



**Molecular Filtration, Inc.**  
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THE SCIENCE OF SMALL PARTICLES & LARGE MOLECULES®

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## **We will change the way World Frack Water is Re-cycled**

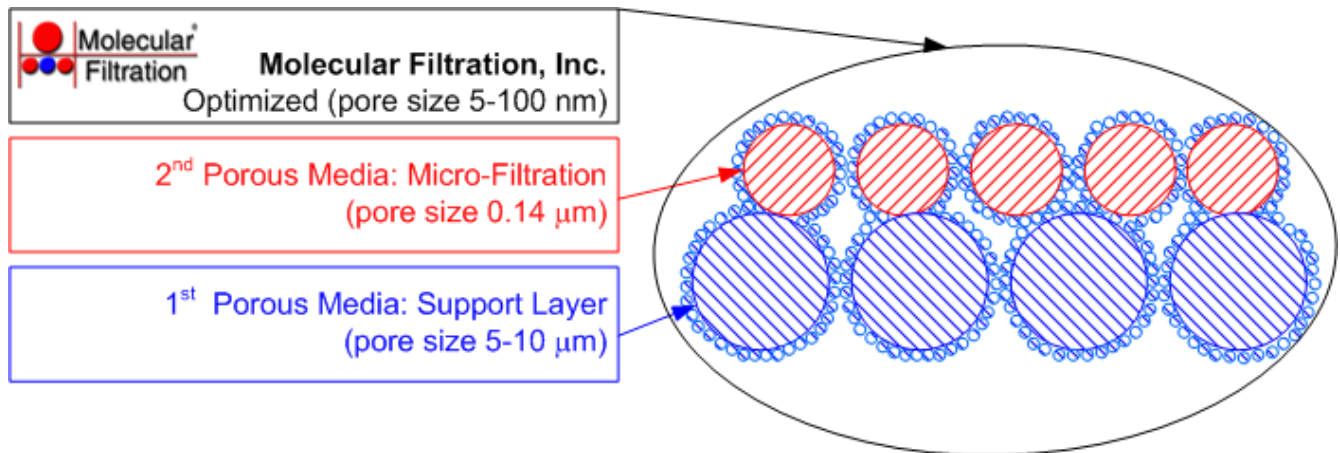
**Felipe Lembcke a  
Chemical Engineer and  
President & CEO of  
Molecular Filtration, Inc.  
describes the process in  
couple of words.**

**“NANO-TECHNOLOGY”.**



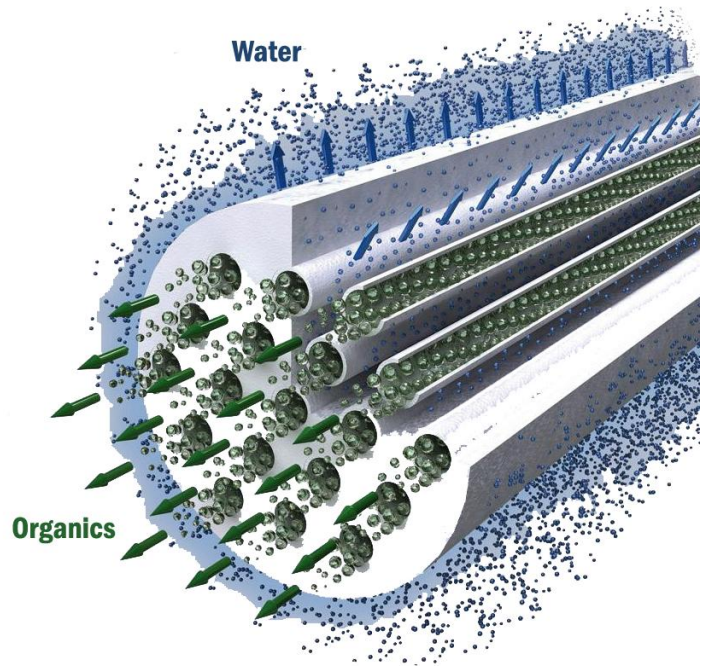
**Our company has developed a ceramic membrane with nano technology that created the first organophobic ceramic membrane.**

**Nano-technology was the key factor to achieve this goal. We were able to molecular engineer and manufacture nano particle that reject organics. These modified particles at the nano level are deposit on the surface of the ceramic membranes to create an organophobic surface so powerful that all organic including bacterias and viruses are rejected from the surface of the membrane.**



**1. Will this change the way existing frack water is recycle? ABSOLUTELY!**

The simple reason is that our tubular ceramic membranes will use one single step to filter water in a cross-flow filtration mode and no chemical will be required since the surface of our ceramic membrane is organophobic. All organic including bacterias and viruses will be rejected.





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**2. *Will this Molecular Filtration Process use chemical? NO***

We are doing true molecular filtration; this includes colloidal matter and particles in one single step. A well know conventional water pre-treatment process such as clarification will be use to drop heavy metals such as iron, calcium, barium, strontium and others. This leaving the hydrocarbons separation exclusively to our organophobic ceramic membranes. The final products will be a clean brines solution ready for re-injection and crude oil recovery from the separation. The process is called a non-destructive process.

**3. *What about Frack water treatment? Will it work? ABSOLUTELY!***

Molecular Filtration, Inc. is targeting very strong the frack, produced and flow back water that is produced by the oil and gas industry.

**4. *Could you give us an example the power of this technology? Yes, let's talk about FRAC WATER***

Frac water is a common term to express the use of the water in hydraulic fracturing which is a process that results in the creation of fractures in rocks. The most important industrial use is in stimulating oil and gas wells, where hydraulic fracturing has been used for over 60 years in more than one million wells. The fracturing is done from a wellbore drilled into reservoir rock formations to increase the rate and ultimate recovery of oil and natural gas.



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Frac Water on the left, filtered water by our molecular filtration systems on the right

Once all the water comes to the surface the contents of organics in the now frac water are enormous. The water becomes an oil emulsion, very difficult to separate if the process is not aid by chemicals. Of course this water can not be recycling back to the environment. Since our ceramic membranes are organophobic, they will reject all organic present in the frac water and water will be recyclable, this is a remarkable achievement by our technology. We are discussing the removal of organics without the use of chemicals. Here is a sample comparison of frac water and the filter water after been filtered by our organophobic ceramic membranes



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