

Curriculum Vitae

DAVID WYLIE GIBSON, Ph.D.

304 Reed Laboratory

P. O. Box 110565

University of Florida

Gainesville, FL 32611

(352) 392-4995 (352) 392-4957 FAX

email: dgibs@ifas.ufl.edu

DOB: October 5, 1944

TITLE AND ACADEMIC RANK

Emeritus Associate Professor, University of Florida, Dec 31, 2007 to present. Adjunct professor in the Geomatics program (Jan 31, 2008) to present.

Founding Geomatics (Surveying and Mapping) Program Director, University of Florida, 1974.

Associate Professor, Geomatics (Surveying) program, School of Forest Resource Conservation (SFRC) 2004-Dec. 2007, and in the Department of Civil Engineering, University of Florida, 1974 to 2004.

SERVICE ON THE UNIVERSITY FACULTY: Continuous from September, 1974

EDUCATION

Ph.D. (Civil Engineering)	University of Alabama,	2002
MSCE (Civil Engineering)	University of Miami	1970
BSCE (Civil Engineering)	University of Cincinnati	1967

SPECIAL CAREER RECOGNITION

2006, named by the Professional Surveyor Magazine as **one of the "25 Most Influential People in the U.S. Surveying Profession,"** In their 25th year of publication in the U.S., the magazine ran a special survey of the profession taking input as to which persons living or deceased have given the most positive impact on the U.S. surveying profession. D. Gibson was cited for contributions in surveying education, accreditation, and examination.

RELATED WORK EXPERIENCE

Consultant to the NCEES National Council of Examineers for Engineers and Surveyors, subject matter expert, review exams, identify exam weaknesses for resolution, 1997 to present.

Professional consultant to states and universities for the establishment and development of academic programs in surveying and mapping (Alabama, Nevada, Louisiana, Kentucky, Oklahoma).

GIS consultant to various governmental units charged with developing guidance plans for GIS implementation.

Survey and Mapping Consultant to various surveyors and attorneys in Florida as expert on surveying related problems, 1978 - present, court qualified as expert.

Consultant to Florida's Department of Environmental Protection on riparian rights and water boundary problems, various occasions 1985 – present

Program Developer and Program Director, UF Geomatics (Surveying and Mapping) Program, 1974-1999. .

Program Developer and Instructor; Land Surveying Program, Palm Beach Junior College, Lake Worth, Florida. 1970 - 1974.

Instructor, University of Miami, Coral Gables, Florida, Department of Civil Engineering, taught Structural Analysis, Surveying, and Engineering Sciences, 1968-70.

Survey Party Chief, Hutcheon Engineers, West Palm Beach, performed survey field work, 1970 - 1974.

Survey Field Coordinator, Hutcheon Engineers, West Palm Beach, 1973-1974.

Various engineering/construction positions: Inspector, Ohio Department of Highways; Grade Foreman, the Ohio Contracting Company; Materials Tester, Pittsburgh Testing Laboratories, 1963 to 1970.

PROFESSIONAL LICENSING

Florida-Licensed Professional Surveyor and Mapper #2836, 1974.

PRINCIPAL PUBLICATIONS

PH.D. DISSERTATION

Gibson, D, 2002, "Management and Valuation of Digital Geographic Data Through Atomic Measurements of Data Usage", submitted to the University of Alabama graduate school as partial requirement for completion of the Doctor of Philosophy degree, Tuscaloosa, AL, May, 2002.

BOOKS and BOOK CHAPTERS

Gibson, D. W, 2007, "Surveying Accreditation in ABET and the Development of the Related Accreditation Commission," ABET's 75th Commemorative History, John Prados, Editor

Meyer and Gibson, "Route Surveying and Design 5th Edition," Harper Row, 1981. (now transferred to Prentiss-Hall, under revision for the 6th edition).

