



Volume 28, No. 2 , APRIL 2013

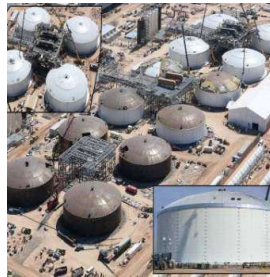
## BEST OF THE BEST! STI/SPFA's Product of the Year Awards

STI/SPFA's Annual Product Awards recognize steel construction products and achievements by member companies. These projects demonstrate the positive qualities and flexibility of steel as the production material of choice for applications in the petroleum, chemical, agricultural and water infrastructure industries.

Steel's design flexibility, strength and durability are on display as we acknowledge the best products in field erected and shop fabricated tanks, steel pipe and pipeline, pressure vessel and special fabrication categories. For detailed descriptions and photos, [click here](#).



API Flat Bottom Oil Storage  
by CBI Services,  
Everett WA.



Molten Salt Energy  
Storage, by  
Caldwell Tanks, Louis  
ville KY



"Life Evolving"  
Sculpture by  
Kennedy Tank,  
Indianapolis IN



De-ethanizer Tower by  
Sauder Custom  
Fabrication,  
Emporia KS



Two 3 Million Gallon W  
ater Storage Tanks by  
Caldwell Tanks,  
Louisville KY



2.6 Million Gallon  
Reservoir Tank by  
Paso Robles Tank,  
Paso Robles CA.

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bucks

**Did you know?**  
*The size of an oil barrel  
was established in 1866  
when a group of oilmen  
met in Pennsylvania.  
They decided that 42  
gallons constituted a  
barrel, and so it remains.  
For more oil and gas  
industry history,  
[click here](#).*

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For RSS feed instructions,  
[click here](#).



5,200 ft. Steel Water Pipe  
by American SpiralWeld,  
Birmingham AL



Stainless Steel  
Remote Fill Box by  
Morrison Bros.,  
Dubuque IA



3 Million Gallon  
Standpipe by  
CBI Services,  
Everett WA

**STI/SPFA Education  
and Certification  
Programs**  
*Click for information  
and registration*

**Water Storage Tank  
Seminar**

Birmingham AL, Apr 18  
Minneapolis MN, May 14

**Webinar: Steel Water  
Pipe Installation and  
Inspection**

May 3, 10 am-noon CST

**Cathodic Protection  
Training & Certification**

Fargo ND, Apr 29-30  
Frankfort KY, May 21-22  
Jackson MS, June 11-12

**SP001 AST Inspection  
Training & Certification**

Baltimore MD,  
Apr 29- May 3  
Houston TX, May 13-17  
Baltimore MD, Aug 19-23



Steel Pipe Water  
Filter Gallery by  
MidAmerica Piping  
& Supply,  
Scammon KS



Split Compartment  
30,000 Gallon Portable A  
sphalt Storage Tank  
by Hamilton Tanks,  
Columbus OH

**Online Offerings**  
**Tank Integrity  
Management Certificate**

**E-learning modules:**

- Steel Water Pipe Overview
- Steel Water Pipe Coatings and Linings
- Steel Water Tank Standards
- Steel Water Tank Construction
- Steel Water Tank Coatings and Linings

**Archived webinars:**

- Regulation of Tanks Inside Buildings: A Guide for Users and Enforcers
- Tank Venting

**Our energy future: Unprecedented economic opportunity**



The times being what they are, you may have a hard time seeing economic opportunity anywhere for the steel fabrication industry. But according to John Hofmeister, we're poised on the brink of possibility by virtue of our strong link to the energy market. Hofmeister addressed STI/SPFA members at their Annual Meeting on March 25 in Bonita Springs, Florida.

John Hofmeister is former CEO of Shell Oil Company and founder of the non-profit public policy education organization Citizens for Affordable Energy. This Washington, D.C.-registered, public policy education firm promotes

ound U.S. energy security solutions for the nation, including a range of affordable energy supplies, efficiency improvements, essential infrastructure, sustainable environmental policies and public education on energy issues.

