



Philippine Society of Mechanical Engineers Western Region Saudi Arabia Jeddah Chapter

CHARTERED 1995

MOST OUTSTANDING CHAPTER 2005, 2006, 2007, 2011, 2012, 2013 AND 2023



21ST Annual Convention & General Membership Meeting

Celebrating 30 Years of Service



“Enhancing Competence For International Recognition”

December 6, 2024
Emerald Hotel
Jeddah, KSA

Member:



www.psme-wrsa.com



PSME





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Theme Rationale

by: Jobert M. de La Rosa, RMEE, AE

“Enhancing Competence for International Recognition” refers to the process of developing and improving skills, knowledge, and abilities to meet global standards and be valued in international contexts. In today’s interconnected world, international recognition is essential for individuals and organizations to thrive. Whether you’re seeking career advancement, academic opportunities, or global partnerships, possessing the right competencies is paramount. This guide aims to provide a comprehensive overview of strategies and resources to enhance your competence and achieve international recognition. This involves:

- **Acquiring specific skills:** This might include language proficiency, technical expertise, or cultural understanding.
- **Gaining certifications:** Obtaining recognized credentials can validate competence and enhance credibility.
- **Expanding global networks:** Building relationships with international professionals can open doors to opportunities and collaborations.
- **Staying updated on trends:** Keeping abreast of industry developments and best practices is essential for maintaining relevance.
- **Developing intercultural competence:** Understanding and appreciating diverse perspectives is crucial for effective communication and collaboration.
- **By enhancing competence,** individuals and organizations can increase their chances of success in the global marketplace and contribute to international cooperation.

Convention Logo

by: John Ray O. Madla, PME, AE, RMP



The logo is circular, giving it a sense of completeness and unity. The predominant colors are blue and yellow, which are often associated with engineering and construction. The background is a light blue, providing a clean and professional look.

Engineer Portrait: A determined-looking man wearing a hard hat, symbolizing the core profession of mechanical engineering.

Gears and Machinery: Gears and other mechanical elements are

prominently displayed, highlighting the focus on mechanical engineering principles.

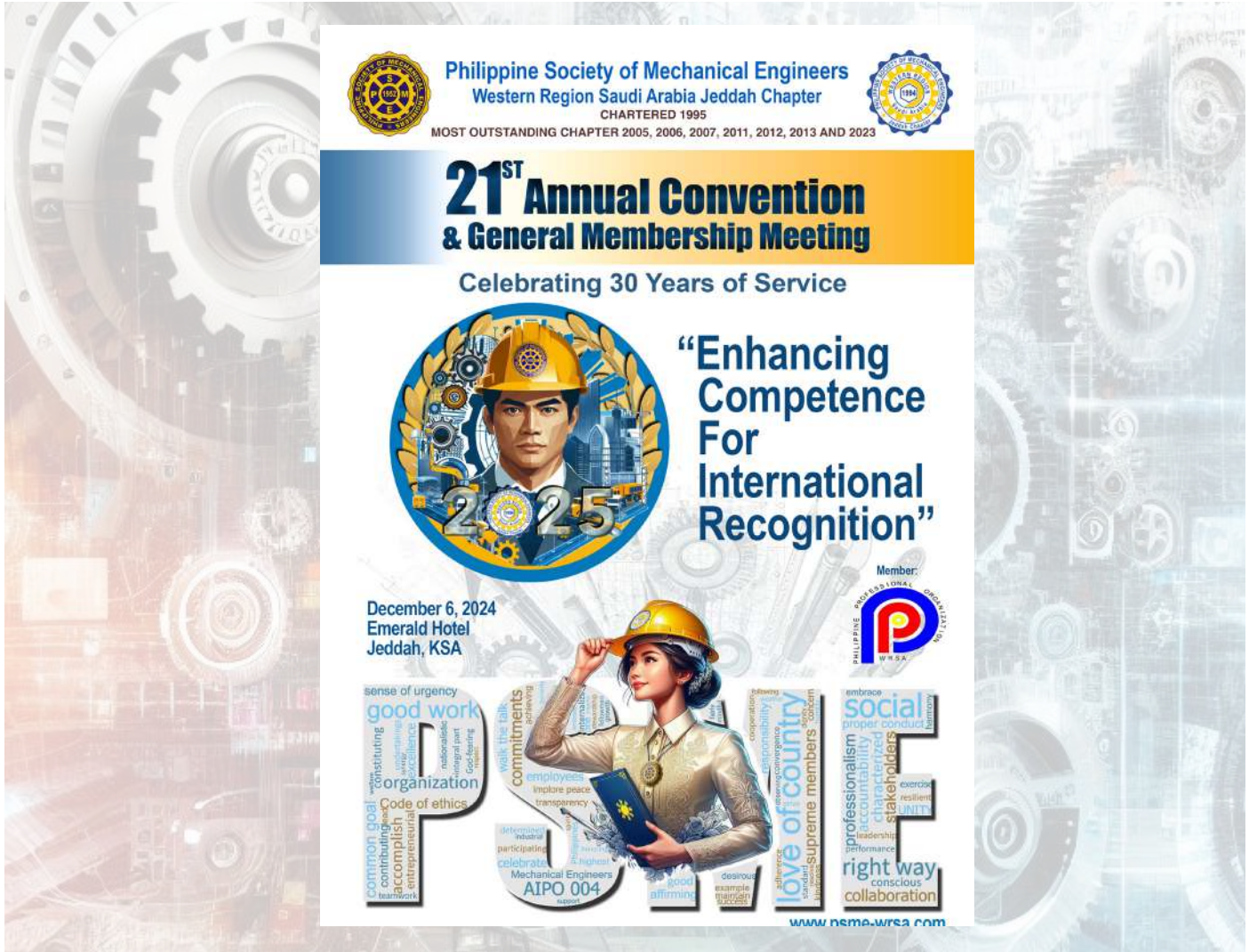
Buildings and Infrastructure: Skyscrapers and other structures are shown in the background, representing the impact of mechanical engineering on the built environment.

