



Electric Motor Education & Research Foundation

**The Electric Motor Education and Research Foundation (EMERF)  
is a United States 501(c)(3) organization  
founded by SMMA – The Motor & Motion Association in 1995.**

### EMERF Mission Statement

To advance and promote the electric motor industry through education, pre-competitive electric motor research and facilitation of technology transfer within the industry and in cooperation with academic, private research and governmental organizations.

## Current EMERF Projects

- **EMERF Lamination Steels Third Edition CD-ROM**  
a compendium of lamination steel alloys commonly used in electric motors.
- **Consortium on Losses in Lamination Steels**  
a group of SMMA member companies, led by Professor Pragasen Pillay and Clarkson University graduate students, conducted research on losses in lamination steels at high frequencies and non-sinusoidal wave forms. This multi-year work was funded in part by a \$750,000 grant from the United States Department of Energy.
- **EMERF Sponsored University Speaker at the SMMA Fall Technical Conference**  
a speaker from academia is sponsored by EMERF to attend and present on motor related work.

## Proposed EMERF Projects

- **Pre-competitive Motor Research**  
break-out sessions of motor manufacturers and suppliers at SMMA Conferences have begun discussions to identify future projects. A symposium of academia to present university research on motors and related topics is in the planning process.
- **Wind Energy Kit**  
designed for high school students.
- **Monograph on Magnetic Material Characterization and Modeling for Advanced Electric Machine Design**  
based on the research of the EMERF Consortium on Losses in Laminations Steels



### SMMA Mission Statement

SMMA is the North American Association, with a global focus, for electric motors, drives and their control and application. It serves as the principal voice of the industry and provides a forum to develop, collect and disseminate technical and management knowledge.



Electric Motor Education & Research Foundation  
A non-profit 501(c)3 foundation of SMMA – The Motor & Motion Association

[www.smma.org](http://www.smma.org)

[www.emerf.org](http://www.emerf.org)