



POLLUTION: ROOT CAUSE OF WARS

Uday Bhawalkar
B.Tech, Ph.D. (IIT Bombay)
drudaybhawalkar@gmail.com

Dr. Leo Rebello's Note: In this paper, Dr. Uday Bhawalkar talks of Eco-Logic that is going to help environment, agriculture, water, energy, economy, health and innovation. Eco-Logic also helps us understand the root cause of crime, quarrels and wars, of negative human traits and also source of human creativity. This nano technology might help us in increasing the carrying capacity of the earth by tackling the challenges that we are facing today, thus ensuring supply of food, water, energy, clothing, housing, health, education and peace for all.

Polio, as we know, is caused by exposure to pesticides and not by the poliovirus. The Black Plague in Europe was also not caused by germs carried by rats. Humans were dying of something else - poor sanitation, polluted water etc. This paper gives the chemistry of war as also the solution. I have seen this Eco-chip work in Mumbai and Nasik. Wisdom makes life endurable. Biosanitizer is Nature's wisdom in a Chip. This could well be the find of the century.

Introduction: Wars are bigger version of quarrels. Both originate in angry minds. According to ancient Indian literature, six vices of mind are mentioned, viz. sex (*kaam*), anger (*krodha*), greed (*lobha*), arrogance (*mada*), temptation (*moha*) and jealousy (*matsar*). These appear to be listed in increasing order of mind pollution. Today, we should add one more vice that comes at much higher level of mind pollution. This vice is actual 'violence that leads to killing' (*hinsa*).

Polluted human body can easily precipitate quarrels leading to violence. It is found that animals that are kept at high stocking density (and hence exposed to higher amount of ammonia generated from their excretory products), show more violent behavior than those grown at low stocking density, kept on a healthy vegetated soil. Also it is a common experience that we feel fresh and become 'creative' after a 'bath with clean water'. We use water to flush pollution out of our body, to clean food etc. This function can be effective only to the extent our water source is clean.

Our water comes primarily through rain. Rain-washes the air through which it falls. Hence quality of water depends primarily on the quality of air. No wonder the rain quality has deteriorated over the past several years after fossil fuels were used in cold countries where plants show only seasonal growth. This rain quality spoilage has been in terms of acids that form when water dissolves the oxides of carbon, nitrogen and sulphur. Acid rain is less of a problem where natural biomass fuels are used by farmers. Now, after industrial use of fossil fuels, India is also trying to catch up with the pollution trend in advanced countries.

India is one country that had flourished rich civilization and culture, also material prosperity over a long period of history. We never attacked any other country and were always attacked by invaders coming from ecologically poor regions. We also pardoned them repeatedly and tried to be friendly with the invaders.

Methodology: This analysis is derived from Eco-Logic that facilitates selective de-learning and re-learning. De-learning of knowledge sold to us through commercial interests is first necessary before we decide to re-learn fresh concepts that are derived out of Eco-Logic, the logic of Nature. Eco-Logic is a grammar of Nature. Its mastery allows us to be connected to Nature and learn from her evolutionary experience of about 5 billion years.

Eco-Logic can be stated as: (a) Nature is well designed. (b) Every organism has a role. (c) Body structure and function is to facilitate its role. (d) Population of each organism is controlled by the task before the organism. (e) Organisms could be divided into two categories. They are either resource converters (K-selected) or waste controllers (r-selected). (f) K-selected organisms are hidden, quiet or pleasant, whereas the r-selected organisms are visible, highly mobile or unpleasant in their behaviour. (g) Pollution is an indication of waste of resources. (h) Pollution controllers (r-selected organisms) cause human suffering, to variable extent, to draw our attention to the waste and appeal for the preventive action. (i) The smaller the organism, the more productive it is. (j) Predator culls its prey selectively to remove defective young and ineffective old, thus increasing productivity of the prey. (k) Each niche (function station) has one organism with specific function and specific food. (l) If two organisms try to occupy the same niche, the more effective one gets selected. (m) Successful breeding is an indication that the organism is playing its role effectively. (n) Ecosystems are self-designed and self-improving. (o) They are self-controlled, aimed at resource conservation and sustainability. (p) Each organism gives an additional capability to the ecosystem. (q) Biodiversity, thus, improves the ecosystem performance. (r) Mother Earth behaves as a self-controlled ecosystem. (s) Even the abiotic components, such as lightening, storms, tornadoes, floods, droughts, global warming, ozone layer depletion, forest fires, earthquakes and volcanoes are corrective in action and contribute to the stability. (t) These unpleasant phenomena could be managed best by going to their root cause: the waste of resources by man.

