



SUBMISSION FOR

**2013 POWER ENGINEERING SOCIETY
OUTSTANDING CHAPTER AWARD**

**Panama Chapter of the
Power Engineering Society**

For the calendar period
January 1, 2013

Through

December 31, 2013

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1. EXECUTIVE SUMMARY / NOMINATION

a. Executive Summary

In this report, the Panama Chapter is presenting its performance during the calendar year 2013 in order to be considered for the PES Outstanding Chapter Award. As it will be demonstrated, our Chapter has maintained its commitment of providing technical programs and services to the students, members and the Panamanian community.

The Chapter's Board, which includes: Mr. Ivan Castillo as Chair, Mrs. Guadalupe Gonzalez as Vice-Chair, Mr. Leonardo Perez as Treasurer and Mrs. Adalina Aguilar as Secretary, met in several occasions in order to organize the activities that took place during 2013. The activities included:

- Technical activities
 - Fundamentals of Power and Energy Electrical Systems for Non-engineer Professionals I & II
 - Technical Visit to the Thermo – Electrical Power Plant “Generadora del Atlántico”
 - IEEE Power and Energy, 2013
 - Women in Power, 2013
- Educational Activities
 - IEEE Power and Energy, 2013
 - Women in Power, 2013
- PES/Engineering Profession Promotion
 - Fundamentals of Power and Energy Electrical Systems for Non-engineer Professionals I & II
- Student activities
 - Talk – Introduction to HVDC Systems
 - Talk – Electric motors: use, failures and maintenance
- Activities to support affinity groups
 - WIE
 - GOLD
- Participation in a PES conference
- Members awards activities
 - Outstanding Engineer Award 2012 – Guillermo Rodriguez
 - Outstanding Engineer Award 2013 – Rodrigo Chanis
- Members advancement support
- Chapter's webpage actualization

Warmest regards,



Ivan Castillo, P.E.

Chair – PES Chapter Panama

b. Regional Representative Nomination



Nelson M Segoshi
PES Regional
Representative
Region 9
March, 17th 2014

The Panama PES Chapter is nominated for its performance during the calendar year 2013 under the leadership of Chapter Chair Mr. Iván Castillo that had the strong collaboration and support from the other committee members: Mrs. Guadalupe Gonzalez as Vice- Chair, Mr. Leonardo Perez as Treasurer and Mrs. Adalina Aguilar as Secretary.

The Chapter is commended for its very successful and strong performance in technical, educational, professional and membership programs.

Some significant 2013 high points were:

- Developing an intense program that reached the current and future members and leaders.
- Technical program focused on professional engineers in the local industry.
- Strong support to the affinity groups as WIE and GOLD.
- Continuous improvement of the Chapter Web Site
- Consistent strategy in the Membership Development that experienced a growth of 39% in 2013.

Summary

The Chapter under the leadership of two GOLD members (Chair and Vice-Chair) has developed not only the traditional technical activities but successfully harmonized the activities with affinity groups.

The “senior” GOLD member being stimulated to be recognized as Senior Member and the WIE/WIP groups connected to the women in the leadership positions.

A handwritten signature in blue ink, appearing to read 'Nelson M Segoshi', is written on a light-colored rectangular background.

Nelson M Segoshi

PES Regional Representative

Region 9

2. ACTIVITIES

a. Technical Activities

The Panama Chapter sponsored five major technical meetings. The topics included were:

- **Fundamentals of Power and Energy Electrical Systems for Non-engineer Professionals**

On March 27th 2013, the IEEE Panama Section's Power and Energy Chapter held the seminar "Fundamentals of Power and Energy Electrical Systems for Non-engineer Professionals" at the Holiday Inn Hotel, Clayton.

This event was attended by engineering students as well as professionals of various national energy companies such as, lawyers, financiers, administrators among others, whose work is directly or indirectly related to the use of electrical terminology or even with the understanding of regulations in the energy sector but do not have the basic knowledge of the power system.

Images of the event



The Executive Board of the IEEE's Panama Section Power and Energy Chapter giving the welcoming words to the Seminar. In the usual order, Dr. Guadalupe Gonzalez (lecturer), Leonardo Perez, P.E., Ivan Castillo, P.E. (lecturer)



At the event participated 51 professionals of companies such as ETESA, ENSA, ASEP, ABB, BICSA, among others

- **Technical Visit to the Thermo – Electrical Power Plant “Generadora del Atlántico”**

A group of 10 members of PES visited the Power Plant on June 1st, 2013

Members of PES at GENA



- **IEEE Power and Energy, 2013**

On September 26 2013, the IEEE Panama Section’s Power and Energy Chapter held the “Power and Energy 2013”. This event featured distinguished speakers who presented current issues on electricity market, optimizing the transmission system’s operations, expansion and operation of distribution networks, new trends in measurements at commercial levels and a futuristic vision of the technology implementation in the operation of the power grid.

