

Introducing Advanced Electrochemistry Ultrasonic Aerosol Release





chlorOrgano™

— NaOC • ORGANOCHLORINE —

Dual Polarity Electrochemistry

chlorOrgano

NaCl Organochlorine



NaCl electrolyte



chlorOrgano

NaCl Organochlorine

**Ultrasonic
Aerosol Distribution**



Esperer.H₂O

Functional Electrolyzed Water



Esperer.H₂O

Functional Electrolyzed Water

Dual polarity electrochemistry creates specialized water mediums that can be ultrasonically dispersed into controlled environments.

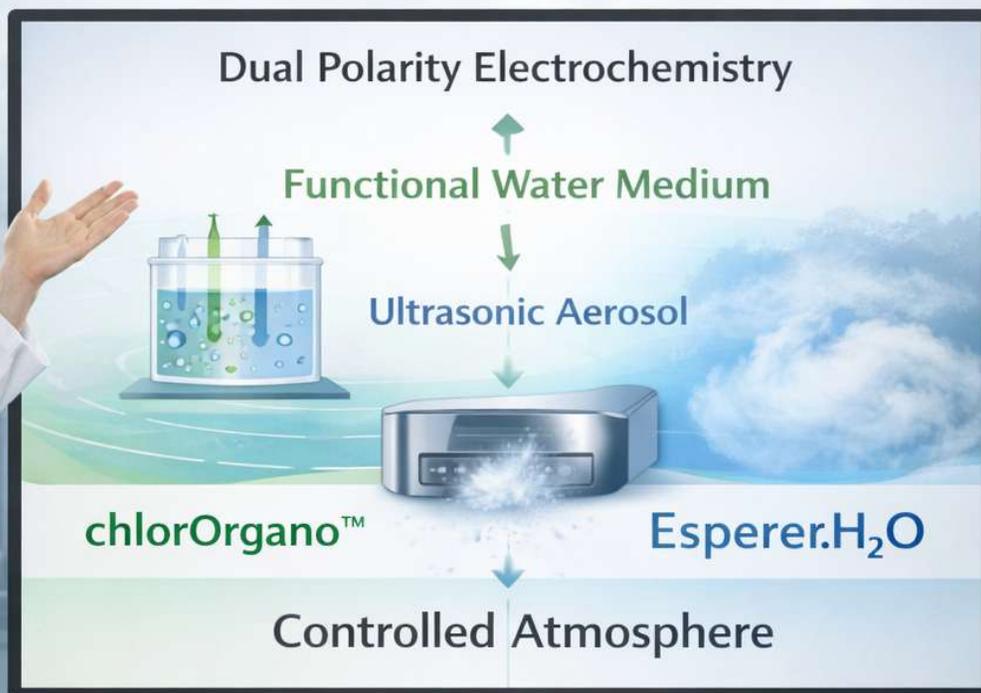
Ultrasonic Aerosol Functional Mediums

Dual Polarity Electrochemistry Systems



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Dual Polarity Electrochemistry Systems



Paul E. Seaver

The Big Idea

Water can be engineered to carry functional gases and ions.

When converted into ultrasonic aerosol droplets, these mediums become controlled atmospheric environments.



Two mediums:

- chlorOrgano™
- Esperer.H₂O



Why Aerosol Delivery?

Ultrasonic aerosolization creates micron-scale droplets.

Benefits:

- uniform distribution in air
- prolonged suspension time
- surface contact over time
- inhalation exposure environment

This turns a liquid into an atmospheric delivery system.



The Two Mediums

Medium	Category	Atmospheric Environment
	NaCl organochlorine	sanitation oriented
	hydrogen water	hydrogen enriched

Both originate from dual polarity electrochemistry.

Slide 5 – Medium 1

Medium 1 – chlorOrgano™

NaCl electrochemical organochlorine medium

Characteristics:

- derived from NaCl electrochemistry
- electrochemically generated chlorine species
- stabilized electrochemical medium

When aerosolized:

Creates organochlorine atmospheric fog



NaCl electrochemistry

When aerosolized:

Creates organochlorine atmospheric fog



Medium 2 | Esperer.H₂O™

Functional electrolyzed hydrogen water.

Characteristics:

- dissolved hydrogen gas
- dissolved oxygen
- neutral electrochemical environment.

RO pretreatment ensures purity.

When aerosolized:

- Creates hydrogen and oxygen atmospheric fog



Ultrasonic Distribution

Ultrasonic atomizers produce droplets typically:

1–10 microns

Droplets:

- remain suspended in air
- distribute through room volume
- deposit slowly on surfaces

When aerosolized:

- Creates hydrogen and oxygen atmospheric fog



System Architecture

RO Pretreatment



Electrochemical Reactor



Functional Medium



Ultrasonic Atomizer



Atmospheric Distribution



Controlled Environments

Possible environments:

- wellness rooms
- spa hydrothermal rooms
- agricultural grow rooms
- sanitation environments
- specialty industrial environments



Scientific Foundation

Dual polarity electrochemistry influences:

- oxidation reactions
- reduction reactions
- dissolved gas formation
- ionic balance

Water becomes a carrier medium for gases and ions.