[Click here to read about John Hofmeister's views on our energy future](#)

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## Why tank maintenance is vital: Revisiting Gadsden

Storage tank fabricating standards, fire codes, maintenance requirements—all are intended to protect people and property from the inherent risks in storage of flammable liquids. None of these measures, though, offer safety if they are not implemented and enforced consistently.

The tragic fire and explosion at a service station near Gadsden, Alabama, in 1978 is a case in point. A UL 142-compliant tank was the source of an explosion and fire due to multiple factors that might have been prevented if maintenance codes and procedures had been followed.



05/15/09 tank explosion, La Mesa TX

[Click here to learn more about the Gadsden disaster](#)

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## NFPA 30 seeks public comment



The Technical Committee on Tank Storage and Piping Systems for NFPA 30 Flammable and Combustible Liquids Code met in August 2012 to review issues and proposals for changes to the code.

**The public is invited to participate in the code development process by commenting on the Technical Committee's activity by May 3, 2013.**

Tank Talk readers are encouraged to comment specifically on two important issues:

1. Should the NFPA 30 Code further regulate pressure limitations on the outer shell of secondary containment tanks under emergency venting conditions?
2. Should the NFPA 30 Code allow an increase in acceptable capacity of secondary containment tanks as a form of spill control?

[Click here for discussion and how to post your comments](#)

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## NEW! Tank Integrity Management certificate online-- "Time and money well-spent" says one learner

Essentials:  
PreVENTing  
Catastrophe

**Industry Calendar of  
Meetings, Conferences  
and Events**  
[Click here](#)

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*To comment or submit copy, contact **Tank Talk Editor Noël Zak***



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Steel fuel storage tanks are a vital component of our fuel delivery infrastructure. However, even owners, operators, engineers, regulators and others who deal with them every day may not understand their complexity.

STI/SPFA's new Tank Integrity Management© (TIM©) Certificate is a comprehensive online learning program that provides this needed knowledge. Individuals who have completed the program receive the TIM© Certificate, demonstrating their understanding of how shop-fabricated steel fuel storage tanks are built, installed, operated, and maintained.

*One recent TIM learner said, "I just want to say 'Thanks' for making this course available online. I took the training, gained from it, and enjoyed it. Time and money well-spent."*

Improve your knowledge and demonstrate your expertise with STI/SPFA's Tank Integrity Management Certificate.

[Click here for more information about TIM](#)

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## Steel tanks provide storage for recycled water



*A new storage tank will improve recycled water delivery in Winchester CA.*

*Photo courtesy Paso Robles Tank, Inc.*

Budget and environmental concerns increasingly require more efficient use of water resources. One significant source is recycling of waste water that once would have been discarded.

Rainwater sources typically fluctuate, with too much of it available during periods of high rainfall, and too little to meet demands during low rainfall periods. On the other hand, waste water is produced constantly throughout the year, with no dramatic, seasonal highs or lows.

Reuse of water for agricultural irrigation is viewed as a positive means of recycling large volumes of water. Irrigation needs fluctuate seasonally, with peak demand typically from March through July. Storing this consistent source of reclaimed, recycled water in reservoir or other steel tanks for use during peak demand is becoming a more common practice.

[Click here for more information](#)  
and [Click here for more information](#)

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## New! Sustainable Steel Fact Sheet

STI/SPFA presents the latest in our series of **STEEL FACTS** informational flyers. *Sustainable Steel* highlights the recyclability and sustainability of steel.

These single-page handouts dispel the myths and present the simple facts about the benefits of using steel, all of which have been researched by industry experts:

- **Steel's Sustainability**
- **The Strength of Steel**
- **Choose Steel for Lifetime Value**
- **Cathodic Protected Tank Inspection**
- **Steel Tanks: Compatible with All Biofuel Blends**

[Click here to get your own copies of Steel Facts](#)

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## Tank and Petroleum Mishaps

### STATIC ELECTRICITY BELIEVED TO BE CAUSE OF OIL WELL EXPLOSION -

Ohio: An oil well explosion was heard - and felt - for miles, but caused no injuries and only damaged the well itself, despite sitting less than 300 feet from two residences and the township garage. The explosion blew the lid off the tank, which landed about 400-500 feet away in the yard of an adjacent residence...