Lecturers:

- Miguel Toriz, P.E. – Measurement Technologies and Pre-paid Energy Measurement
- Dr. Ronald Barazarte – The Electric Power Grid of the Future
- Alfredo Medina, P.E. – Transmission System Compensators
- Rafael Ríos, P.E. – Electric Energy Distribution Systems
- Rafael Mosquera, P.E. – Electric Markets

At the event participated professionals of companies such as ETESA, ENSA, ASEP, ABB, BICSA, among others as well as students from the Technological University of Panama



- **Women in Power, 2013**

On October 30th 2013, the IEEE Panama Section’s Power and Energy Chapter together with the affinity group Women in Engineering (WIE) launch the group Women in Power (WiP). This group follows an international effort of the Power and Energy Society to promote more diverse leadership in the energy industry by supporting the career advancement, networking and education of women.

On this occasion we were excited to have as lecturer two outstanding Panamanian professionals, Marta Bernal P.E. from the National Secretariat of Energy (SNE) who talked to us about the Panamanian Energy Sector Policies and Marianela Herrera, P.E. from the Electric Transmission Company (ETESA) who talked to us about the ETESA's Planning Expansion.

Officers of the PES Chapter and IEEE Panama Section with our lecturers:
Marianela Herrera, P.E. and Marta Bernal, P.E.



- **Fundamentals of Power and Energy Electrical Systems for Non-engineer Professionals II**

On August 30th 2013, a special presentation on this topic was given to the collaborators of ABB – Panama. The lecture was given by Ivan Castillo and Guadalupe Gonzalez.



b. Educational Activities

The technical activities **Power and Energy, 2013** and **Women in Power, 2013** both served as educational activity because they were directly related to the education of its members as well.

c. PES/Engineering Profession Promotion

The technical activity **Fundamentals of Power and Energy Electrical Systems for Non-engineer Professionals II** served also as an engineering profession promotion activity as it was presented to an external group, non-engineer collaborators of the ABB Company.

d. Student Activities

Senior members of the PES Panama Chapter provided two talks for the student branch at the Technological University of Panama. The topics included were:

- **Talk – Introduction to HVDC Systems**

On Thursday September 19, 2013, Dr. Ronald Barazarte presented the talk entitled “Introduction to HVDC Systems” as part of the Lectures organized by the IEEE PES Student Chapter UTP.

Dr. Barazarte at IEEE PES Student Chapter UTP



- **Talk – Electric motors: use, failures and maintenance**

On Monday September 23, 2013, Dr. Guadalupe González presented the talk entitled “Electric motors; use, failure and maintenance” as part of the Lectures organized by the IEEE PES Student Chapter UTP.

Dr. González at IEEE PES Student Chapter UTP



e. Affinity Groups

In 2013, the Panama Chapter supported two affinity groups: Women in Engineering (WIE) and Graduate of the Last Decade (GOLD).

- **Women in Engineering (WIE)**

In 2013, the Panama Chapter launched the affinity group Women in Power (WiP) which follows an international effort of the Power and Energy Society and Women in Engineering to promote more diverse leadership in the energy industry by supporting the career advancement, networking and education of women.

Four main actions were taken in this matter:

- a space in our website was dedicated to Women in Power (<http://sites.ieee.org/panama-pes/en/>)
- a technical activity lectured solely by two recognized women of the energy field in Panama was developed and promoted among the members of PES and WIE (see the technical activity section, Women in Power - 2013)
- Dr. Guadalupe González was appointed as Vice Chair of PES-Panama
- Dr. Guadalupe González was elevated senior member due to the encourage and full support of PES-Panama

- **Graduate of the Last Decade (GOLD)**

In 2013, the Panama Chapter promoted GOLD with three main actions:

- adding two GOLD members to the chapter's Executive Committee
 - Iván Castillo, Chair – UTP Class 2004
 - Guadalupe González, Vice Chair – UTP Class 2004
- encouraging and supporting the elevation to senior member of two GOLD members
 - Ronald Barazarte – UTP Class 2004
 - Guadalupe González – UTP Class 2004
- encouraging the participation of GOLD members to give talks, lectures and conferences to the Panamanian PES members
 - Iván Castillo and Guadalupe González – Fundamentals of Power and Energy Electrical Systems for Non-engineer Professionals
 - Ronald Barazarte – Power and Energy 2013

f. PES Conferences

Members of the board of the Chapters have been supporting the effort to hold the event CONCAPAN in Panama in 2014. In CONCAPAN various issues in the area of power and energy are developed.



