



**Pragasen Pillay** (F'05) received the Bachelor's degree from the University of Kwa-Zulu Natal, Durban, South Africa, in 1981, the Master's degree from the University of Kwa-Zulu, Natal, Durban, South Africa, in 1983, and the Ph.D. degree from Virginia Polytechnic Institute and State University, Blacksburg, in 1987.

Currently, he is a Professor in the Department of Electrical and Computer Engineering, Concordia University, Montreal, Canada, where he holds the NSERC/Hydro Quebec Industrial Research Chair. From 1988 to 1990, he was with the University of Newcastle-upon-Tyne, Newcastle-upon-Tyne, U.K. From 1990 to 1995, he was with the University of New Orleans. From 1995 to 2007 he was with Clarkson University, Potsdam, NY, where he held the Jean Newell Distinguished Professorship in Engineering. He is also an Adjunct Professor at the University of Cape Town, Cape Town, South Africa. His research and teaching interests are in modeling, design, and control of electric motors and drives for industrial and alternate energy applications.

Dr. Pillay is a member of the IEEE Power Engineering, IEEE Industry Applications (IAS), IEEE Industrial Electronics, and IEEE Power Electronics Societies. He is a member of the Electric Machines Committee and Past Chairman of the IEEE Industrial Drives Committee of the IAS, Past Chairman of the Induction Machinery Subcommittee of the IEEE Power Engineering Society, Past Chairman of the Awards Committee of the IAS Industrial Power Conversion Department. He has organized and taught short courses in electric drives at IAS Annual Meetings. He is a Fellow of the Institution of Electrical Engineers and Technologists, U.K., and a Chartered Electrical Engineer in the U.K. He is also a Member of the Academy of Science of South Africa. He was a recipient of a Fulbright Scholarship for his Ph.D and received the Order of Mapungubwe from the President of South Africa in 2008 for contributions to South Africa in the area of energy conservation.

**Prof Pragasen Pillay:**

Concordia University – Department of Electrical & Computer Engineering  
1515 St.Catherine West, S-EV005.159,  
Montreal  
Quebec - H3G 2W1  
Canada  
Telephone: 1-514-848-2424 ext. 3108  
Fax: 1-514-848-2802

## **Lecture Topics**

1. Renewable Energy:
  - Biomass power,
  - Osmotic power,
  - Urban wind and solar,
  - Integration of renewable energy sources,
  - Energy storage using flywheels for remote areas.
  
2. Energy Efficiency
  - Machine core loss analysis and modeling.
  - Machine rotational core loss measurement.