Gibson, D.W., 1995, "Chapter 25, ROUTE SURVEYS", The Surveying Handbook, 2nd Edition, ed. by Russell C. Brinker and Roy Minnick, Chapman & Hall, 1995.

Gibson, D.W., 1987, "Route Surveys," Chapter 24 in the Surveyor's Handbook, Van Nostrand Reinhold.

JOURNAL AND SYMPOSIUM ARTICLES (REFEREED)

- Gibson, D. W., 2011, "Geomatics Education at the Crossroads", keynote address presented at the GTC2011, Geo-Technologies in the City, Jeddah, S.A., May, 2011
- Gibson, D. W., 2011, "The History and Status of Geomatics Education in the U.S.", published in the referred proceedings of GTC2011, Geo Technologies in the City, Jeddah, Saudi Arabia, May, 2011
- Gibson, D. W., 2010, "Licensure by Apprenticeship: Effects on the Surveying Profession," paper published in the American Surveyor Magazine, Vol. 7, No. 4., May, 2010.
- Gibson, D. W., 2010, "The Four-Year Degree Standard for Surveying's Recognition as a Profession", paper published in the Professional Surveyors Magazine, January, 2010.
- Gibson, D. W., 2009, "A Vision for the Surveying Profession – And How To Get There", a paper delivered at the South Carolina Society of Professional Land Surveyors technical conference, Columbia, SC, Feb, 2009
- Gibson, D. W., 2009, "The Past Present and Future of Surveying and Mapping Education in the United States," keynote paper delivered at the North American Association of Surveying and Mapping Teachers, East Tennessee State University, Johnson City, TN.
- Gibson, D. W., 2007, "Peer Review for Quality – Surveying Accreditation in ABET", published in the Point of Beginning POB Magazine, April, 2007.
- Gibson, D. W., 2005, "Forty Years Later – The History and Development of Surveying Education in the U.S." published by the Professional Surveyor Magazine, August, 2005.
- Gibson, D. W., 2002, "Equitable Apportionment of Riparian Zones Between Adjoining Properties", submitted as a requested paper for publication by the Environmental Law Section of the Florida Bar Association, March, 2002.
- Gibson, D. W., Graettinger, A., 2001, "New Approaches for Measuring the Use and Value of Digital Geographic Information", proceedings of the CAMA Conference of the Urban and Regional Information Systems Association (URISA), Baltimore, MD, April, 2001.
- Gibson, D.W., 1999, "Conversion is Out, Measurement Is In — Are We Beginning the Surveying and Mapping Era of GIS?", Surveying and Land Information Systems, an official Journal of the American Congress on Surveying and Mapping, Vol. 59, No. 1, March, 1999, at p. 69.
- Gibson, D.W., 1997, "The University of Florida Geomatics Program", Surveying and Land Information Systems, an official Journal of the American Congress on Surveying and Mapping, Vol. 57, No. 4, December, 1997, at p.223.
- Gibson, D.W., "U.S. Surveying and Mapping Education in 1993", refereed paper, Surveying and Land Information, Journal of the American Congress on Surveying and Mapping, Vol 53, No. 4, December 1993, Bethesda, MD.
- Gibson, D. W., "Organization of Surveying and Mapping Education in the U.S.", Surveying and Land Information Systems Journal, American Congress on Surveying and Mapping,

Vol. 50, No. 2, June, 1990.

Gibson, D. W., "A Summary of Surveying and Mapping, College of Engineering, University of Florida", Surveying and Land Information Systems Journal, American Congress on Surveying and Mapping, 1987.

