

Andra' D. Johnson, Ph.D. Urban Forest Management
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EDUCATIONAL BACKGROUND

- **Ph.D. Urban Forest Management.** *The Pennsylvania State University (Penn State):* University Park, Pennsylvania. December 2002.
- **Master of Science in Urban Forestry Management;** August 1999. *The Pennsylvania State University (Penn State):* University Park, Pennsylvania.
- **Bachelor of Science in Urban Forest Management;** December 1996; *Cum Laude Southern University and A & M:* Baton Rouge, Louisiana

PROFESSIONAL EXPERIENCE

Assistant Professor of Urban Forest Management: September, 2002-present.
Southern University and A&M College, Baton Rouge, Louisiana: College of Agriculture, Family and Consumer Sciences

- Teach courses and conduct research relating to Urban Forest Management.
Courses Taught Include:
 - Urban Forest Management
 - Advanced Urban Forest Management
 - Urban Forest Evaluation and Inventory
 - Urban Forest Law and Management
 - Arboriculture I

Doctoral Graduate Research/Teaching Assistant: August, 1999- August, 2002.
The Pennsylvania State University, University Park, Pennsylvania

- Analyzed Data for development of a Management Plan for the Municipal Tree Restoration Program in Pennsylvania.
- Taught two semesters of undergraduate Field Dendrology.

M.S. Graduate Research/Teaching Assistant: Aug 1997-Aug 1999.

Research Intern: May 1997-August 1997

USGS, National Wetlands Research Center (NWRC), Lafayette, Louisiana

- Developed a Photographic Guide of Selected Urban Forest Wetlands in Louisiana for improving the management of urban forest wetlands within Louisiana.
- Computer Assisted Literature Search.
- Manuscript Development for NWRC.
- Field Data Collection
- Scientific Presentations

Research Assistant, Urban Forestry: May -Aug 1996

USDA Forest Service, Northeastern Forest Experiment Station, Syracuse, New York

- Assisted research forester in a literary search of tree's sensitivity to various pollutants,
- Compiled and analyzed data using Lotus 123 spreadsheet,
- Assisted in development of a computer program for the management of urban forests in order to reduce pollution.

Research Assistant, Urban Forestry: May- Aug 1995

USDA Forest Service, Northeastern Forest Experiment Station, Syracuse, New York.

- Data Entry: Urban Forest Structure and Function
- Compiling Research Data for Individual Urban Tree Species Ability in Removing Pollution.

Research Assistant, Soil Classification and Mapping: January-May, 1996

USDA Natural Resource Conservation Service (NRCS), Denham Springs, Louisiana.

- Assisted soil scientist in the mapping and identification of urban and rural soils.
- Utilized Soil Science Instruments and Mapping Techniques.

PROFESSIONAL AFFILIATIONS:

Member:

- National Arborists Association (NAA)
- School of Forest Resources Environment Committee; 1997-2002
- MANRA, The Pennsylvania State University chapter of MANRRS; 1997-2002
- Pinchot Scholar and Natural Resource Graduate Student Organization (NRGSO)
- The Society of American Foresters (SAF)
- Faculty Advisor for MANRRS at Southern University; 2005
- Society of Wetland Scientists
- James A. Taylor Lodge #78

HONORS AND AWARDS

- Awarded Volunteer Recognition Award for Mentorship of under-privileged children from BRWOFC, Baton Rouge Walk of Faith Collaboration. June 2004
- Awarded by Baton Rouge Walk of Faith Collaboration for participation in their Career Fair, June 2004.
- Awarded Certificate of Appreciation from USDA-Forest Service Liaison Officer for Southern University, March 2004.
- Inducted into the Office of Sponsored Programs Hall of Fame at the Annual Southern University and A&M College Banquet, March 2003.
- Awarded Pinchot Scholar at the Pennsylvania State University School of Forest Resources. August 1997.
- Awarded Davey Expert Tree Award for academic work, March 1993.
- Awarded Urban Forest Scholarship, Southern University and A&M College, July 1992.
- Reviewer for Journal of Tropical Forest Science; Forest Research Institute Malaysia (FRIM),

RESEARCH INTEREST

- (A) Urban Forest Management
- (B) Developing Computerized Tree Expert System
- (C) Urban Forest Management Plan Development
- (D) Urban Forest Fragmentation and Land Use Management
- (E) Global Climate Change
- (F) Carbon Credit, Carbon Management and Policy Through Urban Forestry Practices.
- (G) Biomass and Wood Waste Utilization

EXTERNAL RESEARCH GRANTS OBTAINED

- Urban Forestry Summer Institute Program FY-2006. \$35,000
- Urban Forestry Summer Institute Program FY-2005. \$19,979.
- Quantifying the Impacts of Biobased Plant Residues on Nutrient Management and Growth of Selected Urban Landscape Trees. CO-Investigator. \$153,176 FY-2004-05
- Educating Minorities in the Utilization of Urban Waste Wood. USDA Forest Service Region 9. Principal Investigator. \$24,999, July 2005.
- Educating Minorities in the Utilization of Urban Waste Wood. USDA Forest Service Region 9. Principal Investigator. \$14,000, July 2004.
- Development of an Urban Forest Management Plan for Cohn Elementary School, Port Allen, Louisiana. Principal Investigator. \$3,000, February 2004.
- Belowground Carbon Storage by Urban Tree Species. Allegheny Power Company. Co-Investigator. \$ 73,850, March 2000.
- Carbon Storage by Utility-Compatible Trees. International Society of Arboriculture John Z. Duling Grant Program. \$ 3,960, August 1997.

PUBLICATIONS

- Johnson, A. 2006 Carbon loss data from urban wood wastes. Abstract in ARD 14th Biennial Research Symposium p. 285
- Ning, Z, Abdollahi, K., and Johnson, A. 2006 Southern University Agricultural Center Scientists Assist Minority Communities and Small Businesses in Urban Wood Waste Utilization. Abstract in ARD 14th Biennial Research Symposium p. 287
- Collins, D., Abdollahi, K., Johnson, A., Ning, Z., Namwamba, F., Taylor, E., and Qi, Y. 2006 Contribution of the Urban Forestry Program at Southern University to Diversify Natural Resource Workforce. Abstract in ARD 14th Biennial Research Symposium p. 250
- Ning, Z. K. Abdollahi, D. Collins, and A, Johnson. 2005 Assist Minority Communities and Small Businesses in Urban Wood Waste Utilization. Submitted to the USDA Forest Service Region 8 for publication
- Johnson, A.D. 2005. The Use of an Air-Spade™ and a Ground Penetrating Radar to estimate carbon storage of urban trees; abstract in Urban and Community Forestry Newsletter Summer 2005 No. 1.

Johnson, A.D. 2005. Start when they are young: A summer urban forestry enrichment program for high school students; abstract in Urban and Community Forestry Newsletter Summer 2005 No. 1.

Johnson, A. and Hall, E. Quantifying the Impacts of Flooding on Carbon Storage in Selected Urban Trees. Submitted for publication to Journal of Arboriculture.

Johnson, A and Hall, E. Carbon Loss from Urban Wood Waste. Submitted for publication. Submitted for publication to Urban Forestry & Urban Greening

Arrington, A. and Johnson, A. 2005. Urban Tree Inventory for the Town of Brusly, Louisiana. Submitted to Mayor Joey Norman and the Town of Brusly for Implementation.

Johnson, A.D., Hall, E., Chappell, C., Cyprian, H. 2004. Urban Forest Management Plan for Cohn Elementary School in Port Allen, Louisiana. Submitted to Cohn Elementary School for implementation.

Goins, T. and Johnson, A.D. 2004. Policy affecting urban forestry management in minority communities. Urban and Community Forestry: Working together to facilitate change. Eds. Ning, Z.H. and Abdollahi, K. A.

Ning, Z., Abdollahi, K., Collins, D. Johnson, A., Namwamba, F., Qi, Y., and Stone, R. 2004. Urban Forestry Program at Southern University. In. Urban and Community Forestry: Working together to facilitate change. Eds. Ning, Z.H. and Abdollahi, K. A.

Johnson, A.D. and Hall, E. 2004. Urban Forest Management Plan for Cohn Elementary School in Port Allen, Louisiana.

Johnson, A.D. 2004. Mulching your way to a healthier tree. Southern University Agricultural Research and Extension Center Circular; Urban Forestry, Natural Resources and Environment No. 401 Vol. 1. March 2004

Johnson, A.D. and Gerhold, H.D. 2003. Carbon storage in urban tree cultivars, in roots and above-ground. Urban Forestry & Urban Greening Vol. 2.

