

**STACEY D. LYLE, PH.D., RPLS**

M: 361-548-8852

**ACADEMIA**

Harvard Business School	Executive Program		2015
University of Georgia	Geography	PhD	2003
Southern Polytechnic State University	Computer Science	MS	1996
Southern Polytechnic State University	Civil Engineering Technology	BS	1989

**APPOINTMENTS**

2016-	ABET- Program Evaluator Visitor	ABET	
2016 -	Research Scientist	GERG Texas A&M University	
2012– 2016	Team Lead	BP American Production Company Inc.	
2007 - 2011	Program Coordinator	College of Science & Engineering Texas A&M University– Corpus Christi	
2006 - 2012	Associate Professor	College of Science & Engineering Texas A&M University– Corpus Christi	
2001– 2006	Assistant Professor	College of Science & Engineering Texas A&M University– Corpus Christi	
1998 – 2000	Director of Machine Automation	Leica Geosystems	
1996 - 1998	North America Support Coordinator	Leica Geosystems	
1994 - 1996	Specialist- GPS and Photogrammetry	Leica Geosystems	
1989 - 1992	Hydrographic Surveyor- Marine Construction	Fugro Chance	

**PROFESSIONAL REGISTRATIONS**

Professional Land Surveyor-State of Georgia #2870  
Registered Professional Land Surveying-State of Texas #5378

**EXPERT WITNESS/CONSULTING**

**COURT CASES**

Professional Liability, GPS Sensor Failure on Oil and Gas Well Staking, Dallas, Texas, 2012.  
Class Action Suit Statute of Fraud Oil and Gas Boundary, Federal Court, Marshal, Texas, 2011.  
Statute of Fraud Oil and Gas Boundary, Federal Court, Marshal, Texas 2010.  
Canada Patent infringement on a GPS Seismic Array Network, Calgary, Canada, 2010.  
Statute of Fraud Oil and Gas Boundary, Federal Court, Marshal, Texas 2009.  
Trespass to Try Title, Texas Boundary Civil Court, Houston, Texas 2007.  
Negligence, Flood Certification Surveying Court, Houston, Texas 2007.  
US Patent infringement on a Synchronization and Positioning of Seismic Data Acquisition Systems,  
Declaration Under 37 CFR § 1.132, Houston, Texas 2007.  
US Patent infringement on a Geographic Information System Patent infringement on the Federal  
Emergency Management Agency flood verification online, Dallas, Texas, 2006.

**PROFESSIONAL ORGANIZATION AND LEADERSHIP**

American Society of Civil Engineers  
Institute of Navigation  
Association of Petroleum Survey & Geomatics- Life Member  
Houston Hydrographic Society  
National Society of Profession Surveyors  
American Society of Photogrammetry and Remote Sensing  
Lambda Sigma Honour Society (Faculty Student Mentor)

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Texas Society of Professional Surveyors  
2011-2014-State Board of Directors  
2002-Director of Coastal Bend Chapter  
2010-President Coastal Bend Chapter  
2011-Vice President Coastal Bend Chapter

Geographic and Land Information Society  
2007-2014 Treasurer  
2007-Present - Board of Directors  
2007 –Web Master

Surveying and Geomatics Educators Society- Founding Officer  
2007-2014 Secretary  
2007- Web Master

National Society of Professional Surveyors  
Surveying and Mapping Society of Georgia (SAMSOG)  
2000-Georgia GPS Legal Committee  
1995-Georgia Liaison NOAA and Georgia for Georgia HARN  
1986-Co-Founder of student chapter at Southern Polytechnic State University  
President of student chapter

**AWARDS AND HONORS**

2014- BP Helios Award Recognition  
2014- United Nations – Global Geospatial Information Management Energy Delegate  
2012- Real Estate Library PURE Gold Award Best Website for Realtors Award  
2011- Inducted into the Lambda Sigma Honour Society  
2010- Kika Del La Garza Fellow United States Department of Agriculture  
2010-Texas Society of Professional Land Surveyors Geospatial Professional of the Year  
2009-Chancellors Texas A&M University Teaching Excellence Award  
2009- Excellent Presentation Award, Hydrographic Society of America  
2007-NASA New Technology Honorius  
2003-Texas Higher Education 2003 Star Award Winner College of Science and Technology  
“Pathways to Success in Science Program”  
2003- Faculty Fellow NASA  
2003- NASA Sharp Mentor Award  
2002- Faculty Fellow NASA  
2000-Faculty Development in Georgia Fellowship  
1996- National Geodetic Survey: HARN Geodesist State Project Leader  
1996-Who’s Who Among American Universities Graduate Students  
1989- Joe Frank Harris, Georgia Governor Governor’s Declaration for Goodwill Ambassador to the  
State of Georgia  
1987-Ben Foster’s Surveying Scholarship State of Georgia

