

The Power of Pulsed Electromagnetic Energy

We all know the power that's found in thunderstorms and lightning and how Nature uses this **energy** to clean the air around us. But did you know that there is a product that Harnesses this Power and uses it to stop Pests, viruses, and more? This line of products, known as Sniff'n'Stop®, harnesses this energy and for years has been used for everything from stopping decay in wood to repelling insects and rodents. Recent research has shown its capability to clean the air of pathogens, and more. This **GREEN** technology is made possible by materials and processes, many of which can be traced back to the beginning of time...

Energy is found in many forms ranging from static electricity (static cling), to the electricity that powers our everyday lives, to cell phone towers that provide signals to our cell phones, and even to energy from the beating of our hearts that provides the energy needed for life itself. Whatever the form, they all have one thing in common, they all are sources of **Pulsed Electromagnetic (EMF) Energy**. This is the energy that's harvested through the use of a polymer encapsulation process known as an **Electro-Static Activated Polymer**, or **E-SAP** for short^[7]. The **E-SAP** polymer is similar to the plastic wraps used in most kitchens that use a form of static electricity to wrap and store and foods. **E-SAP** harvests this **Pulsed Electrostatic Energy** and combines it with natural essential oils to create electromagnetic **Essential Oil Negative Ion Energy Cells**, a form of Cold Plasma.^[10, 16, 17, 31]

Negative ions are microscopic charges of electrostatic energy that are often associated with lightning and the clean fresh air one experiences after a thunderstorm. These negatively charged ions clean the air by magnetically bonding to positively charged dust particles.^[12] Bonded together, the particles simply drop to the ground. **E-SAP** uses this same electrostatic energy to magnetically bond essential oils to pests.

With **E-SAP**, Negative Ions can be combined with various Essential Oils to amplify them. When used with pest-detering essential oils, **E-SAP** creates nano-size **Microscopic Pest-Detering Energy Cells** that magnetically draw the pest-detering essential oils to the unsuspecting pest. Known as Sniff'n'Stop®, this technology has been used successfully for more than 30 years to stop wood decay fungi and wood eating bacteria^[13], and to deter, but not kill, insects, rodents, birds, and more.

Recent research reported by the University of Michigan in 2020, expanded the application of this harvested energy to include its use in combating today's problems with pathogens and viruses. The breakthrough came with their finding that **Cold Plasma** (a method of generating Negative Ions) generates **Micro Shocks** that can **Inactivate 99.9% of airborne viruses and pathogens "on the fly"**^[17]. By using a High Voltage power supply to convert AC power to DC, they created a **Packed Bed Reactor** by electrostatically charging a layer of ¼" borosilicate glass beads. This created **Micro Shocks** in the void spaces between the beads. According to the researchers, "**Viruses are inactivated by these Micro Shocks as they are carried through the spaces between the beads**".^[16]

The need for a High Voltage power source to generate **Micro Shocks** was an impediment to field application of this technology. **With E-SAP, this problem is eliminated**. **E-SAP Energy Cells** generate **Micro Shocks** from Low Voltage power sources at the nano-particle level through the use of highly conductive microscopic Metal Whiskers^[35, 42] that form on the surface of each cell. Metal Whiskers have been the subject of a considerable research since the 1940's as a result of their ability to short out circuit boards and other electrical components with closely spaced electrical conductors.

Metal Whiskers at Work

E-SAP uses nano-sized particles, electromagnetic induction, and microscopic trace metals to harvest energy from electromagnetic fields. These active metals include tin, copper, zinc, lithium, magnesium, aluminum, titanium, among others. Each metal is known to produce “**Metal Whiskers**” or Dendrites. These conductive needle-like fibers are actually tiny hairs-like conductive appendages that extend from metallic surfaces^[51].

Human Hair vs. Metal Whisker

Metal Whiskers are commonly 1/10 to < 1/100 times thinner than a human hair!!!



