

# EL CAPÍTULO DE POTENCIA IEEE SECCIÓN MORELOS

TE INVITA AL

CURSO TUTORIAL

## APPLICATIONS OF SMART GRIDS ON DISTRIBUTION SYSTEMS

(El material se elaborará en inglés pero la presentación se hará en Español)

LOS DÍAS 20 y 21 DE OCTUBRE DE 2011 EN CUERNAVACA, MORELOS

Instructor: **JUAN MANUEL GERS, PhD.**

### SINOPSIS:

The Smart Grid Technology Application is increasing remarkably in Distribution Systems around the world.

In this seminar, concepts on Smart Grid will be reviewed and three specific applications on Distribution Systems:

- ✓ Fault Location, Isolation and System Restoration (FLISR)
- ✓ Voltage/Var Management System-VVMS
- ✓ Monitoring and Harmonic Control

Case examples will be used to illustrate the concepts.

**DIRIGIDO A:** Ingenieros responsables de, o involucrados en, el análisis, diseño, planeación, operación, construcción de sistemas de energía eléctrica, así como a estudiantes y académicos de ingeniería y ramas afines.

**LUGAR:** Hotel Holiday Inn, Cuernavaca, Morelos

**HORARIO:** De 8:30 A 17:00 horas

**COSTO:** Miembros IEEE           \$ 4,000.00 MXN + IVA  
No Miembros IEEE           \$ 4,500.00 MXN + IVA

**Incluye:** Material del Curso, Reconocimiento, Comidas y servicio de Café los días 20 y 21 de Octubre.

Para mayores detalles favor de contactar a: [rafael.castellanos@ieeemorelos.org](mailto:rafael.castellanos@ieeemorelos.org) ; [jgcg@ieee.org](mailto:jgcg@ieee.org)

### SOBRE EL INSTRUCTOR:

## JUAN M. GERS

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### PROFILE:

Skilled electrical engineer with strong background in Protection and Power System Analysis. Experienced in managing consulting companies, government positions and university teaching in under/post graduate courses.

Juan M. Gers obtained his BSc in Electrical Engineer at University of Valle, Colombia, in 1977. In 1981 he finished his MSc in Power Systems at the University of Salford in England and his PhD in 1998 at the University of Strathclyde in Scotland with a research in Distribution Systems Automation.

Dr. Gers worked from 1977 to 1979 for the government owned utility CVC (now EPSA) as substation design engineer. In 1981 he founded GERS which is a consulting engineering company specialized in power systems. The company has offices in the USA, Colombia and Mexico. He was lecturer at University of Valle for more than 20 years and Vice minister of Mines and Energy of Colombia in 2002.

Besides his consulting activities, he devotes time to academic activities and is in charge of several Power Systems courses at Penn State University and Gonzaga University. He is co-author of a book entitled "Protection of electricity distribution networks", published in 1998 by the IEE (now IET) with a third edition in 2011 and is the author/co-author of over 40 technical papers. Dr. Gers is a Chartered Engineer of the IET and Member of IEEE. Currently he participates in several groups of the Power System Relaying Committee – PSRC of the IEEE.

**CONTENIDO DEL CURSO:**

**APPLICATIONS OF SMART GRIDS  
ON DISTRIBUTION SYSTEMS**

**Capítulo 1: Concepts review on Distribution Automation and Smart Grid**

**Capítulo 2: Feeder Reconfiguration for Losses Reduction**

**Capítulo 3: System Restoration**

**Capítulo 4: Consideration of Harmonics**

**Capítulo 5: Voltage/Var Management Control**

**Case Examples**

**Conclusions**