Laurel Wreath: A laurel wreath surrounds the central image, signifying achievement and victory. The text “2025” is prominently displayed, referencing the fiscal year PSME WRSA Jeddah Chapter will continue to enhance its supreme members’ competence for international recognition.

The logo effectively conveys the essence of mechanical engineering. It emphasizes the profession’s focus on precision, innovation, and its contribution to building a modern world.



Souvenir Cover



by: John Ray O. Madla, PME, AE, RMP

The cover of the souvenir programme gives a positive and inspiring impression of the Philippine Society of Mechanical Engineers, Western Region Saudi Arabia Jeddah Chapter. It conveys a sense of professionalism, competence, and dedication to the advancement of mechanical engineering. The inclusion of the young girl on the cover suggests that the organization is committed to supporting and encouraging the next generation of mechanical engineers.

The girl in the cover represents the support for female members of the Philippine Society of Mechanical Engineers, even in the male dominated field of engineering some women strive for excellence. She appears to be young and enthusiastic about her field of work. She is wearing a white Filipiniana, which suggests that she is an expert or a researcher in the field of mechanical engineering.

The title of the magazine is "21st Annual Convention & General Membership Meeting". The event is being held on December 6, 2024, at the Emerald Hotel in Jeddah, KSA. The theme of the convention is "Enhancing Competence For International Recognition".



PSME Creed

We, the Mechanical Engineers of the Philippines
Conscious of our responsibilities to God, our Country
and Fellowmen

Affirming our adherence to the code of ethics for
Mechanical Engineers

Desirous in participating and contributing in the
social, economic and industrial growth of our country
Determined to support one organization that shall
embrace the mechanical engineering profession

Have resolved to unite to accomplish these aims by
constituting a national organization of Mechanical
Engineers.

PSME Core Values

I am a person of INTEGRITY. I act with honesty,
transparency, and accountability. I do the right things,
the right way.

I maintain PROFESSIONALISM at all times with
high respect for others, observing proper conduct,
following the code of ethics, honoring commitments,
and acting fairly and with dignity.

I strive for EXCELLENCE thereby achieving the highest
standard of performance in all my undertakings.

I internalize TEAMWORK. I act with sense of urgency,
mindful of entrepreneurial spirit and work with
unity, cooperation, collaboration, synergy and
convergence towards a common goal.

I exercise LEADERSHIP with humility and characterized
by stewardship. I lead by example, walk the talk and
celebrate success as owned by all the members of
the team.

I embody CONCERN FOR STAKEHOLDERS especially
the welfare of our members, employees and all we
work for and those who work for us.

I am an integral part of a RESILIENT, NATIONALISTIC
and GOD-FEARING Organization. I weather the odds
and implore peace, harmony, kindness, good work,
love of country and social responsibility.

thank You for the Filipino Mechanical Engineer,
for our profession, and for our organization, the
PSME. You have sown us as seeds, scattered here
and abroad as PSME Engineers – humble planners,
designers and builders of all things mechanical –
our humble testament to the Glory of Your Creation.

We bring before You the fruits of our profession,
forged by the fire and burning passion of the PSME
mission: Professionalism – to help us maintain the
integrity of the Engineering Profession; please keep
our hearts true to the highest ethical principles of
our field.

Service – to enable us to contribute to the
enhancement of science and technology; we
pray for all Filipino Mechanical Engineers to work
together as one in shaping the economic growth of
our country. Motivation – to uplift the Engineering
Profession; please help us promote fellowship
and cooperation among all Filipino Mechanical
Engineers and to instill nationalism among PSME
members.

Excellence – to enable us to become outstanding
PSME members. We pray for all Filipino Mechanical
Engineers to actively contribute to the advancement
of the profession, to be recognized globally as we
develop the talents You have given us.

Help us to provide sustainability to the changing
world. May the PSME bring together all Filipino
Mechanical Engineers – and as one – stand united
as beacons of strength and stability to the world.

All these we pray through You, our Heavenly Father,
forever and ever, Amen.

Oath of Membership

"I, _____ after having been accepted
as a member of the Philippine Society of
Mechanical Engineers Western Region Saudi
Arabia Jeddah Chapter, do hereby solemnly
swear, That, I will defend the Constitution
and By-Laws of the Society; That, I impose
upon myself the aforementioned duties and
obligations voluntarily and without reservation
or purpose of evasion.