Eco-Logic was developed through the following methodology: Spending 12 years in rural area, learning from Nature and farmers, after a B.Tech. in chemical engineering (1973) from IIT Bombay. Traveling internationally to participate in conferences, thus learning from scientists of diverse disciplines. Eco-Logic is an outcome of the multi-disciplinary Ph.D. thesis completed and submitted by the author in 1997, to the chemical engineering department of IIT Bombay. 3 Indian and 1 US patent.

Apart from the innovation (Soil BioTechnology) that emerged from author's work, the latter also recommended that the two polluting chemical industries, viz. chemical fertilizers and pesticides, be stopped because Nature wants us to use eco-logical alternatives. Incidentally, both these industries are meant to supply war machinery (ammunition and chemical weapons) and were sold to help the farmers after the second war was over.

Illusion of Chemical Fertilizers: Healthy soil that has earthworms, can supply all the required plant nutrients. This is how Indian agriculture has sustained over the past 10,000 years. Indian agriculture started losing its productivity gradually after the rain quality got deteriorated. Acidic rain started reducing the earthworm activity. Chemical fertilizers appeared on the scene when Indian soils were showing reduced productivity.

But these chemical fertilizers work by mining the soil organic matter, this mining is facilitated by increasing the nitrate levels in the soil, much beyond the genuine nitrogen-need of the plants. This mining produces the carbon dioxide, which is the most limiting plant nutrient. Increased crop production of so-called 'green revolution', thus, depends on mining of soil's carbon reserve. No wonder, this method of agriculture is hardly sustainable, as shown in Punjab, Haryana and other tracts where it was intensively promoted.

Intensive chemical agriculture also results in production of unhealthy food with residual nitrates. Such food gets spoiled readily and has to be consumed in large quantity because it is nutritionally inferior. It also creates higher craving for proteins (costly for Nature to produce).

Plants that are fed with chemical fertilizers also get higher pest attacks because pests are the natural mechanism to scavenge wasted nitrates. Sanitation pests such as cockroaches, ants, rats and mosquitoes, too, look for wasted nitrates.

Organic farming (that shuns chemical fertilizers and pesticides) was actively promoted during the first and second world wars and there are published reports in the medical journals that people became healthier due to consumption of organic food. Both health of body and mind, thus, depends upon the quality of food, water and air.

Folly of Pesticides: When chemical fertilizers are used, pest attack follows logically. If this is fought using chemical weapons, we end up using food that is contaminated with both nitrates and pesticide residues. Pests, themselves soon learn how to digest the toxic sprays and farmers are advised to switch to more potent sprays, which is not only unwise, but also costlier.

Sanitation Pests: It is well understood that these come in 'unclean' environment. Actually, they are scavengers of Nature and consume the dirt and help clean the environment. Trying to kill them using chemical weapons is an eco-crime.

Pests were branded evils only to promote sale of pesticides, which were originally the chemical weapons of the first and second world wars. The war machinery has to be kept alive for the next war, hence imaginary foes (pests) were created.

When the Soil BioTechnology and its upgraded version, the Biosanitizer Eco-chips are used, the farm productivity is found to be better than the chemical counterpart. Food quality is also superior. Sanitation pests are also rare. Men and animals consuming the rich organic food show healthy body and mind that alone can support rich culture.

It is wrong to assume that rats cause plague and mosquitoes cause malaria or dengue. These scavengers come to clean the land or aquatic system and in fact, fall sick when they get overloaded. The sickness comes logically to selected humans that are polluted. The best way is to keep our land and water ecosystems clean by using the most convenient and compact Biosanitizer Eco-chips.

