

**TJC**

and ASSOCIATES, Inc.

Message from the President

Employment Opportunities

Featured Project

TJCAA's Business Certifications

- Alameda County Small, Local Emerging Business
- Bay Area Green Business Program, Green Business
- City of Oakland Local Business Enterprise
- California DGS Micro Business (SB (micro))
- Port of Long Beach SBE
- Port of Oakland LIABE/SBE/VSBE
- San Diego County Water Authority SBE
- SoCal Network SBE
- CA PUC WBE
- Sacramento Municipal Utilities District (SMUD)

# The TJCAA Quarterly

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## Message from the President, Gianna Zappettini



The Summer Olympics are over but it was a great spectacle while it lasted. I

enjoyed watching the opening and closing ceremonies, as well as keeping track of the medal count. Most of all, I enjoyed watching the extremely talented individuals and teams representing their respective countries. Phenomenal, right? Well at TJCAA we have some very talented individuals that make up our team and we are ready to jump into the game to assist you with your next project. And the best part is that you do not have to wait years to see us in action. We are here every business day and ready to go.

## Employment Opportunities

TJCAA is looking for qualified engineers to work on great projects with great people. To view and apply for open career positions, visit our website at [www.tjcaa.com](http://www.tjcaa.com).

## Featured Project - Abcana Chemical Facility

TJCAA recently completed structural and electrical design for relocating a chemical facility at Abcana Industries, Inc. in El Cajon, California. Abcana is a

leading wholesaler of water treatment chemicals, and its clients include public agencies, distributors, food and beverage manufacturers, industrial laundry facilities, pool service professionals, power generation facilities, and theme parks ([abcanaindustries.com](http://abcanaindustries.com)).

Abcana is relocating its bottling equipment to the new facility, which will have a 13,000-square-foot covered slab area for cleaning, processing, and loading. Ultimate buildout will include nine chemical storage tanks (three acid tanks and six bleach tanks).

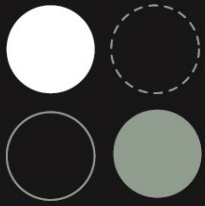
Victor "Art" Fisher, of Amec Foster Wheeler, was the Project Manager. Art's team developed the civil and process design for the project.

TJCAA's Jacqui Okubo, P.E., project Electrical Engineer, explains that an interesting challenge for this design was matching the new installation to the old one. Abcana was seeking to match the physical layout and steps exactly, to minimize operator training needs and streamline the changeover.

The team worked closely with Abcana representatives to understand the processes and achieve their goals for the new facility, so that the switchover (planned for early 2017) will be seamless. Jacqui, who works out of our Oakland office, notes that it worked well to use visual conference calling (with Skype and Facetime) for design meetings with Abcana staff in El Cajon.

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Featured Project

Industry News

Featured Employee



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# 2016

Our electrical design included development of the 480-V distribution service to the new facilities by adding a new main feeder breaker in an existing switchboard that sub-fed two distribution panel boards. The design also covered lighting, control stations, and power for six packaged process control panels dedicated to the bottling line. Level monitoring and tank-fill stations for acid and bleach storage facilities were part of the project, as well.

TJCAA's structural design included a concrete slab and foundation for the two pre-engineered metal buildings that will act as the cover for the bottling lines. Also included in the design were two chemical containment areas (acid and bleach), three truck-loading areas, a concrete masonry unit trash enclosure, and details for fire separation walls.

Jacqui says another interesting aspect of this project was completing the detailed forms that document compliance with California's Building Energy Efficiency Standards (Title 24, Part 6). These standards apply to newly constructed buildings and additions/alterations to existing buildings. Obtaining Certificates of Compliance is required when obtaining building permits under the new California Green Building Code.

If you have questions regarding how the California's Building Energy Efficiency Standards apply to your nonresidential project, please contact us.

## Industry News - Code Updates and Standard Plans

The 2016 California Building Code is out and it will become effective on January 1, 2017. Any California projects that will be permitted after January 1, 2017—from factory-built housing to wastewater treatment plants—will need to comply with the 2016 edition of the CBC.

Note that this includes standard plans! Effective January 1, 2017, older standard plans will no longer be valid in California. If you would like to discuss having your standard plans updated to meet the 2016 Code, please contact us.

## Featured Employee - Daisy M. Yu, S.E., LEED AP



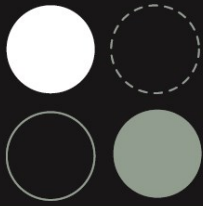
This edition's featured employee is Daisy Yu, who is a Structural Engineer based in our Oakland Office. Daisy has been with TJCAA since 2007, but she and TJCAA owner Terry Cavanagh worked together many years before that. Her

first professional job after graduating from UC Berkeley in 1994 was with Terry at CDM in Walnut Creek, where she worked for about 4 years.