PSME Prayer

Heavenly Father, Maker of Heaven and Earth, we



Convention Programme

8:30 AM - 9:00 AM	REGISTRATION & ACKNOWLEDGEMENT OF THE PARTICIPANTS	MARK JOSEPH A. MADOLID, RMEE LEONARD P. MERIALES, RMEE, AE GILBERT V. ESPIRITU, RMEE JULIUS M. CAÑECA, RMEE ZOOM MASTER JOBERT M. DE LA ROSA, RMEE
9:00 AM - 9:04 AM 9:05 AM - 9:08 AM 9:09 AM - 9:14 AM 9:15 AM - 9:19 AM 9:20 AM - 9:35 AM	PSME Prayers Muslim Prayers National Anthem (Phils. & Saudi) FORMAL OPENING OF THE 21st ANNUAL CONVENTION AND WELCOME ADDRESS KEYNOTE SPEAKER Introduction of Keynote Speaker Message of KEYNOTE SPEAKER Awarding of Plaque of Appreciation 1st TECHNICAL PRESENTATION "Selection of Pressure-Relieving Device for the Oil, Gas, and Chemical industries" Introduction of Technical Speaker 1st TECHNICAL SPEAKER Question & Answer Awarding of Plaque of Appreciation 1st Raffle Draw: Consolation and 2nd Major Raffle PRODUCT PRESENTATION by TECHNICAL INDUSTRIAL AUTOMATION and TRADING Co. (TIA) "Dust Collection Systems - Pulse Valve" Introduction of Product Advertiser PRODUCT PRESENTOR Awarding of Plaque of Appreciation 2nd Raffle Draw: Consolations and 1 Major Raffle LUNCH BREAK / VIDEO PRESENTATION PRODUCT PRESENTATION by SKM AIR CONDITIONING COMPANY "SKM Air Conditioning Equipment" Introduction of Product Advertiser PRODUCT PRESENTOR Awarding of Plaque of Appreciation 2nd TECHNICAL PRESENTATION Introduction of Technical Speaker 2nd TECHNICAL SPEAKER Question & Answer Awarding of Plaque of Appreciation	LEONARD P. MERIALES, RMEE, AE ARCHELLE B. BACULI, PME, AE 2025 PSME National President MODERATOR ADRIAN ZEUS R. BITUIN, RMEE JOEL N. CADIANG, PME Incoming 2025 BOT MODERATOR MODERATOR ADRIAN ZEUS R. BITUIN, RMEE JOHN-JOHN SOLAM, RMEE, Meng-ME Mr. ALBERT OQUENDO TIA Sales Team Leader MODERATOR ADRIAN ZEUS R. BITUIN, RMEE MARK HAROLD A. RAMIREZ, RMEE Mr. MOHAMED ABD EL-RAHMAN ALI SKM Consulting Sales Manager MODERATOR ORLAN C. MORIONES, PME, AE NAPOLEON CEPRIASO, PME, AE, FPSME MODERATOR MODERATOR JOBERT M. DE LA ROSA, RMEE MODERATOR JOHN RAY O. MADLA, PME, AE JOHN-JOHN SOLAM, RMEE, Meng-ME JOHN-JOHN SOLAM, RMEE, Meng-ME JOHN RAY O. MADLA, PME, AE LEONARD MERIALES, RMEE, AE MARK JOSEPH A. MADOLID, RMEE ANTHONY C. BUGAYONG, PME Ms. NARRABELLE Z. BUE MODERATOR NORIEL J. NOLLORA, RMEE HON. JULES PATRICK A. AGUILA MODERATOR JOSE MELVIN D. SANTOS, RMEE, AE COMELEC Chairman HON. JULES PATRICK A. AGUILA JEREMY T. AGUINEA, PME JOHN RAY O. MADLA, PME, AE ORLAN C. MORIONES, PME, AE ORLAN C. MORIONES, PME, AE NORIEL J. NOLLORA, RMEE JOHN RAY O. MADLA, PME, AE JOHN RAY O. MADLA, PME, AE NORIEL J. NOLLORA, RMEE ADRIAN ZEUS R. BITUIN, RMEE MARK HAROLD A. RAMIREZ, RMEE JOHN RAY O. MADLA, PME, AE NAPOLEON M. CEPRIASO, PME, AE, FPSME
9:36 AM - 10: 40 AM		
10:41 AM - 10: 50 AM 10:51 AM - 11: 55 AM		
10:56 AM - 12: 00 PM 12:01 PM - 1: 15 PM 1:16 PM - 1: 46 PM		
1:47 PM - 2: 47 PM		
2:48 PM - 2:52 PM	PSME CREED PSME CORE VALUES CALL TO ORDER PROOF OF ATTENDANCE AND DECLARATION OF QUORUM PRESENTATION & ADOPTION MEETING AGENDA	
2:53 PM - 3:03 PM		
3:04 PM - 3:14 PM 3:15 PM - 3:25 PM 3:26 PM - 3:36 PM	READING & ADOPTION OF PREVIOUS MINUTES OF MEETING PRESIDENTS ANNUAL REPORT OFFICERS/ DIRECTORS' REPORT DIRECTORS Financial Report Membership Director's Report INSPIRATIONAL SPEAKER Introduction to the Inspiration Speaker Message of the Inspiration Speaker Social Welfare Attaché Awarding of Plaque of Appreciation GUEST OF HONOR Introduction to the Guest of Honor Message of the Guest of Honor Vice Consul and Administrative Officer Awarding of Plaque of Appreciation B R E A K PRESENTATION OF THE 2024 BOARD OF DIRECTORS AND THEIR DISCHARGING TO OFFICE	
3:37 PM - 3:47 PM		
3:48 PM - 4:03 PM		
4:04 PM - 4:09 PM 4:10 PM - 4:25 PM		
4:26 PM - 4:41 PM	PRESENTATION OF THE 2025 BOARD OF DIRECTORS AND THEIR CHARGING TO OFFICE Vice Consul and Administrative Officer INDUCTION OF THE 2025 BOARD OF TRUSTEES PSME National President TURN-OVER CEREMONIES: 2024 CHAPTER PRESIDENT TO 2025 CHAPTER PRESIDENT	
4:42 PM - 4: 57 PM		
4:58 PM - 5: 13 PM		
5:14 PM - 5: 19 PM 5:20 PM - 5:23 PM 5:24 PM - 5:34 PM	ACCEPTANCE SPEECH OF THE 2025 CHAPTER PRESIDENT OTHER MATTERS & ANOUNCEMENTS ADJOURNMENT PRESENTATION OF CHAPTER AWARDEES ANTHONY C. BUGAYONG, PME CONSULATION AND GRAND RAFFLE	
5:35 PM - 5:50 PM		
5:51 PM - 5:54 PM 5:55 PM - 6:00 PM	CLOSING REMARKS PHOTO OP	

Moderator : JOHN-JOHN SOLAM Zoom Master : OLIVER O. SALAZARB



Through the Years

Western Region Saudi Arabia
Jeddah Chapter
Chartered 1995

Brief History

The Philippine Society of Mechanical Engineers - Western Region Saudi Arabia Jeddah Chapter (PSME-WRSA) was started and headed by Nildo K. Tan, Jr., PME, FPSME, a member of the Philippine Society of Mechanical Engineers Saudi Arabia Chapter (PSME-SA) in Dammam. During his assignment in Jeddah, he was tasked to form the PSME-WRSA in Jeddah, being the Director of Autonomous Provincial Unit (APU). The objective was to promote excellence in the practice of mechanical engineering profession among the Filipino mechanical engineers in the Western Region of Saudi Arabia, and to provide a venue for enhancing professional competence, brotherhood, inter-action and camaraderie among its members.

REMINISCENCES THROUGH THE YEARS

1993

- Initially, only a handful of mechanical engineers coming from various companies and business establishments in Jeddah showed interest to join.
- 30 Registered Mechanical Engineers was the basic requirement by the PSME National to become an independent chapter.

1994

- The required 30 Registered Mechanical Engineers was attained and the application to become an independent chapter was formally endorsed by PSME-SA Chapter to the PSME National.
- Subsequently, Nildo K. Tan, Jr., PME was elected as the first Chapter President.

1995

- The term of Engr. Ruben Parpan has formally received the charter approval PSME-WRSA Jeddah Chapter from PSME National as an independent chapter.
- Nildo K. Tan, Jr., PME was automatically named as the Charter President.

1996 and 1997

- During the presidency of Engr. Rene Y. Logarta and Engr. Rene C. Bernales, PME, respectively, PSME-WRSA formulated its constitution and by-laws identifying areas of responsibilities, social awareness campaigns, plant visits, technical seminars, membership growth, and sports activities.
- The first PSME-WRSA sports fest was sponsored by Advance Petroleum Services Limited-Gulf Oil courtesy of Charter Pres. Nildo K. Tan, Jr.

1998

- Pres. Danilo V. Gercio, PME and the BOD conceived the idea of board exams here in Jeddah for non-registered mechanical engineers and plant mechanics.
- Documentation and communications with the PSME National Office and the Professional Regulation Commission (PRC) was initiated.
- Rizalino Nobleza, PME spearheaded the first M.E. Board Exam review at IPSJ, Jeddah.
- The birth of PSME-WRSA's newsletter, "Jeddah Prime Movers" was successfully launch with this first issue. Thanks to the efforts of Ruben B. Serrano, PME, and Dionisio A. Lora Jr., PME together with the contribution from all members.
- PSME-WRSA Jeddah Chapter received a Presidential Award from PSME National's 46th Annual Convention held in Cebu, Philippines on October 22, 1998.

1999

- The term of Filemon E. Agulo, PME, was considered a year of fulfillment. Plans and preparations of his



predecessors became a reality.

- The first Professional Mechanical Engineer (PME) board examination took place in November 20, 1999. PRC representatives together with BME members came to Jeddah and conducted the examination. Some associate members took the Mechanical Engineers board exam in Dammam.
- Another Presidential Award was received by PSME-WRSA Jeddah Chapter from PSME National's 47th National Convention on October 22, 1999.

2000

- The millennium president Wilfredo R. Ruiz, PME made substantial achievements.
- The Professional Regulation Commission (PRC) conducted the 1st Mechanical Engineers board exam and the 2nd Professional Mechanical Engineers board exam in Jeddah on July 2000.
- Pres. Willy was awarded Outstanding Chapter President.
- Felimon E. Agulo, PME was awarded as The Outstanding Mechanical Engineer (TOME), Consultancy category.
- Edwin M. Evasco, PME and Mohd. Pedro D. Entico, PME was awarded Most Outstanding Member and Most Outstanding Committee Chairman, respectively.
- PSME-WRSA got a Presidential Award at PSME National's 48th Annual Convention in Cebu, Philippines on October 20, 2000.

2001

- The presidency of Dionisio A. Lora Jr., PME marked another milestone with notable achievements and projects.
- The 1st board exam for Certified Plant Mechanic (CPM) was conducted and the 2nd board exam for ME took place in Jeddah and Dammam.
- PSME-WRSA sponsored two deserving scholars who took 2-year vocational course.
- The formation of APU Riyadh for chartering was initiated.
- PSME-WRSA received a Presidential Award at PSME National's 49th Annual National Convention on October 19, 2001.

2002

- Pres. Juan U. Berbie, PME continued the implementation of the two students' scholarship from Region 11 and Region 4 under the supervision of DSWD.
- Formation and chartering of PSME-WRSA Toastmasters Club 6899 on March 5, 2002 by Toastmasters International, USA. Ricardo V. Romero, PME was the first elected Club President with 22 charter members.
- Recommendation was done to the PSME-National for the chartering of PSME-WRSA APU-Riyadh with more than 30 regular members.
- Napoleon M. Cepriaso, PME got The Outstanding Mechanical Engineer (TOME) award for Special Category in Environmental Engineering.
- PSME-WRSA Jeddah Chapter got the Most Outstanding Chapter for Membership Growth.
- Ricardo V. Romero, PME was awarded as the Most Outstanding Committee Chairman.
- PSME-WRSA Jeddah Chapter received a Plaque of Recognition during PSME National's 50th Annual Convention in Manila on October 19, 2002.

2003

- Pres. Orlando L. Digma, PME faced many challenges in his term.
- The Autonomous Provincial Unit (APU) Riyadh was chartered by PSME National. The Induction of the Board of Directors was held in 28th February 2003 in Riyadh and IPP Juan U. Berbie, PME represented the PSME-WRSA Jeddah Chapter.
- The Chapter's first-ever scholar from Region 11 has successfully completed his studies in October 2003.
- Julio D. Caringal, PME and Wilfredo R Ruiz, PME were awarded as The Outstanding Mechanical Engineers (TOME) for Consultancy and Special Category in Automation and Controls, respectively, during the 51st PSME-National Annual Convention held in Manila.



2004

- The second term of Pres. Wilfredo R. Ruiz, PME, reminded us of how important camaraderie is, for the good and strengthening of any organization.
- Engr. Jose Emmanuel B. Acebuque was awarded The Most Outstanding Member at PSME National's 52nd Annual Convention in Manila.

2005

- Pres. Ernesto C. Cala, PME made momentous accomplishments.
- Ernesto C. Cala, PME was awarded as The Outstanding Mechanical Engineer (TOME) for Special Category in Automatic Energy Management and Controls System.
- PSME-WRSA Jeddah Chapter was awarded the Most Outstanding Chapter for the year 2005.
- PSME-WRSA received a Plaque of Recognition at PSME National's 53rd Annual National Convention on October 19, 2005.

2006

- The term of Pres. Willie C. Leoncio, PME was a dream come true for succeeding with their mentoring of Jeddah Electrical Engineers organization of their newly established Toastmasters club.
- PSME-WRSA Toastmasters Club successfully conducted the Youth Leadership Training joined with the International Philippine Schools of Jeddah.
- PSME-WRSA once again received the Most Outstanding Chapter Award and a Plaque of Recognition at the PSME National's 54th Annual Convention on October 24, 25 & 26, 2006.

2007

- The presidency of Pres. Joselito A. Arellano, PME had been very fruitful.
- Pres. Lito was awarded the Most Outstanding Chapter President.
- Engr. Rainier P. Patawi was awarded The Most Outstanding Member.
- PSME-WRSA received The Most Outstanding Chapter Award at PSME National's 55th Annual Convention.
- A mid-year thanksgiving party and fellowship was conducted to celebrate the fruitful and successful midyear activities of the Chapter.
- Continued board review for the ME and CPM examinees headed by the Professional Enhancement Director Julio D. Caringal, PME for the incoming SPLBE-SA of December 2007.

2008

- Under the leadership of Pres. Froilan G. Miro, PME the chapter made notable achievements.
- Napoleon M. Cepriaso, PME conducted the Project Management seminar during the Midyear Convention. Followed by Wilfredo C. Leoncio, PME who conducted a seminar and product presentation on Daikin Air Conditioning Technological Advancement.
- Under the responsibility and commitment of Engr. Julio D. Caringal, PME, determined PME examinees passed the examination; Engr. Jose Emmanuel B. Acebuque, Engr. Ruben Alzate and Engr. Edilberto Cabodil. The Oath-taking was held during the 9th PSME-WRSA's Annual Convention on November 28, 2008.

2009

- Pres. Julio D. Caringal, PME was determined to maintain the good performance of the chapter.
- Professional Enhancement Director Emmanuel B. Acebuque, PME headed the review preparation for the incoming SPLBE.
- Dionisio A. Lora, Jr., PME was awarded as TOME (The Outstanding Mechanical Engineer) in Hotel Engineering category.
- Pres. Julio conducted seminars on HVAC Design Part 1 and HVAC Design Part 2 and distributed a workbook he authored entitled "Cooling and Heating Load Calculation Manual".
- Overview of Project Management seminar was conducted by Engr. Henry Cabansag, PMP.
- PSME-WRSA Toastmasters Club under the Presidency of Engr. Jaime L. Leviste, CC, CL garnered some awards from Toastmasters International.



2010

- Chapter President Joselito L. Bentulan, PME had to realign the chapter to where it has been heading since the chapter was chartered 1995.
- As an executive order E0-835 was signed by the Philippine President Gloria M. Arroyo on 06 October 2009 declaring that Special Board Examinations (SPLBE) is going to be conducted by the Professional Regulation Commission of the Republic of the Philippines, in the Kingdom of Saudi Arabia yearly. The founding of Jeddah Review Center by Wilfredo Ruiz, PME was recognized by the chapter to handle the review classes for BS of Mechanical Engineering graduates.
- In order for the chapter to focus more of its activities to the benefits of general membership, it was on this term where history transpired that the past presidents of PSME-WRSA Jeddah Chapter were to hold positions such as: Wilfredo Leoncio, PME- Auditor and Ernesto C. Cala, PME - Code of Ethics Director: to fill the vacuum created by non-availability of PSME-WRSA membership to hold such positions.
- The Council of Past Presidents of PSME-WRSA, Jeddah Chapter was organized to support the PSME-WRSA, Jeddah Chapter officers and Board of Directors in advisory level, initially chaired by the Charter President Nildo K. Tan Jr., PME.
- The collective efforts of 2010 PSME-WRSA administration was rewarded with the following national awards: 1. Most Outstanding Chapter in Membership Growth. 2. Most Outstanding Chapter Project. 3. Most Outstanding Committee Chairman for Engr. Jeffrey Esperanza.

2011

- Pres. Rainier P. Patawi, ME shared his version of four (4) P's for the chapter's successful accomplishments: Planned purposely, Prepared prayerfully, Proceeded positively and Pursued persistently.
- The chapter made record-breaking number of National Awards from PSME National's 59th Annual Convention at Quezon City, Philippines on October 21, 2011 as follows: Most Outstanding Chapter- International; Best Chapter in Membership Growth; Most Outstanding Chapter Project - "Bayanihan Spirit for Flood Victims in Philippines"; TOME Award for Napoleon M. Cepriaso, PME in Construction category; TOME Award for Rainier P. Patawi, ME in Information Technology category; Nildo K. Tan, Jr., PME for the Fellow Award; and Pres. Rainier was awarded Most Outstanding Chapter President- International.
- Oath-taking of new Licensed Mechanical Engineers: Engr. Antonio H. Amosco Jr., Engr. Liza L. Acosta and Engr. John E. de Leon at Al Waha Hotel, Jeddah.

