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Enjoy the new year!! Have a successful 2016!!

Mensaje Final del año 2015

Actividades en Argentina, El Salvador, Puerto Rico & Caribe



Trinidad & Tobago, 10 años promoviendo el desarrollo de la Tecnología

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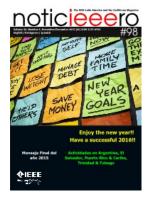
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Cierre de actividades del año 215

SALOMÓN A. HERRERA - Editor-in-Chief salomon.herrera@ieee.org

Con esta edición cerramos un nuevo ciclo del NoticIEEEro.

Estimado Lector, permítanme presentarles una nueva edición de la revista oficial de la Región 9. En esta edición, el NoticIEEEro, presenta actividades y proyectos realizados en el año. Además el informe de gestión del directorio regional 2014-2015.

Los invitamos a que sean parte activa del NoticIEEEro, que nos hagan llegar sus noticias y artículos para que todos los Miembros de la Región conozcan lo que se hace en la Región 9 del IEEE.



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Mensaje de / Message from / Mensagem de IEEE Region 9 Director

Norberto Lerendegui - IEEE R9 - Director Regional 2014-2015 nlerendegui@ieee.org

Estimados Colegas de la Región 9 de IEEE

El año 2015 está próximo a concluir y la cercanía del 2016 nos invita a realizar un saludable balance de lo acontecido. Esta época tiene un valor especial para mí, dado que a partir del Enero dejaré la conducción de la Región 9 en manos de mi amigo Antonio Ferreira, nuestro próximo director regional.

He tenido el honor y el privilegio de poder servir a la comunidad IEEE como miembro del Directorio de IEEE (BoD) y a la comunidad de nuestra Región 9 como Director Regional. Nuestra región latinoamericana y caribeña ha experimentado un fuerte crecimiento en todas sus dimensiones en los últimos años. Esto se debe al compromiso de nuestros voluntarios que han contribuido al circuito virtuoso representado por el lazo: buenos productos y servicios para los miembros => dan lugar a: miembros más satisfechos y motivados => que permite tener: más voluntarios comprometidos => para producir: más y mejores servicios para los miembros.

IEEE es una organización técnica, transnacional, sin fines de lucro, basada en miembros y conducida por voluntarios, con un excelente trabajo en equipo en conjunto con su personal "staff". El éxito de nuestro Instituto, expresado a través de una membrecía de 430.000 personas de 330 secciones distintas anidadas en 160 países, la existencia de 45 sociedades o consejos técnicos que organizan 1600 conferencias anuales y sostienen más de 160 publicaciones líderes, el reservorio de casi 4 millones de trabajos científicos, entre otros parámetros de valor, está íntimamente ligado a la capacidad creativa y colaborativa de sus miembros, particularmente sus voluntarios.

Nuestra Región 9 es un engranaje importante de esta maquinaria. Posee 19.000 miembros en 33 secciones anidadas en 19 países, desde donde se proyecta cobertura a otros países de la región. Con sus 770 ramas estudiantiles, es la región líder en proporción de ramas estudiantiles, y es una de las más contribuyentes en proyectos humanitarios y servicios comunitarios.

En mi primer mensaje de 2014 como Director Regional, presenté una Propuesta de Acciones entroncadas en tres ejes: Mejor Servicio para los Miembros, Integración Regional y Mayor Interacción con la Sociedad. Quiero remarcar algunos logros significativos alcanzados en mis dos años de gestión gracias a la contribución y compromiso de nuestros líderes regionales.

Mejor Servicio para los Miembros:

- Se creó la primera Rama Estudiantil IEEE en Haiti (Universidad del Estado de Haiti) constituyéndose en una eventual semilla para la creación de una subsección en ese país. De esta forma, nuestra comunidad adiciona un nuevo idioma, el Francés, que se suma al Inglés (Trinidad y Tobago), Portugués (Brasil) y Español (resto de los países).
- R9 es la región con mayor porcentaje de miembros que utilizan COLLABRATEC, la nueva plataforma de investigación colaborativa e interacción comunitaria de IEEE. Con un 6% de participación, sextuplica la tasa de las regiones 1 y 6 de IEEE.
- Nuestro equipo regional de actividades estudiantiles lanzó nueve competencias en el 2015: IEEE Web Site Contest, IEEE Video Contest, IEEE MD + Roadshow Contest, IEEE TISP Contest, IEEE Selfie Contest, IEEE Photo Contest, IEEE Success Cases Contest, IEEE Student Ethics Competition y IEEE Day Contest.
- En el 2015 hubo 103 peticiones de formación solicitadas por Ramas Estudiantiles: 20 para creación de Ramas Estudiantiles, 15 para creación de Grupos Estudiantiles WIE y 68 para creación de capítulos estudiantiles.

Integración Regional:

- En el 2014 se realizó por primera vez una Reunión Regional íntegramente en Inglés (Bogotá, Colombia, 26-29/3/2014). Las últimas dos reuniones regionales (Amsterdam, Holanda, 22/8/2014 y Monterrey, Mexico, 11-14/3/2015) fueron también desarrolladas en ese idioma, sin la presencia de intérpretes. Esto representanta un paso muy importante para IEEE R9, dado que favorece la formación de nuestros líderes en el idioma oficial del IEEE y su proyección a nivel mundial, y además contribuye a la integración inter-regional (R9 era la única región en IEEE que tenía reuniones regionales en un idioma distinto del Inglés).
- Por primera vez un Representante Estudiantil Regional (R-SR 2014-2015) fue elegido por los estudiantes, iniciativa única en su género en el mundo IEEE, dado que en todas las otras regiones el R-SR es designado por el Director Regional. Actualmente se encuentra en curso la elección del R-SR 2016-2017.
- Se aprobó que la Sección Trinidad y Tobago sea la sección anfitriona de la Reunión Regional 2016 (2-5/3/2016). Por primera vez se realizará una reunión regional en un país en el cual el inglés es la lengua oficial. La Sección Trinidad y Tobago celebrará sus primeros 10 años de vida.
- Por primera vez se realizó una Reunión Regional de Ramas Estudiantiles en Centroamérica (Antigua Guatemala, Guatemala, 1-4/10/2015).

Interacción con la Sociedad:

- Firma del acuerdo IEEE-R9 ASSESPRO [Federação das Associações das Empresas Brasileiras de Tecnologia da Informação] de colaboración recíproca, propiciando un mayor acercamiento de IEEE con los profesionales de la industria.
- Firma de la "Declaración de Lima" en la Segunda Cumbre del Cuerpo de Acreditación de IEEE Región 9, en Lima, Peru, 1-2/9/2015. La firma de esta declaración es un logro mayor en términos de procesos de acreditación en América Latina. La meta principal a partir de ahora será establecer elementos comunes y términos de nomenclatura entre los distintos programas de acreditación en ingeniería y ciencia de la computación.

En el artículo titulado 2014-2015 Region-9 Director Report encontrarán más información sobre las actividades realizadas y los logros alcanzados.

Aprovecho la ocasión para desearles a todos Uds. un muy FELIZ 2016, lleno de Alegrías y Éxitos.

Dear R9 Colleagues of IEEE Region 9

The year 2015 is ending and the proximity of 2016 invites us to review what we have done. This is an especial time for me since I am about to finish my term. In January 2016 my friend Antonio Ferreira will be the head of IEEE R9.

I have had the honor and privilege to serve the IEEE community as a member of the IEEE Board (BoD) and as Region-9 Director. Our Latin American and Caribbean region has experienced a strong growth in all dimensions in recent years. This is due to the commitment of our volunteers who have contributed to the virtuous loop circuit represented by the sequence: good products and services for members => lead to: more satisfied and motivated members => which allows: more committed volunteers => to produce: more and better services to members.

IEEE is a member-based, volunteer-driven, technical, transnational, not-for-profit organization that has an excellent teamwork with the staff. The success of our Institute is expressed through a membership of 430,000 people from 330 different sections in 160 countries, the existence of 45 technical societies or councils which organize 1,600 annual conferences and support more than 160 leading publications, an electronic library of almost 4 million scientific papers, among other outstanding figures. This success is closely related to the creative and collaborative capacity of its members, particularly its volunteers.

Our Region 9 is an important gear in this machine. It has 19,000 members in 33 sections nested in 19 countries, where coverage is projected to other countries in the region. With its 770 student branches, it is the leading region in student branches rate, and is one of the top contributors to humanitarian projects and community services.

In my first message of 2014 as Regional Director, I presented a proposal for actions in three areas: Better Service to Members, Regional Integration and Greater Interaction with the Society. I want to highlight some significant achievements in my two years in office thanks to the contribution and commitment of our regional leaders.

Better Member Services:

- The first IEEE Student Branch in Haiti (State University of Haiti) was established in 2014. This represents a potential seed for the creation of a subsection in that country. Now, our community added a new language, French, in addition to English (Trinidad and Tobago), Portuguese (Brazil) and Spanish (rest of countries).
- IEEE-R9 is the region with the highest percentage of members who use COLLABRATEC, the new IEEE platform for collaborative research and community interaction. With a 6% rate, the R9 figure is six times the rates observed in Regions 1 and 6 (USA).
- Our R9 Student Activities Team launched nine contests in 2015: IEEE Web Site Contest, IEEE Video Contest, IEEE MD + Roadshow Contest, IEEE TISP Contest, IEEE Selfie Contest, IEEE Photo Contest, IEEE Success Cases Contest, IEEE Student Competition and IEEE Ethics Day Contest.
- During 2015 there were 103 petitions from Student Branches: 20 for creating Student Branches, 15 for creating WIE Student Groups and 68 to form student chapters.

Regional integration:

- In 2014 the Region 9 carried out its first regional meeting entirely conducted in English (Bogota, Colombia, March 26-29, 2014). The last two regional meetings (Amsterdam, Netherlands, August 22, 2014 and Monterrey, Mexico, March 11-14, 2015) were also carried out in English with no interpreter in the meeting room. This represents a very important step for IEEE R9, since it promotes the formation of our leaders in the official language of IEEE, facilitates their worldwide projection, and contributes to the inter-regional integration (R9 was the only region in IEEE which had regional meetings in a language other than English).
- For the first time a Regional Student Representative (2014-2015 R-SR) was elected by the students. This is the only initiative of its kind in the IEEE world IEEE; in all other regions the R-SR is appointed by the Regional Director. The election of the 2016-2017 R-SR is currently in progress.
- Trinidad and Tobago Section was selected as the host section of the coming 2016 Regional Meeting (March 2-5, 2016). This will be the first time that a Region-9 meeting is held in a country where English is the official language. Trinidad and Tobago section has recently celebrate its 10th birthday.
- The Regional Student Branch Meeting was carried out for first time in a Central America Country (Antigua Guatemala, Guatemala, October 1-4, 2015).

Interaction with Society:

• The Region 9 signed a collaboration agreement with ASSESPRO [Federation of Associations of Technology

Information Brazilian Companies], fostering a closer relationship among IEEE, Industry Companies and Industry Engineers.

• Signature of the "Lima Declaration" at the Second Summit of the IEEE Region-9 Accreditation Body, in Lima, Peru, September 1-2, 2015. The signing of this declaration is a major achievement in terms of accreditation processes in Latin America. The main goal now is to establish common elements and nomenclature terms among the various Latin-American accreditation programs in engineering and computer science.

More information on activities and achievements can be found in the article entitles 2014-2015 R9 Director Report.

I wish you a Very Happy New Year 2016, full of happiness and success.

Prezados colegas da IEEE Região 9

O ano de 2015 está chegando ao fim e a proximidade de 2016 nos convida a fazer um analise do que aconteceu. Esta época tem um valor especial para mim. A partir de janeiro vou deixar a condução da Região 9 nas mãos do meu amigo Antonio Ferreira, nosso próximo diretor regional.

Eu tive a honra e o privilégio de servir a comunidade IEEE como um membro do IEEE Board IEEE (BOD) e como Diretor da Região 9. Nossa região, América Latina e Caribe, experimentou um forte crescimento em todas as suas dimensões nos últimos anos. Isto é devido ao comprometimento de nossos voluntários, que têm contribuído para o ciclo virtuoso representado por: bons produtos e serviços para os membros => resultado: os membros mais satisfeitos e motivados => que permite: voluntários mais comprometidos => para produzir: mais e melhores serviços aos membros.

IEEE é uma organização técnica transnacional baseada nos membros, sem fins lucrativos, conduzida por voluntários, com excelente trabalho de equipa juntamente com o seu "staff". Nosso Instituto tem o sucesso expressado através de uma adesão de 430.000 pessoas de 330 diferentes seções em 160 países, a existência de 45 sociedades e conselhos técnicos para organizar 1600 conferências anuais e manter mais de 160 publicações principais, o reservatório de quase 4 milhões de artigos científicos, entre outros parâmetros de valor. Este sucesso está intimamente ligado à capacidade criativa e colaborativa de seus membros, em particular dos seus voluntários.

Nossa Região 9 é uma componente importante neste máquina. Ele tem 19.000 membros em 33 seções aninhados em 19 países, onde a cobertura é projetada para outros países da região. Com suas 770 ramos estudantes, é a principal região na proporção de ramos estudantis, e é um dos contribuintes principais para projetos humanitários e serviços comunitários.