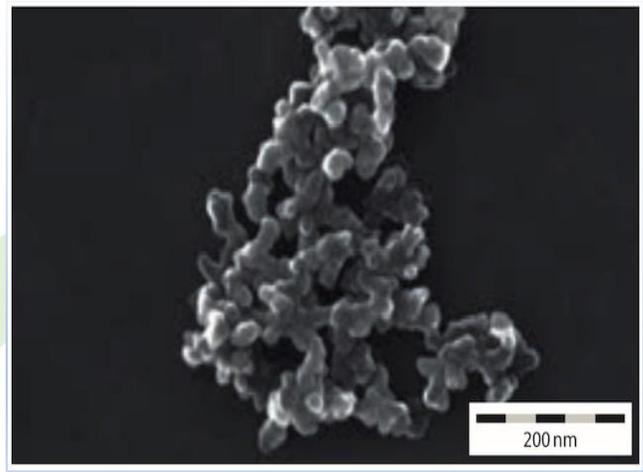
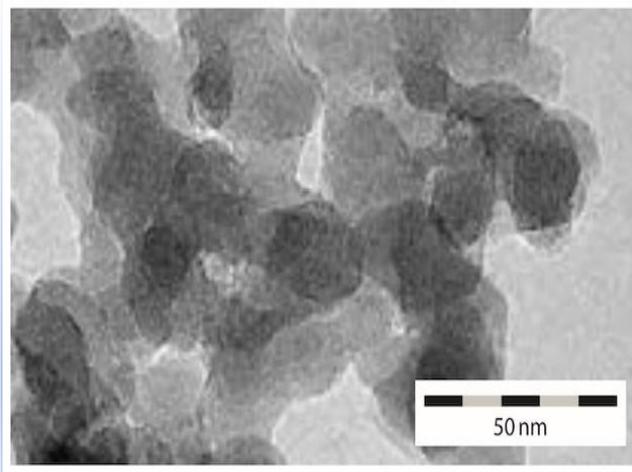
Used in the manufacture of the insulating **E-SAP** polymer, some of the whisker-prone trace metals are deposited on the outside surface of the electrically insulated **E-SAP Energy Cell**.^[35] When exposed to Electromagnetic Energy, these conductive fibers generate electrostatic **Micro Shocks** as they grow outward from the **E-SAP** particle's surface^[42]. **Micro Shocks** are continuously released from **E-SAP Energy Cells** as energy is harvested from Electromagnetic Fields (EMF).

While both Constant and Pulsed sources of **EMF** can create **Micro Shocks**, use of **Pulsed EMF** reduces the amount of energy required.^[31] The sources of **E-SAP Pulsed** electromagnetic energy span a range of frequencies (i.e., Electrical Devices and Power Lines @ 60hz, Cell Phones and Cell Phone Towers @ G-hz, and the Human Body @ \approx 1hz). **E-SAP** uses photocatalysts^[36, 37] that are activated by a range of **EMF** frequencies to extend the life of the electro-chemical reaction.

Harvesting Energy from Electromagnetic Fields

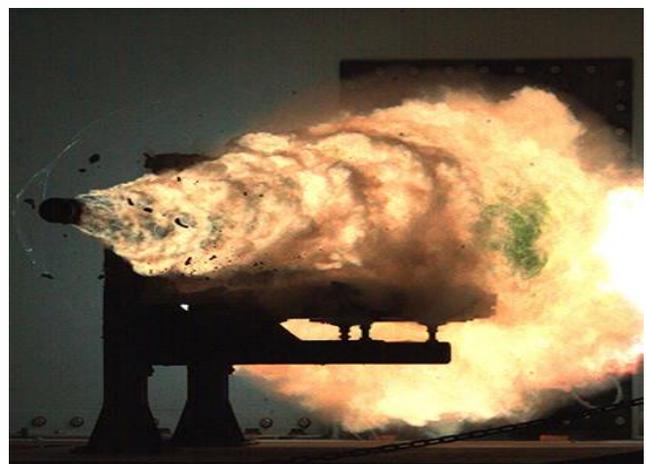
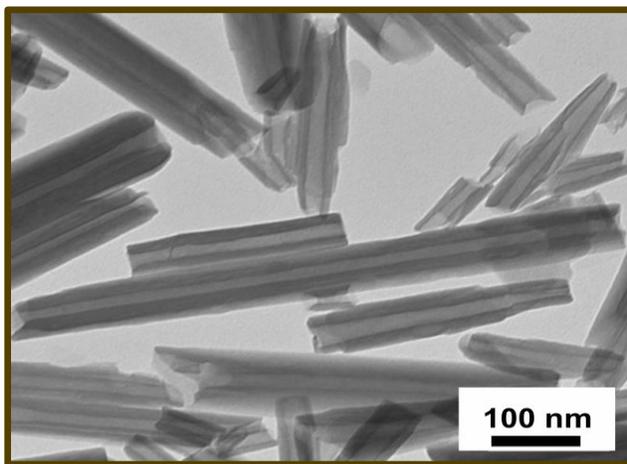
E-SAP's electro-chemical reaction inductively harvests electromagnetic energy. Dissimilar metals encapsulated inside porous particles^[43] are used to create nanosized **Galvanic Energy** cells. Together, these cells form a type of **Energy Cell Packed Bed Reactor**. Nanosized **Energy Cells**, ranging in diameter from 12 – 14nm, are used to fill the cells of larger and larger micron size porous particles. Placed in series, they continue to amplify the energy.

Two types of natural porous nanoparticles are used to collect and amplify **E-SAP** energy; spherical and tubular. Both are used with the **Metal Whisker** technology to create **Micro Shocks**.



The Railgun Energy Amplification Technology

E-SAP uses a proven electromagnetic energy amplifying technology known as the **Railgun**. Railguns are high-powered military weapons powered **exclusively by Pulsed Electromagnetic Energy**.^[34] Under development for more than 50 years, Railguns consist of two parallel conductive metal rails with a non-explosive projectile loaded between them. Fired by **Pulsed Electromagnetic Energy**, the projectile can reach speeds in excess of Mach 7, and hit with sufficient force to destroy a ship more than 125 miles away.^[34] All of this is accomplished by using **the Power of Pulsed Electromagnetic Energy**.



