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The [Fusion Torch](#) was invented by [Dr. Bernard Eastlund](#) and William C. Gough in 1968 to solve the problems of energy supply and to close of materials from use to reuse. The Fusion Torch can take us to the stars.

The [LVPP](#) was invented by Dr. Bernard Eastlund in 1997 to solve the problems of the cold war legacy of radioactive waste and to contribute to closing the nuclear fuel cycle. [SYMBIOTIC Nuclear Power](#) is a new method of closing the nuclear fuel cycle and accommodating humanity to the care and feeding of storage facilities.

[HAARP](#) was invented by Dr. Bernard Eastlund in 1984 to solve problems of missile defense and for research on severe weather and provide a means of replenishing the ozone layer. One application is to generate swarms of energetic electrons in space that can destroy missiles, and be useful as an anti-satellite weapon.

The [TSPS](#) (Thunderstorm Solar Power Satellite) was invented in 1997 to prevent tornado formation by satellites that can beam microwaves to earth. The TSPS could provide power on earth from solar cells in space and prevent tornadoes.

Artificial Ionized Plasmas in the Atmosphere ([CIPPA](#)), ignited by cosmic particles is a new invention (2005) for reflecting radar and telecommunication signals (long haul and short haul). This invention also provides new methods for modifying weather by manipulating ionization within storms and generating acoustic and gravitational waves in the atmosphere.

[Space cities](#), held aloft by giant magnets was submitted as one of the "ARCO patents" by Dr. Eastlund, in 1985 and was approved for award by the patent office. (This was a "fourth" ARCO patent.) "[MAGFORCE](#)" describes the underlying physics behind the ideas. These city sized



structures would be maintained at altitudes of 150 km and provide platforms for meaningful industrialization of space. Magnetic lift systems based on vehicles powered by magnetic forces between small magnetic loops on the transport and large magnetic loops on the ground could drastically reduce the risk and cost of transporting people and systems into space.

Industrial processes and concepts in a variety of areas are described. Commercial "[Paratrol](#)" installations for electrically heating oil and gas wells were placed on over 100 producing wells worldwide. Five of the paratrol units were installed in Siberia in 1992.

The [UVPOD](#) is a new technological solution to prevention of infection by agents such as the bird flu (H5N1). Patents are pending and marketing of the product is beginning.

[Oil shale production](#) with microwave tools and microwave power beaming in the formation is described. This tool has been designed and tested in the laboratory.

[MEMSOIL](#), [MEMSSHALE](#), and [MEMSCOAL](#) are concepts for converting underground hydrocarbon deposits to electricity or hydrogen using microfluidic devices in specially designed horizontally drilled installations.

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