RESEARCH REPORTS, CONFERENCES, PROCEEDINGS, OTHER ARTICLES

- Gibson, D. W.; 2007, "The History of Surveying in Civil Engineering," a paper delivered to the 2007 Surveying and Mapping Teachers Conference, Ferris State University, Big Rapids, MI, June 2007.
- Gibson, D. W., 2002, Surveying Education Needs Analysis -- Final Report #2, A Recommended Plan for Surveying Education in Kentucky, October 16, 2002, submitted to the Kentucky Board of Licensure for Professional Engineers and Land Surveyors (KBLPELS), Frankfort, KY.
- Gibson, D. W., 2002, Report #1 An Analysis of the Current Surveying Education Status in Kentucky, submitted to the Kentucky Board of Licensure for Professional Engineers and Land Surveyors (KBLPELS), Frankfort, KY.
- Gibson, D. W., 2001, Report #2 – An Analysis of Louisiana Colleges and Universities with Regard to Locating an In-State Geomatics (Surveying) Program, submitted to the Louisiana Board of Professional Engineers and Land Surveyors (LAPELS)
- Gibson, D.W., 2000, Report #1 – An Analysis of the Current Surveying Education Status in Louisiana with Short-term Recommendations, submitted to the Louisiana Board of Professional Engineers and Land Surveyors (LAPELS)
- Gibson, D. W., 1999, A Five-Year Plan for Development of a Surveying Degree Program at the University of Las Vegas at Las Vegas (UNLV), submitted to the Dean, College of Engineering, UNLV.
- Gibson, D. W., 1998, A Five-Year Geomatics Program Development Plan for Troy State University, submitted to the Dean of the College of Arts and Sciences, Troy, Alabama.
- Gibson, D.W., 1997, GIS Project and Work Plan for Building a Shared, Countywide GIS for Sarasota County, submitted as part of research contract work.
- Gibson, D.W., 1994, "GEOMATICS -- Like Trying on a New Pair of Shoes", Bulletin of the American Congress on Surveying and Mapping, Bethesda, MD, June, 1994.
- Gibson, D.W., 1995, "Surveying and Mapping Academic Program Direction -- Results of an ACSM Forum", Proceedings of the Third Think Tank on Surveying and Mapping, Vienna, Austria, published by the Technical University of Vienna, 1995.
- Gibson, D.W., 1994, "Educating for Two Worlds", Proceedings of the Second Think Tank on Surveying and Mapping held at Campobello, New Brunswick, Canada, published by the Atlantic Institute, Orono, ME
- Gibson, D. W., "Base Mapping Needs for Small Community GIS", invited paper for a select compendium in GIS assembled by the Homer Hoyt Center for Land Economics, Florida State University, July, 1992.
- Gibson, D. W., "The 1992 POB Analysis of Surveying and Mapping Programs in the U. S. and Canada", P.O.B. Magazine, July-August edition, 1992.
- Gibson, D. W., "A Work Plan for GIS Development in Charlotte County", research report,

- January, 1992.
- Gibson, D. W., "GIS in Surveying and Mapping -- an Educational Dilemma", Bulletin of the American Congress on Surveying and Mapping, Number 131, April, 1991.
- Gibson, D. W., "1990 Management Plan for Restoration of Corners", a research report to Florida Department of Natural Resources Bureau of Surveying and Mapping, December, 1990.
- Gibson, D. W. (as Project Director), "Volume A, Ordinary High Water Line Primer", a research report to Florida Department of Natural Resources, 1989.
- Gibson, D. W. (as Project Director), "Volume B, Ordinary High Water Line Workbook", a research report to Florida Department of Natural Resources, 1989.
- Gibson, D. W., (Principal Investigator), "Development of Procedural Methodology to Enable Florida Land Surveyors to Determine the Ordinary High Water Line Boundary of Sovereign Lands -- Phase (1) Area Research., 1987.
- Gibson, D. W., "Methodology for Division of Riparian Rights in Coastal Waters", a research report to Florida Department of Natural Resources, 1986.
- Friedley and Gibson, "1983 Management Plan for Restoration of Corners", to the Department of Natural Resources Bureau of Surveying and Mapping, Tallahassee, 1983.
- Gibson, D.W., "A Blue Print for Competition," The California Surveyor", January, 1982.

