

Texas Height Modernization Forum

AGENDA

**JJ Pickle Research Campus
Braker Lane, Austin
Big Tex Conference Room
The Commons**

15-16th November 2006

Wednesday 15th November 2006

- 08.30 – 09.00 REGISTRATION
- 09.00 – 09.45 WELCOME – Garey Gilley – Texas A&M University-Corpus Christi
- 09.45 – 10.30 KEYNOTE – Gary Thompson – North Carolina Geodetic Survey

- 10.30 – 11.00 MORNING TEA OR COFFEE

- 11.00 – 11.45 US HEIGHT MODERNIZATION PROGRAM – Gilbert Mitchell – National Geodetic Survey
- 11.45 – 12.30 TEXAS HEIGHT MODERNIZATION TO DATE – Dr. Gary Jeffress – Texas A&M University-Corpus Christi

- 12.30 – 13.30 LUNCH

- 13.30 – 14.15 GRAVITY, GEOID, HEIGHTS – Dr. Dan Roman – National Geodetic Survey
- 14.15 – 15.00 EDUCATION FOR HEIGHT MODERNIZATION – Dr. Stacey Lyle – Texas A&M University-Corpus Christi

- 15.00 – 15.15 AFTERNOON TEA OR COFFEE

- 15.15 – 16.30 PANEL DISCUSSION
THE NEED FOR A COMMON HEIGHT REFERENCE
 - Jack Quarles – Federal Emergency Management Agency
 - Ron Neighbors – Harris/Galveston Coastal Subsidence District
 - Bill O’Hara – Texas General Land Office
 - Dean Wilkerson – Texas Department of Transportation
 - Jeff Scott – Texas Natural Resources Information System
 - Shelia Sullivan – Environmental Systems Research Institute, Inc
 - Robert Taylor – Texas Commission on Environmental Quality
 - Gary Thompson – North Carolina Geodetic Survey
- 16.30 WRAP UP – Garey Gilley – Texas A&M University-Corpus Christi

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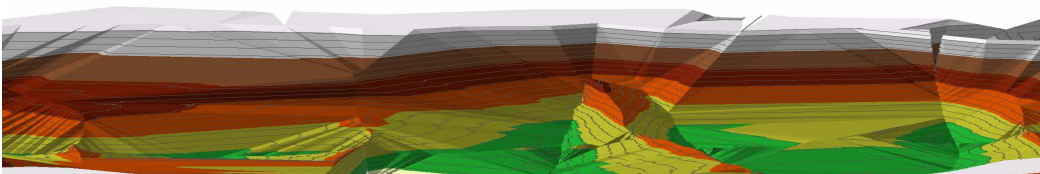
- 08.30 – 09.00 REGISTRATION OR RECONVENE
- 09.00 – 09.45 WELCOME – Garey Gilley – Texas A&M University-Corpus Christi
- 09.45 – 10.30 TECHNICAL ISSUES IN ESTABLISHING HEIGHTS – Don Mulcare – National Geodetic Survey
- 10.30 – 11.00 MORNING TEA OR COFFEE
- 11.00 – 12.30 PRECISE DIGITAL LEVELING TO NGS STANDARDS – Greg Hauger – Texas A&M University-Corpus Christi
- 12.30 – 13.30 LUNCH
- 13.30 – 15.00 PRECISE GPS OBSERVATIONS FOR ELEVATION– Dr. Stacey Lyle – Texas A&M University-Corpus Christi
- 15.00 – 15.15 AFTERNOON TEA OR COFFEE
- 15.15 – 16.15 BREAKOUT FOCUS GROUPS – PRIORITIES FOR TEXAS HEIGHTS
- 16.15 – 17.00 WRAP UP – Garey Gilley – Texas A&M University-Corpus Christi



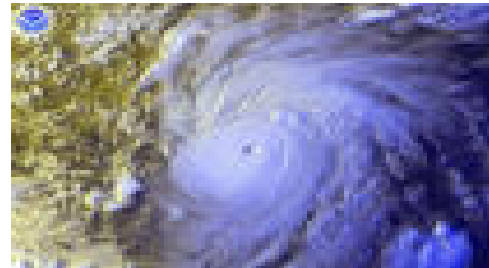
Texas A&M University-Corpus Christi Height Modernization Project

Our Purpose:

- Develop online database to house and retrieve observed height & location data
- Develop automated data analysis and quality control algorithms for height determination
- Undertake precise gravity observations to improve geoid/gravity model for Texas
- Develop algorithms to increase height accuracy from GPS observations
- Replace labor-intensive, high-cost leveling with new cost-efficient GPS technology.



- Decreased survey costs associated with flood plain and other mapping and GIS activities.
- Increased efficiency and accuracy of water delivery and drainage systems.
- Advanced surface transportation control and monitoring.
- Efficient fertilizer and pesticide spreading, resulting in lower run-off water pollution.
- Give more accurate modeling of storm surge and pollution trajectories.
- Improved hurricane and river flooding preparedness.
- Improved aircraft navigation aids and safer approach and landing procedures.



- Establish the Texas Spatial Reference Center at Texas A&M University-Corpus Christi.
<http://tsrc.tamucc.edu/THM/HomePage>