

## ASPRS Gulf South Region 2022 Annual Meeting

The American Society for Photogrammetry and Remote Sensing (ASPRS) Gulf South Region (Louisiana & Texas) will hold its first ever Annual Meeting on Wednesday, June 29<sup>th</sup>.

This is a **FREE one-day virtual event** with several geospatial related technical sessions, and two industry sponsored sessions. Each attendee will receive 1 Professional Development Hour (PDH) for each session they attend, accredited by ASPRS.

The Objectives of the Gulf South Region include *advancing knowledge in imaging and geospatial information within the Region*, so with that idea in mind we have put together a program which supports this mission.

### EVENT AGENDA

**9:00 – 9:25: Opening Remarks - Gulf South President, Cody Condron, CP, RPLS**

**9:30 – 10:25: Nicholls State University Small Unmanned Aerial System (sUAS) Research Projects 2005 to Present – Dr. Balaji Ramachandran**

Nicholls Geomatics program started investigating the adoption of emerging UAS technology in the post-Katrina era for monitoring and mapping the coast. Since its inception as a research endeavor in 2005, the sUAS program has grown into a mature component of Geomatics and Biological Sciences program instruction and research. The research projects undertaken over the years include characterization of Louisiana barrier islands, coastal restoration monitoring, offshore platform inspection, precision-agriculture, and infrastructure monitoring. A sUAS certification program is being designed to prepare students in UAS related careers.



**Dr. Ramachandran's** areas of interest include Unmanned Aerial Systems (UAS), Remote Sensing, Laser Scanning, Geographic Information Systems (GIS), Global Navigation Satellite Systems (GNSS), Mobile and Pervasive Computing, Wearable Computing, Data Fusion, and Environmental Planning and robotics. His research is usually inter-disciplinary in nature and pioneers in adoption of emerging Geospatial technologies. Dr. Ramachandran received his Master of Engineering in Environmental Engineering and Sciences with concentration in Hydrological Sciences from University of Florida in 1997. He received his Ph.D. in Civil Engineering (Geomatics specialization) with minors in Computer Information Science and Urban Regional Planning from University of Florida in 2003. He worked for a year as research engineer at Center for Advanced Transportation Systems Simulation (CATSS) lab at University of Central Florida. He joined Nicholls State University in 2004 to develop the newly created Geomatics Program.

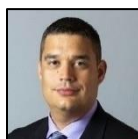
**10:30 – 11:25: Aerial Mapping: UAS vs. Manned Aircraft and how to know which is the right tool for the job – Jamie Gillis CP, RPLS, PLS, PS & Michael Trevino, SIT, CST**

The pros and cons of aerial acquisition using UAS vs. manned aircraft and processing will be discussed. Highlights include detailing project size, scope, control, costs, accuracy, efficiency, deliverables, etc. in order to help attendees get a feel for the advantages and disadvantages of each platform and to help them make an educated decision on the right technology platform for a given project. There will be a brief overview of the current technology options and where this technology is heading.



**Mr. Gillis** has been working in the Surveying Profession from a young age, having worked in South America, and across much of Canada, before moving to Texas in 2003. He has a Bachelor of Arts, Advanced Double Major; History and Political Science from Dalhousie University, and a Bachelor of Science; Geographic Information Science (Geomatics) from Texas A&M

University-Corpus Christi. Jamie has a strong background in GNSS, Geodesy, and map projections and has many years of experience in Geospatial Surveying and Remote Sensing, with terrestrial, mobile, and aerial sensors. Jamie lives in the DFW area and is a co-founder and Vice President of GeoTerra Surveying & Mapping, LLC, in Southlake, Texas. He was awarded TSPS “Young Surveyor of the Year” in 2011, is a past President of TSPS Chapter 2, and is currently the chair of the TSPS Public Relations Committee. Mr. Gillis is Co-Chair of the ASPRS Gulf South Student Chapter Liaison Committee.



**Michael Trevino** is the co-founder and President of GeoTerra Surveying and Mapping LLC. Mike has over 23 years of experience in land surveying, including 15 years of experience in project management. Mike received his Surveyor-in-Training certification in the State of Texas in 2008, has expertise in land title and boundary, right-of-way, route, construction, engineering design, topographic, as-built, utility, tree, obstruction, aerial control, horizontal and vertical control, hydrographic surveys, terrestrial/mobile and aerial LiDAR, and utility research. Mike has spent the last 10 years of his career working extensively on aerial, terrestrial, and mobile acquisition, processing, and extraction for various transportation and municipal infrastructure projects.