Gerhold, H.D. and Johnson, A.D. 2003. Root Dimensions of Landscape Tree Cultivars. Journal of Arboriculture Vol 29(6).

Johnson, A.D. and Ning, Z.H. 2003. Urban Forested Wetlands in Louisiana. In Proceedings of the Society of American Foresters 2002 National Convention.

Johnson, A.D. 2002. Below-ground carbon storage by selected urban tree species using an air-spade (Proceeding of the 34th Annual Air Pollution Workshop Symposium).

Johnson, A.D. and Gerhold, H.D. 2001. Carbon Storage by Utility-Compatible Trees. In: Journal of Arboriculture. 27(2): 57 – 68.

Johnson, A.D. 2002. Carbon storage in roots of urban tree cultivars. Ph.D. Thesis, The Pennsylvania State University, University Park, Pa. The UMI, Inc.

Johnson, A.D. 1999. Carbon storage by utility-compatible trees. M.S. Thesis, The Pennsylvania State University, University Park, PA. 42pp.

PROFESSIONAL PRESENTATIONS

Johnson, A. 2005. Utilizing wood wastes from urban trees. Presented at Making New Orleans Green Again Workshop, Dec. 6, New Orleans.

Johnson, A. 2005 Economical benefits of utilizing wood wastes. Presented at Making New Orleans Green Again Workshop, Dec. 6, New Orleans, LA

Johnson, A. 2005 Carbon loss data from urban wood wastes. Presented at Making New Orleans Green Again Workshop, Dec. 1, Baton Rouge, LA

Johnson, A. 2006 Carbon loss data from urban wood wastes. Presented at ARD 14th Biennial Conference, Atlanta, Ga.

Hall, E. and Johnson, A. 2005. Quantifying the Impacts of Flooding on Carbon Storage in Selected Urban Trees. Presented at Spring 2005 SMART Program, Baton Rouge, La.

Johnson, A.D. 2005. Presented poster presentation entitled “The use of an Air-Spade™ and GPR to determine carbon storage in urban trees” at the Society of American Foresters (SAF) conference Fort Worth, TX. October 18-22.

Arrington, A. and Johnson, A. Presented results from Urban Tree Inventory for the Town of Brusly, Louisiana to town council and mayor. July 7, 2005

Johnson, A. 2005. Presentation entitled “The Importance of Arbor Day” presented to Town of Brusly, La citizens at Annual Arbor Day Program. January 21, 2005.

Johnson, A.D. and Ning, Z.H. 2003. Presentation entitled “Value of Urban Forested Wetlands” presented at the Society of Wetland Scientists conference New Orleans, LA. June 8-11.

Johnson, A.D. and Ning, Z.H. 2002. Presented poster presentation entitled “Urban Forested Wetlands in Louisiana” at the Society of American Foresters (SAF) conference Raleigh, NC. October 4-5.

Johnson, A.D. 2002. Presented seminar entitled “Sharing in Our Future” to the Texas A&M College Forest Resource faculty and members of the Texas Forest Service. College Station, TX. January 3.

Johnson, A.D. 2002. Invited to present “Below-ground carbon storage by selected urban tree species using an air-spade” at *The 34th Air Pollution Workshop and Symposium* in State College, Pa. April 15 – 18.

Johnson, A.D. 2002. Presented “Below-ground carbon storage by selected urban tree species using an air-spade” to faculty and students in the Department of Forest Resources, The Pennsylvania State University, University Park, Pa. March 11.

Johnson, A.D. 2001. Presented “Carbon Storage by Utility-Compatible Trees” at the *International Society of Arboriculture Conference*, Stamford, Ct.

Johnson, A.D. 2001. Presented “Carbon Storage by Utility-Compatible Trees” at meeting for *Municipal Tree Arborists of Pennsylvania*, PA.

Johnson, A.D. 2000. Presented “Removal of Carbon Dioxide by Urban Tree Species” at the *Air Pollution Conference*, University Park, Pa.

Johnson, A.D. 2000. Presented a one day workshop on “Urban Forest Management and Ecology” at *Growing Your Future*. Philadelphia, Pa.