Biosanitizer Eco-chip is 'ecology on a chip'. 100 mg of Biosanitizer eco-chip has the same capability as one acre of natural forest, of using inorganic nutrients (salts) and CO₂ as food and produce eco-resources (food/fuel and oxygen).

Inorganic pollution (N, P, sulphates, chlorides, sodium, heavy metals, etc.) get reduced through utilization as 'food for plants'. This action also needs import of CO₂ if it is not available in the system. This method of converting wastes into resources is common feature of Nature.

Biosanitizer, thus, can help us solve two burning problems: pollution due to saltwater and greenhouse gases. This reaction also uses 'warmth' as third raw material, thus producing natural cooling effect. This is sort of bio-refrigeration or bio-air-conditioning. These chips are insoluble in water and act as 'bio-catalyst'. They have stabilized plant enzymes that have a long life.

Large-scale Demonstrations: This technology has been demonstrated on large scale in India and 12 other countries in live projects that have created confidence through their successful long term operation of 5-15 years. The technology is simple to operate and maintain. It sustains itself, by converting pollution into resources. This technology has shown applications in the following areas: (a) Water treatment without use of chemicals and without producing any residue or pollutant. (b) Wastewater treatment without use of any machinery or electricity, without producing any residue or pollutant (greenhouse gases). (c) Organic solid wastes management,

without producing any residue or pollutant. (d) Air pollution control by treatment of fossil fuels. (e) Management of so-called natural disasters, these actually are the outcome of human interference. (f) Cleaning of human mind pollution, this is due to intake of polluted food, water and air. Increase in human mind pollution, in fact, leads to bad habits, quarrels and finally, wars.

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Conclusion: Healthy prosperous culture is based on healthy environment that provides the consumers with healthy food, water and air. This automatically promotes healthy ecosystem for growth, prosperity and culture. Current industrial culture is wasteful and hence unsustainable. Recession haunts such a system periodically. This creates further tension that leads to fear, insecurity, anger, and wars. It is time to understand how the Nature is eco-logically designed and follow her laws. Biosanitizer can build age-old Indian culture that showed sustainable existence over the past 10,000 years. We should not repeat the mistakes of others; in fact, should lead the world through eco-logical practices.



WAR ON YOUR HEALTH Dr. Leo Rebello

"If the people let government decide what foods they eat and what medicines they take, their bodies will soon be in as sorry a state as are the souls of those who live under tyranny".
- Thomas Jefferson

"I am convinced our modern world is crazier than we can possibly imagine" says Health Ranger Mike Adams of www.naturalnews.com. The following four recent examples proves him right: -

(a) The state of Minnesota orders a parent to poison her 13-year-old boy with chemotherapy because the court believes chemo is the only treatment for cancer that works (parental rights be damned). And the media goes along with it instead of questioning it.

(b) London-based epidemiologist Prof. Malcolm Law says that all those above 55 years be put on toxic blood pressure drugs, regardless of the health status of the person.

Richard McManus, from the University of Birmingham, and Jonathan Mant, from the University of Cambridge, back him. They said the findings supported the idea of giving everyone over a certain age a "polypill" - a drug that would include a statin to lower cholesterol as well as treatment for blood pressure. Law is one of the pioneers of the polypill, which he says would be an effective way to cut the number of heart attacks and strokes in the UK. <http://news.bbc.co.uk/2/hi/health/8057850.stm> Now millions will be put on "polypill".

(c) Massachusetts Senate passes a police state law that allows for mandatory vaccinations of all citizens and a \$1,000 / day fine for those who refuse to cooperate. It also legalizes health care "interrogations" of citizens, forced entry into their homes without a warrant, the on-site destruction of buildings or objects suspected of harboring the virus, the government kidnapping of family pets, "involuntary transportation" of people into quarantine camps and much more.

(d) Soy protein is contaminated with a toxic chemical solvent Hexane that's a byproduct of gasoline refining. Hexane is found in soy protein that's used in infant formula, protein bars, 'veggie' burgers and other soy products. Hexane is a lethal neurotoxin.

Klaus Ferlow, Master Herbalist, from Canada, and Pat Rattigan, Naturopath from UK, report that it is the same pattern there too. This confirms what David Icke says: