

## FEATURE ARTICLES

### 5 *The Power Industry and Why Are We Here? 2006 Dakin Award Keynote Address*

**James E. Timperley**

Tesla and Dakin were two gentlemen who greatly influenced our careers in the electric insulation and power industry.

### 16 *Impact of Inverter Drives Employing Fast-Switching Devices on Form-Wound AC Machine Stator Coil Stress Grading*

**F. P. Espino-Cortes, E. A. Cherney and S. H. Jayaram**

This article discusses the effectiveness of stress-grading systems on inverter-fed motor coils. A sectionalized system is presented and discussed as a possible solution to improve the stress relief in coil ends.

### 29 *Novel Stress Grading Systems For Converter-Fed Motors*

**J. C. G. Wheeler, A. M. Gully, A. E. Baker, and F. A. Perrot**

This work has shown that, for severe impulse voltages, it may be necessary to consider a different design of stress-grading systems for large motors.

#### Cover Photos:

*Photos of T. Mizutani, Whitehead Memorial Lecturer, and W. McDermid presenting V. Lakdawala, former Chair of CEIDP, with certificate of appreciation.*

## DEPARTMENTS

### 3 Editorial

John Densley

### 4 From The Editors' Desk

John Densley  
and Louise Audrieth

### 5 Letter to the Editor

### 37 EIC News

### 38 EIC Profile

### 40 EIC Volunteer Profile

### 42 DEIS News

### 46 D & EI Folks

### 48 News From Japan

Y. Ohki

### 50 NEMA News

Rae Hamilton

### 53 Book Reviews

John. J. Shea

### 57 Meetings Calendar

Alexander Bulinski