

Plasma International GmbH and UV Technik GmbH present Sulphur Plasma Lighting Systems.

First invented by Michael Ury during the late 1980's, this form of lighting now enjoys the reliability and advantages of 3rd millennium fabrication techniques, microelectronic components and new materials previously uneconomic to make or non-existing.

New lighting systems from Plasma International and lamps from UV Technik. that enhance environmental sustainability and provide economic and societal benefit.

The presentation divides roughly into eight parts and aims to highlight the enormous potential environmental impact world wide implementation of sulphur plasma lighting has.

1. How the electrodeless microwave lighting system works – the science.
2. Mesopic and Scotopic Vision – Improving the visibility and safety for motorists and pedestrians while reducing energy use.
3. Almost no ultraviolet light and non-excessive blue light dramatically reducing hazard of macular degeneration of the human eye, (especially if you are more than 54 yrs old).
4. Very little infrared (& almost no UV) dramatically improving suitability of use for temperature sensitive plastic fixtures and fibres.
5. Full and truly continuous spectrum very close to sunlight so “feels” like the sun to all life forms, people, plants and fish.
6. Light output and colour does not degrade over time and is dimmable making it an ideal low maintenance partner for solar hybrid technology and the efficient use of light pipe technology.
7. Summary of the advantages of the unique characteristics of a sulphur lighting system, efficiency, size, reliability and output.
8. Ongoing research & developments from Plasma International and UV Technik.

The speaker, Clive Wing, is likely to put emphasis and more detail into circadian and horticultural applications, particularly food and bio-fuel production using greenhouses, aqua and algae farms.



Before Installation



After Installation