2012

- Pres. Napoleon M. Cepriaso, PME led the chapter during its darkest year. Despite the imminent threat to its existence, it managed to move forward with programs and seminars to enhance the technical knowledge and skills of the members.
- PSME-WRSA Jeddah Chapter has set a benchmark of excellence in community service.
- Set another record-breaking number of national awards (12 awards out of 14 nominations) from the PSME National's 60th Annual Convention in Quezon City, Philippines on October 19, 2012.
- Pres. Nap got The Most Outstanding Chapter President - International Award.
- The chapter for The Most Outstanding Chapter - International.
- Most Outstanding Chapter in Membership Growth.
- Most Outstanding Chapter Project - Operation "Habagat".
- Most Outstanding Publication - Jeddah PriME MoVers Newsletter.
- TOME (The Outstanding Mechanical Engineer) Awards for: Joselito L. Bentulan, PME in Manufacturing category; Roel Alfon G. Banawis, ME in Design category; Ace Glen B. Garcia, ME in Consultancy category; Crisostomo C. Ortiz, PME in Community Service category.
- Achievements and Service Awards for: Wilfredo R. Ruiz, PME for Fellow Award; Lee I. Bonifacio, ME as Outstanding Secretary; and, Jemuel B. Esguerra, PME as Most Outstanding Committee Chairman

2013

- Pres. Jaime L. Leviste was one of the most active officers who served the chapter. He Offered the lecture room of New Al Jedaani Hospital for the chapter's technical seminars and other activities.
- PSME-WRSA Toastmasters club mentored Jotun Toastmasters Club and continued the Youth Leadership Training Program to International Philippine School of Jeddah and Al Hekma International School.



- Pres. Jimmy. with Membership Director Jemuel B. Esguerra, PME met with the PSME National president in Scout Bayoran, Quezon City to seek important advice on chapter's status.
- PSME-WRSA Jeddah Chapter garnered the following National Awards from the directorate of PSME Scout Bayoran: Most Outstanding Overseas Chapter; Most Outstanding Chapter President for Engr. Jaime L. Leviste; Special Technical Competency Award; Special Humanitarian Award (for raising donation to the victims of Typhoon Yolanda).

2014

- Pres. Crisostomo C. Ortiz, PME continued to lead the chapter through its rough journey. Despite the odds, PSME-WRSA remained intact and committed to community service.
- Achievements and activities for this year were: Money donation to children of Santa Veronica, San Pablo City with Engr. Jaime L. Leviste and Engr. Lee I. Bonifacio; Conducted Basketball Tournaments; Technical Seminar on General Machine Design/ Parliamentary Procedure by Engr. Lorenzo O. Gaviola and TM Edgar Hernandez, respectively; Participated at KAMC Invitational Bowling Tournament; Mid-Year Convention and Technical Seminar on Design of Water Distribution System by Jemuel B. Esguerra, PME; Seminar on DSLR - Understanding Its Basic Operation by Napoleon M. Cepriaso, PME; Coastal Clean-Up Drive at Bohayrat Spearheaded by APO; Plant Tour at Al Hidada Galvanizing Plant; Technical Product Presentation by DUCT Sox.

2015

- Pres. Ruben B. Serrano, PME demonstrated exemplary leadership at this time when PSME-WRSA has hibernated and going through transformation.
- When PSME National was divided, PSME-WRSA Jeddah Chapter was delisted.
- Despite being delisted, Pres. Ruben continued the negotiation with the PSME National officers in Paredes to recognize the chapter.
- Various activities were conducted to keep the membership alive: Participation in All-Star Bowling and PPO Bowling; General Membership Meeting; Al-Khattan get-together; Toast for PP Lito L. Bentulan, PME; Philippine Independence Day Celebration at PCG; and, Wow Pinoy Bowling Fun Game.

2016

- For the second year, Pres. Ruben B. Serrano, PME lead the chapter.
- To give full service and benefits for the members, the chapter was chartered for the 2nd time as PSME-JWR in March 4, 2016 at Trident Hotel by PSME National-Paredes under Pres. Murry Demdam. It became the 89th chapter of PSME. Dr. Ed Malagapo conducted the oath-taking of officers and BODs as well as the chartering, graced by the presence of Vice-Consul Alexander Joseph A. Estomo. Sponsors: EGPHIL and TEAMAC Arabia.
- Pres. Ruben automatically became the charter president and first president of PSME-JWR (Jeddah Western Region).
- The chapter's website www.psme-iwr.org was officially launch in May 7, 2016 thru IT Director, Engr. Paulo Taruc.
- First issue of official e-newsletter, Jeddah PrimeMovers, under PSME-JWR was issued in August.
- Conducted the following technical seminars: Press Tool Design by Ruben B. Serrano, PME; Heating, Ventilating, and Air Conditioning (HVAC) Design by Engr. Jemuel B. Esguerra, PME; and Operation and Maintenance of a Rotating Equipment by Engr. Chris Ortiz, PME.
- Participated in Invitational bowling tournaments by GBI and KAMC.
- Collaborated with other civic organizations to help distressed OFWs of Saudi Oger.
- National awards at 64th PSME Annual Convention in Manila, October 19-22, 2016: Fellow Award to Napoleon M. Cepriaso, PME; TOME Award (Special Category: Biomedical) to Engr. Jaime L. Leviste; Best Website Award to www.psme-jwr.org; and, Most Outstanding Project to PSME-WRSA Toastmasters Club 6899.

2017

- Pres. Elmer Quanico had turned a new leaf as the chapter continued the list growing of activities and achievements. He was the 2nd president of PSME-JWR.



- Conducted seminars and technical presentations as follows: Fire Alarm System Design and Application by Wilfredo R. Ruiz, PME, FPSME; Project Management Basics for Engineers and Technicians by Napoleon M. Cepriaso, PME, FPSME; Solar Energy System Application by Engr. Yamen Mohamed Samir Al Akeel of ICONS;
- National Awards garnered: Fellow Award for Wilfredo R. Ruiz, PME, FPSME; TOME Award for Engr. Ruben Serrano, PME.
- Board Exams passers: Engr. Jemuel B. Esguerra and Engr. Joel A. Santos, Professional Mechanical Engineers; and, Engr. Michael James C. Arcaparas, Mechanical Engineer.
- Sports and community activities: PPO Yearend Bowling Tournament (2nd Place); MRRD-OFW Bowling Tournament; KAMC Bowling Tournament (7th Place); PPO Bowling Tournament; and, participated in the Feeding and Relief Program for unfortunate OFWs in Saudi Oger Co.