After cutting her professional teeth on water and wastewater treatment plant structures and related buildings, Daisy sought additional experience with

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## Featured Employee

Did you know?

Latham Square Update

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buildings, and she headed back to UC Berkeley for a masters degree.

During several years at Forell/Elsesser Engineers, a structural engineering firm in San Francisco, she enjoyed working on several high-profile projects. "I was exposed to a lot of different stuff on some very interesting designs," she notes.

We're glad to have her expertise in buildings, structures, and seismic analysis and retrofit here at TJCAA now. "Seismic is a big part of the profession," Daisy explains, "certainly here in the seismically active Bay Area, with its aging infrastructure. It's driving a lot of upgrades."

A San Francisco native, Daisy enjoys the area's accessibility to the water.

"Stepping outdoors, you don't have to drive far to get to the beach and the mountains," she says, "and nature is also very accessible." Theater and other arts in downtown San Francisco are also a draw for her. While she and her husband, Grant, enjoy the area's legendary restaurant scene, Daisy notes with a smile that they are busy parents of two young children and that "We don't get to do that as much anymore."

Daisy enjoys time spent with her extended family. Her siblings also live in the area, and they like to get everyone together. This is especially nice for the children, Daisy says, because they have other family members to play with and they get to know people of a wide age range.

Watching her two children grow and

learn is giving her a new perspective on her academic career and her work at TJCAA. "Going to school was about learning as well as teaching, and that happens at work, too. We all go through this in our lives at different stages." The kids are in fact at an exciting stage now. One-year-old Garrett is making an important career advancement—he just took his first steps. At the same time, his three-year-old sister Keira is exploring her love of the arts by entertaining the family with her happy dancing and singing.

For our part, we are happy that Daisy is in our TJCAA family!

### Did you know? - Mixed Liquor

If your local mixologist offers to mix you some liquor, you might be in line for a tasty beverage. On the other hand, if your local wastewater treatment plant operator offers you some mixed liquor, it will be something quite different.

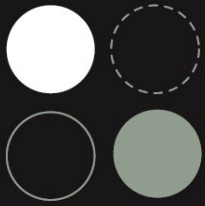
*Mixed liquor* in the wastewater treatment field is a suspension of wastewater and activated sludge (clumps of microorganisms cultivated to break down the organic matter in the wastewater).

### Latham Square Update

We have been following the update of Latham Square, which is adjacent to TJCAA's Oakland office in the Cathedral Building. The renovations are complete and it looks great! The Cathedral Building was recently featured in a [Curbed San Francisco](#) article titled "[Iconic Oakland: Then and now.](#)"

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# 2016

Latham Square Update

Entertainment News

Congratulations to our Olympic Athletes

Dates to Note



Upcoming events in Latham Square include Oakland Central's Third Thursday with DJ and live music, on October 20, 5-8 p.m.

## Congratulations to our Olympic Athletes

At the Rio Olympics, team USA dominated in both the gold medal count and in overall medals, with 46 gold medals and 121 medals overall. A special congrats to athletes from our Bay Area colleges. With 27 and 21 medals for athletes from Stanford and Cal, respectively, the Bay Area was an Olympic powerhouse!

## Dates to Note

September 22	The Autumn Equinox
September 28-October 1	ASCE Convention, Portland, OR
October 1-2	World Maker Faire, New York City
October 16	Dictionary Day
October 20	Third Thursday at Latham Square, Oakland 5-8 pm
October 25	112th MLB World Series Begins
November 6	Daylight Savings Time Ends
November 6	Saxophone Day
November 8	Election Day
November 19	119th Big Game: Cal vs. Stanford
December 13-14	Geminid Meteor Shower

## Entertainment News - "Batman v Superman"

The news from our Instrumentation, Controls, and Electrical group is that the latest major motion picture to feature the Caped Crusader and the Man of Steel is pretty entertaining. "Why would two of our favorite DC Comics heroes be fighting each other?" we ask. They are both supposed to be saving the world, right? Well, that certainly gives this movie a twist, and despite the title, it carries a message of teamwork. We enjoyed the performances of Henry Cavill as Superman and Jesse Eisenberg as the infamous Lex Luthor. Now, let the debate continue, among the eight men who have portrayed Batman in movies and on TV, where does Ben Affleck rank? (151 minutes, PG-13)