### 2 SMOKERS HURT IN TEXAS OIL FACILITY EXPLOSION - Texas: Two people

were critically injured in an explosion and fire after smoking on a catwalk over oil storage tanks in northeast Texas...

### WASHINGTON COUNTY DA NEARS DECISION ON GASOLINE LEAK CHARGES -

New York: Washington County District Attorney Kevin Kortright said Thursday he is nearing a decision on whether Cumberland Farms should face criminal charges in the 2011 gasoline leak that caused hundreds of thousands of dollars in damage to Fort Edward infrastructure...

### THREE WORKERS DIE OF SUFFOCATION AT PEENYA FACTORY - India:

Three workers of an iron forging factory at Peenya Industrial Area, who got into an oil tank, died of suspected asphyxiation early Thursday morning...

[Click here for complete stories and more Tank Mishaps](#)

MORGANTOWN, W.Va. (AP) - State regulators say a worker was killed Friday morning in an explosion at a natural gas well pad near Flemington in rural Taylor County. Department of Environmental Protection spokeswoman Kathy Cosco said the unidentified victim was working alone at the time... The man was attempting to transfer briny wastewater from a tank into a truck...

[Click here for more on this story](#)

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## Great article on confined spaces!



"Much of the popular information circulating about confined spaces is simply wrong. Confined spaces don't have to be labeled. Oxygen levels of 19.5 percent aren't necessarily "safe" for entry. The mere possibility that an atmospheric hazard may exist doesn't necessarily mean that a confined space is a permit space. Showing employees a 20-minute video or sending them to a one-day, state-sponsored fire rescue institute seminar doesn't mean they have been trained."

[Click here for this great article on confined space](#)

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## Expert Opinions



We at STI/SPFA have frequent exchanges with experienced industry people, on a variety of issues.

[Click here for expert opinions](#) on:

- sti-P3 tanks and PP1 test station
- Biodiesel and galvanized tanks

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## Global safe storage for petroleum



*Permatank installation in Asia. Photo courtesy Padungsilpa Engineering, Thailand*

Since the 1970's, the world has become more and more aware of the importance of clean water. At the same time, reliance on petroleum products for energy and fuel has continued to grow.

Water is a precious commodity, and in the mid-1980's, the US Environmental Protection Agency recognized the importance of protecting it from petroleum product storage tank spills. Underground storage tank regulations were developed to limit the risk of contamination by requiring secondary containment and corrosion control systems.

[Click here for more about safe petroleum storage](#)

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## EPA rule requires use of 15-ppm diesel in large stationary generators



The Environmental Protection Agency issued a final rule in January that requires large stationary emergency generators used to generate electricity during power outages, to use 15-ppm ULSD **after January 1, 2015**.

The rule applies to stationary combustion ignition, reciprocating internal combustion engines (CI RICE) with a site rating of more than 100 brake HP and a displacement of less than 30 liters per cylinder that operate or are contractually obligated to be available for more than 15 hours per year (up to a maximum of 100 hours per year) for emergency demand response or that operate for

local system reliability. The rule will affect commercial emergency generators which are used in industrial, medical, agricultural, oil and gas production, and power generation facilities, etc.

Currently, CI RICE generators are typically supplied with reserve fuel oil or other high sulfur distillates. The use of stationary emergency generators as part of emergency demand response programs help prevent grid failure or blackouts.

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## Curious about field erected tank types?



*Flat bottom reservoir storage tank. Photo courtesy Paso Robles Tank, Paso Robles CA*

They can be beautiful, they can be utilitarian, they can blend into the landscape, they can be community landmarks—water storage tanks are built in several forms and with many faces.

[Click here to learn about water storage tank types](#)

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## \$6 billion tab projected for Minnesota water line fixes



*Photo courtesy Minnesota Public Radio*

A colossal water main break in Duluth, Minnesota, demonstrated that in many of that state's cities, like others around the country, the water infrastructure is in dire need of replacement.

The water main was built in 1890. While 123 years is laudable longevity, the fact remains that replacement, not repair, is the best solution for pipe systems of this age.

[Click here for the complete article](#)

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