

HEALING EFFECT OF ONDAMED

SPREADING ELECTRONIC ENERGY BY SEMICONDUCTION

Dr. Wolf-Dieter Kessler

Summary:

The perineurium (skin around all nervous fibers) is an array of **cells, arranged with regularity in close proximity, as for example in a crystal lattice. The perineurium builds up a low voltage current.**

Ondamed is placing an electromagnetic induction field on the existing low voltage current of the perineurium. The induced magnetic field causes a transversal current in addition to the already existing low voltage current of the perineurium. This phenomenon is known as **Transverse Hall** effect in physics. The spreading of energy and resulting tissue irritation can be demonstrated by pulse reflex and ONDAMED. Tissue excitation, according to the Hall effect is based on electronic conduction to proteins which respond as semiconductors.

Apparently, to support possible healing, a larger community of matrix, cells, proteins around diseased tissue must be jump started by electronic conduction. As proteins act as semiconductors, picking up energy (electrons) as needed to improve function, and contribute largely to keep up an electrical 'life field' as postulated by Burr (Yale University). Electronic conduction (information transfer) is regarded to be one of the live forces in living matter.

[Albert Szent-Gyorgyi's electronic conduction:](#)

Albert Szent-Györgyi (September 16, 1893 – October 22, 1986) was a Hungarian physiologist who won the Nobel Prize in Physiology or Medicine in 1937 for his discovery of vitamin C. In

1941, after extensive research of the insoluble scaffoldings of the matrix he stated that:

“if a great number of atoms be arranged with regularity in close proximity, as for example in a crystal lattice, single electrons cease to belong to one or two atoms only, and belong instead to the whole system. A great number of molecules may join to form energy continua, along which energy, namely excited electrons, may travel a certain distance”(1941)

The perineurium of the nervous system represents a scaffold of cells which completely encase all nerves.

It's cells are arranged with regularity in close proximity, as for example in a crystal lattice.

In other words, the cells represent a great number of regularly arranged cells, molecules and atoms. The perineurium acts as a conductor. A conductor is a substance like a metallic wire, that conducts electricity.

The perineurium, the thin skin around all nerves of our nervous system, not only functions as a conductor, but also sets up a low voltage current. This current is the current of injury which controls injury repair (Robert O.Becker 1990, 1991). Oscillations of the direct current field, called brain waves, direct the overall operation of the nervous system (Becker, quoted by James L.Oschman, 1988)

Ergo: the low voltage current of the perineurium is building up a **tranverse** electric field (electrons spreading transversely!) if a perpendicular magnetic field is placed on that current. In other words, the perineurium, which is the motor for injury repair, will enlarge it's energy field transversely if we impose a perpendicular magnetic field on it. This explains the wonderful and astounding capability of the ONDAMED to improve the energy in living tissues of - for instance - patients with osteoporosis. It also explains what Rolf Binder has observed for many years: when a

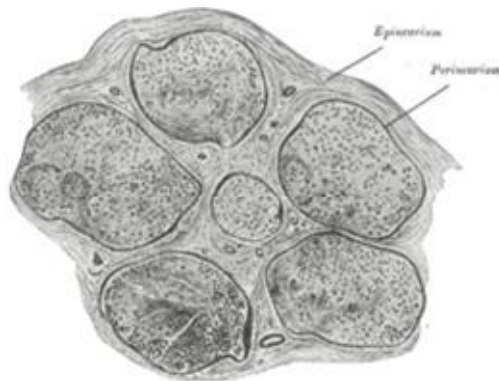
certain area has been found by ONDAMED and pulse feedback, then treated subsequently with same frequencies, the area will enlarge specifically, according to the specific tissue needs/ 'damage' of the patient.

The phenomenon to set up a transverse electrical current by a another current after placing a perpendicular magnetic field on it, is known in physics as :

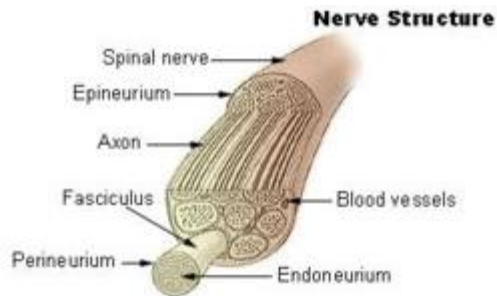
TRANSVERSE HALL EFFECT

development of a transverse electric field in a solid material when it carries an electric current and is placed in a magnetic field that is perpendicular to the current. This phenomenon was discovered in 1879 by the U.S. physicist Edwin Herbert Hall. The electric field, or Hall field, is a result of the force that the magnetic field exerts on the moving positive or negative...

