



### **Spiral Water shares filter technology at BlueTech Forum**

BlueTech Forum is delighted to welcome filtration specialist Spiral Water on board for the Innovation Showcase taking place in San Francisco on 1<sup>st</sup> June. The California-based company will be sharing its revolutionary self-cleaning filter technology with delegates.

The stainless steel cylindrical filter contains a spiral-shaped wiper within which continually cleans the filter element. Using a cleansing brush that is always spinning means that dirt does not build up, so the pressure differential as liquid passes through the filter is minimal, optimising energy consumption.

David Levitt, Chief Technology Officer, Spiral Water says, “We originally developed the self-cleaning filter for use in biofuel production. It was important to make it cost effective by minimising the energy requirement for filtration”.

“The spinning wiper is a mechanical device that uses a motor to pump water out and push solids down and away from the filter. Proprietary geometry ensures that fluid flow is shared equally across the membrane.

“The pumped solids are concentrated at the bottom of the filter housing. Influent concentrations of suspended solids as high as 25,000 mg/l can be processed with 99.9% water recovery and no need to halt production for maintenance and filter cleaning.”

Levitt says, “The solids are removed from the housing by activating a purge valve. We have a proprietary technology to measure build-up of solids electronically and automatically activate the valve to let them out.”

The Spiral Water Filter can be used on industrial wastewater, seawater and produced water from oil processing. It has also been applied in the food and beverage sector both on brewery wastewater and, in one instance, to maximise juice recovery for a pomegranate processor. The company will share a macro filtration case study with delegates at BlueTech Forum.



## Technology development

Spiral Water Chief Executive Ashwin Gulati says, “We are currently looking for partners to develop this technology for other large-scale users in the industrial, marine and municipal markets. One of the most exciting developments will be to look at new ways of turning solid waste by-products into useable assets.”

O<sub>2</sub> Environmental Technology Assessment Group (TAG) member Graeme Pearce says, “The Spiral Water Filter is a very exciting development. The combination of a pre-treatment strainer with a highly effective solids concentrator addresses some real unmet needs in the industry. This technology has an amazing breadth of operation and achieves significantly higher solids operation than competitor technologies.”

Paul O’Callaghan, Chief Executive, BlueTech Research says, “The opportunities for Spiral Water are significant in a filter market worth an estimated £8 billion a year. Reducing energy consumption in filtration processes is a challenge for all industrial users.”

## Roundtable Briefings

Alongside the Innovation Showcase, BlueTech Forum 2016 is also hosting ten Water Technology Roundtable Briefings. Look out for two that reveal future trends related to Spiral Water’s technology:

- *Oil and Gas opportunities in a shifting landscape*
- *Brine Management and Zero Liquid Discharge – competitive landscape and next generation technologies*, hosted by Dr Michael Mickley, O<sub>2</sub> Environmental Technology Assessment Group

**BlueTech Forum is taking place on 1<sup>st</sup> June in San Francisco.**

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