Na minha primeira mensagem de 2014 como Diretor Regional, apresentei uma proposta de ações em três áreas: Melhor Serviço para os Membros, Integração Regional e Maior Interação com a Sociedade. Eu desejo destacar algumas conquistas significativas nos meus dois anos no cargo graças à contribuição e compromisso de nossos líderes regionais.

Melhores Serviços de Membros:

- O primeiro Ramo Estudantil IEEE em Haiti (Universidade do Estado do Haiti) foi formada em 2014, constituindo uma possível semente para a criação de uma subseção naquele país. Assim, nossa comunidade adicionou uma nova língua, o francês, além de Inglês (Trinidad e Tobago), Português (Brasil) e espanhol (outros países).
- R9 é a região com o maior percentual de membros que usam COLLABRATEC, a nova plataforma para a investigação colaborativa e interação com a comunidade IEEE. R9 tem uma participação de 6%, seis vezes a taxa das regiões 1 e 6 do IEEE (USA).
- Nossa equipe regional de atividades estudantis lançou nove concursos em 2015: IEEE Web Site Contest, IEEE Video Contest, IEEE MD + Roadshow Contest, IEEE TISP Contest, IEEE Selfie Contest, IEEE Photo Contest, IEEE Success Cases Contest, IEEE Student Competition and IEEE Ethics Day Contest.
- Em 2015, havia 103 pedidos de formação solicitados por ramos estudantis: 20 para a criação de ramos estudantis, 15 para a criação de Grupos WIE Estudantis e 68 para formar capítulos de estudantes.

Integração Regional:

- Em 2014 realizou-se pela primeira vez inteiramente em Inglês uma Reunião Regional na Região 9 (Bogotá, Colômbia, Março 26-29, 2014). As duas últimas reuniões regionais (Amsterdam, Países Baixos, Augusto 22, 2014, e Monterrey, México, Março 11-14, 2015) também foram desenvolvidas nesse idioma, sem a presença de intérpretes. Isso representa um passo muito importante para IEEE R9, uma vez que promove a formação de nossos líderes na língua oficial do IEEE e sua projeção em todo o mundo, e contribui para a integração interregional (R9 foi a única região em que teve IEEE reuniões regionais em um idioma diferente do Inglês).
- Pela primeira vez, um estudante Representante Regional (R-SR 2014-2015) foi eleito pelos estudantes, a única iniciativa de seu tipo no mundo IEEE. Em todas as outras regiões, o R-SR é nomeado pelo Diretor Regional.

Atualmente a escolha do R-SR 2016-2017 esta em progresso.

- A Seção Trinidad e Tobago foi aprovada como seção anfitriã do Encontro Regional 2016 (Março 2-5, 2016).
 Pela primeira vez será realizado um encontro regional em um país onde o Inglês é a língua oficial. A Seção Trinidad e Tobago vai comemorar seus primeiros 10 anos.
- Pela primeira vez, foi realizada uma Reunião Regional de Ramos Estudantil na América Central (Antiga Guatemala, Guatemala, 1-4 / 10/2015).

Interação com a Sociedade:

- IEEE-R9 assino um acordo de colaboração mútua com ASSESPRO [Federação das Associações Brasileiras das Empresas de Tecnologia da Informação], para promover uma relação mais estreita entre IEEE e os profissionais da indústria.
- Assinatura da "Declaração de Lima" na Segunda Cima do Organismo de Acreditacão IEEE Região 9, em Lima, Peru, 1-2 / 9/2015. A assinatura desta declaração é uma grande conquista em termos de processos de acreditação na América Latina. O objetivo principal agora é estabelecer elementos comuns e termos de nomenclatura entre os vários programas de acreditação em engenharia e ciência da computação.

No artigo intitulado 2014-2015 Region-9 Director Report encontrar mais informações sobre as atividades e realizações.

Aproveito esta oportunidade para desejar a vocês um FELIZ 2016, de alegria e sucesso.

Agradecimiento / Gratitude / gratidão

Deseo expresar mi más sentido agradecimiento a los voluntarios líderes que aceptaron trabajar en el Comité Ejecutivo y los Subcomités Regionales durante mi gestión, poniendo su compromiso y profesionalismo en las tareas realizadas, muchas veces en forma silenciosa.

I wish to express my deepest gratitude to the volunteer leaders who agreed to work in the Executive Committee and Regional Subcommittees during my term as Regional Director. They did their job with commitment and professionalism, often silently.

Eu gostaria de expressar minha profunda gratidão aos líderes voluntários que concordaram em trabalhar no Comitê Executivo e Subcomissões Regionais durante a minha gestão. Eles fizeram o seu trabalho com empenho e profissionalismo, muitas vezes em silêncio.

Norberto Lerendegui, IEEE R9 Director / IEEE BoD 2014-2015

2014-2015 R9 Executive Committee:

- Regional Director Elect: Antonio Ferreira, Brazil.
- Past Regional Director: Gustavo Giannattasio, Uruguay.
- Regional Secretary: Antonio Calderón, Mexico.
- Regional Treasurer: Jorge Him, Panama.

2014-2015 R9 Standing Subcommitte Chairs:

- Technical Activities: Isidro Lazaro, Mexico.
- Education Activities: Joberto Martins, Brazil.
- Student Activities: Augusto Herrera, Argentina.
- Student Representative: Marinara Marcato, Brazil (2015); Paola Beltran, Colombia, (2014).
- Membership Development: Antonio Ferreira, Brazil.
- Awards & Recognition: Tania Quiel, Panama.
- Electronic Regional Magazine NoticIEEEro: Salomon Herrera, Ecuador.
- Electronic Transactions Magazine: Mirela Sechi Moretti,
- Information Management and Electronic Communications: Fabian Peña, Colombia.

2014-2015 R9 AdHoc Subcommittee Chairs:

- Strategic Planning: Antonio Ferreira, Brazil; RD Elect.
- Nominations & Appointments: Gustavo Giannattasio; past RD.

- Young Professionals: Celso Crivelaro, Brazil.
- History: Francisco Martinez, Mexico.
- Women In Engineering: Clarissa Loureiro, Brazil (2015); Elena Duran, Ecuador (2014).
- Fellows: Antonio Jardini, Brazil.
- Voluntary Contribution Fund: Gustavo Giannattasio; past RD.
- Life members: Carlos Nafarrate, Mexico.
- New Initiatives: Carlos Lozano, Colombia.
- IEEE Foundation: Ruben Barrera Michel, Mexico.
- SIGHT: Eduardo Navarro, Venezuela.
- Industry Relations: Alessio Borelli, Brazil.
- Sections Vitality: José David Cely, Colombia.

New Fellow Members in R9

Dear all

The following candidates were successful in the nomination for Fellow 2016 class

- Alexandre Silva dasilva@ge.com
- Fernando Gomide gomide@dca.fee.unicamp.br
- Silverio Visacro Silvério visacro@hotmail.com

I would like to invite the IEEE volunteers to search for new candidates. The nomination should be there in the very beginning of march.

Count on me for help Jose A Jardini



2016 IEEE Autumn Meeting on Power, Electronics and Computing

The 2016 IEEE Autumn Meeting on Power, Electronics and Computing (ROPEC 2016) is organized by the IEEE Centro Occidente Section, the Universidad Michoacana de San Nicolás de Hidalgo (UMSNH), the Instituto Tecnológico de Morelia (ITM), the Universidad de Colima, the Instituto Tecnológico de la Costa Grande (ITCG), and the Comisión Federal de Electricidad de la División Centro Occidente (DCO-CFE) of Mexico. It will be held on Nov 9-11, 2016 in Ixtapa, Guerrero, México.

Call for papers

The Organizing Committee of the 2016 IEEE Autumn Meeting on Power, Electronics and Computing invite students, researchers and practitioners worldwide to submit full papers for consideration to be presented at the conference. The technical committee will assign oral presentations to the accepted papers. <u>All the papers PRESENTED at the conference will be submitted to IEEExplore for worldwide exposure if they comply with its rules</u>.

Deadlines:

- July 17, 2016: Final full paper submission.
- September 2, 2016: Acceptance Notification.
- September 16, 2016: Final paper submission.

Submissions are solicited, but not limited to, in the following areas:

Power	Electronics	Computing
Electric Power Systems	Analogical and Digital Electronics	Neural Networks
Power Quality	Microcontrollers and DSP's	Genetic Algorithms
Electrical Power System	Control of Linear and Nonlinear Systems	Pattern Recognition
Control and Protection	Fuzzy Logic	Vision
Electric Machinery	Diagnosis and Fault Detection	Software Engineering
Renewable Energy	Power Electronics	WEB Technologies
FACTS	Instrumentation	Distributed Systems
Custom Power	Robotics	Intelligent Systems
SmartGrid	Biomedical	Parallel Processing
		Optimization

Activities:

- Conferences
- Special sessions
- Oral presentations
- Industrial exhibition
- · Social and cultural events

Paper submission:

The paper title as well as the abstract has to be in English, and the body of the paper either English or Spanish and is limited to 6 pages using the IEEE templates found at

http://www.ieee.org/conferences_events/conferences/publishing/templates.html

It has to be submitted in PDF format using easychair for the reviewing process.

Venue: Ixtapa, Gro. México

Further information: http://ropec.org (contacto@ropec.org)









The 8th edition of the IEEE/PES Transmission and Distribution Conference and Exposition Latin America (PES T&D LA) will be held in Morelia, Mexico on September 21-24, 2016. The IEEE/PES T&D LA is the Latin America region's premier technical event and industrial exposition about T&D Systems. The conference will include presentations of recognized worldwide experts, technical papers, discussion panels, and tutorial courses along with an industrial exposition. The conference will focus on the current state of the art and lessons learned from techniques and practices developed by leading international companies and utilities. Morelia city, UNESCO "Cultural Patrimony of Humanity", has a rich cultural life inherited over time since the colonial era. All this will provide the right environment to foster interactions, which surely will lead to future collaborations. We invite you to join us in Morelia on September 21-24, 2016 as we look at "Creating the best future practices in T&D systems by participating now"

Call for papers

The Organizing Committee of the 2016 PES Transmission & Distribution Conference and Exposition (T&D-LA 2016) invites students, researchers and practitioners worldwide to submit full papers for consideration to be presented at the conference. The technical committee will assign oral presentations to the accepted papers. All the papers PRESENTED at the conference will be submitted to IEEExplore for worldwide exposure.

Deadlines:

- March 8, 2016: Full paper submission.
- May 8, 2016: Acceptance/Rejection Notification.
- June 8, 2016: Final revised paper submission & Authors Registration

Submissions are solicited, but not limited to, in the following areas of interest:

- Real-time system modeling, simulation and analysis.
- Advanced techniques of decision making and optimization
- Real-time monitoring and emergency control
- Next generation EMS/DMS system, data management, and system planning
- Advanced metering infrastructures and situational awareness
- HVDC and flexible transmission systems
- Big data management and utilization
- Distribution automation

- Electricity markets design and regulatory issues
- Forecasting and simulation techniques for variable resources
- Cyber, physical and system security for smart grids
- · Big data management and utilization
- Operation and control challenges associated with the integration of renewable energy sources and electric vehicles (EV)
- Power system control and protection technologies and methodologies

Activities: Conferences, Special sessions, Oral presentations, Industrial exhibition, Social

and cultural events.

Paper submission: All papers are limited to 6 pages and have to be submitted in PDF format using

easychair for the reviewing process and the IEEE templates found at

http://www.ieee.org/conferences_events/conferences/publishing/templates.html

Venue: Best Western Plus, Gran Hotel Morelia, Mich. México

Further information: http://ieee-tdla16.org (contacto@ieee-tdla16.org)









Concurso de Ética Estudiantil en CONESCAPAN 2015

En el marco de la XXXIV Convención de Estudiantes de Centroamérica y Panamá, CONESCAPAN El Salvador 2015 se llevó a cabo el Concurso de Ética Estudiantil con el respaldo del Comité de Ética y Conducta de Miembros (CECM) del IEEE en las instalaciones de la Universidad Centroamericana "José Simeón Cañas" el pasado 24 de septiembre.

Los participantes por ramas estudiantiles analizaron un caso provisto previamente por el CECM de acuerdo al Código de Ética del IEEE. Se contó con la participación de las ramas estudiantiles participantes de la CONESCAPAN y posteriormente su postura frente al caso fue evaluada ante jurados miembros del IEEE.

Felicitamos a las ramas estudiantiles de la Universidad Nacional Autónoma de Honduras y Universidad Centroamericana "José Simeón Cañas" por haber obtenido el primer y segundo lugar respectivamente en este evento.

IEEE promueve estas actividades para alentar el estudio y la conciencia de la ética profesional en los miembros estudiantiles, además de familiarizar a los miembros con el Código de Ética y proveer de un modelo de discusión y análisis de preguntas éticas en general.





