for Horticultural Science. New Brunswick, NJ. | Plant available moisture in designed soils for pavement systems |
| 08/04/99 | International Society of Arboriculture 75th Annual Conference Stanford CT | Root Growth in Pavement Section Profiles |
| 03/06/98 | International Society of Arboriculture Landscape Below Ground II Conference San Fransisco CA | Use of Load-bearing Soils Under Pavement - Results |
| 08/04/97 | International Society of Arboriculture 73rd Annual Conference Salt Lake City UT | Root Growth in Pavement Profiles: A rhizotron study |
| 08/16/95 | International Society of Arboriculture 71st Annual Conference Hilton Head, SC | A New Street Tree Soil Medium to Increase Rooting Volume and Decrease Pavement Damage |
| 08/01/95 | American Society for Horticultural Science 92nd Annual Meeting Montreal, Canada | Root Penetration In Heavily Compacted Soil Systems |

*Funding history:*

McIntire-Stennis

Aggregated funding for Outreach coordinator: $50,000 plus university coverage of benefits and f&a

NJ DEP Forestry Services Rapid Ash Survey: $30,000 to 6 undergraduate summer interns 2015

2015 McIntire-Stennis program funds linked to CRL

Project Amount

17350 $35,000 – Grabosky\* Developing an urban context to enable service life discussions for tree and canopy management

17350a $50,000 – Grabosky/Hamilton Applied forest entomology in response to Emerald Ash Borer in NJ

17325 $20,000 – Grabosky/Gallagher Resilience within Naturally Assembled Urban Forest Stand

17329 $10,000 – Grabosky/Jackson Study Looking at Heat Tolerance Adaptation Within the Hard Maple Complex

17330 $47,578 – Lathrop/Marxen/Zipse/Grabosky/Kaplan; Place-based WebGIS Visualization Tool to assist Forest Managers in New Jersey

 Grabosky J. NJ17311 Urban tree management in the development and maintenance of urban landscapes. Funding 2005-2008: $215,708.21

 Grabosky J. NJ17312 Dealing with root-pavement conflicts in urban-suburban New Jersey. Funding 2008-2011: $145,916.00

Dahle G., James K., Detter A., Kane B. and Grabosky J. Urban Tree Biomechanics Literature Review. International Society of Arboriculture Science and Research Committee. 2010-2011 $25,000.00

Ehrenfeld J. and Grabosky J. Below-ground competition: a mechanism to explain the invasiveness of exotic forest understory shrubs. 2010-2012 USDA-CREES 431507 $421,815.00

Greenfeld J. et al. City Parks Foundation: An analysis of street tree planting mortality and survival in New York City. 2005-2008 N.U.C.F.A.C. $61,640.00. Listed as Collaborator for experimental design and analysis consultation

John and Eleanor Kuser Faculty Scholar in Urban and Community Forestry endowment funding.

**Extension Activity**

***Conference program hosting***

2008 i-Tree training inventory basics workshop February 20, 2008: NJDEP and Rutgers Urban Forestry for NJ Communities

2008 i-Tree training inventory basics workshop Sept. 2008: NJDEP and Rutgers Urban Forestry Somerset Cty Extension for NJ Communities.

2008 i-Tree computer training workshop June 17-18, 2008: NJDEP and Rutgers Urban Forestry for NJ Communities

2007 Mid-Atlantic Workshop June 12-13 2007 i-Tree: Train-the-Trainers workshop for release and adoption of i-Tree

***Extension conferences; invited lectures*** (itemized titles follow initial table)

|  |  |  |  |
| --- | --- | --- | --- |
|  | In the state of employment | Out of the state of employment | International |
|  |  |  |  |
| 2017 given or scheduled (as of February 2017) | 6 | 3 |  |
| 2016 | 14 | 6 | 3 |
| 2015 | 9 | 5 | 0 |
| 2014 | 4 | 13 | 3 |
| 2013 | 9 | 10 | 1 |
| 2012 | 3 | 9 | 0 |
| 2011 | 9 | 1 | 6  |
| 2010 | 5 | 9 | 0 |
| 2009 | 4 | 5 | 0 |
| 2008 | 8 | 9 | 3 |
| 2007 | 11 | 9 | 0 |
| 2006 | 7 | 3 | 0 |
| 2005 | 10 | 8 | 0 |
| 2004 | 7 | 5 | 0 |
| 2003 | 11 | 4 | 3 |
| 2002 | 3 | 5 | 1 |
| 2001 | 11 | 1 | 0 |
| 2000 | 9 | 1 | 0 |
| 1994-1999 | 36 | 12 | 2 |
| Total | 176 | 118 | 22 |