2018

- Pres. Jemuel B. Esguerra, PME became the 3rd President of PSME-JWR and continued the legacy of the chapter.
- Conducted the following CPD-approved seminars: 5S Workplace Organization Process and TPM - Process for Improving Equipment Effectiveness (8 points); Project Management Basics for Engineers and Technicians Part-2 (8 points); Introduction to Auto Cad and Elevator Technology (4 points); Automatic Fire Protection System Design (8 CPD points); and, Sewage Lifting Station (8 points). Design and Application of HVAC DDC Controls and Building Management System (8 points); and, 3rd Annual Convention and General Membership Meeting (8 points).
- Continued the program for ME members to upgrade their license to PME. Two workshops were conducted accordingly.
- Actively participated in the activities of Philippine Professional Organization Western Region Saudi Arabia (PPO-WRSA) with the Philippine Consulate General; Meet and greet for our new Consul General Edgar Badajos; Meeting with DOLE-OWWA at PCG; assistance to the examinees of the Special Licensure Exams and many more.
- Sports activities: Basketball friendly game at Escuela De Espanyol; Joined a basketball league with our team name "PrimeMovers".
- PSME-JWR achievers: Engr. Noel Bitera and Engr. Crisostomo Ortiz, professional mechanical engineers; and, Engr. Arnel Layug, registered master plumber.
- National awards garnered: Engr. Elmer B. Quanico, The Outstanding Mechanical Engineer (TOME) Special Category Household Refrigerating Appliances; and, Engr. Aldrin Alizon D. Lango The Outstanding Mechanical Engineer (TOME) Special Category - Advanced Cooling System.

2019

- Engr. Noel S. Bitera, PME became the 4th President of PSME-JWR but has tendered his resignation from the position effective March 1, 2019 to take rest due to health condition and to reduce stress for his healing process. Engr. Aldrin Alizon D. Lango, the elected Executive Vice President, by virtue of succession, became the Chapter President.
- Engr. Aldrin Alizon D. Lango also became the Vice-President for PPO WRSA.
- On February 6, a Board Resolution dated January 30, 2019 was forwarded to PSME National under the leadership of Interim National President Dr. Jeffrey Singson with the title "A BOARD RESOLUTION EARNESTLY REQUESTING THE PSME NATIONAL TO REACTIVATE "PSME WRSA JEDDAH CHAPTER" AS CHARTERED IN 1995 INCLUDING ALL OF ITS ACHIEVEMENTS, RECOGNITIONS AND ACCOMPLISHMENTS AND MERGED WITH "PSME-JWR" AS CHARTERED IN 2016 INCLUDING ALL OF ITS ACHIEVEMENTS, RECOGNITIONS AND ACCOMPLISHMENTS". During the 2nd National Regular Board Meeting held on February 9, 2019 at the PSME Building, Sgt. Bayoran St, Bgy. South Triangle, Quezon City, the Interim Board of Directors thru its Board Resolution 2019-31 has approved the resolution. On June 9, 2019 the formal letter regarding the approval of the resolution was received.
- Technical Seminars Conducted were: "Communication, Leadership Skills & Wealth Management" by DTM Joey Villanueva (32 CPD points); "PME, AER, AET Orientation Seminar" by Lorenzo O. Gaviola, ME, Crisostomo C. Ortiz, PME, and Lee I. Bonifacio, ME; and "Basic Design of Firefighting System (Wet Pipe



Sprinkler) by Engr. Roseller A. Junsay Jr.;

- The Chapter had Plant Tours and Process Presentations in: Saudi Refrigerator Manufacturing Company Factory on “Familiarization & observation of refrigerator manufacturing process”; and Friesland Campina Middle East Factory on “Milk Production Process”
- A Thanksgiving and Get-together was held in Al Qattan Village Beach Resort. It was also highlighted by the “Last Toast” for the PSME-JWR Charter President, Ruben B. Serrano, PME.
- Our Chapter also participated in different activities of the Philippine Professional Organization-Western Region Saudi Arabia (PPO-WRSA); we have assisted in the conduct of SPLE 2019 at Ibn Sina Medical College; and more.
- The Chapter have also participated in some activities that the Philippine Consulate General of Jeddah; Have attended first ever State of Post Address by the Hon. Edgar B. Badajos last December 6, 2019; and more.
- 2019 PSME-WRSA JC achievers: Engr. Willyn D. Espino, Engr. Lee I. Bonifacio, Engr. Joel Amos A. Acosta, and Engr. Liza L. Acosta as First Batch of ASEAN Engineers. Engr. Maria May M. Atole and Engr. Napoleon M. Castañeda as SPLE 2019 Passers in Registered Master Plumber.

2020

- Conducted ASEAN Engineering Register Technical Writeshop on February 7, 2020. The writeshop Technical Speaker was the PTC MENA Deputy in the Western Region, Engr. Richard R. Garcia, PECE, APEC Eng., ACPE, FACPE, AE.
- The Chapter’s operations were on hold for almost three months due to Covid-19 pandemic but the Board of Directors led by Engr. Aldrin Alizon D. Lango persevered. The Chapter was able to discharge its functions while observing the health protocols through the virtual platform “Zoom”.
- The Chapter was able to organize technical Webinars on: “The Role of BIM in Sustainability, Energy and Environment” by Ace Glen Garcia, Mechanical Designer & Energy Modelling Lead, Canada; “PME Orientation and Writeshop” conducted by Engr. Napoleon M. Cepriaso, PME, FPSME; “Autonomous Maintenance” by Engr. Greg A. Gulmatico.
- Conducted a “Virtual Membership Kamustahan” on August 14, 2020 in order to assess the current status of our general membership.
- For the first time in the history of PSME-WRSA Jeddah Chapter, the constitution and By-Laws (CBL) was ratified by the general membership during its Mid-Year General Membership Meeting on August 28.
- Extended assistance to our fellow Filipinos in the Philippine Consulate General in Jeddah male and female wards on September 18, 2020.
- Organized the first Virtual Plant Tour in Reza Hygiene Plant and Election of Year 2021 BODs on October 2, 2020.
- 2020 Achievers were: Engr. Maria May M. Atole, Engr. Napoleon M. Cepriaso, Engr. Aldrin Alizon D. Lango, Engr. Jose Melvin D. Santos, Engr. John Ray O. Madla, Engr. Leonard P. Meriales, Engr. Orlan C. Moriones, Engr. Crisotomo C. Ortiz, Engr. Oliver O. Salazar and Engr. Antonio Elmer L. Quintilla as second Batch of approved ASEAN Engineers