E IEEE day 2015 en Sección El Salvador

Se celebro con sede en el campus de la Rama Estudiantil de la Universidad de Sonsonate al occidente del país, y con la asistencia de las ramas Universidad de El Salvador, Universidad Centroamericana José Simeón Cañas y Universidad Don Bosco. El evento fue técnico-artístico y social. Por la mañana se recibieron las delegaciones, se presentaron papers, durante el almuerzo hubo una presentación artística por parte de la Universidad de Sonsonate, luego actividades lúdicas con torneos de Basquetbol, Futbol, Ajedrez. Para finalizar se entregaron las preseas para los ganadores de los torneos, los pines del programa de Lealtad de Membrecía y se entrego un osciloscopio que fue donado por la empresa SETISA para lo cual se hizo una ronda de preguntas y respuestas de los papers presentados resultando ganador la Rama Universidad de El Salvador.





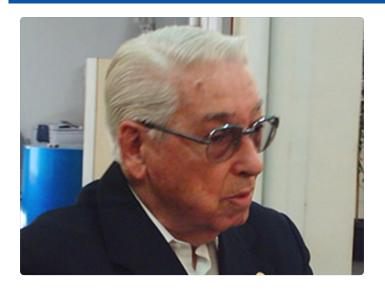
Asistencia en la presentación de papers y la etapa de preguntas



Comité de recepción en la USO



Maestro de Ceremonias: Francisco Puyaut y los Banners de cada una de las Ramas estudiantiles de la Sección El Salvador



Oscar Carlos Fernández

It is with deep regret that I have to inform you that Oscar Carlos Fernandez (LSM 00238816), past R9 Director (1980-1981), passed away on Saturday July 11 at the age of 100 years.

Oscar was an exemplary volunteer. He was born on April 16th, 1915 and devoted over 75 years to IEEE volunteering since he with other IEEE members founded the IEEE Argentina Section in 1939. He was Life Senior Member of IEEE and held numerous positions in Argentina Section, including Chair in the periods 1977/79 and 1993/94 and Regional Director for the years 1980-1981. In 1995 he was the first recipient of the 'Volunteer Outstanding IEEE Latin America' annual regional award, and since 1996 the Region 9 established this award in Fernandez's name to recognize outstanding volunteers.

To thank him for his more than six decades of commitment to the IEEE, the Institute surprised Oscar Fernandez with the first IEEE Regional Activities Board (RAB) Discretionary Award at a ceremony held 3 October, 2006 in Buenos Aires, Argentina. This award was delivered by Pedro Ray (2006 IEEE RAB Vicepresident) and Michael Lightner (2006 IEEE President). The Oscar's profile (attached document)

published in the Institute nine years ago provides a clear view of this IEEE R9 volunteer.

The IEEE Argentina Section celebrated Oscar's 100th birthday on last April 22nd (http://www.ieee.org.ar/imgNoticias/Inge-100-foto_oficial.jpg). During the ceremony several IEEE volunteers from different countries of Region 9 congratulated him and recognized Oscar's contributions through pre-recorded videos. Particularly, Ted Hissey, IEEE Fellow and Director Emeritus, expressed very touching words.

Oscar Fernandez will no longer be with us but his image, advices, comments and exemplary volunteer life will continue to guide us. As he once said "When I become a ghost, the officers will still see me sitting on a chair during the meetings."

Invitación a participar de IEEE ARGENCON 2016



La tercera edición del Congreso Bienal de IEEE Argentina tendrá por primera vez a los videojuegos como protagonistas.

Buenos Aires, 11 de diciembre de 2015 - IEEE ARGENCON 2016 se llevará a cabo los días 15 a 17 de junio en la Ciudad de Buenos Aires. Será la primera vez que el Congreso incorpore a los videojuegos y gamificación entre sus áreas de interés. Se realizará en las instalaciones de la Universidad Tecnológica Nacional, Facultad Regional Buenos Aires, y contará con una serie de Conferencias Plenarias y Presentaciones Presenciales.

La industria de videojuegos genera ingresos globales superiores a los 92 mil millones de dólares por año, se encuentra en plena expansión y ofrece diversas oportunidades comerciales y socioculturales.

Entre las problemáticas que impactan al sector se encuentran las relacionadas a la formación académica y al desarrollo de estándares y buenas prácticas de producción acordadas entre los mejores profesionales e investigadores del campo de los videojuegos.

VGGE –la Sociedad Internacional de Videojuegos– tiene el agrado de invitarlos a participar de IEEE ARGENCON 2016 (sites.ieee.org/argencon) presentando papers sobre tecnología, diseño o desarrollo tecnológico. Los trabajos e investigaciones cobrarán difusión internacional a través de IEEE (ieee.org), la sociedad profesional más grande del mundo, abriendo enormes oportunidades de negocios y presencia a escala mundial. Por favor, descargue el llamado [Llamado – Inicial.pdf].

En la oportunidad, VGGE presentará un plan de estudios integral para las carreras de desarrollo de videojuegos ante un panel conformado por las universidades e instituciones públicas y privadas que ofrecen esta clase de formación, con el objetivo de consensuar un estándar de calidad y contribuir así a la excelencia educativa y a la formación de profesionales idóneos en sus diversas disciplinas técnicas y artísticas.

Invitamos a participar de esta mesa abierta para evaluar el desarrollo de un plan de estudios troncal homologado a nivel mundial con validez de IEEE.

Por otra parte, VGGE organizará una serie de muestras, conferencias y actividades relacionadas al sector videojuegos, que por primera vez se acerca a las ingenierías a través de ARGENCON.

Se encuentra abierta la posibilidad de participar como patrocinador y auspiciante, con presencia destacada en el Congreso. Para ello, por favor comunicarse con VGGE antes del 30 de abril de 2016.

Contacto

ARGENCON: argencon@ieee.org.ar

PhD Daniela López de Luise: daniela_ldl@ieee.org

Acerca de IEEE

IEEE es una gran organización profesional técnica mundial que se dedica al avance de la tecnología en beneficio de la humanidad. A través de sus publicaciones muy citadas, conferencias, estándares de tecnología y las actividades profesionales y educativas, IEEE es la voz de confianza en una amplia variedad de áreas que van desde sistemas aeroespaciales, computadoras y telecomunicaciones hasta la ingeniería biomédica, energía eléctrica y electrónica de consumo. Más información: www.ieee.org

Acerca de VGGE

Video Games and Gamification Engineering es una sociedad en desarrollo de IEEE. Se orienta al área profesional, académica y científica de los videojuegos y ludificación de actividades, con el objetivo de formalizarla, una necesidad urgente en esa área de conocimientos. La iniciativa es acompañada por miembros de Argentina, Uruguay, Brasil, Colombia, México, Perú; también por IGDA (International Game Developers Association) y Unity Technologies, entre otras destacadas.

VGGE se encuentra abierta gratuitamente a nuevos socios.

Más información en sites.ieee.org/uruguay/vgge.





IEEE R9 DIRECTOR REPORT - 2014-2015

NORBERTO LERENDEGUI - IEEE R9 - Director Regional 2014-2015 nlerendegui@ieee.org

1. R9 Organization

The IEEE Region 9 Committee comprises Section and Council representatives, Executive Committee (ExCom), Standing Subcommittees and AdHoc Subcommittees. Sections are represented by their chairs or, under approval of the regional director, by their vicechairs. Information concerning the Region 9 may be found in its website (www.sites.ieee.org/r9/).

The R9 Executive Committee is composed by Director, Director-Elect, Past-Director, Secretary and Treasurer. The Director-Elect is the head of the Membership Development and Strategic Planning Subcommittees. The Past-Director chairs the Nominations and Appointments Subcommittee that is formed by all past regional directors.

The 2014-2015 R9 Executive Committee was composed by the following volunteers:

- Regional Director (Norberto Lerendegui, Argentina)
- Regional Director Elect (Antonio Ferreira, Brazil)
- Past Regional Director (Gustavo Giannattasio, Uruguay)
- Regional Secretary (Antonio Calderón, Mexico)
- Regional Treasurer (Jorge Him, Panama)

The R9 Standing Subcommittees (Subcommittee Chairs, Country) are the following:

- Technical Activities (Isidro Lazaro, Mexico, 2014-2015)
- Education Activities (Joberto Martins, Brazil, 2014-2015)
- Student Activities (Augusto Herrera, Argentina, 2014-2015)
- Student Representative (Marinara Marcato, Brazil, 2015; Paola Beltran, Colombia, 2014)
- Membership Development (Antonio Ferreira, Brazil; RD Elect)
- Awards & Recognition (Tania Quiel, Panama, 2014-2015)
- Electronic Regional Magazine NoticIEEEro (Salomon Herrera, Ecuador, 2014-2015)
- Electronic Transactions Magazine (Mirela Sechi Moretti, Brazil

, 2014-2015)

- Information Management and Electronic Communications (Fabian Peña, Colombia, 2014-2015)

The 2015 R9 AdHoc Subcommittees were the following:

- Strategic Planning (Antonio Ferreira, Brazil; RD Elect)
- Nominations & Appointments (Gustavo Giannattasio; past RD)
- Young Professionals (Celso Crivelaro, Brazil, 2014-2015)
- History (Francisco Martinez, Mexico, 2014-2015)
- WIE (Clarissa Loureiro, Brazil, 2015; Elena Duran, Ecuador, 2014)
- Fellows (Antonio Jardini, Brazil, 2014-2015)
- Voluntary Contribution Fund (Gustavo Giannattasio; past RD)
- Life members (Carlos Nafarrate, Mexico, 2014-2015)
- New Initiatives (Carlos Lozano, Colombia, 2014-2015)
- IEEE Foundation (Ruben Barrera Michel, Mexico, 2014-2015)
- SIGHT (Eduardo Navarro, Venezuela, 2014-2015)
- Industry Relations (Alessio Borelli, Brazil, 2014-2015)
- Sections Vitality (José David Cely, Colombia, 2014-2015).

1. R9 Statistics

Item	2015	2014	2014	2013	2012
item	(Oct)	(Oct)	(*)	(*)	(*)
Sections	33	33	33	33	33
Subsections	8	8	8	8	8
Councils	5	5	5	5	4
Total Membership	17,701	17,993	18,900	19,067	19,376
High Grade	10,245	10,469	10,557	10,614	10,339
Students (UG+G)	7,456	7,524	8,343	8,453	9,037

(*) At December 31

3. Regional Director Meetings

3.1. MGA-BoD-R9 Meetings

(AF)	10 micetings - 1 c	rticipation of RD (NL) and RD	
Month	Dates	Event / Place	Attended by
2014			
JANUARY	Fr 10 - Tu 14	IEEE BoD Retreat - Rio de Janeiro, Brazil. Visit to Industry.	NL+AF
FEBRUARY	Th 13 - We 19	IEEE MGA/BoD February Series - Los Angeles, USA	NL+AF
MARCH	Mo 24 - Su 30	IEEE R9 Meeting + YP2014 + WIE22014 - Bogota, Colombia	NL+AF
JUNE	We 11 - Fr 13	ARGENCON Congress - Barlloche, Argentina	NL
JUNE	We 18 - We 25	IEEE MGA/BoD - New Brunswick, USA	NL+AF
JULY	Su 20 - Sa 26	27 Reunión Internacional de Verano de Potencia - RVP-Al/2014 (Grand Hotel Acapulco)	AF
JULY	Th 31 - Su Aug/3	Humanitarian Activities Ad Hoc Committee Meeting (HAHC) - New Jersey, USA	NL
AUGUST	Mo 4 - Fr 8	INTERCON 2014 - Lima, Perú. ELEKTRON ÁWAKK	AF
AUGUST	Th 21 - We 27	IEEE Sections Congress - Amsterdam, The Netherlands. Mo 8/25: BoD Meeting	NL+AF
AUGUST	Th 28	AIE-IEEE JANS Ceremony - Santiago, Chile	NL
OCTOBER	Th 2 - Su 5	IEEE RRR2014 - Santlago, Chile	NL+AF
OCTOBER	Sa 18	Senior Member Panel, Buenos Aires	NL
NOVEMBER	We 12 - Fr 14	CONCAPAN XXXIV Congress - Panama City, Panamá	NL
NOVEMBER	We 19 - Ma 25	IEEE BoD - New Brunswick, EEUU. SA 22/11: MGA Meeting.	NL+AF
DECEMBER	We 10	AIU-IEEE JANS Ceremony - Montevideo, Uruguay	NL
2015	1		
JANUARY	Mo 5 - We 7	Meeting with officers of Western Puerto Rico and Puerto Rico and Caribbean Sections	NL
JANUARY	Th 8 -Su 11	IEEE BoD Retreat - San Juan, Puerto Rico	NL
FEBRUARY	Tu 3 - We 11	IEEE BOD, - Los Angeles, EEUU	NL+AF
MARCH	We 11 - Sa 14	R9 Regional Meeting - Monterrey + YP2015 + WIE2015	NL+AF
MAY	Sa 16 - Sa 23	China Outreach - Shenzhen, China	NL
JUNE	Th 4 - Su 7	IEEE RNR Brazil - Brasilia - Plenary Speaker	NL
JUNE	We 17 - We 24	IEEE MGA/BoD - New Brunswick, USA	NL+AF
JULY	Th 23 - Tu 28	IEEEIn2030 Group Meeting	NL
AUGUST	Th 13	AIE-IEEE JANS Award - Santlago, Chile	NL
AUGUST	Tu 25	Paraguay Section	NL
OCTOBER	Th 1 - Su 4	IEEE RRR2015 - Guatemala	NL+AF
OCTOBER	Fr 23 - Su 25	IEEEIn2030 Group Meeting	NL
NOVEMBER	We 18 - Tu 24	IEEE BoD - New Brunswick,USA	NL+AF

