

各 位

外国人客員准教授特別講演会開催のご案内

下記のとおり外国人客員准教授特別講演会を開催いたしますので、万障繰り合わせの上ご参加下さいますようご案内申し上げます。

記

日 時： 平成21年12月10日（木） 13:30～15:00

場 所： 流体科学研究所 会議室 （1号館2階）

題 目： Atmospheric-Pressure Gas Discharge Plasma Source—Research Work
in the Plasma Health Science Lab

講 師： 清華大学工学物理学部准教授・流体科学研究所客員准教授
李 和平 (Li He-Ping) 氏

キーワード： Atmospheric-pressure gas discharge; Arc plasma; Non-thermal plasma; Characteristics;
Application

アブストラクト：

In the past few decades, atmospheric-pressure gas discharge (APGD) plasma sources, such as the dielectric barrier discharge plasma, the radio-frequency (RF) glow discharge, the direct-current (DC) arc discharge thermal plasma, etc. have been developed. Due to the unique features of the APGDs compared to low-pressure gas discharge plasmas (e.g., the lower capital costs, operation flexibility, non-limitations on the sizes of the treated materials, etc), different kinds of APGDs have been or would be employed in a variety of fields, including the plasma-aided etching, deposition, sterilization/disinfection, decontamination of chemical and biological warfare agents, plasma spraying, waste treatment, etc. In this presentation, the recent research work concerning the atmospheric-pressure DC arc thermal plasmas and the RF atmospheric-pressure glow discharge plasmas using bare-metallic electrodes conducted in the Plasma Health Science Lab (PHSL) are presented. Further studies on the discharge mechanisms, characteristics, and applications of the APGD plasma sources are discussed.

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