

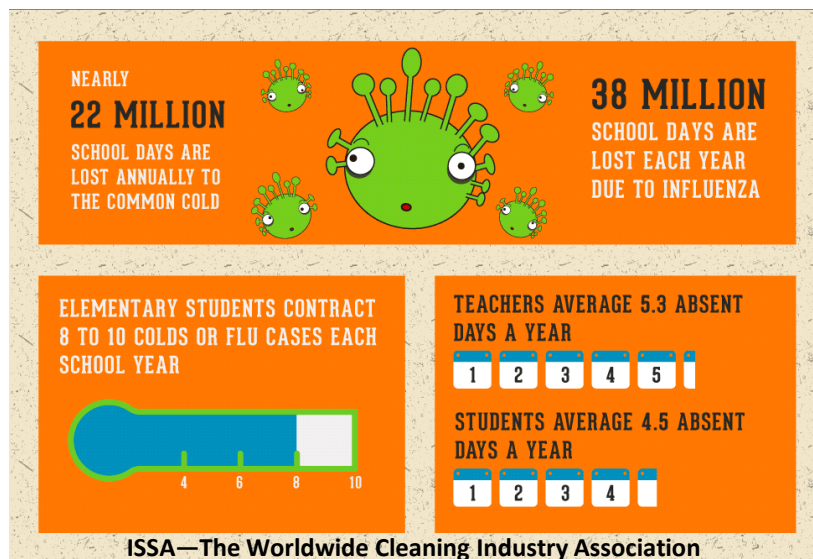


Leading the Way Towards Greener, Cleaner and Safer Schools

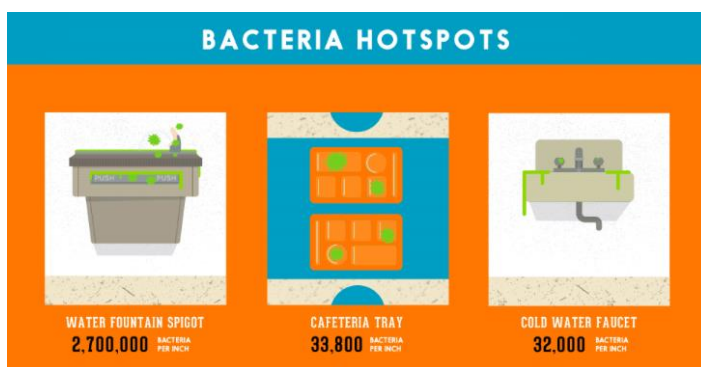
August 2020

Schools require, NOW MORE THAN EVER, more effective and efficient solutions for disinfecting.

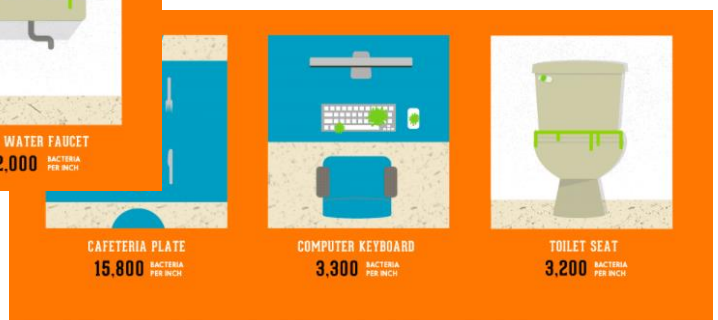
The impact of infectious diseases such as cold, flu, pink eye etc. is well documented. In some states, the chronic absenteeism can even impact school funding.



The standard for cleaning and disinfecting is in dire need of a reboot.



Research shows schools need to focus on all touchable surfaces to control infection.



Let's Look at What Leaders Are Doing for their Students, Teachers and Staff

If your school(s) are like most facilities in the US, you are using 'chemicals' that come with many health risk.

The Green Schools Initiative is just one of many sources warning administrators, managers, teachers and parent on the harmful side effects of common cleaning and disinfecting chemicals.



