SAWEA TALK

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www.sawea.org

NALCO SPONSORED DINNER EVENT HIGHLIGHTS

February 24, 2016

This past SAWEA Dinner Meeting was very well attended and speaker Paul Beattie representing our sponsor NALCO did a great job in presenting to the attendees.

Thank you to all who attended and THANK YOU TO OUR SPONSOR!

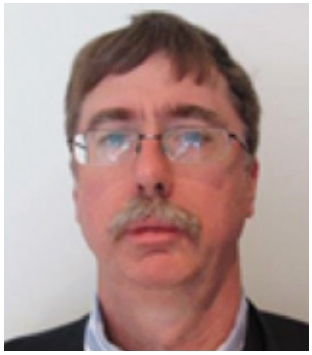
Make sure to visit the SAWEA website at sawea.org and see a copy of Paul's presentation.

NALCO CHAMPION WAS FORMED IN 2013 FROM NALCO ENERGY SERVICES DIVISION OF ECOLAB COMPANY AND CHAMPION TECHNOLOGIES. THE COMPANY COMPRISES OF 6,700 EMPLOYEES WORKING IN 160+ COUNTRIES AROUND THE WORLD.

Nalco Champion, an Ecolab company, and a global market leader in solving the toughest challenges facing the oil and gas industry. We are Taking Energy Further™ by delivering targeted products, chemical solutions and technologies to help our customers optimize all upstream and downstream production around the globe. Where you need us, when you need us. We help you enhance productivity, while reducing operating costs, with strong safety values in mind.

NALCO Champion

An Ecolab Company



PAUL BEATTIE

Industry Technical Consultant

Email: sbeattie@nalco.com
Cell# +44 7710970012
Location: UK
Area of Resp.: Middle East / UK

- Chemistry degree from Queens University Belfast.
- Chartered Chemist and member of the Royal Society of Chemistry.
- 36 years with Nalco in Sales and Marketing, last 15 years as an ITC.
- Expertise in Cooling Water and Boiler Water Systems in Refineries and the Petrochemical Industry. Also responsible for driving new innovative Technologies in the Middle East i.e. Purate, the new Chlorine Dioxide system.
- Spoken Languages: English (Mother language)

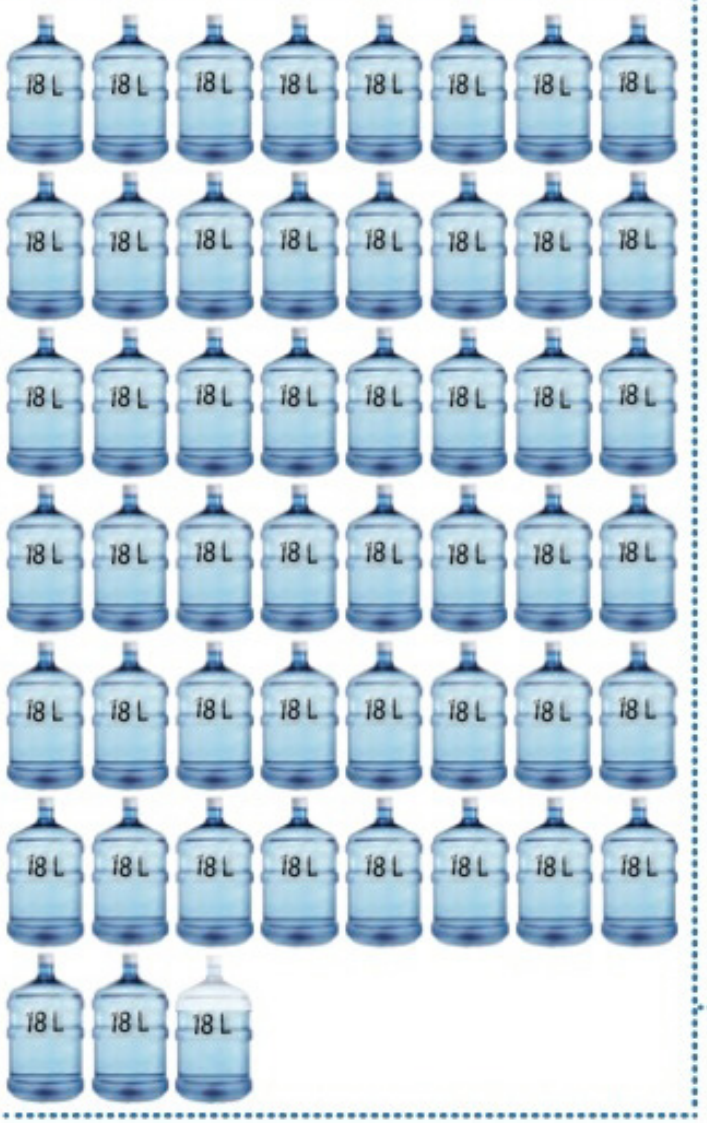
WASTEWATER RECOVERY AND REUSE
EVENT HIGHLIGHTS

April 13th & 14th, 2016
Holiday Inn, Old Airport Road, Al Khobar

GUEST PRESENTER

Peter S. Cartwright P.E.