Below: cut through the tibial nerve with perineurium



Below: Nerve structure of a spinal nerve with perineurium



Robert O. Becker discovered that the perineural system is sensitive to magnetic fields. Consequently **semiconduction** takes place, something Szent-Gyorgyi already postulated in 1941. He found a 'dual nervous system' composed of the classical digital (all or none) nerve network, the focus of modern neurophysiology, and the evolutionary more ancient perineural system, which operates on direct current. It sets up a low voltage current, the current of injury, and the oscillations of the direct current field, called brain waves, which direct the overall operation of the nervous system (Oschman, 1988)

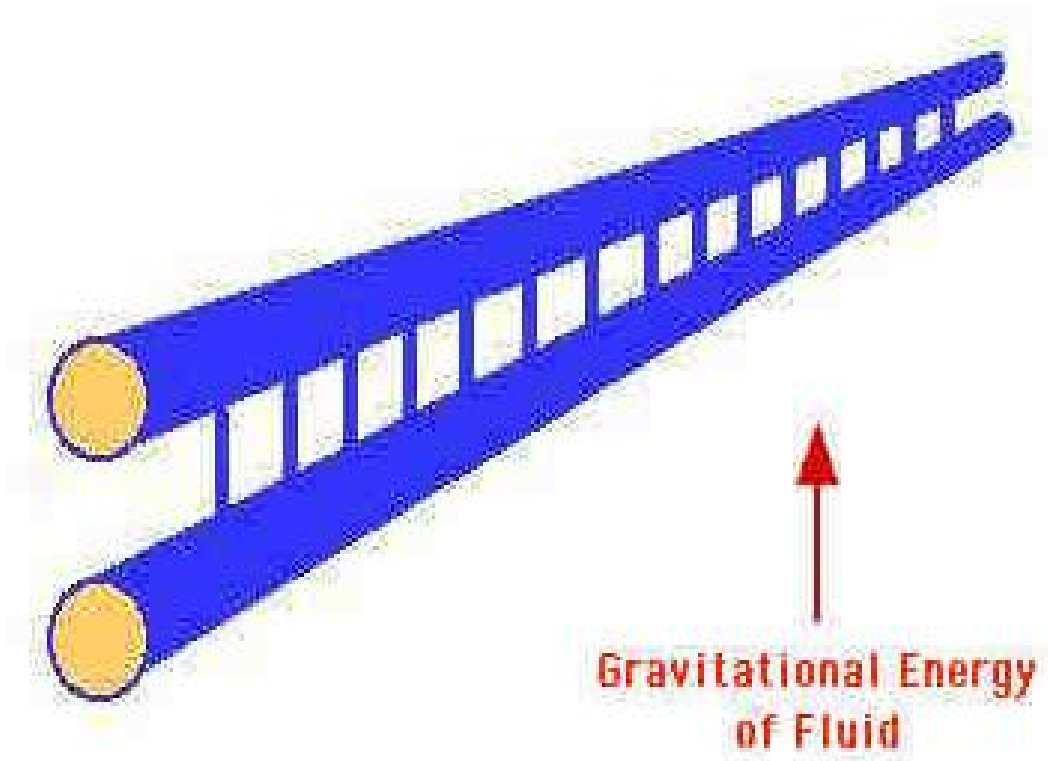
Before you go below to find explanation of semiconduction . you need to understand, that physics defines ONDAMED as both a **complementary and integrative** medical device. It is by all means not an alternative device. To understand the terminology:

~Complementary means that the new treatment is intended to be used in addition to the standard proven treatment option to improve what we already know to work~

~Integrative means that the treatments are designed to work together a blending of the best of both traditional and non traditional options~

~Alternative suggests that the treatment is to be used instead of known and accepted treatments~

For comic relief the two pipe model of semiconductors:

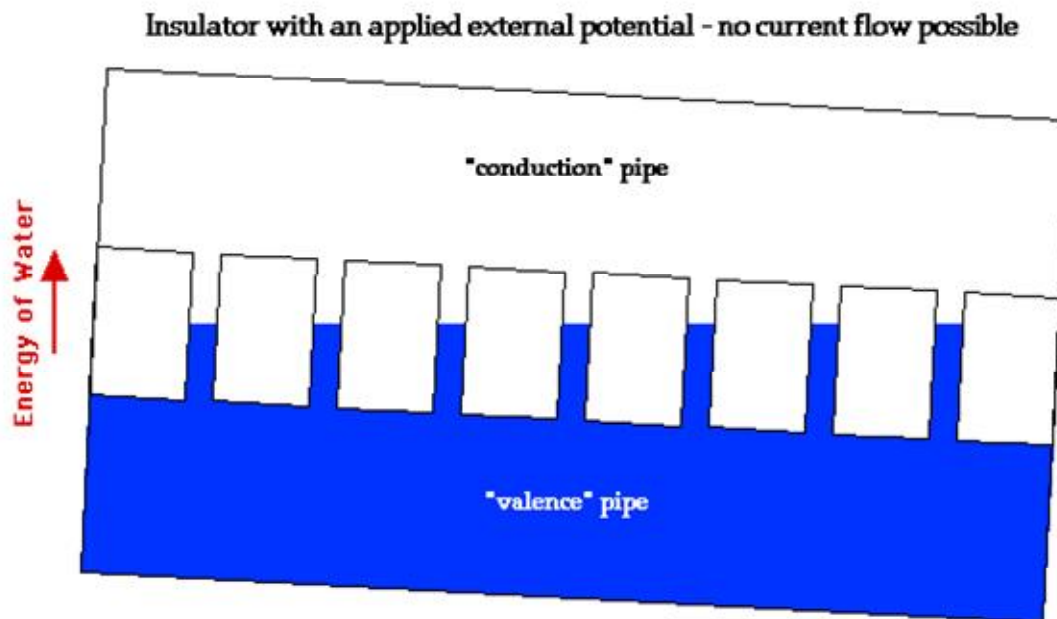


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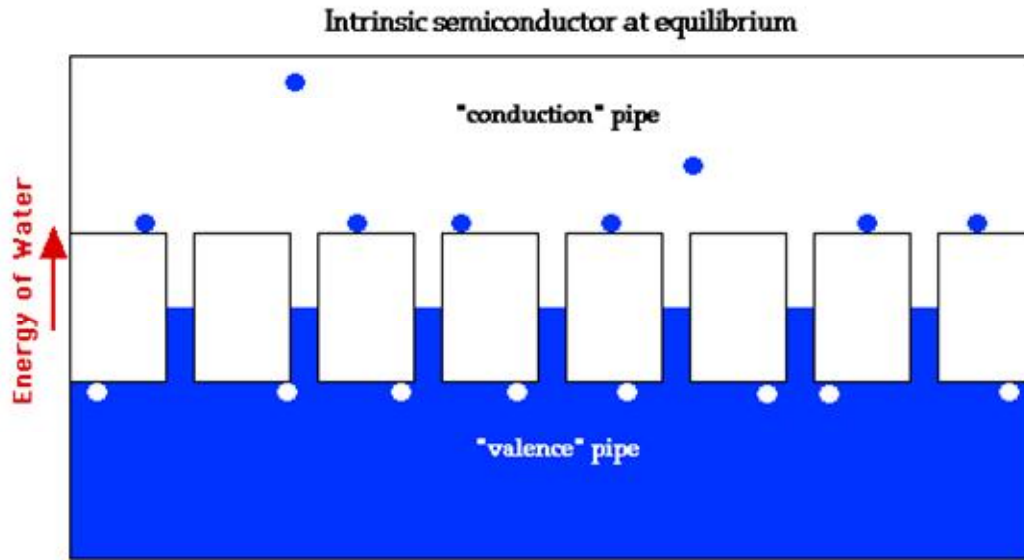
Lecture Notes