**COMMITTEE LEADERSHIP**

IOGP Land Survey Data Model Geomatics Committee  
BP “Citizen Action Program Council”, Chair  
Texas Oil and Gas Association; Texas Railroad Commission Rule Change Committee, Subject Matter  
Expert  
Faculty Senate, Parliamentarian  
University Online Education Committee  
Texas Board of Professional Land Surveying, Texas Occupation Code Committee and Continuing  
Education Committee

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Texas Society of Professional Land Surveying, Standards Committee, Education Committee, Chair,  
Registrations Committee, Chair  
Texas 82<sup>nd</sup> Legislation Session, Energy Resources Committee, Subject Matter Expert  
Dean of Graduate School Texas A&M University- CC Search Committee  
Graduate Faculty Texas A&M University- CC Search Committee  
CIO Texas A&M University- CC Search Committee  
Texas A&M University System Information Technology Security  
Unmanned FAA Center Proposal at Texas A&M University Committee, Chair

**SUBSTANTIAL RESEARCH**

- P.I. GOMRI *Use of Acoustic Deterrents in Reducing Spill Impact to Marine Mammals, 2017-2019 \$2,000,000 (Pending).***
- P.I. PESCA *Direct Georeferencing Unmanned Aerial System with a Geo-Information Gigabase for Environmental Agriculture Remote Sensing Application, 2017-2022 \$26,000 (Pending).***
- Co-P.I. NOAA *Demonstration of Rapid Reef Restoration Potential Offshore Texas using Buoy Supplied Low Voltage Power, 2017-2022 \$3,072,931 (Pending).***
- P.I. NASA: *Collinearity Sensor Models on Sentinel-6 (Jason-CS) and In-Situ Texas Automated Buoy System for Optimal Mission Planning to Build Better Ocean Surface Topography Products (Geospatial Digital Bibliography), 2017-2022, \$450,000 (Pending).***
- Co-P.I. NGA: *Impact of US Development in Artic, 2016-2019, \$450,000 (Pending).***
- P.I. NSF I/UCRC: *Geo-Isotope Labs: Mineral and Material Ownership National Lab, 2017-2033; \$300,000/yr renewable (LoI- Accepted with required revision) (Full Proposal due Jan, 2017)***
- P.I. USDA: *GeoArilizer' - A Commodity Software Tool Designed for Agriculture Land Assessment for Sustainable Energy Developed with Undergraduate Research Women in Agriculture 2011-2014; \$299,636.***
- Co-P.I. Ed Rachel Foundation: *Oyster Reef Restoration in South Texas Utilizing Innovation "Electrified-Stimulated Oyster Artificial Reef Mineral Accretion Technology" E-SOAR MAT, 2012-2013; \$50,000.***
- P.I. Earl C. Sams Foundation: *Unmanned Aircraft System(UAS), 2012; \$25,000.***
- P.I. Ed Rachel Foundation: *Unmanned Aircraft System(UAS) in low cost wildlife detection, 2012; \$50,000.***
- P.I. NOAA-NGA: *Central States Regional Height Modernization Project, 2009-2012; \$270,000.***
- P.I. DOD-National Geospatial-Intelligence Agency, *Geoint Engineering Online Graduate Degree and Certificate, 2008-2010; \$69,997.***
- P.I. NASA SBIR Phase III: *Mobile Online Intelligent Decision Support System, 2009-2010; \$80,000.***
- Co-P.I. TxDOT-TTI/TAMU: *Planning Tools To Assess the Real Estate Leveraging Potential for Roadways and Transit, 2009-2010; \$21,452.***
- P.I. NGA: *Proprietary Research held by National Geospatial Intelligence Agency, 2008-2010; \$149,996.***
- P.I. NOAA-NGS: *Lower Plains Zone Height Modernization, 2008-2010; \$491,019.***
- P.I. NOAA-NGS: *Texas Height Modernization, 2007-2009; \$652,437.***
- P.I. NASA SBIR Phase II: *Mobile Online Intelligent Decision Support System, 2006-2007; \$665,318.***
- P.I. NASA SBIR Phase I: *Mobile Online Intelligent Decision Support System, 2005-2007; \$80,000.***
- Co- P.I. TxDOT-TTI/TAMU: *Right of Way Real Property Asset Management Architecture Txdot Fed Pass-Thru, 2006-2007; \$25,150.***
- P.I. NASA, *GeoWorkforce, 2001-2002; \$80,000.***
- P.I. Artificial Reef Research Institute, Ltd., *Ecological Study of Campeche Sound, 2001-2003; \$41,000.***
- P.I. Coastal Bend Bays and Estuaries Program, *Graphic Information System Development, 2001-2002 \$17,841.***