To produce **1** smartphone requires



910 liters (240 gallons) of water

Cellphones and smartphones use water throughout their production process, from creating the microchips to mining the metals used in the batteries to polishing the silica glass used in their touch screens. In total, each phone requires about 910 liters (240 gallons) of water to manufacture. The number of activated cellphones is soon expected to exceed the world's population. To manufacture these phones will require 6.7 trillion liters (1.8 trillion gallons) of water, much of it blue and gray (see p. 72).

MEMBER HIGHLIGHTS

DR. HABIS SAID ALZOUBI
Associate Professor in Environmental Engineering
SAWEA's Dammam University Liaison

Dr AlZoubi is an associate professor in environmental engineering department at the University of Dammam. He holds a BSc in MSc in chemical Engineering from Jordan University of Science and Technology, Jordan, and PhD in Chemical and environmental Engineering from University of Nottingham, UK (2007).

He published around 24 papers in international journals and 6 papers in international conferences in desalination and membrane technology subjects. He also obtained six research funds to conduct scientific research in water treatment fields. He is currently working in following projects; dissolved air flotation (DAF) in treating oily wastewater, membrane distillation (MD), and forward osmosis.

ADDITIONAL FAST, FUN FACTS ABOUT HABIS SAID ALZOUBI

Originally from: **Jordan**
Years as a SAWEA member: **Three years**
Reason for joining SAWEA: **"Its excellent activities on water and its treatment field and I will have the opportunity to meet and network with other people with similar interests"**
Favorite Vacation destination: **Turkey**
Favorite food: **Mansaf (main Jordanian Meal)**
Favorite sport activity: **Swimming**
Favorite way to unwind: **Relaxation on the beach**
Your advice to a new Engineer:
Be always positive, and treat your problems using your engineering sense.
What book are you currently reading?
Way to Success, from Dr. Ibraheem AlFaghi

UPCOMING WATER EVENTS

WATER ARABIA 2017 GET READY!

WATER ARABIA 2015 was a very successful Conference. It was held at the Le Meridien Hotel in Khobar, Saudi Arabia with over 1,200 Water and Waste Water Professionals from over 20 countries in attendance. 51 companies were represented at the Exhibition Halls.

So stay tuned for upcoming information about Water Arabia 2017 which planning is already underway and promises once again to be a great conference you will want to be part of and cannot miss!

INNOVATIVE & RELIABLE WATER AND WASTEWATER TECHNOLOGIES FOR SUSTAINABLE WATER QUALITY

WEPOWR 2016

WEPower has continually delivered a platform for local and international suppliers and technology providers to discuss major projects to deliver water and power solutions to one of the largest economies in the world: Saudi Arabia.

Further details at
www.wepower-sa.com

WETEX 2016 WATER, ENERGY, TECHNOLOGY, AND ENVIRONMENT EXHIBITION (WETEX)

Every year competitive technical event
October 4-6, 2016, Dubai, UAE

The main objective of this Conference and Exhibition is to highlight the magnitude of the water sustainability problem in this region and to provide solutions. It is an excellent opportunity to showcase innovate products and services from local and international companies; and provide a collaborative platform with an emphasis on water.

To produce **one 500-milliliter (17-fluid-ounce) bottle** of cola requires

175 liters (46 gallons) of water

Actual Water
500 milliliters (17 fluid ounces)

Manufacturing & Supply Chain
11.5 liters (3 gallons)

Production of flavoring
163 liters (42 gallons)

Cola is almost entirely water, so a half-liter (17-fluid-ounce) bottle effectively contains a half-liter of water. That's the direct water input. But cola is not just water in a bottle. When you include the production of all of the flavoring ingredients (the highest consumptive factor here), the manufacturing and the supply chain, each bottle requires about 175 liters (46 gallons).

الجمعية العربية السعودية للبيئة المائية
Saudi Arabian Water Environment Association

Member Association
Water Environment Federation
the water quality people