3.2. Meetings with Section Officers

Section	Date	Event
Bolivia		
Colombia		
Ecuador		
Peru		
Venezuela		
Bahia	June 4, 2015	Council Meeting - RNR-2015
Brasilia (Centro Norte)	June 4, 2015	Council Meeting - RNR-2015
Minas Gerais	June 4, 2015	Council Meeting - RNR-2015
Rio de Janeiro	June 4, 2015	Council Meeting - RNR-2015
South Brasil	June 4, 2015	Council Meeting - RNR-2015
Costa Rica	Nov 12-14, 2014	CAPANA Meeting - CONCAPAN 2014
El Salvador	Nov 12-14, 2014	CAPANA Meeting - CONCAPAN 2014
Honduras	Nov 12-14, 2014	CAPANA Meeting - CONCAPAN 2014
Guatemala	Nov 12-14, 2014	CAPANA Meeting - CONCAPAN 2014
Nicaragua	Nov 12-14, 2014	CAPANA Meeting - CONCAPAN 2014
Panamá	Nov 12-14, 2014	CAPANA Meeting - CONCAPAN 2014
Argentina	Every Other Month	Regular Officer Meetings
Chile	Aug 28, 2014 and Aug 13, 2015	AIE-IEEE JANS Award Ceremony - Santiago, Chile
Paraguay	Aug 25, 2015	Asuncion - Especial meeting with Students and Officers
Uruguay		
Aguascalientes	March 13, 2015	R9 Meeting - Monterrey, Mexico
Centro Occidente	March 13, 2015	R9 Meeting - Monterrey, Mexico
Guadalajara	March 13, 2015	R9 Meeting - Monterrey, Mexico
Guadalajara	March 13, 2015	R9 Meeting - Monterrey, Mexico
Guanajuato	March 13, 2015	R9 Meeting - Monterrey, Mexico
Guanajuato	March 13, 2015	R9 Meeting - Monterrey, Mexico
México	March 13, 2015	R9 Meeting - Monterrey, Mexico
Monterrey	March 13, 2015	R9 Meeting - Monterrey, Mexico
Morelos	March 13, 2015	R9 Meeting - Monterrey, Mexico
Puebla	March 13, 2015	R9 Meeting - Monterrey, Mexico
Querétaro	March 13, 2015	R9 Meeting - Monterrey, Mexico
Veracruz	March 13, 2015	R9 Meeting - Monterrey, Mexico
Puerto Rico & Caribbean	Jan 6, 2015	Visit prior to IEEE BoD Retreat - San Juan, Puerto Rico

4. Summary of Activities and Results

4.1. Standing Committees

4.1.1. Technical Activities

Activities

- Preparation and implementation of the workshop "How to Organize Technical Conferences".
- Promotion of conferences, webinars, and other events organized by different sections of Region 9 through mechanisms like e-notices and "NoticlEEEro".
- Support of the conference INTERCON organized by Peru Section, helping the organizing committee to establish a conference with indexed memories on IEEEXplore.

- Support to the Costa Rica Section Chair Elect to organize an international computer science conference.
- Support of the Guanajuato section to teach the "How to Organize Technical Conferences" workshop. Currently in progress.
- Support to the Queretaro and Peru sections to consolidate their revising committees to help their conferences. For the Queretaro Section's case additional information was provided to help officers organize conferences with indexed proceedings on IEEExplore since 2015.
- Disclosure of information to organize a tour with distinguished speakers to the Guatemala, Guanajuato, and Perú sections.
- Disclosure of information to the Puebla section referring to the creation of new student chapters.
- The MOU was approved so that region 9 could be technical co-sponsor of the CLEI conference (19-23 October, 2015). Also included is the management of the payment corresponding to the indexation of articles published in the conference, where the amount received benefits the development of technical activities of Region 9 and the Peru section (country where the event is taking place).
- The MOU was approved so that region 9 could be technical co-sponsor of the 3rd International Conference on eDemocracy & eGovernment "ICEDEG 2016" (30th March-April 1st 2016). Also included is the management of the payment corresponding to the indexation of articles published in the conference (5 Full event registrations), where the amount received benefits the development of technical activities of Region 9 and the Ecuador Section (country where the event is taking place).
- Support to the Guadalajara section referring to the creation of new Joint chapters.
- Support to the Guanajuato section to teach the "How to Organize Technical Conferences" workshop. Date pending.
- A guide with information about to creating chapters and how to organize tour with DLs is being prepared for publication on the newsletter "NoticIEEEro".

Strategic Objectives

Activities / Tactical actions	Actions Carried Out	Results
First Virtual Regional Congress of Engineering (VICENG) Contacting all Chairs and Technical Activities coordinators to promote their participation in the event.	Contributing to the integration of the region through the organization of virtual technical events	Not Achieved. It requires a budget for the development and maintenance of the virtual platform for virtual congress

Activities / Tactical actions	Actions Carried Out	Results
Continuing promoting the development of IEEE conferences with proceedings published in IEEExplore/Making a guide of the basic procedure to follow and spread it. Promoting the development of IEEE conferences with proceedings published in IEEExplore./Training Session: How to organize Technical Conferences	Increasing the number of IEEE conferences in the region with indexed proceedings in IEEEX/plore, promoting the participation of a larger number of members/ Increasing the number of indexed papers from the region in the IEEE data bases and a larger number of IEEE conferences in the region.	Goal achieved

Strategy3 / objective	Secretarion Administration (Control of Control of Contr	
Activities / Tactical actions	Actions Carried Out	Results
Continuing encouraging the consolidation, reactivation, and creation of chapters. / Sending periodic newsletters of the situation of the chapters in each section, promoting visits and developing technical events to reactivate chapters.	Development of more technical activities in the region. // More participation of members in technical events and consolidation of memberships per technical society.	Goal Not Achieved. It requires Money for development of more technical activities in the region

Strategy4 / objective	A CONTRACTOR OF THE CONTRACTOR	
Activities / Tactical actions	Actions Carried Out	Results
Continuing with promoting tours with Distinguished Lecturers (DL)	Increasing the number of high level technical conferences in the region. / Promotion of student and professional participation in this kind of conferences.	Goal partially achieved.

Strategy5 / objective		
Activities / Tactical actions	Actions Carried Out	Results
Continuing with promoting the speakers program in region 9	Encouraging member participation in conferences and technical courses. / Having a list of regional speakers that can attend events in the region. / Having at least 15 speakers of different areas for technical events.	It requires more money

Strategy6/ objective		
Activities / Tactical actions	Actions Carried Out	Results
Promoting the development of new initiatives: conferences, workshops, seminars, etc., that contribute to the consolidation of chapters or sections. / Supporting with funds the development of new initiatives aimed to reach this.	Increase the number of new conferences or technical events in the region / Promote participation of students and professionals such Activities / contribute to the consolidation of chapters and sections.	It requires more money

4.1.2. Educational Activities

Strategic Objectives

The Action Plan 2014-2015 involved five distinct objectives and proposed contributions:

Objective 1: Improve EAC-R9 (and EAB) "communication" with R9 Sections;

Objective 2: Focus on demanding EAB services and/or tools;

Objective 3: Increase R9's Education Awarding;

Objective 4: DLT-like R9 specific program; and

Objective 5: Foster accreditation activities at R9.

Activities / Taction	cal action	Actions Carried Out	Results
Improve EAC-R9 "communication" Sections.	(and EA with	B) This objective was achieved as a continuous 9 action started in 2014 directly at R9 and through SEOC (Section Education Outreach Committee) activities. The improved "communication" with R9 sections was fostered by creating new communication channels and actions such as:	Goal Achieved
		 Contact was established with regional sections in order to update Educational Activities information and actions; 	
		A communication channel was proposed to IEEE in order to provide updates on educational products and services; and	
		A set of Webinars focusing on Educational Activities for section Educational Coordinators was discussed and structured. This action, effectively, involves IEEE sections in general and is not exclusive for R9.	
		Another related action concerning this objective was R9 participation at the IEEE Educational Activities Board – 2014 Mini-Series at The Wyndhan Hamilton Park, New Jersey from 10 to 11 April. The Mini-Series Program involved a set of discussions and decisions in terms of section communications, educational tools availability and accreditation process in recions in general.	

Activities / Tactical actions	Actions Carried Out	Results
Focus on demanding EAB services and/or tools	This objective was minimally achieved by contacting some regional sections in order to update Educational Tools information and demanded services. Another related action concerning this objective was R9 participation at the IEEE Educational Activities Board – 2014 Mini-Series at The Hyndman Hamilton Park, New Jersey from 10 to 11 April.	Goal Minimally Achieved

Strategy 3 / objective		
Activities / Tactical actions	Actions Carried Out	Results
Increase R9's Education Awarding	This objective was achieved by the dissemination and incentive to awarding. This activity was executed mainly by email actions reinforcing and directly requesting volunteers to submit to Regional, MGA EAB and IEEE Awards.	Goal Achieved

Strategy 4 / objective	1		
Activities / Tactical actions	Actions Carried Out	Results	
DLT-like R9 specific program	Goal for upcoming volunteers actions	Goal Not Achieved	

Strategy 3 / objective		
Activities / Tactical actions	Actions Carried Out	Results
Increase R9's Education Awarding	This objective was achieved by the dissemination and incentive to awarding. This activity was executed mainly by email actions reinforcing and directly requesting volunteers to submit to Regional, MGA EAB and IEEE Awards.	Goal Achieved

Strategy 4 / objective		
Activities / Tactical actions	Actions Carried Out	Results
DLT-like R9 specific program	Goal for upcoming volunteers actions	Goal Not Achieved

Strategy 5 /	objective	
Activities / Tactical actions	Actions Carried Out	Results
Foster accreditation activities at R9	Accreditation activities at R9 were fostered, in brief, by the following set of events, actions and ongoing activities (with planning to continue in 2016 and 2017):	Goal Fully Achieved
нэ	Realization of the 1ST IEEE LATIN AMERICAN ACCREDITATION SUMMIT at Sonesta Hotel, El Olivar - Lima, Peru, from 6 to 9 September 2014;	
	Realization of the 2ND IEEE REGION 9 ACCREDITATION BODY SUMMIT at Sonesta Hotel, El Olivar - Lima, Peru, from 1 to 2 September 2015; and	
	Signature of "LIMA DECLARATION" at the SECOND IEEE REGION 9 ACCREDITATION BODY SUMMIT.	
	The realization of both the 1st IEEE LATIN AMERICAN ACCREDITATION SUMMIT and the 2nd IEEE REGION 9 ACCREDITATION BODY SUMMIT involved the coordination and articulation of distinct institutions like the IEEE R9 Educational Activities Committee – EAC-R9, IEEE Educational Activities Board - EAB, IEEE Committee on Global Accreditation Activities — CGAA and ICACIT.	
	The signature of "LIMA DECLARATION" is a major achievement in terms of the accreditation process for Latin America. The main goal to be pursued from now on is to provide a set of commonalities among accreditation programs and agencies process throughout the region, to improve and try to establish a set of nomenclature terms for engineering and computer science programs among countries and, finally, to foster and promote education experts exchange between agencies and countries.	
	The "Lima Declaration" was signed at the 2nd IEEE REGION 9 ACCREDITATION BODY SUMMIT by representatives from seven Latin American screding agencies, pledging support to the process of creating the "LIMA ACCORD", which will be an international accreditation agreement for professional engineering academic degrees between the bodies responsible for accreditation in Latin America (IEEE Region 9).	
	The signatories of the Lima Declaration included the following accreditation agencies:	
	Caribbean Accreditation Council of Engineering and Technology (CACET) of the Caribbean;	
	Accrediting Agency Engineers Association of Chile (Acredita CI SA) in Chile;	
	National Accreditation Council (CNA) of Colombia;	
	The Accreditation Council for Engineering Education (CACEI) of Mexico;	
	Central Agency for Accreditation of Architecture and Engineering (ACAAI) in Central America;	
	Institute for Quality and Accreditation of Computer Science, Engineering and Technology (ICACIT) of Peru; and	
	National System of Evaluation, Accreditation and Certification of Educational Quality (SINEACE) of Peru.	

At this moment (December 2015), EAC R9 is deeply involved in the ongoing "LIMA ACCORD Action Plan for 2016 – 2017" towards the creation of the LIMA ACCORD.

These ongoing and future actions involve the IEEE MGA/CGAA (Committee on Global Accreditation Activities) support with a continuous set of working meetings (videoconferences) in 2015, the organization and preparation of a set of working documents towards the common accreditation process envisaged and a planned R9 Accreditation Agencies event initially scheduled for September 2016.

4.1.3. Student Activities

Statistics

At the end of the membership year, student membership increase 3.9% compared with 2014. It is more than any other Region. Students cumulative recruitment increase 4.8%, only surpassed by Region 5. Retention of student members (overall) and first year member students increase too in relation with 2014.