Insulation, Conduction and Semiconduction

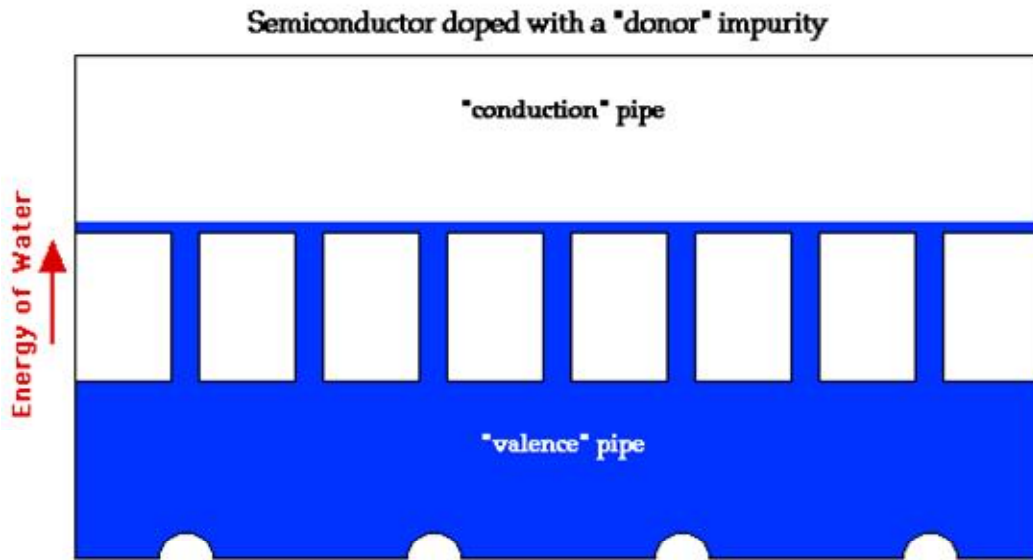


Below: Each little blue dot could be regarded as an electron, proton, or neutron. They are all 'Fermions', which means: each of them has a slightly different energy status. Consequently each of them has a different potential to deliver current to the semiconductor, which will then conduct for a time

being.