**Service**

Affiliations

Chair New Jersey Emerald Ash Borer Taskforce: A multi-agency coordination group for developing responses to the invasive insect, EAB. 2014-present <http://www.nj.gov/agriculture/divisions/pi/prog/emeraldashborer.html>

Chair USDA Forestry Research Advisory Council (representing Agr. Experiment Stations)

 Chair: 2012, 2013

 Chair-Elect: 2011

 Member: 2010

Editor-in-Chief Arboriculture & Urban Forestry November 2014-present

Associate Editor: Arboriculture & Urban Forestry July 2008- 2013

Editorial board: Arboriculture & Urban Forestry (Journal of Arboriculture) 1999-June 2008

Board Member: Bartlett Tree Foundation Inc. 2001-2002, 2007-present

New Jersey Community Forestry Council June 2008- present

Advisory Board: Casey Trees; Washington D.C. External Research Advisory Board

Trustee: New Jersey Arborists/International Society of Arboriculture 2004-2016

Board of Directors New Jersey Shade Tree Federation 2007-2013

 Board V-pres 2016-2017

Member: International Society of Arboriculture (I.S.A.) 1996-present

Annual Meeting Research Integration Committee: a taskforce of the Science and Research Committee 2010-2011

International Conference Program Committee: 2009 - 2011

Board of Directors: 2002-2007

Immediate Past President: Arboricultural Research and Education Academy 2005-2007

President: Arboricultural Research and Education Academy 2003-2005

Vice Pres: Arboricultural Research and Education Academy 2000-2003

ISA Board Certified Master Arborist Test Committee; academic advisor, domain chair for ecology and construction management for developing certification exam 2001-2005

North American Colleges and Teachers of Agriculture 2002-2003

Program Committee: 2014 Urban Tree Diversity; SLU Alnarp Sweden: ISA, IUFRO, CARe-FOR-US

Member: Team EMERGE; a design studio partnership with Earth from Above Inc. and Picture Earth LLC.: ***Attempted*** to bring the Earth From Above Exhibition to New York City for a three month period as the first full showing in US in 2010.

***Editing and Reviewing***

Editorial efforts

* + 2010 Gilman E. An Illustrated Guide to Pruning 3rd Ed. Delmar Publishing Albany, NY. *Author solicited technical review Chapters 2,3,4*
	+ 2006 ANSI A-300 part 5 Best Management Practices: Managing trees during construction. ISA
	+ 2006 US Fish and Wildlife Foundation grant proposal review as expert for vegetation management in electric
	+ 2005 Editorial coordination and review of chapters for Kuser J. Handbook of Urban and Community Forestry in the Northeast 2nd Ed. Springer-Verlag, Dordrecht.
	+ 2003 Ross Clark. Specifing Trees: a guide to assessment of tree quality 2nd Ed. NATSPEC//Construction Information Milsons Point, New South Wales, AU. Pp. 49. *Author solicited review and comment*
	+ 2002 *Outside chapter review*for main editors: The Experts of COST Action E 312 Urban Forests and Trees. *In:* Nilsson K Randrup T B and Konijnendijk C C (Editors). Urban forests and trees in Europe: A reference book COST European Cooperation in the field of Scientific and Technical Research
	+ Gilman E 2002. An Illustrated Guide to Pruning 2nd Ed. Delmar Publishing Albany, NY. *Author solicited technical review Chapters 1,2,3,4*
	+ 2001 Volunteer Technical Editor/ Contributor: University of Florida Building Green & Profit Special Topics: Trees and Construction: Keeping trees alive in the urban forest continuing education program
	+ 2000 Review of Trees and Construction: Keeping Trees Alive in the Urban Forest; Trees from the Ground Up: Urban Forestry (Manual, Participant Guide and Facilitator Guide) Ruppert K, Easton J, Black R. IFAS bulletin 324 University of Florida
	+ 2004-2013 Invited editorial reviews for (*partial listing)*:

 Environmental Management.

