

# 2009 HONG KONG AWARDS FOR INDUSTRIES: TECHNOLOGICAL ACHIEVEMENT

## TECHNOLOGICAL ACHIEVEMENT AWARD 科技成就獎

Advanced Materials Enterprises  
Company Limited



[www.ames.hk](http://www.ames.hk)

Advanced Materials Enterprises (AME) is a Hong Kong company specialising in advanced materials and nanomaterials for novel product applications. Its business activities cover technology and process development, technology licensing, and production of high-value products for professional, medical, domestic, commercial and industrial applications. The company has strong technology development and product design capabilities. It is a member company of the Incu-Tech program of the Hong Kong Science and Technology Parks Corporation.

**NanoHeat<sup>®</sup>** technology is an innovative technique for providing high performance and energy efficient heating functions with A.C., D.C. and renewable energy sources. It contains no mechanical parts and causes no magnetic interference with other equipment. With research grants provided by the HKSAR Government, it has achieved important milestones and built substantial intellectual property for the technology. This includes a portfolio of 35 patents and 38 design applications in five key areas. Advanced Materials Enterprises has been awarded the Hong Kong Awards for Industries: Technological Achievement Certificate of Merit (2008) and Technological Achievement Award (2009).



### **NanoHeat<sup>®</sup> Technological Achievements:**

- Fast Heating and High Efficiency
  - Capable of reaching 5°C per second and over 99% energy efficiency
- High Power Density
  - Capable of generating 5000 W power output per 10 x 10 cm<sup>2</sup>
- D.C. Power & Renewable Energy Applications
  - Capable of reaching 200°C at 24V D.C.
- No Magnetic Interference
  - Wide variety of applications in medical devices
- No Limitations on Materials
  - Metal, glass and ceramic utensils capable
- Versatility in Design and Applications
  - High performance, slim, compact, stylish and versatile applications



**NanoHeat<sup>®</sup> Hotplate**  
高效節能電熱板

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