SAC Team

The R9 SAC Team has 15 volunteers from 8 Sections. A total of 7 (seven) meetings were organized by the R9 SAC Team this year. Date of each meeting: 19/02, 24/03, 12/05, 11/06, 22/07, 23/08, 27/10. Other 5 (five) meetings were organized with focus on the RRR, only with organizers.

Contests and webinars

The R9 SAC Team launched nine contests this year:

- IEEE Web Site Contest, supported by IEEE MGA Students Activities Committee.
- IEEE Video Contest, supported by IEEE MBPAC.
- IEEE MD + Roadshow Contest, supported by IEEE MBPAC.
- IEEE TISP Contest, supported by IEEE EAB.
- IEEE Selfie Contest.
- IEEE Photo Contest.
- IEEE Success Cases Contest.
- IEEE Student Ethics Competition held at RRR 2015 and supported by IEEE EMCC.
- IEEE Day Contest, supported by IEEE EAB.

In addition, 7 students applied for Larry K. Wilson 2015 award and 3 Student Branches to the IEEE Exemplary Student Branch award.

A total of twelve webinars were launched: nine technical, two training and one administrative.

STB National and Regional Meeting

This year we had the first Student Branch Meeting in two Sections. A summary is provided below:

- Peru Section, March 6 to 8 in Chivay. More than 60 students and 11 STBs have attended.
- Bolivia Section, March 21 and 22 in La Paz. More than 30 students from 5 STBs
- Colombia Section, April 24 to 26 in Cajicá. More than 120 students from 30 STBs.
- Brazil Council STB Meeting, June 4 to 6 in Brasilia. More than 160 students from 19 STB.
- Ecuador Section, August 12 to 15 in Loja. More than 80 students from 11 STBs.
- Argentina Section, October 1 to 3 in Tucumán. More than 35 students from 9 STBs.
- R9 STB Regional Meeting, October 1 to 4 in Guatemala. More than 150 students.
- Guanajuato Section, October 31. More than 30 students from 4 STBs.
- Puerto Rico Section, November 6 and 7 in San Juan. More than 25 students from 4 STBs.
- Chile Section RNR will be next 11 and 12, December.

New STB/STB Chapters

A total of 103 petition requests have sent in 2015 by STB.

- 20 of them to create a STB.
- 15 to create a WIE Student Group.
- 68 of them to create a Student Chapter.

Strategic Objectives

Strategy 1 / objective		
Activities / Tactical actions	Actions Carried Out	Results
Improve retention and recruitment rate	An email was sent to all students and first year member students. Some flyers were prepared and attached to this emails sent [1].	Goal achieved. At 15Aug15 (end
	- A webinar to first year member students was organized, it was launched by webex and it was recorded to join offline [2].	membership year), R9 student
	 An email with STB statistics was sent periodically to Section Chairs and S SACs, notifying about Branches status. The IEEE MD + Roadshow Contest was launced [3], focusing in reactivate STBs and develop MD material available to all students. 	membership increas- more than any other Region [4][5].
	 Bell/DB-k Yo_HocDjIVHZDRUQ 4 Q3FnZ 2c/view com/leeem eetings./ldr.php?RCiD=fea0c5b 0637a 48c07 61 280 aee 043 6e 7f	
	5/00/15/leee-membership-development-roadshow-contest/	
	le/d/DB-kYo_HocDJIQW:xkZFhCOTJLc:2tTdC:1GRIZ:nU3VYVklmR1FN/vlew le/d/DB-kYo_HocDlIYkdybm!ObV0PUXdXYkczbFhkeEpodnVCQkpn/vlew	

Strategy 2 / objective		
Activities / Tactical actions	Actions Carried Out	Results
Samieee and vtools training, for Branches authorities	 A quick tutorial about how to use samieee and vtools was prepared and sent to STB authorities A webinar about vtools and other about samiee was launched, by webex. It was recorded and have available to join offline. The links to the webinars was sent to all STB authorities [1[2]]. 	Goal achieved.
	 8x. com/l eeem eetin gs:/ldr. php?RCiD= 50e247852c8a5543652527072b565d35 8x. com/l eeem eetin gs:/ldr. php?RCiD= 301845d8bacc401682056d32ae8a80e0	13

Strategy 3 / objective		
Activities / Tactical actions	Actions Carried Out	Results
SAC in all Sections of Region 9	- An email was sent to all Section who didn't have an S SAC appointed.	Goal not achieved. Not all sections are
	- Periodically emails were sent to all S SAC, trying to contact them during the year.	active*.
"Note: we finish the year wit	h 25 S SACs appointed (over 33 Sections).	100

Strategy 4 / objective		<i>p</i>
Activities / Tactical actions	Actions Carried Out	Results
Improve relationship between SAC, YP and	- SAC Committee was keep in touch with YP and WIE Chairs during all year.	Goal achieved.
WIE	 A total of 8 contests were launched by SAC Committee, 5 of them available to YP and WIE members. 	
	- YP and WIE activities were carried out inside the STB Regional Meeting 2014 and 2015.	

Strategy 5 / objective		
Activities / Tactical actions	Actions Carried Out	Results
Reactivate inactive	- Same activities than Strategy 1.	Goal achieved. We began 2014 with 110 active Branches, and we finish 2015 with 181 active Branches
Students Branches	- The IEEE MD + Roadshow Contest পুরুর launched, the Roadshow focusing in reactivate STBs.	
	 An email with STB statistics was sent periodically to Section Chairs and S SACs, notifying about Branches status and encourage them to take actions. 	
	A flyer was prepared and sent, trying to work over Roadshow program [1].	
[1] https://drive.google.com/fi	e/d/0B-kYo HocDjiN29Bel15UFF2b2s/vlew	

Recommendations

- Continue next year with all the strategies.
- Improve retention of IEEE student first year member, working focus in them.
- Try to organize RNR in Mexico Council.

4.1.4. Membership Development

Activities

- It was created a distribution list for R9 MD officers. If the Section does not have a MD coordinator, the position is filled by the Section Chair.
- The list is used to socialize all the information and opportunities regarding MD and also to distribute monthly MD reports. Section's individual needs are dealt with directly with the Section MD officer.

Statistics

- At the end of October 2015, R9 had 17701 members in IEEE database (1.6% below last year at the same time).
- This year, MD goals have been created for each individual Section, for both recruitment and retention. The Section goals are rolled up to the Region level, producing the Region goal for recruitment, retention and overall membership. Region 9 Sections were informed of their goals and were regularly informed of their progress.
- Four Sections in Region 9 achieved outstanding performance in both recruitment and retention for the 2015 membership year.
- Eleven Sections met their recruitment goals and eight Sections met their retention goals.

Strategic Objectives

Strategy 1 / objective Activities / Tactical actions	Actions Carried Out	Results
Ensure every Section has an MD coordinator. In case a Section lacks of MD coordinator, the Section Chair and/or Section Vice-Chair Chair will be requested to hold that position	It was created a distribution list for R9 MD officers. If the Section does not have a MD coordinator, the position is filled by the Section Chair. The list also included Student Activities Chair and MD.	Goal achieved

Strategy 2 / objective Activities / Tactical actions	Actions Carried Out	Results
Ensure that all MD coordinators know and regularly use the available MD tools.	Sections received regular communications with MD tools specially the developments of the Section Vitality Dashboard. Sections were invited and encouraged to attend MD webinars organized by IEEE MRRC. MD flyer and MD Manual translated into Spanish were distributed to Spanish speaking Sections.	It is not easy to evaluate if Sections are using the tools. The poor response from Sections indicates that they do not use them.

Strategy3 / objective		
Activities / Tactical actions	Actions Carried Out	Results
Surpass IEEE A&A 2014 Senior Member Goals by 10%.	A guide for SM nomination in English, Spanish and Portuguese was sent to Sections. Regular communication with Sections encouraging SM nominations.	Partially reached. In 2014 we reached 107% of our goal but in 2015 we only reached 81%.

Strategy4 / objective Activities / Tactical actions	Actions Carried Out	Results
Work with R-SAC, R-WIE and R-YP to identify opportunities of recruitment and retention	Communication with committees in order to create project oriented a common project.	Not reached. The joint projects created by those committees did not have MD Committee .participation

Strategy5 / objective		
Activities / Tactical actions	Actions Carried Out	Results
Identify MD best practices and socialize among Region 9 Sections	Sections were asked to send their best practices.	Not reached. Only one Section responded to this initiative. The response was socialized in the MD monthly report to Sections

Strategy6/ objective		
Activities / Tactical actions	Actions Carried Out	Results
Regular communications with local MD coordinators	Messages sent to all MD coordinators to provide them the latest information on IEEE and R9.	Goal achieved

Recommendations

• Work with SAC, YP, WIE in order to develop plans on how to increase young member retention and the transition from Student to Member; bring the other committees in this effort;

- Increase efforts on Senior Members elevation.
- For the 2015 membership year, IEEE MRRC introduced MD goals for each individual Section, for both recruitment and retention. In the 2015 membership year, eight Region 9 Sections have exceeded their retention goals for the year and eleven Sections have met their recruitment goals! Four Sections in Region 9 have surpassed their goals for both recruitment and retention for the membership year! I recommend we increase the work with the Sections in order to get them involved in this effort.

4.1.4. Awards & Recognition

Activities

During June to November 2015 the following activities were performed by R9 Awards & Recognitions Committee.

- Continuous promotion MGA Awards to all Regional Committee members and volunteers. This was done via emails to the region group mailing lists. Total of 5 nominations from R9 were submitted to MGA Individual Awards. Some nominations were supported by this committee.
- MGA Outstanding Small Section was given to the Nicaragua Section
- Continuous promotion the elevation to Senior Members in the region in order to achieve the target number established. The 2015 SM members were sent to the NoticlEEEro editor. Reached Goal = 69%
- At this moment the committee is working in the translation of the awards documentation in order to update the award portal and website. The information on the website was updated with the info of the motions approved by the Regional Committee.

Strategic Objectives

Activities /	Actions Carried Out	Results
Tactical actions		
Promotion of Regional	All the awards were presented at the 2014 and 2015 Annual Regional Meetings.	Goal
Awards, announce awards and comply with	In 2014 the following Regional Awards were presented:	achieved.
award rules for	Region Outstanding Section, presented to the Peru Section	
submittal of proposal and evaluation.	Outstanding Volunteer Oscar C. Fernandez Award, presented to Ricardo Taborda from the Argentina Section.	
	Best Achievement Award presented to the Puebla Section for the project "Compartir es Educar".	
	Theodore W. Hissey Award presented to Mario Aleman from the Nicaragua Section, Daniel Boquin from Honduras Section and Jose Oniram de Aquino from the Centro Norte Brazil Section.	
	"Ingeniero Eminente" Award presented to Enrique Tejera from the Panama Section.	
	Region Director Discretional Award presented to Francisco Martinez.	
	Region Meritorious Services Award presented to Manuel Rodriguez Perazza	
	 Special recognition to Colombia Section for the outstanding work in the organization of the Regional Meeting 2014. 	
	In 2015 the following Regional Awards were presented:	
	Region Outstanding Section, presented to the Panama Section.	
	Outstanding Volunteer Oscar C. Fernandez Award, presented to Leonardo Perez from the Panama Section.	
	Best Achievement Award presented to the Nicaragua Section for the project "Maker Space".	
	Theodore W. Hissey Award presented to Milton Marche from the Argentina Section, Thiago Ribeiro de Alencar from South Brazil Section and Manuel Rodriguez Perazza from the Western Puerto Rico Section.	
	"Ingeniero Eminente" Award presented to Jaime Guerra from Peru Section and Victor Urrutia from the Panama Section.	
	 Region Director Discretional Award presented to Jose Jardini, Mirela Seshi Moretti Annoni Notare, Fabian Pena and Augusto Herrera for their contributions and commitment to the committees and members in the Region. 	
	Region Meritorious Services Award presented to Francisco Martinez.	
	 Special recognition to Monterrey Section for the outstanding work in the organization of the Regional Meeting 2015 and Mexico Section for its support to the activities in the Region especially with the Theodore Hissey Award. 	
	In 2015 and for first time an Award Ceremony were organized during the Closing Ceremony of Regional Meeting.	