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**PUBLICATIONS**

**PEER-REVIEWED JOURNALS**

- Lyle, S. D., (2013). Experiment to test RTK GPS with Satellite “Internet to Tractor” for Precision Agriculture, International Journal of Agricultural and Environmental Information Systems, Vol.4 No.2, April 2013.
- Jeffress, L., and Lyle, S. D., (2012). Maximizing Accessibility of Academic Publications: Applications of Electronic Publishing Technology, Journal of Contemporary Issues in Education Research. Vol. 5 No. 4, 2012. ISSN 1940-5847 (print), ISSN 1941-756X (online).
- Dalton, K., Lyle, S. D., and Smith, R., (2012). Digital Image Computational Analysis Methodology for Automated Phenomena Detection at a Micro Scale, International Journal of Research and Reviews in Computer Science (IJRRCS) Vol. 3, No. 3, June 2012, ISSN: 2079-2557.
- Lyle, S. D., and Jeffress, G., (2011). Surveying & Mapping the future of ACSM and GLIS, The ACSM Annual Conference, Survey Summit, San Diego, CA., July 7-12, 2011
- Lyle, S. D., and Sandoval, X., (2011). Value added Benefits of High Definition Surveying (Laser Scanning) in Contrast to in-situ Surveying for Erosion of Hydrological Waterways, Journal of Spatial Hydrology, ISSN: 1530-4736 Vol. 11 No. 2.
- Lyle, S. D., and Eby, N. (2010). Conversion of Cadastral Data to KML File Type for Use in Google Earth and Google Maps for Mobile as a Land Information System. Computing for Geospatial Research & Application Article No. 30 ACM New York, NY, USA ISBN: 978-1-4503-0031-5.
- Lyle, S. D., (2009). Texas A&M University Corpus Christi Geographic Information Science and Geospatial Surveying Engineering Degree, Surveying and Land Information Science, Vol. 69, No. 4., pp. 231-232
- Rolbiecki, D., and Lyle, S.D., (2008). Hybrid State Plane Coordinate System for Transforming a Citywide Survey Control Network to Surface Values: Case Study for Frisco, Texas. Journal of Surveying and Engineering, November 2008, 105-114, American Society of Civil Engineers (ASCE).
- Lyle, S. D., (2004). USDA/FSA Crop Compliance Monitoring GIS. ACSM, Surveying and Land Information Science, 64(2), 89-95.
- Lyle, S. D., (2004). Investigation into Small-format Digital Camera Sensors for Development of USDA GIS of Crop Compliance. ACSM, Surveying and Land Information Science, 64(1), 35-41
- Lyle, S. D., (2003). New Approach in Using eRTK-GPS for Direct Georeferencing of Aerial Images in a GIS Application. ACSM, Surveying and Land Information Science, 63(3), 161-168.