SCIENTIFIC AND PROFESSIONAL SOCIETIES (CURRENT or FORMER)

- Florida Surveying and Mapping Society, FSMS
American Congress on Surveying and Mapping, ACSM
American Society for Photogrammetry and Remote Sensing, ASPRS
Florida Association of Cadastral Mappers, FACM
Urban and Regional Information System Association, URISA

FSMS, THE FLORIDA SURVEYING AND MAPPING SOCIETY, (formerly FSPLS)

- Editor, Florida Society of Professional Land Surveyors' quarterly publication, "Backsights and Foresights," 1973-1978
- Land Surveyor of the Year, the highest award given by the Florida Society of Professional Land Surveyors recognizing eminent service to the profession, 1977-78.
- Director of the FSPLS, serving the Northwest District of Florida, elected by the district land surveyors to sit on the Board of Directors of the Florida Society of Professional Land Surveyors, 1978-1980.
- Secretary of FSPLS 1980-1981.
- President of the North Central Florida Chapter of the FSPLS, 1979-1980, 1985-1986.
- Awarded Florida Society of Professional Land Surveyor's Professional Development of the Year Award, 1988
- Member, FSMS Goals and Objectives Committee, 1995 to 2000
- Member, FSMS Surveying and Mapping Council, 1990 to 2000

ABET, THE ACCREDITATION BOARD FOR ENGINEERING AND TECHNOLOGY

- ACSM Alternate Director, ABET Board of Directors, 1980 - 1982.

ACSM Representative Director to the ABET Board of Directors, 1983 - 1990.
Member, the Related Accreditation Commission (RAC) 1987 - 1994.
Citation by the Accreditation Board for Engineering and Technology, for "dedicated support and invaluable contributions to engineering education", July, 1992 for service on RAC/ABET.

ACSM Representative Director to the ABET Board of Directors, 1993 - 1999.
Accreditation Evaluator for approximately ten Surveying and Mapping program evaluations, 1985 to present.

Accreditation Team Chair for Surveying and Mapping program evaluations, 1985 - present.

ACSM Alternate to the Engineering Accreditation Commission (EAC) and the Related Accreditation Commission (RAC), 1998 to 2000.

NCEES Representative Director to the ABET Board of Directors, October 2000 to present

NCEES, THE NATIONAL COUNCIL OF EXAMINEERS FOR ENGINEERING AND SURVEYING.

Subject matter expert, exam item consultant to the National Council of Engineering Examination (NCEES), 1978 to present.

Consultant to, NCEES Examination for Professional Surveyors (EPS) committee to construct the national professional surveying exams, July, 1996 to present.

Member, NCEES Committee on Examination Policy and Procedures (EPP), 1997 to 2001.

Member, NCEES Committee on Educational Assessment and Qualifications (EAQ), 2002.

Member, NCEES Engineering Licensure Qualifications Task Force (ELQTF), 2001-2002.

Former Chair of the NCEES Fundamentals of Land Surveying national exam subcommittee (FLS) to structurally change the national surveying fundamentals exam to reflect a curriculum base, July, 1996.

Member of a Special Blue Ribbon Panel of the National Council of Examineers for Engineering and Surveying (NCEES) to study and recommend structural changes to the national Fundamentals of Engineering Examination (FE), August, 1996.

Member of the NCEES committee on assessing Professional Activities and Knowledges Surveying (PAKS), to guide national surveying exam content, 1996-1997.

Member of the NCEES Computer-Based Testing (CBT) Task Force of NCEES, 1997.

Exam consultant to NCEES charged with providing final review services for national surveying examinations, 1997 to present.

Member, NCEES Exam Policy and Procedures Committee (EPP), 1997 to present.

ACSM, THE AMERICAN CONGRESS ON SURVEYING AND MAPPING

Award for Excellence in Professional Journalism by the American Congress on Surveying and Mapping, February 1976.

ACSM Presidential Citations for Outstanding Service to the surveying and mapping profession 1985, 1986.

