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EAGLE FEATHER RESEARCH NEWSLETTER

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Welcome, Willkommen, Bienvenue, Bienvenidos, Benvenuto. Welcome to our second edition of 2009. Perhaps the most important immediate issue for the XXI century is the damage that humans have done to the ecosystem and the disastrous global effects it is having to this fragile and interdependent system. As such, we have created three columns entitled Green Earth that are divided into *The Environment, Renewable Energy and Conservation/Gardening*. Studies have established that in a consumer driven society there is a great amount of waste that subsequently impacts our environment. In *Green Earth II*, there is valuable information on the oceans that are often overlooked which cover 70% of the earth. How much of this fragile system is contaminated? It is now clear that only 3.7 % of the oceans have not been impacted negatively by humans. Toxic waste and algae are creating tumors and cancers in sea lions, otters, and fish from run offs of factories. Coral reefs are dying. 90% of all wetlands and nurseries for fish have been eliminated due to human's incessant development that has no limits. 99% of conservation dollars go to land causes and only 1% to ocean causes. Yet the oceans are a major source for cleaning the environment by reducing carbon dioxide. The seas now have risen, warmed and acidified causing further imbalance in Nature.

This article is followed by a long and detailed report that comes to us from the National Geographic Society. It reviews ***Air Pollution, the Causes of Global Warming, Acid Rain, Deforestation, Global Warming Solutions, Fuel Cells, and Natural Disasters***. The information contained in this column is thirty six pages in length. Still, we hope to provide new data as it becomes available. If you need to learn more visit the national geographic.com. In it you can obtain more information on *avalanches* or cascades of snow, ice and rock, *hurricanes* or vast storms that wreak havoc, *tornadoes*, Nature's most violent storms, *earthquakes*, or events in the earth's crust that cause portions of the

earth to move, *lightning* or great striking electric bolts and *Tsunamis*, or giant waves of surging destruction.

In *Green Earth I*, we cover Conservation/ Gardening. As we begin the XXI century it is vital that all citizens of this world begin to have consciousness in Conservation. We need to make our countries clean, less wasteful and subsequently healthier and the density of population impacts the land. We begin by offering tips on conservation. You can decrease waste of water by not using spray or sprinkler systems...use a drip system. The water goes to the plants and not to condensation into the air. Catch or capture rainwater via gutters and pipes into rain barrels or tanks. Do not let water run for five minutes while you are brushing your teeth. This wastes 20 gallons. A leaky faucet in a month can waste 500 gallons. Energize your home. Begin by retrofitting your windows with triple pane glass. Double your insulation in your attic. Get an air conditioner that is energy efficient. The same is true for all your appliances. Begin to decrease your grass in you front lawn. Plant trees and shrubs for the wildlife. Get rid of invasive plants that are not native to your region. Do not throw away organic left-overs, lettuce, apple cores etc: instead use them to create natural compost. Create your own garden, planting herbs and vegetables. Plant fruit trees. Never put plastic in your microwave or dishwasher. Studies now show that bisphenol A is leached out when certain plastic bottles are exposed to high temperatures. Even bottled water has shown to be contaminated with Bisphenol A, a chemical that causes tumors and neurological disorders. Look at the bottom of the plastic bottle. There is a triangle with a number. If the number is higher than four, do not use it. Bisphenol A has also been detected in the lining of most cans. The lone exceptions are foods processed by Eden. which unfortunately is limited to a few choices. Gardening follows in this column with photos of different plants and a wealth of information provided by Renee Studebaker. Peruse through 72 pages of information and tips and you will be pleasantly surprised.

Green Earth III covers the important topic of renewable energy. Renewable energy refers to wind energy, methane capture, solar, geothermal and other clean energy sources. Energy generated from clean sources like these reduce the need to generate that same energy from dirty sources like coal or gas. Featured are projects that are exemplary of renewable energy. Some of the projects are:

- [Iowa Lakes Wind Energy & Turbine Program - Estherville, Iowa](#)
- [California Solar Projects - Aliso Viejo, Stockton, Ontario, and Anderson, Calif.,](#)
- [Horse Hollow Wind Energy Center - Taylor and Nolan County, Texas,](#)
- [Summersville Low Impact Hydroelectric Facility - Summersville, W.V.](#)
- [New Bedford Landfill Methane Project - New Bedford, Mass.](#)
- [North Country Landfill Methane Project - Bethlehem, N.H.](#)
- [Chino Basin Dairy Farm Biodigester - Chino Basin, Calif.](#)
- [New York State Landfill Methane Project - Rodman, N.Y.](#)

Reviewed moreover, are the main renewable energy technologies. They are:

- Wind power
- Water power
- Solar power
- Bio fuel
- Solid Biomass
- Geothermal energy

Next are the trends of renewable energy, environmental and social considerations, issues of sustainability and other important technical data. This column is currently forty three pages. We hope to add new data as it becomes available.



Happy an Insightful Reading,

Arnoldo Carlos Vento, PhD
Executive Officer