 American Society of Horticultural Science publication HortTechnology

 Urban Forestry Urban Greening

 Urban Ecosystems

 American Society of Horticultural Science publication HortScience.

 Forest Science

 Environmental Planning

***Contributing acknowledgments:***

Fite K, Smiley E T. 2015. Managing trees during construction Best Management practices companion to ANSI (American National Standards Institute) ANSI A300 part 5. Int. Soc. Arboriculture. Pp35

Scharenbroch B C, Smiley E T, Kocher W. 2014. Soil Management for Urban Trees. Best Management practices companion to ANSI (American National Standards Institute) ANSI A300 part 2. Int. Soc. Arboriculture. Pp38.

Harris, Clark, Matheny. 2004 Arboriculture: Integrated management of landscape trees shrubs and groundcovers 4th Ed. Prentice-Hall *For images, data and communications for text inclusion*

Trowbridge P and Bassuk N. 2004. Trees in the urban landscape: site assessment, design, and installation. Pp 207. John Wiley and Sons. *For work associated with topics in the text*

Singer L. 2004. Hardiness: Survival Strategies for Trees Arborist News 13(6):9-10 *quoted interview used for article content*

Costello, Jones. 2003. Reducing infrastructure damage by tree roots: A compendium of strategies. WCISA *For text, images, data, literature review information*

***Visiting scientist***

April 20-24, 2004 Purdue University Urban Forestry Program: 16 hours lecture, research program input on ROW tree establishment program

***Rutgers University:***

2015- Director: S.E.B.S. undergraduate General Honors Program

2014-present Director: Center for Landscape Resilience; a joint venture of Rutgers and the USDA FS

2012-present Coordinator: Rutgers campus teaching collection replanting program

2012=2015 Rutgers School of Environmental and Biological Sciences; Tenure and Promotion Committee

2002-present Coordinator: Urban and Community Forestry Undergraduate Certificate Program

2011-2014 Rutgers University Senate; Graduate school- New Brunswick representative

2008-2009 EENR Undergraduate Curriculum Committee

2007-2010 Cook Campus Land Use Committee

2003-2005 Faculty Coordinator: External Forestry Advisory Committee

2007, 2013 NJA ISA chapter day of service: NJ Arborists donation of professional service on campus: 170 tree care professionals and associated equipment, est. $180,000.00 tree care services for $17,000.00 and food as hosts.

2007 Rutgers Capital Campaign proposal: Developing an Urban Environmental Stewardship Ethic through the Green Infrastructure of SEBS, Cook Campus

2006 Task force evaluating US Highway 1 re-construction impacts to Rutgers Cook Campus at College Farm Road

2005 DEENR curriculum review committee Urban and Community Forestry Certificate program coordinator

2005 Appointed member of discussion team for proposed DEENR/Entomology merger specific to extension specialist concerns

2004 Began co-adjutant status for the Landscape Architecture Program, Department of Landscape Architecture, Cook College

2003 Technical advisement on No Net Loss compensation landscape plan for campus section of the Route 18 expansion project.

***University of Florida:***

Co-Chair: Environmental Horticulture state-wide education committee 2001-2002

Member: University of Florida Land Use Facilities Planning Committee2001-2002

Co-Advisor: Environmental Horticulture Club 2000-2002

Faculty leader: Environmental Landscape Horticulture Education Laboratory 1999-2002

Search and Screen Committee: Apopka Teaching Research Landscape Hort position 2001

Faculty Leader: Env. Hort. Student International Trip; Italy 2001

Faculty coach ALCA National student Career Days 2000

Faculty coach Student Society of Arboriculture annual National meeting 2001

***General Public services***

2016 Outside expert review/evaluator: SLU Alnarp; Assessment packet for SLU Professor ua 4699/2015; Professor of Open Space Management

2013-pres *Pro Bono* Expert Witness: The state of CT vs Stavola (in process); Report Pp 25.

2015: Judge and program sponsor: NJ Envirothon, state competition Cape May Courthouse, NJ

2013-2014: Primary Author, revision team for NJA-ISA New Jersey Tree Species Rating guide for tree value appraisal

2010-13 Judge for FFA in NYS local-state competitions: Extemporaneous speaking, landscape client interview, prepared speech

2009-13 Cazenovia, NY village tree commission

2012 *pro bono* Jersey SIP Ditch park development project

2012 *pro bono* Honeywell/MATEC open space plan guideline development over contamination cap site

2007 NYC Parks and Recreation Invited taskforce member regarding plaNYC

2005 Member of committee to Establish Heritage Tree designation standards for Central New Jersey

2005 Planting and volunteer training: New Jersey State Arbor Day Celebration Phillipsburg, NJ

2004-5 Member of NJ Board of Public Utilities committee to re-write Section 14:5

 *Vegetation management- tree trimming standards*

2004 Invited member: Design symposium: Designing the urban landscape to integrate trees and stormwater: USDA Center of Watershed Protection, Annapolis, Maryland

2004 Selected as invited member of the advisory group of experts committee for: *Project Learning Tree: Development of website of urban and community forestry resources.* (National Urban and Community Forestry Advisory Council 2004 Grant)

2003 Planting and volunteer training: New Jersey State Arbor Day Celebration: 9-11 Grove of Remembrance; Liberty State Park

2003 Free consultation on request with site visit for soil issues present at the Royal Botanic Garden Melbourne Childrens Garden project site (6 hours of time on 2 visits total). Landscape Architecture and Grounds departments: Royal Botanic Garden Melbourne Australia and Ballarat (while in the Melbourne area presenting lectures)

2001 Technical advisor for skeletal soil use: McClain Design Group: University of Florida Stadium Expansion project. Urban Resource Group: South Pointe Streetscape Miami. FL.

***Tenure Review outside review and letter***

2012 Univ. Florida Gainesville IFAS Extension (for tenure and promotion to Associate Prof. equivalent)

2011: Virginia Tech Dept. Forestry (for tenure and promotion to Associate Prof.)

2011: Univ. Florida Gainesville Dept. Forestry (for tenure and promotion to Associate Prof.)

***Program curriculum Review***

2014 State University of New York Morrisville: 4 year BT Horticultural Business Management

2013 State University of New York Cobleskill: 4 year BT Plant Science Program

**Awards and Honors**

2017 Teaching Excellence Award: Rutgers School of Environmental and Biological Sciences/ NJ Agricultural Experiment Station

2012 L.C. Chadwick Award for Arboricultural Research; International Society of Arboriculture

2003-Present

 John and Eleanor Kuser Faculty Scholar in Urban and Community Forestry

 Endowment match campaign for initial position completed 2005, funding conferred 2006.

2008 *nomination* Aresty Research Center: Undergraduate Research Mentor of the Year

2006 New Jersey Arborists ISA: Arborist of the year

2006 New Jersey Arborists ISA: Arboricultural Researcher of the Year

2006 *nomination*: Board of National Urban and Community Forestry Advisory Committee to USDA

2005 Additional Team member of CURE (Center of restoration ecology) team bid (winning bid): Forest Park Design for 2008 Beijing Summer Olympic Games: Participants: Sasaki associates, Rutgers CURE, Tsinghua University Planning and Design Institute, The Brooklyn Botanic Garden, Michigan State University, Beijing University and Tsinghua University.

2005 National Association of County Agricultural Agents; CDROM category; Communications Award: 1st Place National : CDROM Asian Longhorn Beetle NJAES Hlubeck W (PI and project director) Gould A (CoPI), Grabosky J (CoPI), Polanin N (CoPI), Weidman (CoPI) advisory team: Marko K, Buckley R, Kluchinski D, Hamilton G, Schulze C, Vodak M, Barbour B, Obal R, Perdomo P

2005 *nomination* Board of National Urban and Community Forestry Advisory Committee to USDA

2001 Environmental Horticulture Club: Earth Day celebration tree dedication: Dr. Jason Grabosky

1998 Video: Cornell University / City of Ithaca NYSDEC grant: "Support Your Local Tree: Cornell Structural Soil Mix 1998 Winner: New York State Conference of Mayors Environmental Project Competition

1997 New York State Arborists Outstanding Scholar