Chair, the Curriculum, Accreditation, and Registration (CAR) Committee of the American Congress on Surveying and Mapping, 1988 to 2000.

Appointed to a national study panel on "The Future of Surveying and Mapping Education in the

U.S." of ACSM, 1991- 1992.

Received the 1995 Earle J. Fennell award, ACSM's highest award for a Surveying and Mapping Educator, March, 1995.

Awarded Presidential Citation from the American Congress on Surveying and Mapping at its spring meeting, Baltimore, March, 1998, in recognition of outstanding service rendered to ACSM and to the Surveying and Mapping profession.

Awarded a Presidential Citation from the American Congress on Surveying and Mapping for continued outstanding service to the Surveying and Mapping Profession, April, 1996.

FSBPSM, FLORIDA STATE BOARD FOR PROFESSIONAL SURVEYORS AND MAPPERS

Member by Gubernatorial Appointment to the Florida Board of Professional Surveyors and Mappers, August, 1994 to November 2000. .

Citation by the Florida Department of Business and Professional Regulation (DPBR) for outstanding service and dedication to the Board of Professional Land Surveyors as a member of the ad hoc committee on photogrammetry, 1994.

Reappointed by the Governor for a second four-year term on the Florida Board of Professional Surveyors and Mappers, October, 1996.

Elected Board Chair - two terms, FSBPSM, Florida Board of Professional Surveyors and Mappers, 1996 to 1998.

Member, FSBPSM Probation Committee, 1994 to 2000.

Chair, FSBPSM Probation Committee, 1999 to 2000.

Member, FSBPSM Probable Cause Panel, 1998 to 2000.

Chair, FSBPSM GIS Committee, 1995 to 2000.

FLORIDA GIS APPOINTMENTS AND RECOGNITIONS

Appointed to the Florida Public Land Survey Advisory Board by the Governor, pursuant to F.S. 177, Part III, to advise the Department of Natural Resources on survey matters, 1980-1981.

Awarded, special citation by the Florida Association of Cadastral Mappers for "dedicated service in the cadastral certification program", April, 1991.

Appointed by the Governor as founding Chair, Florida's Base Mapping Advisory Committee, February, 1992, continuing as member to BMAC's dissolution, 1998.

Founding Member under Gubernatorial Appointment to the State of Florida Geographic Information Board (FLGIB), November, 1996 to 2000.

Organizer and chair of an annual mapping conference on campus, "The Florida Mapping Conference", attendance 250. held in 1990, 1991, 1992, and 1993.

Organizer and chair of the annual DOT Statewide Surveying and Mapping Conference, University of Florida Campus, Spring 1996, 1997, 1998, 1999, 2000, 2001, 2002.

INTERNATIONAL ACTIVITIES

Member of U.S. Delegation to Think Tank II, Campobello Retreat, New Brunswick, Canada, hosted by the University of Maine, Orono, to debate future directions for international

Surveying and Mapping, October, 1992.

Member of U.S. Delegation to Think Tank III, Vienna, Austria, hosted by the Technical University of Vienna, to debate future directions for international Surveying and Mapping, May, 1994

Member of U.S. Delegation to Think Tank IV, Laval University, Quebec City, to debate future directions for international Surveying and Mapping, June, 1995.

.

CIVIC

Chair and member, School Advisory Council (SAC) of Prairie View Elementary School, Gainesville, 1992 - 1998.

OTHER HONORS, AWARDS, APPOINTMENTS

Elected HONORARY MEMBER, the Alabama Society of Professional Land Surveyors, Montgomery, AL, 1990 to present.

Editor Awards Consecutive ASPRS, the American Society for Photogrammetry and Remote Sensing, Newsletter of the Year Awards, 1985, 1986, 1987.

Who's Who in Engineering, nominated by ABET, 1982 to present.

Chair of the North American Surveying and Mapping Teachers Conference, with duties of organizing and chairing the 14th international conference, Gainesville, summer 1994.