

Contents

On the Cover



Palm trees on the beach at dusk, Honolulu Beach, Oahu, Hawaii.



Features

12 *Fabric of Surveying: Surveying in the Former Kingdom of Hawaii*

An ancient land tenure system, traditions, language, and measurements are unique to our 50th state.

By Patrick M. Cummins, LS, and Mary M. Cummins, LS

26 *First Guide Meridian East*

The politically-charged history of 1855 comes to light when a monument is unearthed two feet down in a Kansas-Nebraska cornfield.

By Jerry Penry, LS

34 *E-Docs Asset GIS in Washington County, Iowa*

One-of-a-kind documents, once crammed in archives, are now “instantly retrieved under a mouse.”

By Dave Patterson, PE

44 *Laser Scanning Katrina-Damaged Levees*

Capturing critical data to assess the failure geometry of New Orleans' levees.

By Tom Greaves

Departments

48 *ProFile*

V3 Companies Finds the Right Balance

By Brigitte Beaudoin

56 *Conference Review*

Trimble UC: An Analysis

By Gavin Schrock, LS

In This Issue

8 *Editorial*

By Marc S. Cheves, LS

10 *Point to Point: Retracement Uncertainty Explained*

By Joel Leininger, LS

61 *Test Yourself: Compute the Curve Parts*

By Dr. Richard L. Elgin, LS, PE

62 *Equipment Review: TDS Ranger with Survey Pro 4.1 & Nikon NPL-362 Total Station*

By Thomas G. Merrill, LS

69 *Vantage Point: Fencing with Words*

By Wendy Lathrop, LS

71 *FeedBack*

73 *Advertisers' Directory*