

**TJC**

and ASSOCIATES, Inc.

Message  
from the  
President

Featured  
Project

# The TJCAA Quarterly

[www.tjcaa.com](http://www.tjcaa.com)

## Message from the President Gianna Zappettini

In a world inundated by new technology, telephonic communication can seem like an ancient art. Yet, this simple means of connecting can lead to very satisfying results. Current or future business opportunities could be "just a phone call away." Have you come across a project that requires expertise in structural engineering, or in electrical, instrumentation, and controls engineering? If so, let's talk. If you have collaborated with TJC and Associates, Inc. (TJCAA) in the past, you know the quality of our work. If not, call and give us the opportunity to talk with you about what we can offer to your team and/or your project. You can reach us in Sacramento at 916-853-9658 or in Oakland at 510-251-8980. We look forward to talking with you.

## Featured Project



Ironhouse Sanitary District, which handles the wastewater from Oakley and Bethel Island in eastern Contra Costa County, is expanding its wastewater treatment plant. TJCAA performed the structural engineering design for this 9-mgd expansion, which has an estimated \$70 million construction cost.

TJCAA's 118-sheet design included the influent pump station, headworks, anoxic/aeration basins, membrane bioreactors, backpulse tank, blower/electrical/generator/chemical



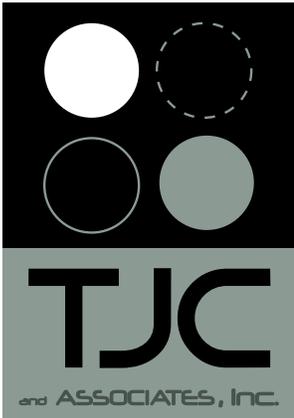
CMU block building, UV/Effluent pump station, and the solids handling building. Many of the structural features are already complete, and the construction contractors are busy this summer with installation, startup, testing, and training associated with the equipment at these facilities.

TJCAA Project Manager Daisy Yu notes that the plant's location adjacent to a wetland presented a design challenge in that the existing soils required ground improvement via impact rammed aggregate piers in order to support the structures and mitigate soil liquefaction during an earthquake.

The TJCAA team is also providing services during construction, which Ironhouse Sanitary District anticipates will be complete in October 2011. Terry Cavanagh took these recent photos of the aeration basins and the skylights over the solids handling building. Granted, we're fans of WWTPs, but those are beautiful structures no matter how you slice it!

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• Structural Engineering • SCADA • Electrical Engineering • Instrumentation and Controls •



# Summer

## The TJCAA Quarterly

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- Services Offered
- Movie Review
- Industry News
- Dates to Note
- Did You Know?

### Services Offered

TJCAA is a small business enterprise providing structural, instrumentation, controls, and electrical engineering services throughout the Western United States. Founded by Terence Cavanagh, S.E. and Gianna Zappettini, J.D. in 1998 and joined by Paul Giorsetto, P.E. in 2006, TJCAA provides comprehensive, multi-disciplinary design services for water and wastewater utilities and municipalities.

### Movie Review

We hear from our CADD department that “Rio” is a family film that is available in 3D in some theatres. This movie features fun, energetic music and vibrant, beautiful animation. Especially memorable are the sweeping overhead shots. (Rated G, 96 minutes)

### Industry News

The 2012 International Building Codes (with the exception of the IRC and IEBC) should be available by the time you read this. While compliance with these codes is not yet required, this is an opportunity to become familiar with what’s coming. Designing for the future will help maintain your clients’ code compliance for many years. See [iccsafe.org](http://iccsafe.org)

### Dates to Note

- June 21 The Summer Solstice. See [www.almanac.com/content/first-day-summer-summer-solstice](http://www.almanac.com/content/first-day-summer-summer-solstice)
- June 22–24 Pacific Coast Builders Conference, San Francisco, California
- June 28 Junius Courtney Big Band at Yoshi’s in Oakland, California, with TJCAA’s own Paul Giorsetto on trumpet
- October 16–20 American Concrete Institute Convention - Bridging Theory and Practice, Cincinnati, Ohio
- October 17–20 Solar Power International ‘11, Dallas, Texas
- October 15–19 Water Environment Federation - Technical Exhibition and Conference, Los Angeles, California

### Did You Know?

A didgeridoo (DIJ-ur-ee-doo) is a musical instrument? The didgeridoo is a long (3 to 10 feet), fairly straight, wooden pipe, and was first played by the aboriginal people of Australia. The “didge” has a distinctive drone that the player can augment with singing, buzzing, and other noises to produce a variety of effects.

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