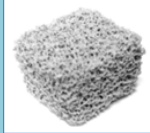


# MetaMateria Technologies



## Our History

MetaMateria uses novel technologies to create advanced materials. Special expertise in porous substrates and nanotechnology provides game-changing materials that enhance performance for cleaning water or providing specialty materials.

## Environmental Solutions

### BIO Products

- *enhance effectiveness of beneficial bacteria & remove nutrients/pathogens*

### Nano-Enhanced Products

- *effective Phosphorus removal*  
- *removal of metal ions, such as arsenic, lead, copper and many more*  
- *remove trace compounds: insecticide, pharmaceutical, pathogens*

### High Surface Area Products

- *removing compounds like perchlorate, chlorinated hydrocarbons*

## Executive Team

Dr. Richard Schorr, CEO-Founder  
[rschorr@metamateria.com](mailto:rschorr@metamateria.com)  
(614) 599-0939 mobile

Dr. Suv Sengupta, CTO  
[ssengupta@metamateria.com](mailto:ssengupta@metamateria.com)  
(614) 596-6842 mobile

Mr. Tim Marth, VP  
[tmarth@metamateria.com](mailto:tmarth@metamateria.com)  
(614) 499-2617 mobile

MetaMateria provides **unique, highly porous ceramic** that can support active materials, such as beneficial bacteria colonies used for bioremediation or nanomaterials for phosphorus and metal ion or trace compound removal. These provide exceptional and cost-effective removal of contaminants found in water. These environmental products offer *long life, shorter contact time and higher contaminant removal rates*. A hierarchical pore structure allows high water flow rates through the media. Product is available in different sizes and shapes to provide flexibility of use.

## Clean Water Problems

Clean Water is essential for human existence and availability of water is a growing worldwide priority. Water quality affects the growth of seafood, use of recreational lakes and water bodies, and purification of drinking water. More efficient and economical approaches to cleaning water are needed, such as provided by MetaMateria's environmental products. These products are based upon unique and highly effective porous structures and consistently outperform competitors. Products have a long life and often can be used multiple times. These products can address water and air cleanup for many applications. Recovery of valuable materials, such as phosphorus and metals, provide additional economic incentives.



## Provide Unique Solutions

MetaMateria environmental products offer highly efficient and economic solutions for improving water quality in many applications, including:

- ✓ **Phosphorus** removed at high rates, media can be reused and P can be recovered
- ✓ **Bio-Remediation of Waste Water** is enhanced for industry and municipalities
- ✓ **Recreational Water** quality is improved to allow greater use
- ✓ **Blue-Green Algae** blooms reduced along with associated toxins
- ✓ **Aquaculture/Aquatic** water improved to enhance growth and reduce loss
- ✓ **Agriculture** water runoff cleaned of nutrients and undesirable contaminants
- ✓ **Metal Ions** and other harmful contaminants removed
- ✓ **Trace Pathogens**, insecticides, pharmaceuticals captured or broken down
- ✓ **Waste Gas** cleaned of harmful contaminants organic and sulfide compounds

[www.metamateria.com](http://www.metamateria.com)

