

Curriculum Vitae

Buren B. DeFee II

P.O. Box 2152
Monticello, AR 71656
870-460-1748 (wk)
870-367-3129 (hm)
Buck@DeFee.org

ACADEMIC PREPARATION:

Ph.D. in Urban and Regional Sciences, College of Architecture, Texas A&M University, 2003

Dissertation: *Spatial Patterns of Long-Term Development and Their Impact on Watershed Flow*

Advisor: Dr. George Rogers

M.S. in Land Development, College of Architecture, Texas A&M University, 1998

Thesis: *Urban Sprawl*

Advisor: Dr. Michael McCarthy

B.S. in Marine Biology, College of Geosciences and Maritime Studies, Texas A&M University, Galveston, 1994

RESEARCH SKILLS:

- Extensive use of Geographic Information Systems, familiar with Arc9, ArcView3.3, Geomedia Pro, Geomedia WebMap, ArcSDE, ArcIMS
- Online GIS using Geomedia Webmap and ArcIMS
- Image analysis using Erdas Imagine software
- Oracle, Access and SQL Server Databases
- Interfacing web pages with databases using VB, ASP and SQL
- Spatial analysis techniques

PROFESSIONAL EXPERIENCE:

Assistant Professor, January 2003 to Present. School of Forest Resources, University of Arkansas at Monticello. Split appointment: 70% Teaching, 20% Research, 10% Extension. Courses: Introduction to GIS/GPS/Remote Sensing; Advanced GIS II.

Instructor, Spring 2003 Dept. of Landscape Architecture and Urban Planning
Introduction to the Principles of Land Development

Research Assistant , 2002 - Present Dept. of Landscape Architecture and Urban Planning
- Support for Dissertation Research

Research Assistant, 1998-2002 Joint position between Brazos Valley Council of Governments, TAMU Office of Facilities Coordination, College of Architecture
Built an online Open Space Decision Support System

Research Assistant, 1997-1998 Sustainable Enterprise Institute, Dept. of Civil Engineering
- Research on the long-term spatial relationship between agriculture, rainfall and soils in Texas

Research Assistant, 1995-1997 Dept. of Human Anatomy and Medical Neurobiology, Texas A&M University
- Laboratory director for research on the effects of alcohol on bone in a rat model

PUBLICATIONS:

Rogers, G. and B. DeFee II. Long-term Impact of Development on a Watershed: Early Indicators of Future Problems. *Landscape and Urban Planning*. In Press.

Sampson HW, N Perks, TH Champney, B DeFee II. Alcohol Consumption Inhibits Bone Growth and Development in Young Actively Growing Rats. *Alcohol Clin. Exp. Res.* 20:1375-1384 (1996).

Sampson HW, C Chaffin, J Lange, B DeFee II. Alcohol Consumption by Young Actively Growing Rats. A Histo-morphometric Study of Cancellous Bone. *Alcohol Clin. Exp. Res.* 21:352-359 (1997).

RESEARCH IN PREPARATION:

- DeFee II, B and Weih, R. *The Interpretation of Land Use Change and Development of Monitoring Protocol for the Heartland Network Hot Springs National Park*. Currently Funded
- White Jr., D., DeFee II, B., and Watt, C. *Home Range Characteristics and Habitat Use of Spotted Skunks in the Ouachita Mountains, Arkansas*. Proposal submitted to Arkansas Game and Fish. Pending.
- DeFee II, B. *Estimating Land Use in the Absence of Aerial or Satellite Photography*
- DeFee II, B. *Implications of Long-term Development Patterns in Public Policy*
- DeFee II, B. *Spatial Patterns in Watershed Modeling*

PRESENTATIONS AT CONFERENCES:

- DeFee II, B. *Estimating Impervious Cover: An alternative to Remote Sensing*. ESRI User Conference, San Diego, CA (2004)
- DeFee II, B. *The Impacts of Long-Term Development on a Watershed: Is Monitoring Impervious Cover Enough?* ESRI User Conference, San Diego, CA (2004)
- DeFee II, B. *An Unsustainable Change - Long-Term Development and Flooding in a Coastal Watershed*. Texas A&M University's 125th Anniversary Celebration Symposium "A Sustainable Gulf of Mexico: Research, Technology, and Observations 1950 to 2050", Sponsored by the Sustainable Coastal Margins Program, Texas A&M University (2002)
- DeFee II, B. *Spatial Metrics in the Built Environment: Studying the Effects of Pattern on Flooding*. The 27th Annual Hazards Research and Applications Workshop, Boulder, CO, (2002)
- DeFee II, B, D Wunneburger. *Integrating Stakeholder Concerns Into Open Space Planning Decisions*. The 16th Annual Symposium of the U.S. Chapter of International Association of Landscape Ecology (US-IALE). Pattern, Process, Scale, & Hierarchy: Interactions in Human-Dominated and Natural Landscapes. Arizona State University, Tempe, Arizona (2001)
- Wunneburger; D, B DeFee II. *Integrating IT Tools to Assist Local Stakeholders in Open Space Decisions*. CORP 2001, 6th International Symposium on Information and Communication Technologies in Urban and Spatial Planning and Impacts of ICT on Physical Space, Vienna University of Technology (2001)