**PEER-REVIEWED CONFERENCE PROCEEDINGS**

- Lyle, S. D., Starek, M., Garrett, J., (2016). UAS Land Survey Data Model and Workflow Evaluation for Oil and Gas Industry, Texas UAS Summit, Austin Texas, March 29-31, 2016.
- Lyle, S. D., (2015). Integration of UAV's into O&G Operations, Association of Petroleum Surveying & Geomatics, Houston, Texas, April 7, 2015.
- Lyle, S. D., (2014). GIS in Surveying O&G, Association of Petroleum Surveying & Geomatics US West Chapter Summer 2014, Denver, Colorado, June 26, 2014.
- Lyle, S. D., (2014). Survey and Positioning Lower48, ESRI Petroleum GIS Conference, Houston, Texas, April 23-25, 2014.
- Gustafson, J. R., and Lyle, S. D., (2012). Building and Implementing a 4D Cadastre: A Land Rights and Geomorphic Perspective, ESRI Survey Summit 2012, San Diego CA, July, 2012.
- Lyle, S. D., Smith, R., and Nygaard, T., (2011). GNSS Shareware Control Software Smart Phone Applications, Salt Lake City, UT: ION GNSS 2011, Portland Oregon., September, 2011.
- Lyle, S. D., Smith, R., and Huang, Y., (2011). Applying and Modular Approach to Building an Online Surveying Degree, Surveying and Geomatics Educators Society Biannual Conference, Rincon, Puerto Rico, July 19-22, 2011.
- Lyle, S.D., and Wilson, M., (2011). Mediation and Arbitration Curriculum for Surveying Education, Surveying and Geomatics Educators Society Biannual Conference, Rincon, Puerto Rico, July 19-22, 2011.
- Terceros de Souza, F. A., and Lyle, S. D., (2011). Creating Business Opportunities Utilizing GIS in Land Ownership, The ACSM Annual Conference, Survey Summit, San Diego, CA, July 7-12, 2011.
- Kennedy, J. E., Lyle, S. D., Smith, R., and Jeffress, G., (2011). Using Cadastral Maps to Accommodate High-Speed Rail Systems in Texas, The ACSM Annual Conference, Survey Summit, San Diego, CA, July 7-12, 2011.

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- Nelson, J.J., Lyle, S. D., Jeffress, G., and Smith, R., (2011), The steps undertaken to build a personal and localized GIS for foreign owned property. Case Study: The Republic of Ireland, The ACSM Annual Conference, Survey Summit, San Diego, CA, July 7-12, 2011.
- Lyle, S. D., Lyle, C., and Smith, R. A. (2010). Real-time GIS for Real-time Decision Makers at an Emergency Operation Center, Geospatial Dimensions of Emergency Response Symposium, Phoenix, AZ, April 25-29, 2010.
- Lyle, S. D., Smith, R. A., and Lyle, C. M., (2010). Geospatial Data and Server on USB. Computing for Geospatial Research & Application Article No. 41 ACM New York, NY, USA ISBN: 978-1-4503-0031-5
- Lyle, S. D., (2009). Intersection of Geomatics and Geographic Information Systems Emphasis into a new Geospatial Information Science Degree for ABET review. East Tennessee State University: Surveying and Mapping Educators Conference, Johnson City, TN, July, 2009.
- Jeffress, G. A., Lyle, S. D., and Smith, R. A. (2009). Portable Wiki Map Server and Real Time Environmental MySQL GIS Server, Free and Open Source Software for Geospatial Conference, Sydney, Australia.
- Lyle, S. D., Lyle, C., and Smith, R. A. (2009). Portable Gulf of Mexico Geospatial Data Solution, Data Integration and Management on the Gulf of Mexico Workshop, Texas A&M University-Corpus Christi, Corpus Christi, TX.
- Lyle, S. D., (2008). Toward Successful Surveying and Engineering Outcome/Objective Assessment. The 10th ABET Best Assessment Processes., Atlanta, Georgia, April, 2008.
- Lyle, S. D., Smith, R. A., and Holland, S., (2008). Read-Write-Hear project: An Emerging Technology Used to Increase the Academic Performance of Students with Disabilities. Association for Computer Educators in Texas, 44th Annual Conference, Austin, Texas, August, 27, 2008.
- Burke, M., and Lyle, S. D., (2008). Mapping and Evaluating Various Digital Elevation Models in the Gulf Coast Region. The 17th William T. Pecora Memorial Remote Sensing Symposium, Denver, Colorado, November 16-20, 2008.
- Lyle, S. D., Mulcare, D. M., Jeffress, G. A., and Smith, R. A. (2008). Texas Coastal County LiDAR Evaluation, Texas Coastal State Height Modernization Conference, Texas A&M University-Corpus Christi, Corpus Christi, TX.
- Lyle, S. D., (2007). Least Squares Analysis of Terrestrial LIDAR Point Clouds. SPAR 2007, SPAR 4th Annual Conference on 3D Laser Scanning, Sugarland, TX, March 26-27, 2007.
- Prouty, D., Lyle, S. D., Jeffress, G. A., Smith, R. A., Sadovski, A. L., Mulcare, D., Roman, D., Childres, V., Aiken, and C., Brozena, J. (2007). Naval Research Laboratory Gulf of Mexico Geoid Model Texas Reference Center Pilot Project. American Geophysical Union, Fall Meeting 2007, abstract #G32A-05. American Geophysical Union.
- Lyle, S. D., Fernandez, J. D., Mulcare, D. M., and Smith, R. A. (2007). Geodesy Computer Science Curriculum, 21st Surveying and Mapping Educators Conference, Ferris State University, Big Rapids, MI, June, 2007.
- Lyle, S. D., and Smith, R. A., (2007). Modular Education for Land Surveying Engineering and Mapping: University and Continuing Education Courses, 21st Surveying and Mapping Educators Conference, Ferris State University, Big Rapids, MI, June, 2007.
- Bachnak, R., Mendez, M., Thomas, D., Jeffress, G., and Lyle, S. D., (2007). Mapping Shallow Water Areas Using a Remotely Operated Vessel. Proc. 9th WSEAS Int. Conf. on Automatic Control, Modeling, and Simulation, Istanbul, Turkey, ISBN: 978-960-8457-72-0, 183-188.
- Bachnak, R., Sadovski, A. L., Jeffress, G. A., and Lyle, S. D. (2006). Applied research offers undergraduate students experience and ideas for Projects. San Diego, CA: 36th ASEE/IEEE Frontiers in Education Conference.
- Lyle, S. D., and Mulcare, D. M., (2005). Space Based Real-Time Kinematic GPS for National Geodetic Survey Texas Height Modernization. GNSS 2005, Division of the Institute of Navigation, Long Beach, CA, Sept, 2005.
- Lyle, S. D., (2005). Web-Based GIS Advancements, Texas GIS Forum, Austin, Texas. May 1-5, 2006.
- Lyle, S. D., and Mulcare, D. M. (2005). Space Based Real-Time Kinematic GPS for National Geodetic Survey Texas Height Modernization. Online Journal of Space Communication, An international Electronic Journal, Issue No. 9. Reviewed Reprint.
- Lyle, S. D., (2004). Printed Holographic Cartographic Land Survey Images. San Diego, CA: 24th ESRI International User Conference.
- Lyle, S. D., (2003). NASA Geospace Workforce. Honolulu, HI: 30th International Remote Sensing Environment Symposium.
- Lyle, S. D., and Wilson, M., (2003). National Geodetic Survey Height Modernization. Atlanta, Georgia: 41th Annual Conference of URISA.

