Alpha Cleantec AG

Newsletter February 2021

Dear Madam or Sir

We hope this email finds you well and healthy.

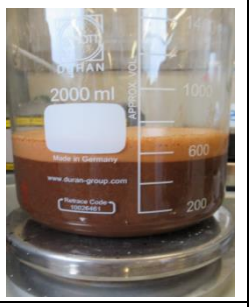
For the last few months, we were proud to be part of the PWC Scale Sustainability program that had a grand finale this month. During the program, we had an opportunity to meet the world's top specialists, expand our network and learned a lot from masterclasses.

Meanwhile, our R&D department continued the efforts for expanding company services and penetration to new markets. Today we send you our second Newsletter for 2021 containing the last February updates.

From our R&D department we are happy to provide you with a new update regarding customer projects.

Successful feasibility study completed with a Swiss nuclear power plant

The Problem:	The feasibility study was with a Swiss nuclear power plant. The target of the feasibility study was to decontaminate nuclear plant wastewater. The challenge was to release, disconnect and decompose the complex between high concentration of organic contamination and nuclear leftovers in wastewater. This will allow a much easier and cost-effective separation of nuclear leftovers from water.
The Objective	It is, therefore, the intention of our potential customer to gain a simple, efficient, and cost-effective methodology that allows decontamination of organic material, disconnect, and decompose the complexes between organic contamination and nuclear leftovers. That will allow to the customer to treat the wastewater with nuclear leftovers faster and at much more economic rates.
The Solution:	We have implemented a series of laboratory treating methodologies for several Liters of contaminated water thereby demonstrating that through a simple process our SOA technology could be efficiently applied for wastewater with nuclear leftovers.



Pilot Results

Contamination	Pollution degree [Bq]	After treatment [Bq]	Reduction of pollution in %	Remaining Activity [Bq]
Radionuclides	12,000	290	98%	2.8
Radionuclides	12,000	244	98%	2.2

Maybe you face similar challenges in your business. Then please feel free to contact us.

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About Alpha Cleantec AG

We believe that our eco-system requires looking after so we have a world worth living in to pass to our next generations. Decontamination of soil and water from hazardous contaminants plays a major role in this regard, in our view. This is why we established Alpha Cleantec AG as an environmental technology company in 2016 with a vision to provide safe, green, rapid, efficient and cost effective technologies to resolve environmental harms and hazards caused by inadequate human and industrial activities.

Alpha Cleatec AG provides two technologies, AFA and SOA, achieving decontamination ratios of up to 97% for a wide range of contaminants in just hours (such as Hydrocarbons, BTEX, Petroleum leftovers, Aromatics, PAHS, Chlorinated Solvents, PCBs, Dioxins as well as Pesticides and Herbicides) to be applied for soil, wastewater and railway ballast treatment.

Table of contaminants treatable by our technologies

	IN-SITU		ON SITE	
CONTAMINANTS	**SOA**	**AFA**	**SOA**	**AFA**
BTEX				
Benzene	◆	◆	◆	◆
Toluene	◆	◆	◆	◆
Ethylbenzene	◆	◆	◆	◆
Xylene	◆	◆	◆	◆
PETROLEUM HYDROCARBONS				
Gasoline Range Organics (GRO)	◆	◆	◆	◆
Diesel Range Organics (DRO)	◆	◆	◆	◆
Oil Range Organics (ORO)	◆	◆	◆	◆
AROMATICS				
Chlorobenzene	◆	◆	◆	◆
Bromobenzene	◆	◆	◆	◆
Dichlorobenzene	◆	◆	◆	◆
Nitrobenzene	◆		◆	
Phenol	◆		◆	
Styrene	◆	◆	◆	◆
Naphthalene	◆	◆	◆	◆
Trichlorobenzene	◆		◆	
Trimethylbenzene	◆	◆	◆	◆
PAHS				
Phenathrene	◆	◆	◆	◆
Naphthalene	◆		◆	
Acenaphthylene	◆		◆	
CHLORINATED SOLVENTS				
Tetrachloroethylene	◆		◆	
Trichloroethene	◆	◆	◆	◆
Dichloroethene	◆	◆	◆	◆
Vinyl chloride	◆		◆	
Tetrachloroethane	◆	◆	◆	◆
Trichloroethane	◆		◆	
Dichloroethane	◆	◆	◆	◆
Dibromochloroethane	◆	◆	◆	◆
Bromodichloromethane	◆		◆	
Carbon tetrachloride	◆	◆	◆	◆
Chloroethane	◆	◆	◆	◆
Chloroform	◆	◆	◆	◆
Chloromethane	◆	◆	◆	◆
Chlorotoluene	◆	◆	◆	◆
Methylene chloride	◆		◆	
PCBS	◆	◆	◆	◆
DIOXINS	◆	◆	◆	◆
PESTICIDES AND HERBICIDES				
Glyphosate	◆		◆	
Goal	◆		◆	

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We plan to inform you in future whenever we accomplished projects, pilots or case studies. If you do not wish to get our company news, please let us know.

Kind regards

Mit freundlichen Grüßen

Andreas Danner

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