Actions Carried Out	Results
The Senior Member grade has high retention rate.	Goal achieved in 2014, 107%.
Messages were sent to Regional Committee Members and other volunteers in the Sections in order to submit nominations.	In 2015 only 81% was reached.
Support given to the Section officers in the process of nominations and referrals.	
	The Senior Member grade has high retention rate. Messages were sent to Regional Committee Members and other volunteers in the Sections in order to submit nominations. Support given to the Section officers in the process of

Activities / Tactical actions	Actions Carried Out	Results
Fromotion of MGA Awards and other Board Awards. Constant communication with deadlines and requirements for available MGA Awards and other IEEE Board Awards.	Messages to promote awards were sent to Regional Committee Members and other volunteers in the Sections in order to submit nominations. Support given to the Section officers in the process of nominations and referrals. Submitted nominations for MGA Awards. In 2014 total of 11 nominations were submitted to MGA Awards. In 2014 total of 81 nominations were submitted to MGA Awards. In 2014, the following MGA Awards were presented to sections and members in R9: Outstanding Section Award, Small - IEEE Panama Section, Region 9 In 2015, the following MGA Awards were presented to sections and members in R9: Outstanding Section Award, Small - IEEE Nicaragua Section, Region 9 Mario Alejandro Aleman (R9), Nicaragua Section Min Chen (R9), Panama Section Min Chen (R9), Panama Section	Goal achieved

Strategy4 / objective		
Activities / Tactical actions	Actions Carried Out	Results
Enhancement of Regional Awards. Implement the online submission portal of the	The online awards submission portal called FluidReview for the region was configured. Now in test phase.	In progress. Test configuration completed.
Region 9 Awards and Recognitions Program. From this portal, nominators can submit nominations; send emails to endorsers requesting recommendations, and upload supporting documentation.		In review with MGA staff.

Strategy5 / objective		
Activities / Tactical actions	Actions Carried Out	Results
Update documentation of the Regional Awards and Recognitions Program.	Awards rules and forms were updated through motions approved during the regional meetings in 2014 and 2015.	Goal achieved.
	Information about Regional Awards documentation and form were sent to Secretary and IMC Regional in order to update the Operations Manual and website.	
	Documentation and forms were translated, now in review phase for upload to website.	

Recommendations

- Continue in 2016-2017 with all the strategies
- Set a new goals for number of nominations to the awards
- Organize a presentation/workshop about how to fill forms and submit nominations to awards and recognitions.
- Continue to improve the awards in the Region
- Continue to improve the Award Ceremony during the Regional Meetings

4.1.6. Electronic Regional Magazine (NoticIEEEro)

Activities

- Participate in the Regional Strategic Planning Committee. We collect 20 SWOTs analysis from 20 Sections and we are analyzing and we will define the goals in Region 9 for the next two years.
- Prepare the electronic editions of the magazine.
- Structure a team to design the NoticlEEEro website. Follow the work of the team and prepare information to be update in the site. Give the hosting for the website to the web designer. To motive young volunteers working with Regional activities.
- Work with a volunteer in Brazil to design the covers of the magazine.
- Keep update and try to gain followers in the NoticIEEEro social networks.
- Work with the Regional Treasurer to try to get sponsors for the print edition but it was difficult to execute this project.
- Start to give information to the new NoticlEEEro EiC for the next two years. Contact the Sections to send articles for the last 2015 edition.
- Recognize the work of the Students winners of the regional photo competition and webpage contest and using their skills working in the NoticIEEEro committee.

Strategic Objectives

Strategy 1 / objective		
Activities / Tactical actions	Actions Carried Out	Results
Keep periodical editions	For two years editions of the magazine were issued. In total there were 12 editions. All issues will be on the regional website. All sections were invited, the councils and the regional committees too.	Goal achieved

Strategy 2 / objective		
Activities / Tactical actions	Actions Carried Out	Results
Promote Region 9 activities in other IEEE Regions	I invited the IEEE Technical Societies and the Volt program volunteers. I participated as a representative of the Region in the 2014 VOLT program. Volunteers and IEEE staff members wrote articles for the NoticIEEEro	Goal achieved

Strategy3 / objective		
Activities / Tactical actions	Actions Carried Out	Results
Improve the visibility of the magazine to generate revenues for the Region. NoticlEEEro print edition.	Action plan was structured. Sections were invited. Funds for project implementation were assigned. It failed to run because it lacked communication, meetings and action plan.	The goal was not reached. This goal should be kept in 2016.

Strategy4 / objective		
Activities / Tactical actions	Actions Carried Out	Results
Prepare a teamwork to design bimonthly editions	Winners from the photo student contest and winners from the regional student branch website contest were invited. Three volunteers from Brazil, Colombia and Argentina participated in some NoticIEEEro activities.	Goal achieved

Strategy5 / objective		
Activities / Tactical actions	Actions Carried Out	Results
NoticilEEEro website	Action plan was structured. Volunteers were recruited. Meetings were held.	The goal was not reached. This goal should be kept in 2016.

Recommendations

- Continue in 2016 with all the strategies.
- Structure a solid team for two years.
- Keep for 2016 the NoticlEEEro website and print edition initiatives.

4.1.7. Electronic Latin America Transactions Magazine

Statistics

- Year 2014: 700 papers were submitted and 346 papers published.
- Year 2015: 834 papers were submitted 834 (so far) and published 395 (until September).

Actions

- The plan is to publish the largest number of papers per year with the minimum possible time between submission and publication.
- Considering that only 4 regular issues per year with only 15 papers each one is so few, the Latin-American Transactions Executive Committee decided to publish all months (12 issues per year) with 50 papers in average and let very few months for special issues (aggregation all conferences in a unique issue). That began in 2015 and will continuing in 2016.

Strategy 1 / objective	2	
Activities / Tactical actions	Actions Carried Out	Results
700 papers were submitted in the year of 2014. Considering that only 4 regular issues per year with only 15 papers each one is so few.	We decided to publish all months with 50 papers in each one in average – and let very few months for special issues (several conferences/editorials in just one issue).	Goal achieved.
Strategy 2 / objective		
Activities / Tactical actions	Actions Carried Out	Results
Reviewers not finish the reviews in time.	Due the delay of the reviewers we sent email asking who want to continue as active reviewer or not. Only the positive answers received certificate and remains as reviewer – around 200.	Goal achieved.
Strategy3 / objective		
Activities / Tactical actions	Actions Carried Out	Results
Few active reviewers.	Then we invited the authors to become reviewers and the number reached 1000 active reviewers.	Goal achieved.
Strategy4 / objective		
Activities / Tactical actions	Actions Carried Out	Results
A lot of emails daily.	All emails from authors are prompt reply every day.	Goal achieved.
Strategy5 / objective	10 g	202011800
Activities / Tactical actions	Actions Carried Out	Results
The major difficulty is the huge number of submission and only one person to allocate the reviewers.	We need help from a student, for instance.	It needs money.
Strategy6/ objective		
Activities / Tactical actions	Actions Carried Out	Results
Updated software.	2 Windows 10 Pro (Portuguese version). Price in	It needs money.

Recommendations

• Continue in 2016 with all the strategies.

4.1.8. Information Management and Electronic Communications

Adobe Acrobat DC (Portuguese version). Price in razil: Acrobat DC para desktop: US\$ 689.00.

Activities

- Continually, we have performed management tasks on different regional social media (Webpage, Facebook fan page and group, IEEE Online Communities).
- We have given vTools and SAMIEEE support, when it has been requested by any R9 organizational unit.
- We have represented the Region 9 in the virtual vTools committee meetings held monthly through Webex platform.
- It has been formed the R9 Computer Society group. Monthly, the group has conducted multiple webinars and all Information Management Committee members have supported these activities.

Strategy 1 / objective Activities / Tactical actions	Actions Carried Out	Results
Create an IMC coordinators network of each of the organizational units at R9	It was established communication with some committee coordinators, but there are too many organizational units where this position is vacant	Goal not reached
Hold regular meetings (IMC's OU) with the aim of capturing needs of information management in R9	Although we don't held group meetings, I communicated personally with some volunteers of each organizational unit periodically	Goal achieved

Strategy 2 / objective		
Activities / Tactical actions	Actions Carried Out	Results
Capture ideas for the development of new applications/tools. Plan, analyze, design, implement and test new products	This aim was not considered feasible due to available resources. Clearly this (development activities) is direct responsibility of the vTools committee	Goal not reached

Strategy3 / objective		
Activities / Tactical actions	Actions Carried Out	Results
Develop the new R9 web portal	The hosting was requested. Also the regional committee approved a motion agreeing the structure of the new portal. The first migration phase has been performed. The project will continue during 2016	Goal partially achieved

Strategy4 / objective		
Activities / Tactical actions	Actions Carried Out	Results
Constant monitoring of social media. Ensuring that requests and inquiries from members and volunteers are taken into account	It has been enabled a communication medium from volunteers and members toward R9 committee. Also, all captured requests by traditional social media has been considered	Goal achieved

Recommendations

- Design strategies to strengthen the autonomous information management in the organizational units (sections principally), but by using the tools supported by IEEE.
- Maintain the processes with positive impact used in the past regional meeting (registration form, centralized document repository, and so on)
- Implement structured periodic reports which allow assessing progress of the sections and committees. Design a process to store efficiently this information

4.2. AdHoc Committees

4.2.1. Strategic Planning

Activities

- During RR2013, R9 Regional Committee identified the following points of interest:
- Professional Certification:
- R9 increased interaction with government, industry, academy and local professional associations;
- enhance communication between R9 and Sections;
- Programs to increase membership and access to information in the databases (easier, reduced rate).
- There were no metrics defined to gauge the implementation of the established strategic planning. As all the regional committees present their reports, there is an opportunity for the Strategic Planning Committee to evaluate the ongoing activities with respected to the goals defined by R9 and work with all those involved in order keep us on track.
- A Strategic Planning session was organized during Region 9 Regional Meeting 2015 in order to evaluate the progress of the 2013 Plan. All the Section Chairs filled an evaluation form and could also give their suggestion of

what could be improved.

- The Strategic Planning Committee work with the information collected and presented to the Regional Committee during Regional 9 Virtual Meeting in second semester of 2015.
- In September, all Region Sections were asked to perform a SWOT analysis. Presently, Region 9 SPC is working with the information received grouping them into major topics.

Strategic Objectives

Strategy 1 / objective		
Activities / Tactical actions	Actions Carried Out	Results
Identify the status of 2013 mid-term Regional Strategic Planning	Review Sections and Committees reports in order to identify actions related to the 2013 SP	Not reached. Difficulty in correlating actions and plan.

Strategy 2 / objective	Manage after 20 persons to the	
Activities / Tactical actions	Actions Carried Out	Results
Revision of 2013 mid-term Regional Strategic Planning and identify possible short-term goal	Organized Strategic Planning Section during Regional Meeting 2015 in order to get Sections' feedback. Sections asked to develop SWOT analysis.	Not reached. Very few Sections engaged in the process.

Strategy3 / objective	280-74-00-00 PB-0 No. 00-00-00-00-00-00-00-00-00-00-00-00-00-	
Activities / Tactical actions	Actions Carried Out	Results
Work with Sections to implement R9 Strategic Planning	Messages to Sections presenting the action plan during after Regional Meeting and during the Virtual Meeting	Not reached. Need to identify better way to work with Section other than through SPC

Strategy4 / objective	and arrest and arrest to the control of the control	
Activities / Tactical actions	Actions Carried Out	Results
Work with Regional Committees to implement R9 Strategic Planning	Messages to Regional Committee presenting the action plan during Virtual Meeting	Not reached. Need to identify better way to work with Committee other than through SPC

Recommendations

• Identify better way to engage Sections and Committees in the Strategic Plan but retaining their individual needs.

4.2.2. Nominations & Appointments

Strategy 1 / objective		
Activities / Tactical actions	Actions Carried Out	Results
According Bylaws , select a minimum of 2 or maximum 3 candidates for Director Elect Position 2016	Received 6 Nominations from the region 9.	Goal achieved

Activities / Tactical actions	Actions Carried Out	Results
Make sure that regional resolution about non eligible candidates is observed.	All potential candidates to be considered have not been Directors in the past	Goal achieved

Strategy3 / objective	7 SANGETT TO SERVICE	
Activities / Tactical actions	Actions Carried Out	Results
Make sure candidates from Countries that have not had recent Directors are preferred.	All potential candidates are from countries that have priority.	Goal achieved

Strategy4 / objective		
Activities / Tactical actions	Actions Carried Out	Results
Make sure all potential candidates have senior Member condition and have done remarkable contributions to IEEE	All potential candidates had excellent background and are eligible.	Goal Achieved

Strategy5 / objective		
Activities / Tactical actions	Actions Carried Out	Results
Get resolution from the committee communicated to the region with due time for successful candidates to prepare their arguments for the Regional meeting 2015.		Goal achieved in a marginal condition.

Strategy6/ objective		
Activities / Tactical actions	Actions Carried Out	Results
Present candidates and request for additional candidates at the Regional Meeting 2015	The resolution of the committee was presented to the regional committee, as result the regional committee endorsed the resolution of the nominations committee and two candidates received approval for running to be Director Elect 2015, Enrique Tejera from Panama and Ignacio Castillo from Mexico.	Goal achieved

Recommendations

- Continue in 2016 with all the strategies
- Consider analyze harmonize the country/section criteria for eligibility.

