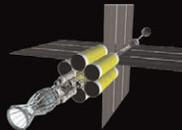


Plasmas Are Everywhere!



Today there are interplanetary probes using plasma propulsion. Tomorrow people may be propelled through space by plasma thrusters.



All stars, including our own sun, are fusion reactors made of plasma.



Interstellar and intergalactic nebulas are rarefied plasmas that are incubators for stars.

Plasmas are used to create high-temperature protective coatings for turbine blades in jet engines.



Lightning is a plasma that occurs when a powerful electrical discharge between the earth and clouds ionizes the atmosphere along its path.



The auroras ("Northern Lights" and "Southern Lights") are caused by charged particles from the solar wind striking plasma in the earth's ionosphere.



In hospitals plasmas are found in gas lasers used for surgery. They are also used in surface hardening of artificial joints and sterilization of medical instruments.

Plasma flat panel displays are used in high resolution television monitors.

Plasma processes are essential to the manufacturing of today's powerful computer chips.

Fluorescent lamps, the workhorses of modern lighting, contain plasmas in a tube. Plasma also creates the light in outdoor street lamps and in neon signs.

The welding arcs used to construct our buildings and automobiles are plasmas.

Fusion, one of the most promising energy sources of the future, takes place in a plasma heated to over 100 million degrees Celsius!



Plasmas are used in pollution cleanup, water purification, waste treatment and recycling of metals.

Not only are plasmas used to harden automobile engine parts, but the very spark in a car's spark plug is a plasma!



Coalition for Plasma Science

The objective of the Coalition for Plasma Science is to increase public awareness and understanding of plasma science and its many applications and benefits for society. Members of the Coalition include many well known universities, national laboratories, professional organizations and companies.

Want to Learn More? Visit our web site at www.plasmacoalition.org • Call toll free 1-877-PLASMAS (1-877-752-7627) • e-mail at CPS@plasmacoalition.org