<http://www.greenschools.net/article.php-id=278.html>

1. **Avoid** disinfectants containing ortho-Phenylphenol (typically found in hospital grade disinfectants)
2. **Minimize** use of Chlorine Bleach (Sodium hypochlorite)
Used extensively in schools because it is relatively available. Hazardous because it is corrosive. Mixing bleach and ammonia produces a toxic gas that can be fatal. A study on occupational asthma conducted by four state health departments found 43 cases of "new onset asthma" were attributed to the use of bleach.
3. **Minimize** use of Quaternary Ammonium Compounds ("Quats"). Quaternary ammonium compounds have been linked to asthma and hypersensitivity.
There are many variants of Quats:
Benzalkonium chloride, Benzethonium chloride
Alkyl dimethyl benzyl ammonium chlorides (C12-16)
Alkyl dimethyl benzyl ammonium chloride (C14 60%, C16 30%, C12 5%, C18 5%)
Alkyl dimethyl ethylbenzyl ammonium chloride (C12-14)
Alkyl dimethyl ethylbenzyl ammonium chlorides (C12-18)
Didecyl dimethyl ammonium chloride or Dioctyl dimethyl ammonium chloride
4. **Minimize** use of Pine Oil. Currently, there are no pine oil products registered with the EPA that are effective at killing Human HIV-1 virus, Hepatitis B or C, Norovirus, antibiotic-resistant bacteria such as MRSA or VRE, or Mycobacterium tuberculosis (TB).

CHECK THE LABELS
We don't need to
Use These



Green Schools recommends 'electrolyzed water' but . . . What is electrolyzed water?



Electrolyzed Water is . . .

Safe

- EPA and FDA approved GRAS (Generally Regarded as Safe)
- No PPE required
- No harmful chemicals
- No chemical odors



Effective

- Kills flu, salmonella, E. coli, staph, norovirus, MRSA and hundreds of other infections in less time than current products
- A disinfectant that is even food safe - FDA approved to wash food. A single solution for disinfecting & sanitizing
- CDC approved chemical to kill COVID-19
- Log 5 (99.999%) and Log 6 (99.9999%) effective versus . . .



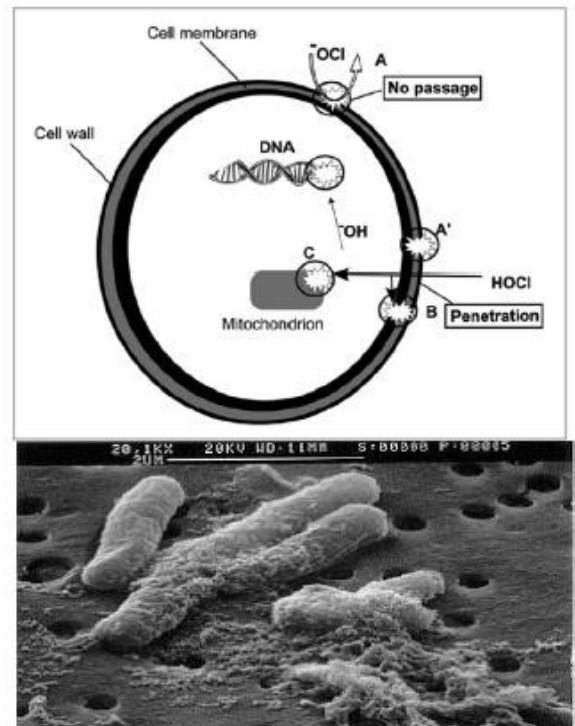
Efficient

- Saves money . . . cheaper than your budget for chemicals
- Never run out or be told that your sanitizers are 'Out of Stock' You make as much of the cleaner and disinfectant as you need
- No need to wipe surfaces after treatment - wiping can reintroduce pathogens
 - huge reduction in labor hours to treat all touchable surfaces

What is the science behind electrolyzed water?