4.2.3. Young Professionals

Strategic Objectives

Activities / Tactical actions	Actions Carried Out	Results
Training of Young Professionals Coordinators	Young Professionals Regional Meeting 2014 and 2015, when R9 sponsored 15 YP Coordinators to attend and to be trained during 3 days about IEEE, YP and leadership. In these meetings, YP Coordinators proposed solutions to be taken to Regional and Global Committee	Goal achieved
	Young Professionals Virtual Meetings: Each 3 months, YP Coordinators met in Webex to discuss and show best practices	
	Region 9 supported 5 YP Coordinators from Central America to attend F2F Young Professionals Meeting in Panama	

Activities / Tactical actions	Actions Carried Out	Results
Support to YP Local Activities and Prizes	Every YP Coordinator was supported to have at least one STEP Event annually. Questions and problems were addressed to global committee and MGA.	Goal reached
	YP members from R9 were noticed about R9 and IEEE MGA Awards. Four YP members were prized with Theodore Hissey Award R9	

Activities / Tactical actions	Actions Carried Out	Results
Integration to Student Activities and YP Members Meetings	Only in Brazilian Student National Meeting, an YP Event was organized at the same time.	The goal was not reached.
	Other YP events took place in CONCAPAN and STEP events	
	YP Week: 3rd week of Setempter YP groups should organize any activity in its section.	

Activities / Tactical actions	Actions Carried Out	Results
R9 YP Team	Two members joined as permanent positions in YP R9: Communications with Gina Carrillo - Colombia and Videos and Trainings with Abraham Olivares - Mexico.	The goal was partially reached.
	Some other members joined our team, but they stayed a short period.	
	SAC Team and WIE supported us with some joint activities as photos contest.	
	S	

Recommendations

- Work on membership retention
- IEEE Material in Spanish or Portuguese
- Development of some program for Latin America. Economic Crisis and Dollar Exchange made IEEE Membership expensive and with almost no benefits for R9.

• Work together and join forces with WIE and SAC Team

4.2.4. WIE

Strategy 1 / objective	100000 250 334500	
Activities / Tactical actions	Actions Carried Out	Results
Increase the number of IEEE membership and WIE groups in Latin America and Caribbean Region	I he best way to increase the membership of IEE WILE, is creating new WILE groups. WIE coordinators from all R9 were encouraged to talk, explain, and disseminate about WIE in their local areas. Clarissa did more than 17 talks and lectures in different cities of Brazil, for creating new WIE groups. More than 3 groups were created and 3 were reactivated only in Brazil. Many others were created in different cities of R9	Goal achieved

Strategy 2 / objective		
Activities / Tactical actions	Actions Carried Out	Results
Organize 2 webinars on issues related to volunteering from the technical and social matters	The first virtual meeting has been coordinated with Haola Bringas, which is from the official WIE Board. The meeting was very nice, clarifying a lot of doubts with all the WIE chair participants. The second webinar is yet to come.	Goal reached partially

Strategy3 / objective	mr 10 22	
Activities / Tactical actions	Actions Carried Out	Results
Promote and disseminate girls and women in technology areas and prominent leaders of Latin America.	In the K9 meeting in Mexico, the tasks were divided for the different WIE chairs of the different countries. All the WIE chairs are very engaged with different projects for advance Women in Engineering.	Goal achieved

Strategy4 / objective		
Activities / Tactical actions	Actions Carried Out	Results
Engage the WIE groups and members, with regular communication between the R9 chairs and also each group with its local WIE coordinator	Communication with IVIE groups and coordinators is improving, since we have so many different ways through the internet. Therefore facebook pages were created, many lygist, app groups, e-mails groups, and well so ities were created to get better communication with IVIE members. So we were continuously in touch. With local groups and also with R9 groups with its local IVIE coordinators.	Goal achieved

Strategy5 / objective	WHY 101 WW	
Activities / Tactical actions	Actions Carried Out	Results
Develop Educational Robotics Project	It was possible to make contact with representatives of LEGO from Argentina and Demmark. The idea is to get in touch with the vendors to have better prices to buy robots to a wide education projects to all R9 WIE, to motivate girls in technology areas. Public schools from different countries in R9 were contacted to participate in this great project.	Goal achieved.

Strategy6/ objective		
Activities / Tactical actions	Actions Carried Out	Results
Promote events, present a monthly agenda, both in the region and Facebook on the website. Create a folder on google drive where information is shared with all coordinators. Motivate and prepare members of R9 for awards	Messages were sent to all WIE coordinators to provide them information and support to do the tasks. The folder was created, the WIE coordinators of R9 can share their information. The awards will be carried in the beginning of next year.	Goal achieved

Strategy7/ objective		
Activities / Tactical actions	Actions Carried Out	Results
Develop WIE projects with focus on Humanitarian Technologies. Support the creation of SIGHT groups the creation of some of the sections of R9	Many SIGHT groups are being created in Latin America, and it is positive to have mutual contributions with WIE and SIGHT. We believe girls and women can have this humanitarian look to the world problems, and we have good capabilities to develop great technological projects to humanitarian causes.	Goal achieved

Strategy8/ objective		
Activities / Tactical actions	Actions Carried Out	Results
Organization of a K9 WIE Summit and a WIE contest	A Summit in R9 is very important to gather members and motivate the creation of new groups and projects. Unfortunately the budget and a team with time and experience to do such a good task are difficult to have. A contest about problems and technology solutions in R9 region is being prepared, nevertheless it will finished in 2016.	The goal was not reached. This goal should be kept in 2016.

Recommendations

- · Continue in 2016 with all the strategies
- Ask the treasure of IEEE R9 to reach to the WIE chairs of 2016 to buy cheaper tickets, so WIE could have a better budget for 2016
- Development of trainings for the new groups that are being created
- Communication between all the WIE chairs and groups is very important to continue as much as possible
- Develop the creation of a budget plan, to reach to partners that could support WIE activities
- Construct bridges to others IEEE groups, as Young Professionals, engage WIE in RNRs and other IEEE events
- Contact the local public schools to engage them and make it possible for them to participate of WIE projects
- Continue with the shared document between R9 WIE chairs, so each one could provide new ideas
- Keep up vibrant, because WIE will change the velocity of Women in STEM (Science, Technology, Engineering, and Mathematics) areas!

4.2.5. Fellows

Activities

• Related to 2014

One nomination was successful. No information about nomination was received from sections.

• Related to 2015

Nominations sent: Brazil (5); Argentina (1); Trinidad Tobago (1), Chile (1). Only 3 candidates asked for R9 endorsement

The following candidates were successful in the nomination for Fellow 2016 class

- Alexandre Silva
- Fernando Gomide
- Silverio Visacro

• For 2016

The dead line is March 1st; the Sections' chairman were advised about and asked to look for candidates

4.2.6. Voluntary Contribution Fund (past Regional Directors Committee)

Description

The IEEE Region 9 ad hoc Committee is composed by all past directors of region 9 hose period of directorship ended December 2013 or before.

Voluntary Contribution Fund (past Regional Directors Committee)

The Voluntary Fund consists of voluntary contributions from Member IEEE, as well as any donation received and R9 called Voluntary Contribution Fund (VCF). Within the Latin American Region of the IEEE a separate account, which is managed by the Regional Treasurer according to the directives of the Council of Ex-Directors, which is responsible regulations and decisions on the use of funds is maintained. The funds will be held by the Regional Treasurer separately from regional funds. Any interests that are also become part of the background. It will be reported annually to the Regional Committee of the amount received and that has been used.

The destination of the funds is exclusively intended to support activities and projects of students, young professionals and Education of the region, provided that such activities clearly have a positive impact on carrying out the purposes of the IEEE in Latin America. It will also be applied to support IEEE activities in countries going through a particularly difficult economic situation. The Board of Directors Ex is responsible for allocating these funds in compliance with guidelines established by the Regional Committee.

Interested entities, Branches and Student Chapters, Chapters and Sections may request financial support from the fund through a project funded and properly presented to the Chairman of the former Directors.

Activities

During 2015 the Council of Past Directors did the follow up of the following projects:

1) Student Exchange Project Spondylus Sections ECUADOR and PERU:

This project is jointly coordinated by Sections Section Ecuador and Peru. Its implementation will be done this year 2015. The committee of former directors approved US \$ 2,000, of which half was to Section Ecuador and the other half to Section Peru.

2) Business Ideas Competition, Section ECUADOR

In December 2015 the winners will be awarded. The committee approved \$ 4000, which are already in the account section and will be for the awards.

4.2.7. Life members

The R9 LMAG encouraged the implementation of the following suggestions:

- Each LMAG should have 2 volunteers capable and prepared to take over the Chair if necessary.
- Each LMAG should have a file with the list of all LMs in the section, procedures, and history of reports and communications.
- The LMAG Ad Hoc Chair should be able to communicate with the LMs from each Section at a time (not with all R9 LMs as it was done) and promote the communication amongst them.
- The LMAG Ad Hoc Chair should be able to communicate with the R9 Section Presidents or a representative.
- Each LMAG of R9 should establish their own objectives and try to implement them.
- The R9 LMAG Coordinator should be able to fulfill the above mentioned points.

4.2.8. New Initiatives Committee

Activities

- Although the funding program proposed for IEEE NIC is a very interesting alternative; in the last two years only were presented two proposals that involve R9 sections. However, the section involved in both projects was the Colombia Section.
- For this period was presented the project Micro-Volunteering as an IEEE Speakers (MOVIES) Platform, to you. This project was an initiative with Region 6 (Western USA), 7 (Canada), 9 (Latin America), and 10 (Asia Pacific). Unfortunately, this project was not funded by NIC. It is import to remark that the section involved in this project was the Colombia Section.
- Finally, we support the proposal development of the project to strengthen a comprehensive education model for children and youth, to promote the proper use of leisure time and to generate entrepreneurship ideas in Cazuca (Soacha / Cundinamarca / Colombia). This project was leaded by young volunteers of the Colombian Section. Given the aim of this project, the development of the proposal was focused as a Foundation proposal, however due to the deadlines proposed by the committee, and the call for projects by SIGHT, the proposal was sent to the SIGHT, obtaining the financing

of it.

Strategic Objectives

En lea	rategy 1 / Objective ndeavor for the presentation of at ast two new initiatives projects to e IEEE NIC		200 28 20021	14000
	Activities / Tactical actions	П	Actions Carried Out	Results
	Make a divulgation program to the sections of this program Support the project proposals formulation to the interested OU Review the proposals form of each new initiatives project Help in the oversight process of the approved projects for the NIC		Lecture in the RR 2015 All section chairs (or the delegate people) have a clear understanding about the New Initiatives Program Support to the development of the project proposals	Goal not reached Only one project was presented to the NIC.

Strategy 2 / Objective Joint work with Foundation in order to submitting regional projects to these committees		
Activities / Tactical actions	Actions Carried Out	Results
Reallocate some projects presented to Foundation. Support the project proposals formulation to the interested OU.	Support to the development of the project proposals	Goal not reached Only one project ² was redirected to the Foundation, but due to the deadlines, the project was presented to SIGHT call of projects.

Recommendations

- I recommend continuing with the strategies of divulgation and support to the projects formulation by sections / volunteers from the region.
- I also recommend continuing the strategy of work in conjunction with the Foundation committee to redirect the proposals to the best funding source.

4.2.9. R9 Foundation Committee

Activities

- In July 2015 received the final approval for the Haiti Funds by 20,000 USD and transferred to the Puerto Rico and Caribbean Custody Account in order to manage the funds and get the equipment to the Haiti University. IEEE Foundation still manages 6,000 USD for 2016 to get more equipment but first we need to submit a new project for that money.
- The Region 9 also approved the formation of an ad hoc committee to review EftA and explore/understand how they could most effectively become involved. This committee was also authorized to create grant funding proposals to various IEEE sources (e.g., IEEE Foundation, IEEE New Initiative program, various IEEE societies), which will occur after they explore the existing landscape and receive your input. This IEEE R9 ad hoc committee is composed of the Region 9 Director-elect, Antonio Ferreira; the R9 IEEE Foundation Coordinator, Ruben Barrera; the R9 liaison to the IEEE New Initiative Committee, Carlos Lozano, and Rob Riley.

- Finally, we present on August 2015 the IEEE-AGMUS Pre-College Research Experiences is a partnership between the Institute of Electrical and Electronics Engineers (IEEE) Nicaragua Section and Student Research Development Center (SRDC) of the Ana G. Mendez University System (AGMUS) in San Juan, Puerto Rico. The objective of this partnership is to offer a research program to talented pre-college and economically disadvantage from Nicaragua interested in technology, engineering, mathematics, and computer sciences (STEM-C) field the opportunity to learn the principles of scientific research using the methodology of project based learning in a 16 week program on Saturday at the facilities of Universidad Catolica de Nicaragua UNICA in Managua, and mentored by IEEE Young Professional members. This project is pending to receive the approval since we submitted in 01 August 2015.
- We got funds for the following projects:
- o Making Humanitarian Work Sustainable a project of Pontifical Catholic University of Peru was awarded \$11,675.
- o Open Source in Schools Lumifi Technology a project of The Power to Be International was awarded \$6,500 (\$4,000 from HTF / \$2,500 from LMF).
- o Public Lighting for Vulnerable Communities a project of IEEE Medellin Subsection was awarded \$21,000.
- o Pre-University Workshop Tour and Competition a project of IEEE Cordoba Subsection was awarded \$10,000.

Strategic Objectives

Strategy 1 / Objective Presentation of projects with Foundation		
Activities / Tactical actions	Actions Carried Out	Results
Provide support to Haiti in order to get the Funds Support the project proposals	Connections with IEEE Foundation and R9 to get final approval and transfer the funds to Haiti and get the equipment. Supported to Nicaraoua Section Chair to	20,000 USD transferred to Haiti, still have 6000 USD for 2016
formulation to the interested OU like Nicaragua and local Sections	submit the proposal and still waiting for the results.	
	Support to the development of the project proposals	1 project ongoing and 3 projects awarded.