3. MEMBERS

a. Members Awards / Recognition / Nominations

- In 2013, the Panama Chapter held the ceremonies to provide the Outstanding Engineer Award (OEA) to two distinguished members of our Chapter
 - Guillermo Rodríguez, OEA 2012

Members of PES Panama with Guillermo Rodríguez – March 5th, 2013



- Rodrigo Chanis, OEA 2013

Members of PES Panama with Rodrigo Chanis – December 18th, 2013



b. Member Advancement

The Executive Board serves as the Recognition Program and works together with the IEEE Panama Section's Recognition Program to postulate its members

- In 2013 three members of PES were elevated to Senior Member
 - Ronald Barazarte
 - Guadalupe González
 - Gustavo Salloum

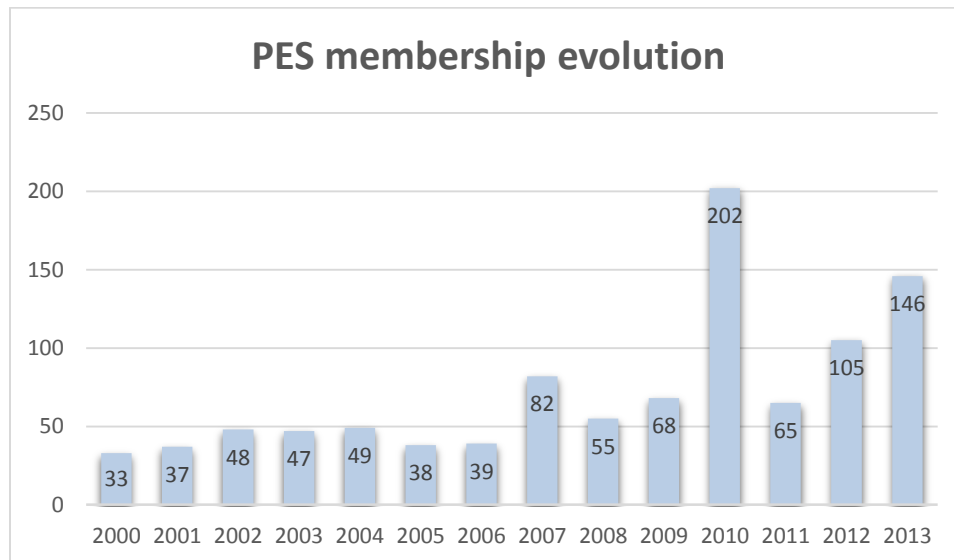
c. Membership Growth / Retention

As shown in the following table, the Panama Chapter has experienced a constant growth in our membership and in 2013 increased its membership in each single grade.

GRADO	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
SM	13	20	17	22	22	21	22	22	24	25	24	23	21	25
M	15	10	24	12	11	10	9	22	27	32	38	36	35	38
GSM										1	1	1	4	4
S	3	4	2	10	15	7	8	37	4	9	138	5	45	78
A	2	3	5	3	1	0	0	1		0	1	0		1
AF										1	0	0		
Total	33	37	48	47	49	38	39	82	55	68	202	65	105	146

Note: SM=Senior Member, M=Member, GSM=Graduate Student Member, S=Student Member, A=Associate Member, AF=Affiliate Member

By the advancement of members to SM grade the Section has been able to form a strong base on the chapter membership since those members have been members for many years and their retention is 100%.



4. CHAPTER OPERATIONS

a. Chapter Web Page

PES Panama Chapter maintains an active web page both in Spanish and English languages - <http://sites.ieee.org/panama-pes/en/>

The webpage contains:

- A complete list of chapter officers including email addresses
<http://sites.ieee.org/panama-pes/en/pes-panama/junta-directiva/>
- Information on programmed activities
<http://sites.ieee.org/panama-pes/en/calendar/>
- Details of past activities
<http://sites.ieee.org/panama-pes/en/actividades/actividades-pasadas/>
- Date of last update
<http://sites.ieee.org/panama-pes/>
- A webmaster or other contact
<http://sites.ieee.org/panama-pes/en/contactenos/>

b. PES Only Chapter

PES Panama Chapter is a PES Only Chapter

5. OTHER ACTIVITIES

- PES Panama Chapter promotes the participation and usage of PES Publications including:
 - Power and Energy Society Magazine –
<http://sites.ieee.org/panama-pes/en/publicaciones/>
 - Digital Library –
<http://sites.ieee.org/panama-pes/en/2013/09/25/publicaciones-pes-libreria-digital-potencia-y-en%EF%BB%BFergia/>
 - Members publications in IEEE Magazines
<http://sites.ieee.org/panama-pes/en/publicaciones/publicaciones-de-miembros-en-revistas-ieee/>
- Board members have participated in regional meetings for the development and growth of the power and energy society.

Members of PES Panama at Regional Meeting Sao Paulo Brasil – April
13th, 2013