**11:30 – 12:00: Gold Sponsor Session (Sponsor TBD)**

**12:00 – 1:00: Lunch Break**

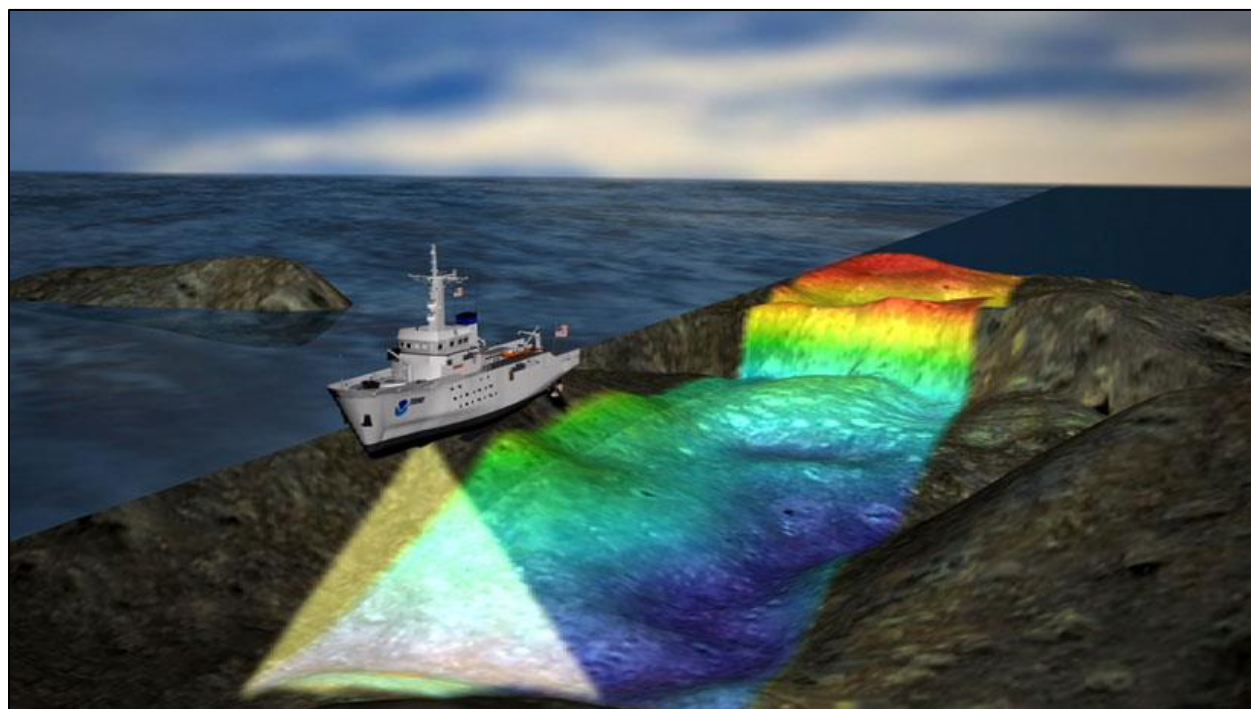
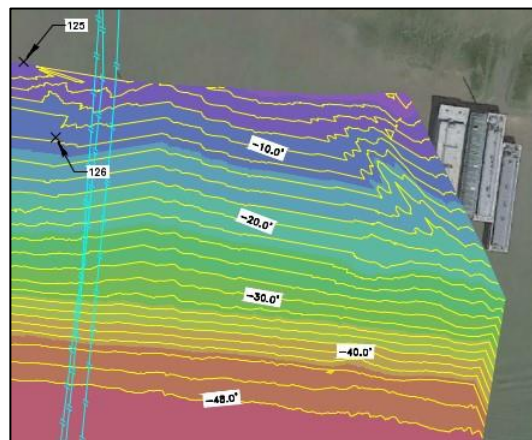


### 1:00 – 1:55: Hydrography and its Uses – Stuart Babin

Hydrographic science is a branch and supporting discipline of many types of marine research. Hydrography can support nautical charting for marine safety, coastal zone management, mineral exploration and maintenance, scientific research and environmental monitoring to name a few. This presentation is an attempt to review hydrographic surveying technology, methods and use. An overview of acoustic remote sensing types, their basic principles, data examples, and project usage will be summarized to support future applications. Discussion of future directions will also be discussed.

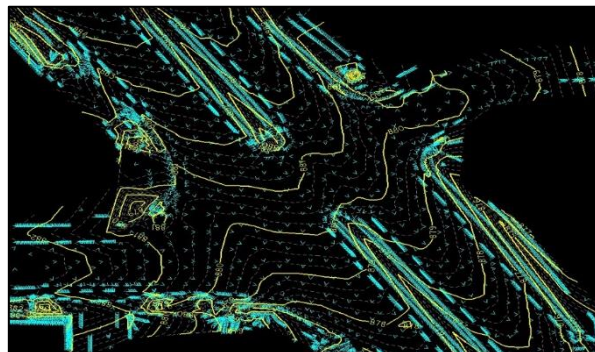


**Stuart Babin** is a Remote Sensing Scientist at Morris P. Hebert, Inc. in Houma, Louisiana. Stuart has over 22 years of experience in management of remote sensing data. The majority of his project experience has been in underwater remote sensing (hydrographic and ocean mapping) from oil and gas construction, bathymetric surveys, seafloor inspection, geophysical surveying, archeological investigations, coastal engineering, and dredging operations. Stuart holds a Bachelor of Science in Geography and is currently pursuing a graduate certificate in Remote Sensing and Geospatial Data Analytics. In addition, his application was recently approved for ASPRS Certified Mapping Scientist-Remote Sensing, to which he will be taking the exam later this year.