Strategy 2 / Objective Joint work with New Initiatives committee and EftA		
Activities / Tactical actions	Actions Carried Out	Results
 Reallocate some projects presented to Foundation. Support the project proposals formulation to the interested OU and create an AdHoc Committee to review proposals and get funds. 	Support to the development of the project proposals and committees. Proposed one AdHoc Committee to review proposals and get funds with OU.	Ongoing Created one EftA work with NIC and R9 in order to create/attract more funds

Recommendations

• I recommend continuing the strategy of work in conjunction with the New Initiatives committee and EftA to redirect the proposals to the best funding source.

4.2.10. Industry Relations

ategy 1 / Objective		
Activities / Tactical actions	Actions Carried Out	Results
Agreement with Assespro	It was signed an agreement in July 06 2015 between IEEE R9 and Assespro. This agreement will be possibilities those entities in next year to have many activities together. Support to the development of the project proposals	Goal achieved

Activities / Tactical actions	Actions Carried Out	Results
Agreement with Engineering Institute (instead ABINEE)	It was prepared a draft of the agreement. This draft was sending to Engineering Institute to analyze and approve.	Goal not reached This goal will reach in 01/2016



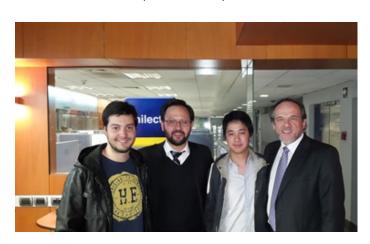
IEEE members at the 2nd IEEE REGION 9 ACCREDITATION BODY SUMMIT PROGRAM and "LIMA DECLARATION" signature (September 2, 2015)



Regional Student Branches Meeting – Antigua Guatemala, Guatemala (October 3, 2015)



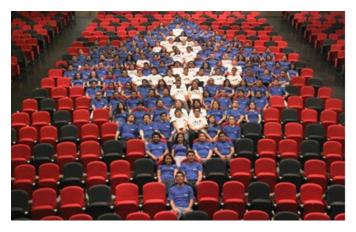
IEEE R9 Young Professionals Meeting – Bogota, Colombia (March 28, 2014)



Meeting Chile Section Officers and RD (August 7, 2014)



IEEE R9 team and President Elect Howard Michel at Sections Congress 2014 (August 24, 2014)



Regional Student Branches Meeting – Santiago, Chile (October 4, 2014)



National Student Branches Meeting – Brasilia, Brazil (June 6, 2015)

Diseño y construcción de un Holter de EKG con Memoria micro SD

JEFFERSON ALEXIS CUNALATA SOLEDISPA - jefferson.c.ec@ieee.org
LEONARDO RENE HERNANDEZ MENDOZA - lhernandezmendoza@hotmail.com

Resumen

En este trabajo se describe el diseño y construcción de un Holter de EKG de bajo costo, el cual permite obtener las señales cardiacas de un paciente y almacenarlas en una memoria SD, durante un tiempo relativamente largo, con el afán de permitirle hacer sus tareas diarias mientras el dispositivo realiza su objetivo. Además de esto, las señales almacenadas en la memoria serán tratadas mediante un software, para ser mostradas en una computadora para que un médico especialista las estudie y pueda emitir un diagnóstico.

1. El monitor Holter

El Holter es un instrumento médico utilizado para registrar la actividad eléctrica del corazón por un tiempo prolongado. El paciente lo lleva puesto mientras realiza sus actividades normales de rutina por un tiempo de 24 o 48 horas. Este examen es de gran utilidad cuando se presentan ciertas situaciones determinadas: Desmayos, palpitaciones o infartos. También es útil en el estudio de arritmias, miocardiopatías y en la evaluación de la efectividad de fármacos.

2. Descripción del circuito analógico

2.1 Buffer con pre-filtro

Este proceso tiene dos objetivos: Disminuir las interferencias electromagnéticas presentes en la señal proveniente del paciente y acoplar dicha señal para la siguiente etapa que corresponde al amplificador de instrumentación.

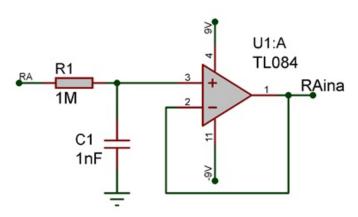


Figura 2.1. Circuito buffer con pre-filtro

2.2 Amplificador de instrumentación

Se utilizó el circuito integrado INA129, el mismo que se encarga de rechazar la señal común, presente en sus entradas y de esta forma reducir considerablemente el ruido, además de amplificar ligeramente la señal con una ganancia de 10.

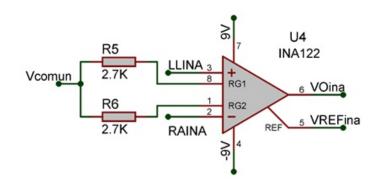


Figura 2.2. Circuito amplificador de instrumentación

2.3 Removedor de corrimiento de la línea base

Esta etapa tiene como objetivo eliminar el corrimiento de la línea base, el mismo que es un ruido de muy baja frecuencia, inferior a 0.5 Hz. Este ruido es muy común ya que se produce por el movimiento de los músculos del paciente al realizar acciones como respirar.

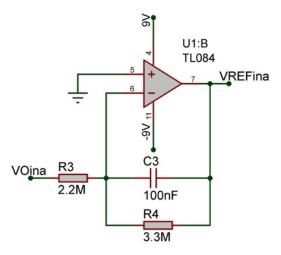


Figura 2.3. Circuito removedor de corrimiento de la línea base

2.4 Retroalimentación de la pierna derecha

El objetivo de este circuito de realimentación es atenuar el ruido de 60 Hz proveniente de las líneas de distribución eléctrica; este ruido es captado por el paciente debido a que el cuerpo humano actúa como una antena.

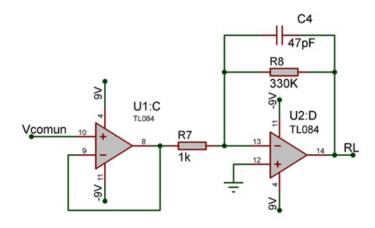


Figura 2.4. Circuito de retroalimentación de la pierna derecha

2.5 Filtro pasa-altos

Esta etapa corresponde a un filtro activo pasa-altos de segundo orden, con frecuencia de corte 0.17 Hz y ganancia unitaria, cuyo objetivo es eliminar el nivel DC presente en la señal.

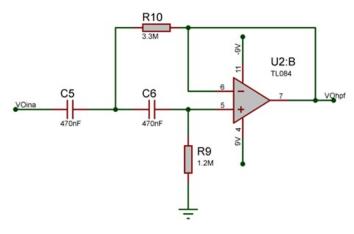


Figura 2.5. Circuito del filtro pasa-altos

2.6 Amplificador

Esta etapa se encarga únicamente de amplificar la señal; sin embargo, es necesario considerar que la señal resultante no debe superar los 5V de amplitud.

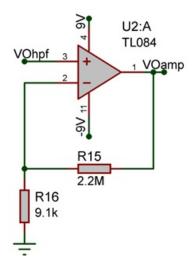


Figura 2.6. Circuito amplificador

2.7 Filtro pasa-bajos

En esta etapa la señal ingresa a un filtro activo pasa-bajos de segundo orden tipo Butterworth con frecuencia de corte 40 Hz, debido a que es necesario contar con una banda de paso plana para no alterar las bajas frecuencias presentes en la señal.

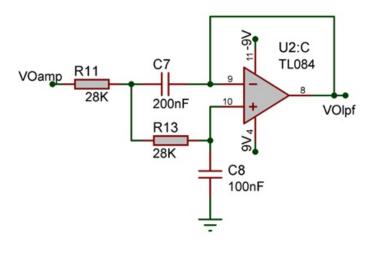


Figura 2.7. Circuito del filtro pasa-bajos

2.8 Filtro rechaza-banda

Esta etapa es fundamental debido a que reduce considerablemente el ruido de 60 Hz que se encuentra inmerso dentro de la señal cardiaca. La etapa está conformada por dos filtros rechaza-banda de tipo twin T que se conectan en cascada.

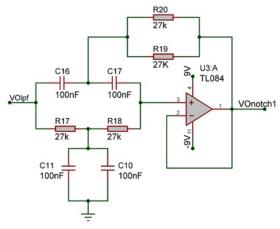


Figura 2.8. Circuito del filtro rechaza-banda

2.9 Acoplamiento DAC

La última etapa del circuito analógico tiene como objetivo escalar la señal para su conversión de analógico a digital. Es necesario que la señal esté limitada entre OV y 5V.

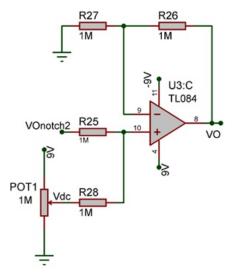
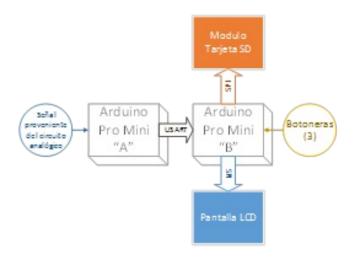


Figura 2.9. Circuito del acoplamiento DAC



3. Descripción de la etapa digital

3.1 Digitalización

En este proceso interviene la señal proveniente de la etapa digital y el Arduino Pro Mini "A". Se realiza la conversión de la señal cardiaca del mundo analógico al mundo digital, tomando una muestra cada 5ms hasta completar 100 muestras.

3.2 Sincronización de muestras

En este proceso intervienen el Arduino Pro Mini "A" y "B". El "A" envía las 100 muestras recolectadas hacia el "B" mediante comunicación USART a una tasa de 115200 baudios.

3.3 Grabar muestras en memoria SD

En este proceso interviene el Arduino Pro Mini "B". Se graban las 100 muestras en la memoria SD y se genera un archivo llamado DATALOG.txt.

3.4 Mostrar muestras en la pantalla LCD Nokia

En este proceso interviene el Arduino Pro Mini "B". Se grafica en la pantalla LCD una de cada seis muestras obtenidas con el fin de poder visualizar al menos un periodo completo de la señal.

Resultados

Al finalizar este proyecto, se obtuvo un instrumento de bajo costo y de alto rendimiento que permite visualizar el electrocardiograma de un paciente durante largos periodos de tiempo.

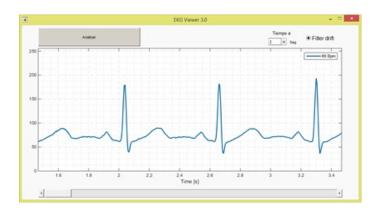


Figura 4.1 Electrocardiograma mostrado en el Software EKGViewer

Reunión Nacional de Ramas de la Sección Puerto Rico y Caribe (Región 9)

Luis A. Tatis Morales, BSEE, M.E.M. - Vice Chair - Treasurer - luistatis@ieee.org

La pasada actividad RNR PR y Caribe fue todo un éxito. Fue celebrada el pasado noviembre 6 y 7 del 2015. Tuvo una participación de 22 miembros estudiantes de cuatro (4) universidades diferentes de la sección. La Universidad Politécnica, Universidad Del Turabo, La Universidad Interamericana y la Universidad de Puerto Rico recinto del pueblo de Humacao.

Durante el evento se celebró un evento STEP para los jóvenes profesionales, Dos (2) visitas técnicas profesionales independientes, cuatro (4) presentaciones tener y tuvimos la grata visita del coordinador regional (R9) RSAC el compañero Ing. Augusto Herrera.

Temas de las presentaciones:

IEEE – Miembros en sus primeros años como voluntarios y elevación de grados

Premios y concursos dentro de la IEEE

Presentación de Emprendimiento y liderazgo 2015

Presentación de herramientas útiles electrónicas (V-tolos)

Durante el evento la sección Puerto Rico y Caribe tuvo la presencia de:

Ralph Kreil – Presidente de Sección

Luis A. Tatis – Vice - Presidente de Sección y Tesorero

Jennifer Castillo – Coordinadora de Asuntos Estudiantiles

Lisnel Morales – Coordinadora de los Jóvenes Profesionales (Recién graduados)







Region 9 IEEE Senior Members Upgraded in 2015

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Centro Occidente Section Anzurez - Marin Juan Centro-Norte Brasil Section da Costa Joao Paulo Centro-Norte Brasil Section Hollanda Axel Centro-Norte Brasil Section Rech Cassiano

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Next deadline on January 20th







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http://sites.ieee.org/r9/publicaciones-2/noticieeero/

2016 Editorial Calendar

# N°	Deadline Cierre de Edición	Distribution Distribución
99	20 Jan 2016	1 Feb 2016
100	20 Mar 2016	1 Apr 2016
101	20 May 2016	1 Jun 2016
102	20 Jul 2016	1 Aug 2016
103	20 Sep 2016	1 Oct 2016
104	20 Nov 2016	1 Dic 2016

