**演讲申请表**

1. **演讲申请表** (中英文)

|  |  |  |  |
| --- | --- | --- | --- |
| 演讲人姓名 | 汤忠 | 职务 | 副总经理 |
| 联系电话 | 13603092480 | 邮箱 | Tangz@foripower.com |
| 单位名称 | 深圳市福瑞电气有限公司 | | |
| 演讲题目 | 燃料电池DC-CD变换器 | | |
| 演讲人介绍  深圳市福瑞电气有限公司副总经理，负责产品研发及新产品及新业务规划。电力电子产品研发资深专家，28年电力电子产品研发经验，曾经在华为电气及艾默生网络能源工作，曾担任艾默生网络能源有限公司变频器产品研发部总经理、变频器产品线总监等职务。从事过一次电源、UPS、变频器、光伏逆变器、新能源汽车电机控制器、电动汽车OBC/DC-DC、燃料电池DC-DC等电力电子产品的研发。对电力电子产品电磁兼容技术有深入的研究。 | | | |
| 演讲要点：  1）DC-DC在燃料电池动力系统中的核心功能要素  2）燃料电池DC-DC技术：主电路拓扑-器件-模型及控制  3）燃料电池DC-DC产品技术特点  4）燃料电池DC-DC产品发展趋势展望 | | | |
| 演讲摘要：  燃料电池电堆的输出特性，决定了需要燃料电池主DC-DC来实现能够满足主驱动系统的恒压源特性，通过输出与锂电池或其它储能系统的并联，来满足驱动系统的动态特性要求；另外还承担通过分配燃料电池与锂电池或其它储能系统的能量，达到系统工作能效最佳；此外燃料电池DC-DC还承担保护燃料电池电堆的功能。  针对燃料电池系统的技术需求，需要在主电路拓扑、器件、控制等方面做优化设计，满足高性价比的汽车商业应用级产品的要求。  燃料电池DC-DC产品创新性的技术特点，能够在全负载范围提升系统工作效率，提升燃料电池系统系统可靠性。  燃料电池DC-DC产品将向高效率、高功率密度、高性价比等方向发展 | | | |

注：请同时提交中英文演讲申请表（doc格式）。

1. **重要截止日期**

2018.09.15:

提交演讲申请表及中英文演讲人简介（不少于200字）

提交演讲人近期照片一张（2寸证件照，JPG / TIF格式，不小于1MB）

2018.10.10: 提交中英文演讲报告 （ppt 16:9）并注明是否可以对外公开，或另发送可公开版。

**Speech application form**

1. **Speech application**

|  |  |  |  |
| --- | --- | --- | --- |
| Speaker | Tang Zhong | Title | Vice General Manager |
| Tel | 13603092480 | Mail | tangz@foripower.com |
| Company/ Institute | Shenzhen Foripower Electric Co., LTD. | | |
| Topic | Fuel Cell DC-DC Converter | | |
| Brief Introduction of Speaker  Deputy general manager of Shenzhen Foripower Electric Co., Ltd. is responsible for product development and new product and new business planning. Senior expert in power electronics research and development, 28 years of experience in power electronics research and development, has worked in Huawei Electric and Emerson Network Power. Emerson Network Motor Drive Inverter Research and Development Department General Manager, Motor Drive Inverter Product Line Director and other positions. Has engaged in the research and development of AC-DC power supply, UPS, motor drive inverter, photovoltaic inverter, new energy vehicle motor controller, electric vehicle OBC / DC - DC, fuel cell DC - DC and other power electronic products. The EMC technology of power electronic products has been deeply studied. | | | |
| Key points of your speech  1) the core functional elements of DC-DC in fuel cell power system.  2) fuel cell DC-DC Technology: main circuit topology, component, model and control.  3) technical features of fuel cell DC-DC products  4) development trend of fuel cell DC-DC products | | | |
| Abstract  1) The output characteristic of fuel cell stack determines that the main DC-DC of fuel cell is needed to meet the constant voltage source characteristic of the main motor drive system. The output is parallel to the lithium battery or other energy storage system to meet the dynamic characteristics of the drive system. It also undertakes to maximize energy efficiency by distributing energy between fuel cells and lithium batteries or other energy storage systems. In addition, fuel cell DC-DC also takes on the function of protecting fuel cell stack.  2) In order to meet the technical requirements of fuel cell system, it is necessary to optimize the topology, components and control of the main circuit to meet the requirements of high performance/cost ratio in automotive commercial applications. 3) The innovative technical features of fuel cell DC-DC products can improve the system efficiency and reliability in the full load range.  4) fuel cell DC-DC products will develop towards high efficiency, high power density and high performance/cost ratio. | | | |

Note：Please submit the abstract of your speech in doc.