A thoroughly researched solution that is being deployed in hospitals, restaurants, gyms, schools, assisted living and even homes.

- The active ingredient in electrolyzed water is **hypochlorous acid (HOCL)**
- **The human body produces HOCL to combat infection**
- The military has used hypochlorous acid dating back to World War I
- However, given HOCL's relatively short shelf life (e.g. 30 days) it has not been commercialized by chemicals manufacturers. And sadly, **big chemical co's don't want you to know.**




Government, Medical and Trade Journals have verified the science:

- **The CDC documented in 2008** that this technology is 80 to 100 times more effective as an antimicrobial than bleach. There is no known resistance to this chemical (i.e. new viruses or superbugs) and it is now cost effective to produce on site.
- **“Hypochlorous Acid: Harnessing an Innate Response”**
Dr. Jeffrey Williams, Professor of Microbiology and Molecular Genetics at Michigan State University
- **“Hypochlorous Acid: Harnessing Nature’s Germ Killer”**
Dr. Margie Recalde, American Academy of Optometry





There are no survivors! Hypochlorous Acid, the active ingredient in electrolyzed water is a proven, hospital-grade disinfectant.

MICROBIAL TEST DATA

Tests at two independent laboratories* have proven that Electrolyzed Water is effective to achieve significant log reductions of the following microorganisms in the specified times. One independent lab concluded that Electrolyzed Water at 50 parts per million is significantly more effective than chlorine bleach at 200 parts per million.



Types of Bacteria or Virus	Time To Eliminate	Prevents
Clostridium Difficile	30 seconds	bloating, diarrhea, flu symptoms
Enterovirus	5 seconds	Gastroenteritis & Others
Escherichia Coli	5 seconds	Gastroenteritis Cystitis & Others
Haemophilus Influenza	5 seconds	Respiratory Infections
Kiebsiella Pneumonia	5 seconds	Pneumonia
Proteus Mirabilis	5 Seconds	Gastroenteritis Uninary Tract
pseudomonas Aeruginosa	5 seconds	Infections
Pseudomonas Cepacia	5 seconds	Infections
Salmonella Typhi	5 seconds	Gastroenteritis Typhoid Fever
Methicillin-Resistant Staphylococcus Aureus	<30 seconds	Infections Endocarditis
Staphylococcus Epidermidis	5 seconds	Hospital Acquired Infections
Streptococcus Pneumoniae	5 seconds	Lobar Pneumonia, Meningitis, Sinusitis
Streptococcus Pyogenes	5 seconds	Pus, Septocemia
E.Coli O-157	10 seconds	Colitis, Anemia, Kidney Failure
Listeria Monocitogenes	10 seconds	Meningitis, Encephalitis
HIV	60 seconds	AIDS
Candida Albicans	15 seconds	Infections, Endocarditis

*Test Results Furnished and Certified By MicroTest, Agawam, Massachusetts and Toxicon Labs, Bedford, Massachusetts

- HOCL even kills ‘superbugs’ like MRSA
- The CDC documented hypochlorous acid (HOCL) is the most potent antimicrobial in the ‘chlorine’ family and in fact, is 80 to 100x more potent than bleach (i.e. sodium hypochlorite)

Is Electrolyzed Water for me?