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- Bachnak, R., Kulkarni, R., Lyle, S. D., and Steidley, C., (2003). Airborne Multi-Camera System for Geo-Spatial Applications (vol. 5097, pp. 100-105). Geo Spatial and Temporal Imaging and Data Exploitation III, Proceeding of SPIE.
- Kulkarni, R., Bachnak, R., Lyle, S. D., and Steidley, C., (2002). Design and Development of an Airborne Multi Spectral Imaging System (vol. 4725, pp. 540-546). Algorithms and Technologies for Multispectral, Hyperspectral, and Ultraspectral Imagery VII.
- Lyle, S. D., and Wall, L., (2002). Texas Department of Transportation Dallas District Differential Global Positioning Systems Real-Time Spatial Reference Frame Network. Portland, Oregon, ION GPS 2002, 15th International Technical Meeting of the Satellite Division of the Institute of Navigation 2002.
- Lyle, S. D., (2000). Performance Benchmark of IBM Receiver. Salt Lake City, UT: 13th International Technical Meeting of the Satellite Division of the Institute of Navigation.
- Hugh, B., Carlson, B., Rod, E., Lyle, S. D., and Wilson, S. (1999). A High-Performance, High Accuracy RTK GPS Machine Guidance System. (pp. 789-795). Cambridge, MA: The Institute of Navigation GPS 55th Annual Meeting Proceedings.

**TRADE JOURNALS**

- Lyle, S. D., and Weatherly, L., (2010). OPUS-DB and Uncertainty Testing (7th ed., vol. 7). The American Surveyor.
- Lyle, S. D., and Johnson, G. (1994). Georgia HARN. June 1994, Professional Surveyor.
- Lyle, S. D., Prouty, D., and Williams, D. (2002). Along the Water's Edge (9th ed., vol. 27). Troy, MI: Point of Beginning.
- Lyle, S. D., and Jeffress, G. A. (2004). A Return to Value (8th ed., vol. 29, pp. 89-95). Troy, MI: Point of Beginning.