



ELEMENT SIX'S ADVANCED WATER TREATMENT TECHNOLOGY, DIAMOX, INVITED TO WEFTEC 2016 INNOVATION PAVILION

SANTA CLARA, Calif., (Sept. 21, 2016)— [Element Six](#), the world leader in synthetic diamond supermaterials and member of The De Beers Group of Companies, will be presenting its recently launched [Diamox](#) electrochemical advanced oxidation cell technology at the Water Environment Federation's Annual Technical Exhibition and Conference 2016 (WEFTEC) on Sept. 27 at 3:00 p.m. CT at New Orleans Morial Convention Center in New Orleans. The event is the largest water quality exhibition in the world and features cutting-edge technologies, technical education and a forum for domestic and international business opportunities.

Session Title: Diamox: Electrochemical Advanced Oxidation

Date and Time: Tuesday, Sept. 27; 3:00-4:00 p.m. CT

Location: Innovation Pavilion, Hall E

The Element Six presentation is part of the WEFTEC Innovation Pavilion, where, as one of several promising technology providers to be highlighted, it will form part of an important dialogue about water innovation. Presenting is Hossein Zarrin, head of water technologies at Element Six, who will discuss how Diamox is effective in treating industrial wastewater contaminated with extremely difficult to treat dissolved organics. Diamox is born of more than 20 years research by Element Six into electrochemical oxidation and boron doped diamond (BDD), and leverages world-leading diamond synthesis capability to produce robust diamond electrodes, which generate hydroxyl radicals that are capable of efficiently removing two kilograms of chemical oxygen demand per hour.

Diamox has demonstrated excellent treatment results and the extraordinary stability of solid diamond electrodes in its successful application with an industry-leading wastewater treatment company. Diamox is suitable for the treatment of a wide range of effluents including pharmaceutical wastewater, textile dye house wastewater, landfill leachate and waste effluent from oil and gas refineries. As a modular cell, compact water treatment systems can be designed to meet the scale of the application, often at the point of generation. Diamox provides a solution which is simpler to operate, and cleaner for both the user and the environment compared to incineration or hydrogen peroxide advanced oxidation. Wastewater treated with Diamox provides an opportunity for direct discharge or reuse of the water and, unlike other electrochemical advanced oxidation processes, there is no additional chemical dosing with hazardous chemicals.



With no supporting substrate, Element Six's solid diamond electrodes are suitable for industrial scale water treatment.

Media and analysts interested in speaking with Zarrin at the conference to discuss the presentation further or learn more about synthetic diamond technology, may contact Havas Formula at e6@formulapr.com to coordinate a meeting. Element Six is located at booth #4029n on the WEFTEC show floor.

About Element Six

[Element Six](#) is a synthetic diamond supermaterials company. Element Six is a member of The De Beers Group of Companies, its majority shareholder. Element Six designs, develops and produces synthetic diamond supermaterials, and operates worldwide with its head office registered in Luxembourg, and primary manufacturing facilities in the US, U.K., China, Germany, Ireland and South Africa.

Element Six supermaterial solutions are used in applications such as cutting, grinding, drilling, shearing and polishing, while the extreme properties of synthetic diamond beyond hardness are already opening up new applications in a wide array of industries such as optics, power transmission, water treatment, semiconductors and sensors.

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