100% non-toxic and safe for the environment



CDC, EPA and FDA approved



Return on Investment in under 1 year

Electrolyzed Water Generator

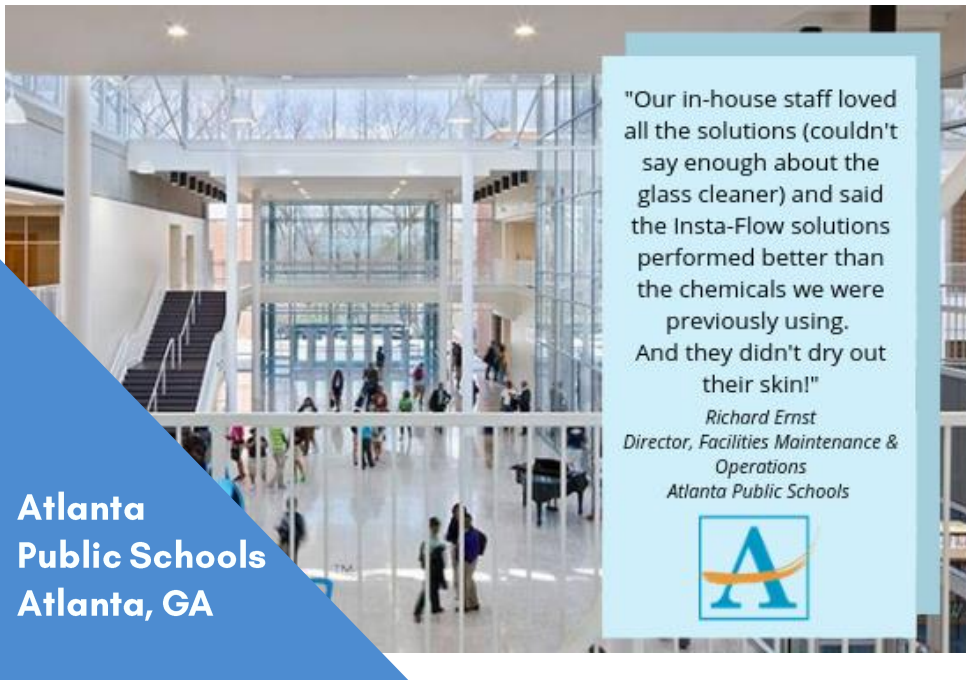


You make as much disinfectant and cleaner as you need – just in time and on demand



Your staff, students and parents will love the solution.


Electrolyzed water is being adopted in K-12 Schools



**Atlanta
Public Schools
Atlanta, GA**

"Our in-house staff loved all the solutions (couldn't say enough about the glass cleaner) and said the Insta-Flow solutions performed better than the chemicals we were previously using. And they didn't dry out their skin!"

*Richard Ernst
Director, Facilities Maintenance & Operations
Atlanta Public Schools*



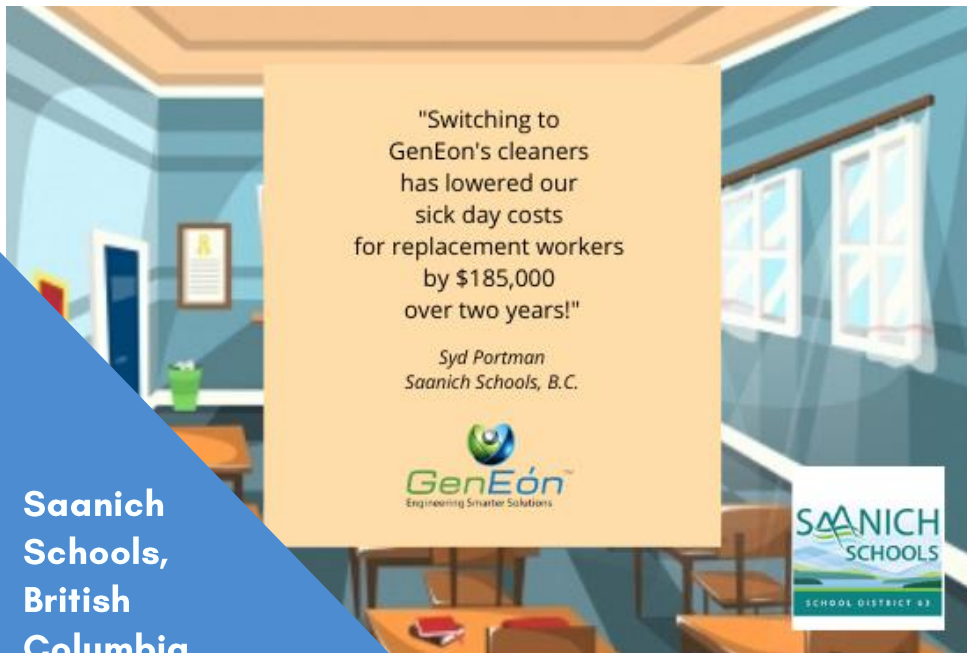
**McClure
Middle
School,
Kennesaw, GA**

GenEon
Engineering Smarter Solutions

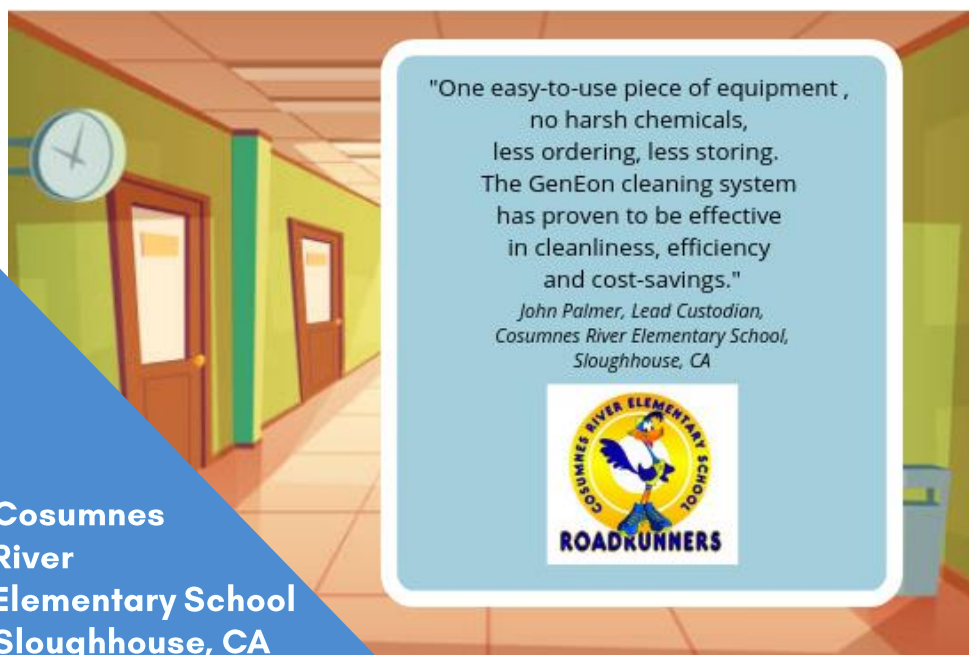
"Our goal at McClure Middle School is to drastically reduce our use of harsh chemicals, for the sake of our students' health, reduction in costs and the impact on our environment. GenEon continues to push the envelope in its technology, and we are well on our way to becoming chemical independent."

*David Hugg,
Head II Custodian
McClure Middle School,
Kennesaw, GA*

Electrolyzed water is being adopted in K-12 Schools



Saanich
Schools,
British
Columbia



Cosumnes
River
Elementary School
Sloughhouse, CA

Electrolyzed water is being adopted in K-12 Schools



Cobb County Schools saw a 48% reduction in cost of cleaning at each school that adapted GenEon Technologies. We saved enough to buy 14 additional InstaFlow Units!"

*Jim Mitchell, Custodial Director
Cobb County School District, Marietta, GA*



GenEon™
Engineering Smarter Solutions



**Cobb County Schools,
Marietta, GA**



"We have been using the GenEon system to disinfect our buildings and buses. With flu season here, we are able to hit our restrooms and hallways while students are in class. Easy to use and a benefit to CISD!"

*Kathy Hight,
Custodial Manager
Central Independent School District
Pollok, Texas*



GenEon™
Engineering Smarter Solutions

**Central Independent School District
Pollok, TX**

Electrolyzed water is being adopted in K-12 Schools

When Roberts Elementary had a mold problem, they treated some areas with MicroBan and sprayed others with GenEon solutions. Mold returned only in the rooms treated with MicroBan. The GenEon areas remained free of mold.

*Ralph Kelly, Custodial Supervisor,
Paulding County School District
Dallas, GA*



**Paulding
County
School District,
Dallas, GA**

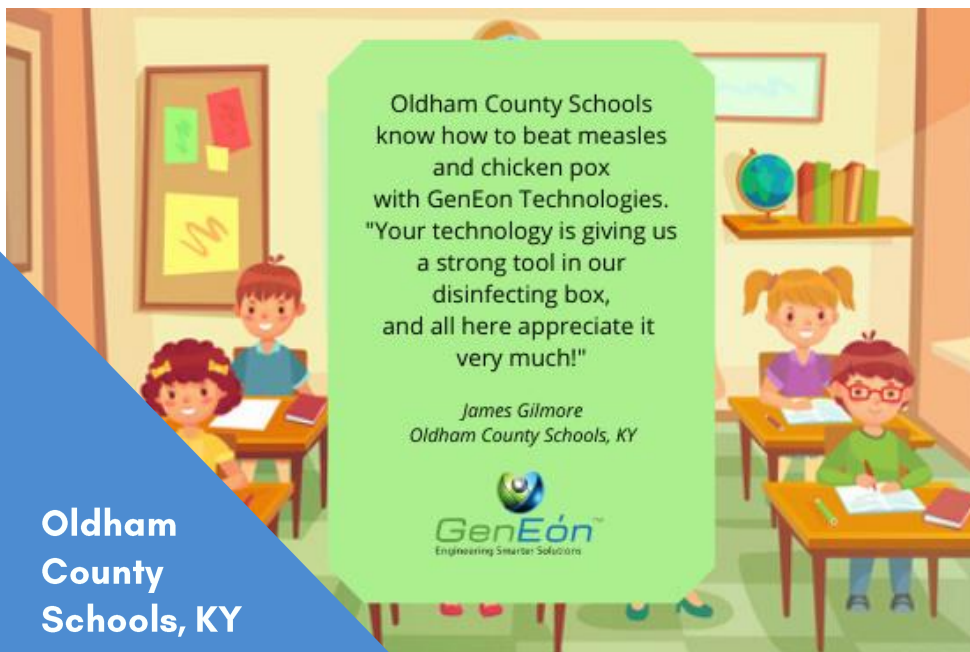


Oldham County Schools
know how to beat measles
and chicken pox
with GenEon Technologies.
"Your technology is giving us
a strong tool in our
disinfecting box,
and all here appreciate it
very much!"

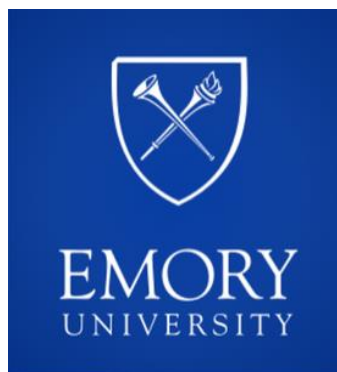
*James Gilmore
Oldham County Schools, KY*



**Oldham
County
Schools, KY**



Recent news and higher education clients



Background on Blucities

- Founded in 2017
- Approved distributor for **GenEon Technologies**
 - Selected by the **Clinical Trials Center of Middle Tennessee** for disinfecting for their first responder, COVID-19 trial
 - Installed electrolyzed water generator at large HOA in Franklin, TN
 - Installed generator in large senior living community in Spring Hill, TN
- Applicator for NASA certified indoor-air quality window coating that purifies 60 cubic meters of air for every 1 square meter of glass treated
 - Used in Fulton County Schools
 - Harvard study validates impact of indoor air quality on absenteeism and cognition
- Over 420 residential and commercial properties disinfected and deodorized in Tennessee, Georgia, Texas and Florida

Our Mission

To apply the safest and most innovative disinfecting and environmental solutions to significantly improve the health of our customers and our planet

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