### 2:00 – 2:55: Southeast Texas Subsidence Adjustment Project – Ibraheem Ali, CP, CMS-RS

The Southeast Texas Subsidence Adjustment Project is a collaborative effort between Conrad Blucher Institute (CBI) at Texas A&M University-Corpus Christie (TAMUCC), Houston District at the Texas Department of Transportation (TxDOT), TxDOT Committee of Geomatics and Surveying (COGS), National Geodetic Survey (NGS), and other stakeholders. The project includes GPSONBM observations, OPUS Projects Session Processing, Network adjustment, and finally publishing the data to the NGS database (Bluebooking). As a result, all the Marks which are included in this project will be updated in terms of coordinates and orthometric heights. The geospatial community in Texas and nationwide will benefit from these newly observed marks and their updated datasheets.

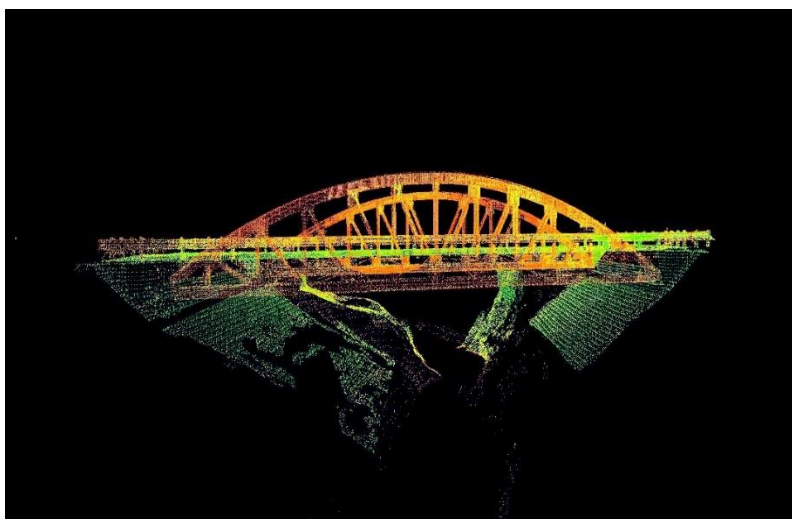


**Ibraheem Ali** is a geodesist at the Conrad Blucher Institute for Surveying and Science (CBI) at the Texas A&M University-Corpus Christie (TAMU-CC). Ibraheem is an experienced geoscientist, ASPRS Certified Photogrammetrist (CP), and a Certified Mapping Scientist-Remote Sensing (CMS-RS). Mr. Ali holds a Master of Science degree in Earth Science and a Bachelor of Science degree in Surveying Engineering. Ibraheem has more than 25 years of experience in geodesy, surveying, remote sensing, Geographic Information System (GIS) and the Global Navigation Satellite System (GNSS). During his career, Ibraheem has worked in a variety of industries and organizations such as government bodies, academic institutes, the oil and gas industry and construction and engineering consulting firms. He recently worked with the CBI, Texas Spatial Reference Center (TSRC), TxDOT, NGS, and other stakeholders to develop a Low Distortion Projection (LDP) Coordinate System for the state of Texas as part of the new State Plane Coordinate System of 2022 (SPCS 2022).

3:00 – 3:15: Silver Sponsor Session: *Aerial Data Service, Inc.*



3:15 – 3:30: Closing Remarks – Gulf South President, Cody Condron, CP, RPLS



## SPONSORSHIP OPPORTUNITIES



We have a number of sponsorship opportunities available and are listed below. If you are interested in becoming a sponsor please reach out to either:

**Cody Condon** ([cody.condron@kci.com](mailto:cody.condron@kci.com))

OR

**Scott Dodson** ([sdodson@cobbhendley.com](mailto:sdodson@cobbhendley.com)).

### **Gulf South Annual Meeting Gold Sponsor (1 available - \$500; first come, first served basis)**

Benefits include:

- Thirty minute sponsor presentation session (11:30-12:00pm)
- Program listing on all marketing materials and sponsorship recognition during program

### ***Gulf South Annual Meeting Silver Sponsor (TAKEN)***

- Fifteen minute sponsor presentation session (3:00-3:15pm)
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### **Gold Sponsor**

- TBD

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- Aerial Data Service, Inc.



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