LECTURES, PRESENTATIONS and COURSES:

- SIS 3814, Introduction to Geographic Information Systems, Geographic Positioning Systems and Remote Sensing. Fall, 2004. Introductory course to provide basic mapping skills and theory to all students while preparing majors for more advanced work.
- SIS 4713, Advanced Geographic Information Systems II. Fall, 2004. Final advanced GIS course for majors. Introduces network analysis, metadata tools, ArcSDE and ArcIMS. Students build an IMS-enabled website from a computer with a blank hard drive.
- Invited Speaker, Arkansas County Judges Association, Fall 2004 meeting.
- Invited Speaker, Arkansas County Assessors Mapping Program, Fall 2004 meeting.
- LDEV 467, Introduction to the Principles of Development, Spring, 2003 Undergraduate introductory course to the physical, financial and legal aspects of developing properties.
- Long-Term Development and Flooding, Methods and Procedures for Study 2002 Hazards Workshop, Boulder CO
- Long-Term Development and Flooding, preliminary work, IALE, 2001, Tempe AZ
- Two day Erdas Imagine training workshop, Dec. 2000
- Guest lectures for Dr. Chris Ellis, Introduction to GIS. An introduction to GIS on the web: Finding data, going beyond the shapefile
- Guest lectures for Dr. Douglas Wunneburger, Advanced GIS. Using Geomedia WebMap for Decision Support Systems; Dealing with large databases in GIS; Spatial Analysis in GIS
- Guest lecture for Dr. George Rogers, Seminar. An introduction to GIS
- Guest lecture for Dr. Byoung-Suk Kweon. Open Space Development, User input into open space decisions
- Open Space Decision Support System Demonstrations, In attendance were local government officials often including Mayors and County Commissioners Texas State GIS, Apr. 2002 Robertson County, May 2001 Washington County, May 2001 Madison County, Mar. 2001 Burleson County, Feb. 2001 Grimes County, Jan. 2001 Leon County, Nov. 2000 Brazos County, Sept. 2000, U.S. Forest Service, Jan. 2000

CURRENT RESEARCH INTERESTS:

Expanding current work on the impacts of long-term development to include comparative studies between similar cities with differing planning practices, cities in different environments, and cities at different scales.

PROFESSIONAL MEMBERSHIPS:

Urban and Regional Information Systems Association
Urban Land Institute
Phi Kappa Phi Honor Society

PROFESSIONAL SERVICE:

- Graduate Faculty
- Monticello Planning Committee Consultant
- Brazos Valley Council of Governments Environmental Subcommittee member
- Secretary, Urban and Regional Sciences Student Association

HONORS AND AWARDS:

Best Student Presentation, TAMU Research Week, 2002

Best Poster Award, Texas A&M University's 125th Anniversary Celebration
Symposium "A Sustainable Gulf of Mexico: Research, Technology, and
Observations 1950 to 2050", 2002

Dept of Landscape Architecture and Urban Planning Ph.D.

Research Award, 1999-2000 Dept of Landscape Architecture
and Urban Planning Ph.D. Scholar Award Honorable Mention,
1999-2000

Who's Who Among American College and University Students, 1999-2000 Edwin
Eikel Outstanding Student Award, 1994

REFERENCES:

The following persons will provide letters of recommendation upon request:

Robert Kissell
School of Forest Resources
University of Arkansas at Monticello
P.O. Box 3468
Monticello, AR 71656
870-460-1192
kissell@uamont.edu

George Rogers
3137 TAMU
Landscape Architecture and Urban Planning
Texas A&M University, College Station, TX 77843-3137
(979) 845-1046
grogers@taz.tamu.edu

Atef Sharkawy, MSLD Coordinator
3137 TAMU
Landscape Architecture and Urban Planning
Texas A&M University, College Station, TX 77843-3137
(979) 845-7883
sharkawy@archone.tamu.edu