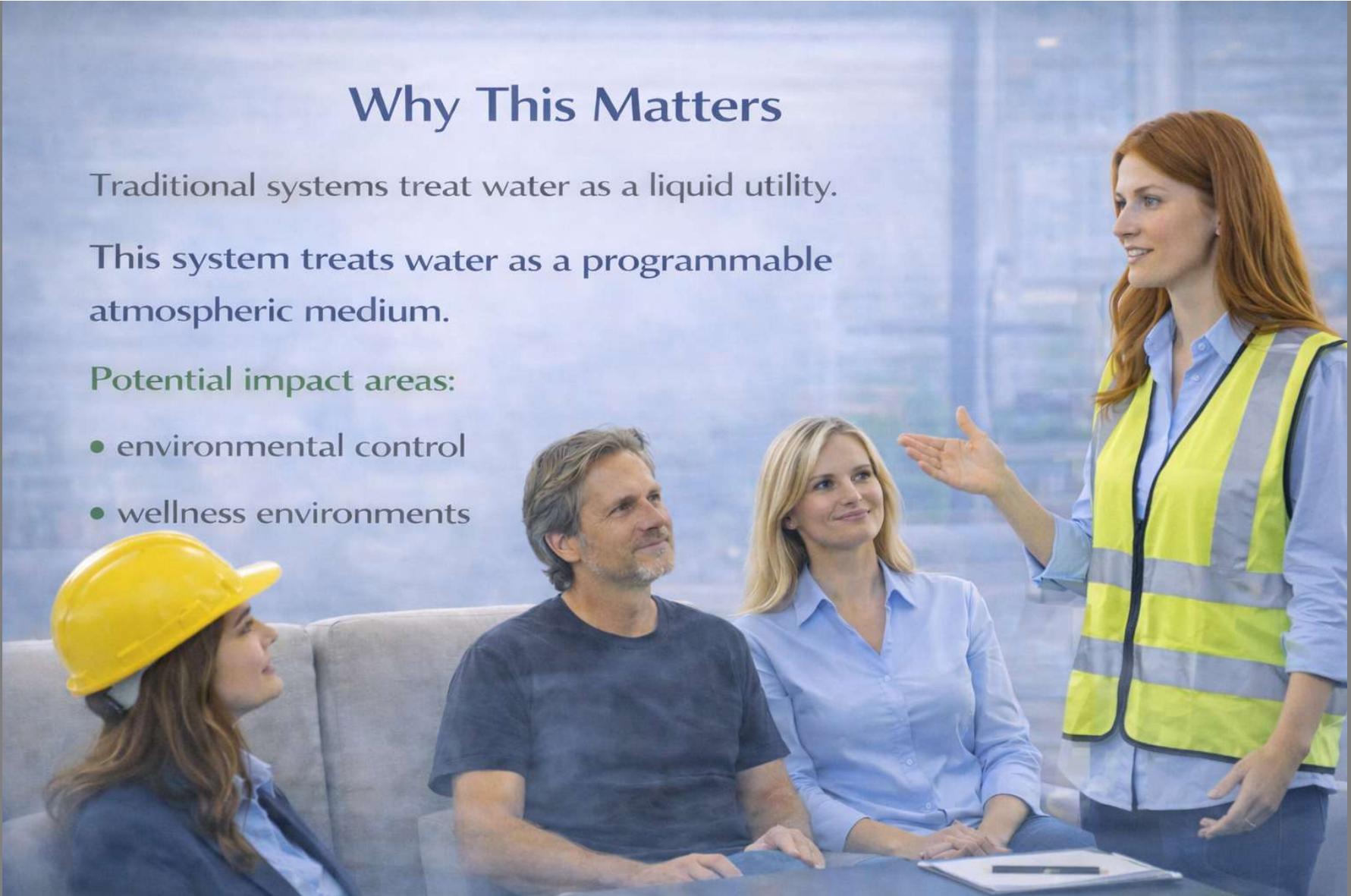
Why This Matters

Traditional systems treat water as a liquid utility.

This system treats water as a programmable atmospheric medium.

Potential impact areas:

- environmental control
- wellness environments



Opportunity

Technology platform combining:

- electrochemistry
- functional water
- ultrasonic aerosol physics

Creates new category of environmental systems



Closing

Water is more than H₂O.

It is a medium capable of carrying:

- gases
- ionic energy
- electrochemical potential

When dispersed ultrasonically, it becomes a controlled atmospheric system.





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This turns a liquid into an **atmospheric delivery system.**

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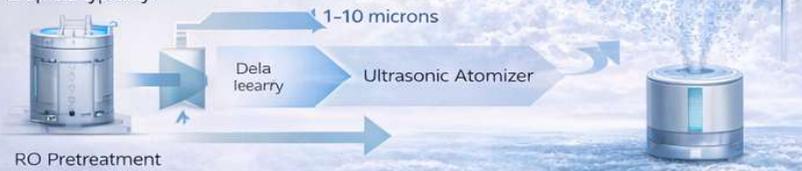
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