



交大要闻

上海交大—加铝集团金属基复合材料联合实验室揭牌[图]

2008年1月29日，上海交通大学和全球第二大铝业集团加铝集团（Alcan）在上海交通大学金属基复合材料国家重点实验室为上海交通大学——加铝集团金属基复合材料联合实验室举行签字揭牌仪式。

加铝集团是一家跨国集团公司，是世界上第二大的原铝生产者，在铝业和特种包装业居世界领先地位，特别在软包装和药物、化妆品包装领域居于世界第一位，在碳化硅增强铝基复合材料的应用研究领域享有盛誉。上海交通大学金属基复合材料国家重点实验室在复合材料界面、制备科学、性能及其微结构和加工过程关系等基础研究方面取得了显著成就，同时成功地研制出铝基、钛基和镁基复合材料等各类金属基复合材料制品，为国家的战略需求提供了关键材料。加铝集团与上海交通大学计划在金属基复合材料的纳米增强、特别是纳米碳管增强研究领域，针对界面调和以及性能控制方面开展合作研究。联合实验室是上海交通大学与加铝集团战略合作的重要组成部分，是双方为促进产学研发展而进行的一项重大举措。加铝集团还对上海交通大学与上海紫竹科学园区的区域联动表示了浓厚兴趣，双方计划将来把合作进一步拓展到建立中试基地和研发中心。

金属基复合材料国家重点实验室继与日本丰田汽车公司开展轻质高强金属基复合材料的长期国际合作研究以来，此次与加铝集团建立联合实验室将进一步推动国家重点实验室与国际著名企业的高水平合作研究。



Picture: (from left) Prof. Horst Adams, Rodney Jones (Alcan); Prof. Zang Di, Prof. Zhang Huan (SJTU)

On January 29, 2008, Shanghai Jiaotong University and Alcan Group, the second largest aluminum group in the world, joined Shanghai Jiaotong University-Alcan Group's Metal Matrix Composites Group at the State Key Laboratory of Metal Matrix Composites at Shanghai Jiaotong University. The laboratory held a signing and unveiling ceremony.

Alcan Group is a multinational company. It is the world's second largest producer of primary aluminum. It is a world leader in the aluminum industry and special packaging industry, especially in the world of flexible packaging and pharmaceutical and cosmetic packaging. The field of applied research on silicon-reinforced aluminum-based composite materials is a major R&D focus.

The State Key Laboratory of Metal Matrix Composites, Shanghai Jiao Tong University has made remarkable achievements in basic research on composite interface, preparation science, material properties and its microstructure and processing relationship, and successfully developed aluminum-based, titanium-based and magnesium-based, as well as mixed- metal-based composite products such as composite materials, and provides key materials for the country's strategic needs.

Alcan Group and Shanghai Jiaotong University plan to carry out cooperative research on interface reconciliation and performance control in the field of nano-reinforcement of metal-based composite materials, especially carbon nanotube reinforcement. The joint laboratory is an important part of the strategic cooperation between Shanghai Jiaotong University and Alcoa Group. It is a major initiative carried out by the two parties to promote the advancement of industrial technologies, as well as university and research liaisons. Alcan Group also expressed strong interest in the regional linkage between Shanghai Jiaotong University and Shanghai Zizhu Science Park, and the two parties plan to further expand cooperation in the future to establish pilot bases and R & D centers.

The State Key Laboratory of Metal-Based Composite Materials is hereby extending its long-term international cooperation research on lightweight and high-strength metal-based composite materials it has with Toyota Motor Corporation of Japan. The establishment of a joint laboratory with Alcan Group will further extend the National Key Laboratory's relations with internationally renowned companies through high-level collaborative research.