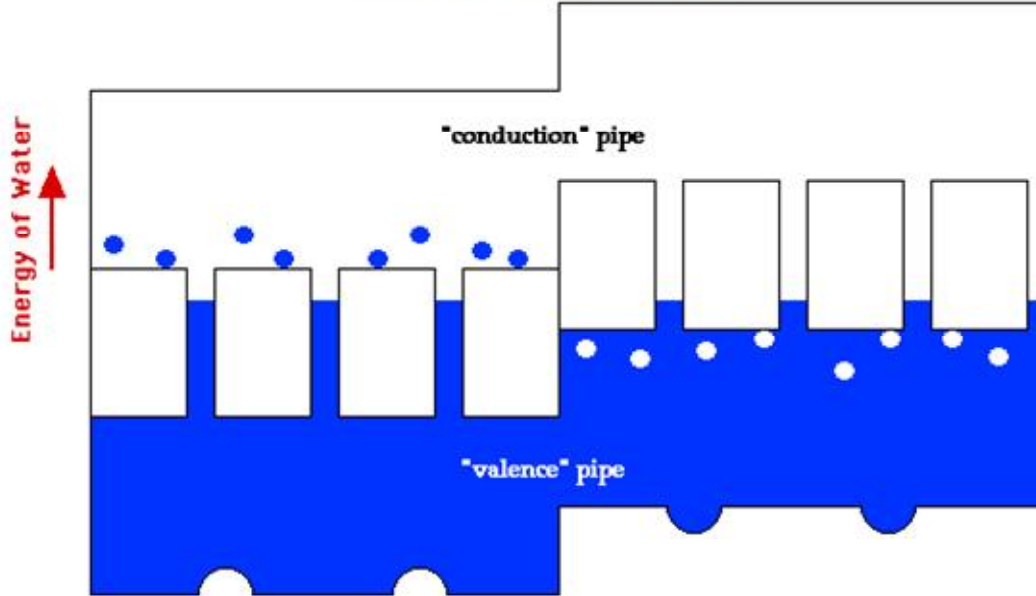


Thermal Excitation

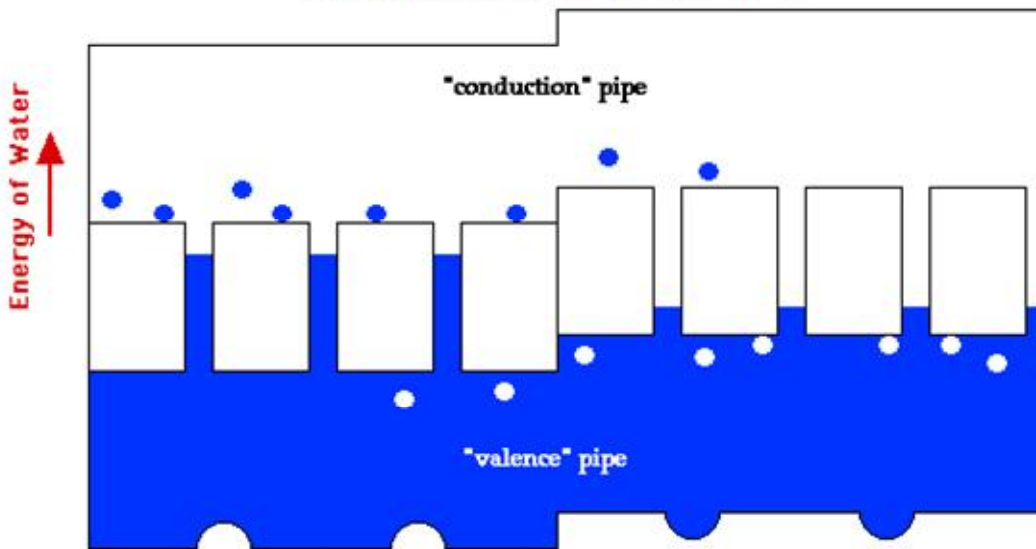


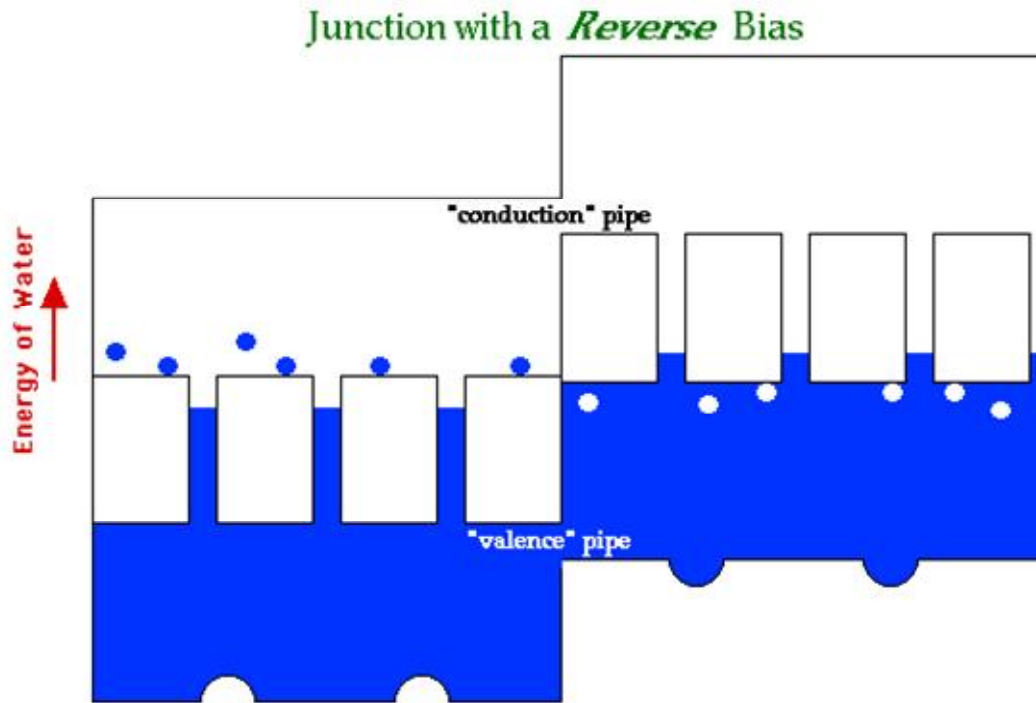
Chemical "Doping" (n-type)

Junction at Equilibrium



Junction with a *Forward* Bias





The bottom line is that the fluid level in these fluid flow systems plays the same role as the Fermi energy in understanding the mechanisms of semiconductor conductivity.

In quantum mechanics, a group of particles known as fermions (for example, electrons, protons and neutrons are fermions) obey the Pauli exclusion principle. This principle states that two identical fermions can not be in the same quantum state. The states are labeled by a set of quantum numbers. In a system containing many fermions (like electrons in a metal) each fermion will have a different set of quantum numbers.

References:

Engineering Sciences 154, Electronic Devices and Circuits, Lecture Notes, Insulation, Conduction and Semiconduction
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Wikipedia, the free encyclopedia: Fermi Energy

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