

September 20, 2012 – 8:30 AM to 4:00 PM
Cypress Community Center
5700 Orange Ave, Cypress CA 90630

FREE PARKING *LUNCH INCLUDED

Leveraging Your GIS in Tough Economic Times

Techniques and Technologies in Government Agencies

Southern California Chapter
American Public Works Association
proudly presents the 14th Annual GIS Conference

KEYNOTE SPEAKER

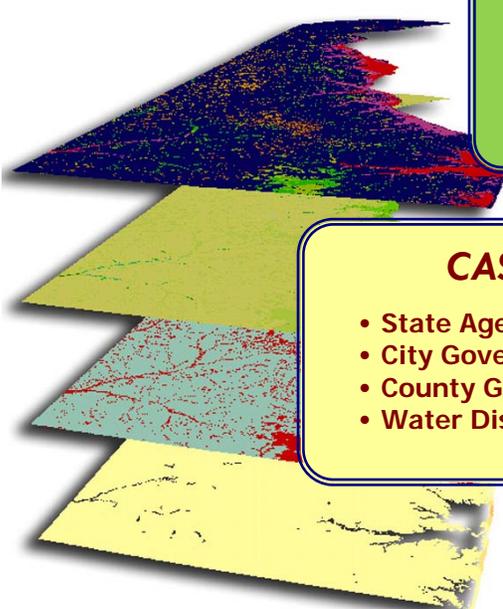
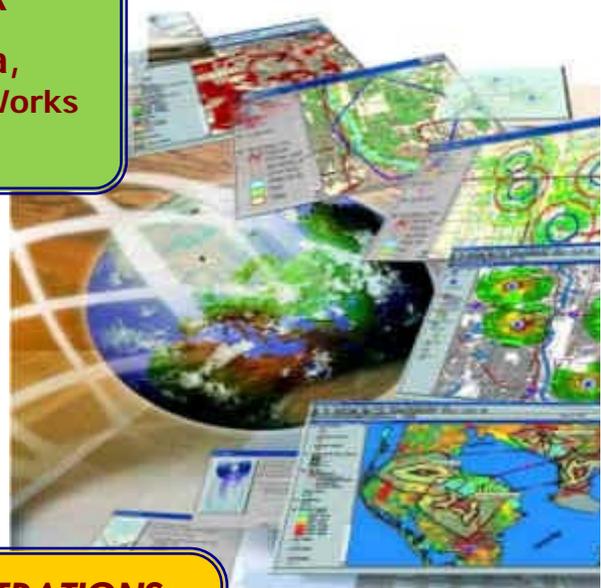
Ignacio G. Ochoa,
Director of Public Works
Orange County

CASE STUDIES

- State Agencies
- City Governments
- County Governments
- Water Districts

GIS DEMONSTRATIONS

- Cloud Technology
- iPad and mobile Devices
- Water/Wastewater Utilities
- Land Base Maintenance
- Enterprise GIS



Leveraging Your GIS in Tough Economic Times

Presented by:

The American Public Works Association (APWA)

Southern California Chapter

President – Chris Vogt, PE

Incoming President – Bonney Teaford, PE

GIS Committee Chair – Ahmed Husain, PE, GISP

Keynote Speaker Coordinator, Yaz Emrani, PE

Speakers Coordinator – Suzanne Vachon

GIS Committee Coordinator – Gigi Rodriguez

Vendors Coordinator - Carrie Wiley

Conference Moderator – Jim McPhearson, PE, GISP

Keynote Speaker

Ignacio G. Ochoa, PE

**Director of Public Works /Chief Engineer
Orange County**

**Innovative Use of GIS
in Orange County**

Where:

Cypress Community Center

5700 Orange Ave.

Cypress, CA 90630 / (714) 686-1435

When:

September 20, 2012

Schedule:

8:30 am – 9:00 am	Registration, complimentary continental breakfast
9:00 am – 9:10 am	Welcome Address By APWA President /Ball Room B
9:10 am – 9:50 am	Keynote Address Ignacio Ochoa /Ball Room B
9:50 am – 10:20 am	Session Presentations /Ball Room B
10:20 am – 10:50 pm	Session Presentations /Ball Room B
11:00 pm – 11:30 pm	Session Presentations /Ball Room B
11:30 pm – 12:00 pm	Session Presentations /Ball Room B
12:00 pm – 1:00 pm	Lunch (in the Gazebo Area)
1:00 pm – 1:30 pm	Session Presentations, Ball Room B
1:30 pm – 2:00 pm	Session Presentations, Ball Room B
2:00 pm – 2:30 pm	Break
2:30 pm – 3:00 pm	Session Presentations, Ball Room B
3:00 pm – 3:30 pm	Session Presentations, Ball Room B
3:30 pm – 4:00 pm	Closing Session & Raffle Ball Room B

Ignacio (Nacho) Ochoa is the Director/Chief Engineer, OC Engineering in the Public Works Department of the County of Orange. He received a Bachelor's Degree in Civil Engineering from the California State University at Long Beach where he continued to receive his Master of Science Degree in Civil Engineering. Ignacio is a Registered Professional Civil Engineer in the States of California and Texas. Ignacio began his civil engineering career as a Junior Civil Engineer over 31 years ago and steadily progressed to achieve the esteemed position as the County's Chief Engineer in 2007.

In his capacity as Director, OC Engineering, Ignacio manages a staff of over 500 employees and oversees the design, construction, and maintenance of roads and regional flood control facilities in the County of Orange. He is responsible for an annual budget of over \$250 million. The OC Engineering Sections that fall under his direction are OC Flood, OC Inspection, OC Operations & Maintenance, OC Road, OC Survey and Project Management.

Throughout his career Ignacio has received recognition for his achievements from the professional engineering community including the APWA Lifetime Achievement Award presented in February 2012 and many other awards from APWA and ASCE organizations. Distinguished Engineer of the Year honor, from the Orange County Engineering Council and many other awards from APWA and ASCE organizations

Supporting Vendors



Leveraging Your GIS in Tough Economic Times

Public Works and the Cloud **DAVID TOTMAN**

ESRI
(SESSION I)

While cloud computing is now commonly recognized as the newest stage in the ongoing development of computer technology, its application in public works departments is often misunderstood, at best. Server and desktop computer use is still the predominant approach implemented in municipal departments throughout the country. However, the free online mapping display services hosted in the cloud by a number of providers have given public works employees regular—though restricted—use of cloud computing capabilities.

Culvert Inspection Program **TIM JANKOWSKI, ROBERT SHANABERGER AND CALTRANS INSPECTOR** **Caltrans** **(SESSION II)**

This presentation will explore the development of the Culvert Inspection Program and how GIS is used to support the program.

iPads with the Power of GIS **AHMED KHATTAB**

Nobel Systems
(SESSION III)

GeoViewer for iPad is easy to use and was designed with the field worker and manager in mind. GeoViewer for iPad brings the incredible and distinct Apple user experience to life, giving municipalities and utility districts easy access to critical business data anywhere, anytime. After popular demand, Nobel has merged the iPad and GeoViewer products to create a clean, clear, easy to use graphical map interface online, anywhere, anytime. An application that can change the way we work in the field by increasing the flow of critical operations information between the office and the field.

GeoAutomation®: Bringing Imagery of the Physical World to Your Desktop **BOB VASQUEZ**

David Evans and Associates, Inc.
(SESSION IV)

GeoAutomation® is an advanced photographic imaging and data reduction system that can be used for asset management, GIS data collection, pavement assessment, virtual facility management, inventory, engineering surveys, risk management, 3D modeling, and conventional surveying and mapping. Cities, counties, state agencies, DOTs, utility districts and emergency services can all benefit from a data set that provides attribute information as well as multiple color views of a feature in its surroundings.

NAG, Inc.



Cardno TBE



Eagle Aerial Imaging



Motion Computing



Leveraging Your GIS in Tough Economic Times

Successful Implementation of GIS Applications for Pavement Management
YAZ EMRANI, PE

Hall & Foreman, Inc.
(SESSION V)

This presentation focuses on an overview of applied Geographic Information Systems (GIS) knowledge and skills as they relate to Pavement Management Programs (PMP) and is designed for engineers/public works professionals with varying degree of experience in GIS. This presentation will provide a basic framework for understanding the fundamentals of GIS Apps and their application for inventorying, rating, and development of Capital Improvement Plans (CIP) to help make the rehabilitation decision-making process for PMPs more efficient. It will also cover interoperability between APWA's Micro Paver software and ESRI's ArcGIS.

