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प्लाज्मा अनुसंधान संस्थान  
Institute for Plasma Research

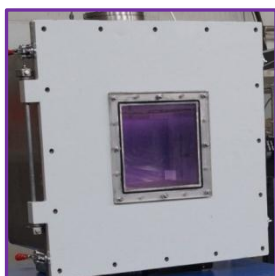


## One Day Seminar on Plasma Technologies for Health Sector (PTHS-2019) 29<sup>th</sup> November 2019

Plasma, the fourth state of matter, has a wide range of applications in industry, space, waste management, etc. Over the last decade, research has intensified on the use of low temperature plasmas in medicine & healthcare. Non-thermal plasma devices has been demonstrated to induce apoptosis/necrosis on pathogens and is helpful in blood coagulation and wound healing. The reactive species generated by plasma are responsible for the effective killing of pathogens. They are also useful for other medical applications such as sterilization of medical equipment and implants and modifying the biomaterial and biocompatible surfaces. Treatments of certain fungal skin infections are also possible. Research is going on for various types of cancer treatments using these plasma devices.

Institute for Plasma Research is engaged in the development of various plasma based technologies in the health sector. Realizing the importance of plasma application in health sector, a one day seminar about **Plasma Technologies for Health Sector (PTHS-2019)** is arranged, wherein experts from plasma and medical sectors will be invited to share their experiences and showcase the tremendous opportunities of plasma based technologies for the future. Following topics will be covered during the seminar;

- **Pencil Plasma Torch Applications**
- **Plasma Sterilization**
- **Plasma Activated Water**
- **Plasma Based Coatings**
- **Plasma Produced Nanoparticles for Sensing**
- **Thermal Plasma for Safe Disposal of Medical Waste**
- **Artificial Intelligence for Medical Application**



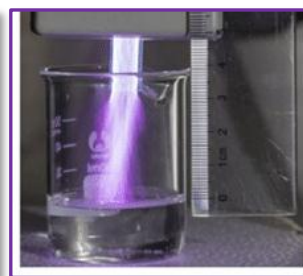
Plasma  
Sterilization



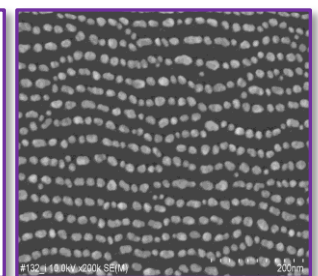
Plasma Based  
Coatings on implants



Plasma based  
Skin Treatment



Plasma Activated  
Water



Plasma produced  
nanoparticles for  
Sensing Application

## **Important Information**

### **Important Dates:**

Date of Seminar : 29/11/2019  
Registration opens: 29/08/2019  
Registration Closes: 29/10/2019

### **Who Can Attend:**

Scientist/ Engineers/ Faculties/ Medical practitioner from R&D institutions/  
Industries/Private Sectors, mainly from medical and health sectors.

### **Accommodation:**

Accommodation will not be provided to the participating candidates. Our local organizing team will help to find out a suitable accommodation for you on self-payment basis.

### **Meals:**

Lunch/Tea/Snacks will be provided.

### **Registration Procedure:**

**No registration fee** is required for attending the PTHS-2019 one day seminar, however pre-registration is important for us for reserving a place for you due to limited number of participant planned. Kindly fill the online registration form for completing the registration ([Click here: link](#)).



### **Contact details:**

**Dr. Mukesh Ranjan (Convener)**

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### **Venue:**

**Institute for Plasma Research (IPR)**

**Bhat Village, Near Indira Bridge**

**Gandhinagar-382428, Gujarat**

**Web: [www.ipr.res.in](http://www.ipr.res.in)**