E-SAP Encapsulates Nanosized Spherical Particles to Create Energy Cells

E-SAP's uses a nano-scaled version of the **Railgun** to amplify the power of Essential Oil Negative Ions.^[18,20] Rather than conductive metal rails and projectiles, **E-SAP** uses clay nano-tubes, filled with **E-SAP** activated **Energy Cells**, that are discharged by **Pulses of Electromagnetic Energy**. These **Energy Cells** are used in a number of different applications, including in conventional room diffusers to clean the air of airborne pathogens and viruses,^[12] and with antiviral essential oils, to Boost the Immune System.

Essential Oils for Boosting The Immune System

Aromatherapy is the field of medicine that uses Essential Oils to treat and prevent diseases. Research has shown that when atomized, certain Essential Oils are able to boost immune system functions at both the cellular and molecular levels^[44]. **E-SAP Energy Cells** found in the **THE ENERGIZER DIFFUSER OIL** enhance the capability of any Essential Oil by simply adding them to **THE ENERGIZER**. Recommendations for Immune System Boosting Essential Oils can be found at a number of sites on the internet.^[49]

Stopping Airborne Pathogens by Blocking Available Respiratory Sensors

Like an aircraft in flight, the human Respiratory System is made up of an array of sensors and receptors that are continuously being Positively Charged by air friction as air flows through air passageways^[38]. With **E-SAP's** essential oils being Negatively Charged, blocking pathogens cells from attaching to available receptors is accomplished by simply breathing in **E-SAP's** pleasant-smelling **Negatively Charged, Essential Oil Energy Cells**.^[39]

<https://www.dropbox.com/sh/xiwj5w4cs6642vu/AABi0lzhQ4!1JrgSlbjDiYvVa?dl=0>

The above described **E-SAP** technology has been an integral part of all **IPOLE®** and **Sniff'n'Stop®** Systems for more than 30 years. These products have been used successfully to safely deter insects, rodents, and other pests.^[7,8] Numerous other medical and commercial applications of **Cold Plasma, Micro Shocks**, and **Essential Oil Negative Ions** can be found on the internet.

ICORP-IFOAM Specialty Products Corporation is committed to making this important technology available throughout the Industry.

Please contact us if you have any questions.

ICORP-IFOAM Specialty Products Corp.
www.SNIFFNSTOP.COM

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Controlling Pests in Today's GREEN Environment

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Supplemental List of ICORP and Sniff'n'Stop Products That Use E-SAP Technology

The following is a list of currently available products that use **E-SAP** to create **Energy Cells**:

Woodpecker Hole Repair and wood decay prevention. Used successfully for more than 30 years to structurally repair woodpecker damage. Creates a Cold Plasma Packed Bed Reactor inside IPOLE-repaired sections that stops decay and deters woodpeckers.

Wood Pole Paint stop and prevents wood decay and woodpeckers.

Granule Pouches and **Peel'n'Stick Pouches** keeps roaches and other disease carrying insects out of household cabinets and from areas underneath appliances like refrigerators, ranges, etc.. In Power and Telecom equipment, used to keep rodents out of cabinets, pedestals, and other sensitive areas.

Carpet Dust keeps fleas, and other insects out of carpets.

Chew Breaker Paint keeps pets, pests, and rodents from unwanted chewing.

Cold Fog used in misters, keeps mosquitoes and other insects from outside areas.

Flea & Tick Powder keeps fleas and ticks off of dogs. Also effective against bedbugs.

Dusting Powder is a non-toxic powder that replaces pesticides in gardens and other agricultural applications. Can also be mixed with liquids for use in aerial spraying applications. Used in place of electrostatic sprayers.

Shampoo Additives are mixed with an equal amount of shampoo to deters flies, fleas, ticks, lice, and other insects from humans, horses, and other animals.

Coarse Granules, applied in yards, time-releases micro shocks that make yard bugs and other pests go away.

Multi-Purpose Spray is used on table tops to keep flies, roaches, and other insects away. Can also be applied in mop water for use on hard surface floors, and on baseboards to keep mice from using them as runways.

Personal (PPS) Protection Sprays and **Natural (NPS) Protection Sprays** give insects micro shocks. Keeps mosquitoes, ticks, chiggers, and other insects, from biting. A little goes a long way.

Treated Sponges wrapping around Power and Telephone cables, creates an inductive charge that keeps rodents from cables in ducts, risers, and street lights.

Cable Lubricant Additive to be mixed as an additive with commercial cable lubricants. Leaves a film when it dries that keeps rodents from chewing on wires and cables.

Cable Paints keep rodents from chewing on wires.

WASP AND BEE SPRAY forces wasps and bees to immediately leave.

THE ENERGIZER DIFFUSER OIL cleans air of pathogens.

BED SPRAY keeps mites and Bedbugs away.

TOPICAL CREAMS mix with suntan and other creams and lotions to keep ticks, chiggers, and other insects away.