Implementation of Predictive Performance GIS Apps. for Sanitary Sewer Rehabilitation Prioritization and Planning
YAZ EMRANI, PE

Hall & Foreman, Inc.
(SESSION VI)

Experience has shown that a significant number of infrastructure repairs are performed on an unscheduled basis. These repairs can cost anywhere from 5-16 times the normal planned repairs. In this time of budget cuts and limited resources, the ability to optimize the use of maintenance dollars by employing predictive models in the planning stages is rapidly becoming a reality of underground infrastructure management. This presentation will demonstrate the use of a Predictive Performance GIS model to optimize CIP and maintenance budgets, identify and prioritize repairs, and create "What...If" scenarios where you can input various funding levels and determine the optimum repair scenarios for your sanitary sewer system.

Leveraging Cloud-Base Technology for Cost-Effective Public Utilities, Public Safety, and Planning Solutions
JOHN BODENBURG AND MONIDEEP NAG

Nag, Inc.
(SESSION VII)

Demonstration of current geospatial technologies based on Google's cloud services, integrating secure proprietary data streams real-time for tracking, analysis, planning and response.

"Precision 3" Three Inch Pixel, High Accuracy Off the Shelf Ortho-Imagery and Current Developments and Surprising Facts about Ortho-Imagery and On-Line Imagery
WAYNE TATE AND PAUL CLARK

Eagle Aerial Imaging
(SESSION VIII)

1. Description of "Precision 3" Imagery (with Power Point Presentation)
2. Discussion of Production Process for "Precision 3" Imagery
3. Uses of "Precision 3" Imagery Lessons Learned from "Precision 3" Imagery applied to Current One Foot Imagery
4. Current Developments and Surprising Facts about Ortho-Imagery and On-Line Imagery
5. Q&A

Leveraging Your GIS in Tough Economic Times

Sessions At-a-Glance Sept. 20, 2012

TIME	Ball Room B
8:30 – 9:00	REGISTRATION AND CONTINENTAL BREAKFAST
9:00 – 9:10	Welcome Address By APWA Southern California Chapter President Chris A. Vogt, Consulting Engineer
KEY NOTE 9:10 - 09:50	KEY NOTE ADDRESS Ignacio Ochoa/Director of Public Works Orange County
SESSION I 9:50 - 10:20	“Public Works and the Cloud” David Totman/ESRI
SESSION II 10:20 - 10:50	“Culvert Inspection Program” Tim Jankowski and Robert Shanaberger/Caltrans
10:50 - 11:00	BREAK
SESSION III 11:00 – 11:30	“iPads with the Power of GIS” Ahmed Khattab/ Nobel Systems
SESSION IV 11:30 – 12:00	“GeoAutomation®: Bringing Imagery of the Physical World to Your Desktop” Bob Vasquez/David Evans and Associates, Inc.
12:00 – 1:00	LUNCH (outside in the Gazebo Area)
SESSION V 1:00 – 1:30	"Successful Implementation of GIS Application for Pavement Management" Yaz Emrani/Hall & Foreman, Inc.
SESSION VI 1:30 – 2:00	“Implementation of Predictive Performance GIS app. For Sanitary Sewer Rehabilitation Prioritizing and Planning” Yaz Emrani/Hall & Foreman, Inc.
2:00 – 2:30	BREAK
SESSION VII 2:30 – 3:00	“Leveraging Cloud-Base Technology for Cost-Effective Public Utilities, Public Safety and Planning Solutions” John Bodenbug and Monideep Nag/NAG, Inc.
SESSION VIII 3:00 – 3:30	““Precision 3” Three Inch Pixel, High Accuracy Off-the-Shelf Ortho-Imagery, Current Developments and Surprising Facts about Ortho-Imagery and On-Line Imagery” Paul Clark/Eagle Aerial Imaging
3:30 - 4:00	Vendor Raffle & Closing Session