2021

- In the midst of the pandemic with eased health protocols, on January 7 and 8, 2021, Engr. Lee I. Bonifacio led the Chapter’s thanksgiving get-together in a beach resort at Obhur with a successful annual planning of activities.
- PSME-WRSA JC CBL was amended to serve the growing number of members in the Philippines who desired to keep their membership with WRSA Jeddah Chapter. Chaired by our Code of Ethics Director Engr. Noriel Nollora. The proposed CBL amendment was approved by the Board of Directors last November 2, 2021 and due for ratification.
- Three (3) of our members were virtually conferred last April 10, 2021 during the 2021 ASEAN Engineering Register Conferment Ceremonies 2021-02 and ten (10) of our members were conferred in a hybrid set up last July 16, 2021 in collaboration with Institute of Electronics Engineers of the Philippines, Inc - KSA WRC during the 2021 ASEAN Engineering Register Conferment for Western Region of Saudi Arabia by the Philippine Technological Council.



- Our chapter actively participated in the 12th Middle East Regional Conference hosted by PSME-UAE Chapter. It was concluded on October 8 and 9, 2021. We actively participated and attended the 69th NatCon activities.
- Our Mid-Year General Membership Virtual Conference was conducted last June 25 and successfully chaired by Engr. Nino Jose A. Lopez. Graced by PSME National leaders and BME Chairman Leandro A. Conti as the Guest of Honor.
- “Jeddah Prime Movers” the official newsletter of PSME-WRSA JC was relaunched and able to release 2 Issues of Volume 16.
- The chapter had two batches of Plant Tour Saudi Dairy and Foodstuff Company (SADAFSCO) Ice Cream factory in Phase 1 of Industrial City 1 led by Engr. Roy Tumamak and our associate member Mr. Elmer Quintilla.
- Our Chapter representatives actively participated in all PPO-WRSA activities. As a member organization, we led the ventilation enhancement program of the female ward of Bahay Kalinga at the Philippine Consulate General - Jeddah.
- We had conducted the following technical webinars in order to support the chapters’ continuing professional development of its members and other professionals: 1. “Future-Proof Buildings for the Changing Climate” by Engr. Ace Glen Garcia; 2. “Boiler Safety Procedure and Maintenance” by Engr. Crisostomo Ortiz, 3. “Elevator Design and Standards” by Engr. Lorenzo Gaviola, and 4. “Solar Photovoltaic Grid Interactive Design” by Engr. Ahmed Selim; 5. “Refrigeration and Air-conditioning Hybrid Workshop” by Engr. John Ray Madla; 6. “Getting Chartered - Process of becoming an Engineer in the UK and Commonwealth of Nations” by Engr. Ace Glen Garcia; and 7. “Stocks, Mutual Funds and REIT’s: Are they Good Passive Investments” by Engr. Napoleon Cepriaso.

2022

With countries slowly lifting up it’s COVID restrictions, the 2022 Board of Directors took over with Engr. Niño Jose A. Lopez ,ASEAN Eng. at the helm. As soon as the Strategic Planning for the year had been concluded, the Chapter engaged in a series of activities which includes the following:

- Technical Webinar about “Solid Financial Foundation and Parliamentary Procedure” conducted by Mr. Joey I. Villanueva, CPA on Feb. 11
- “PME Writeshop” conducted by Engr. Crisostomo C. Ortiz, PME, Asean Eng. and Engr. Napoleon M. Cepriaso, PME, FPSME, Asean Eng. on Mar. 4
- Annual Thanksgiving at Obhur Resort on Mar. 17 to 18
- Launching of 2022 Review Program on Mar. 25 in preparation for the resumption of SPLE (Special Professional Licensure Examination) since the COVID pandemic. The program covers the board examination for Registered Mechanical Engineer (RMEE) and Registered Master Plumber (RMP). Our VP External Affairs , Engr. John Ray O. Madla, Asean Eng. and Technical Affairs Director Engr. Napoleon M. Castañeda, RMP served as lecturers
- Technical Webinar about “Health and Safety Awareness” was conducted by Engr. Dante L. Calapatia on Apr.22
- “Let’s Play Ball” basketball friendly game at a school stadium in Khames Al Khoula on May 20
- The 2022 Mid-Year Conference and General Membership Meeting at Bora Café Restaurant in Al Ballad, Jeddah led by our Conference Chairman cum VPI Engr. Jobert M. De La Rosa, the Chapter’s first face to face formal event since the COVID pandemic, with seminars conducted by Engr. John Ray O. Madla, Asean Eng., Mstr. Michael F. Canuday, RME and Engr. Lawrence P. Bacelonia, The event also serves as the Ratification of our 2021 Amended Constitution and By-Laws conducted by our Code of Ethics Director (CED) Engr. Noriel J. Nollora.
- “Bowling Fun Game” held in Bowling City, Tahlia on Aug. 26, with Code of Ethics Dir. Engr. Noriel J. Nollora as the champion.
- 2nd General Membership Meeting and Election of 2023 Board of Directors via Hybrid platform at Bora Café Restaurant in Ballad, Jeddah on Sept. 30. It includes a seminar on “Solar PV System Installation - Best Practice conducted by Engr. Ahmed L. Selim
- “Plant Tour at Saudi Airconditioning Manufacturing Co. (SAMCO) Ltd.” on Oct. 28. The presentation and tour was conducted by Engr. Noel A. Cabacungan (QA Supv.), Engr. Othman Ali Abdullah Ali (QA Engr.) and



Engr. Aris P. Chong (Prodn. Coordinator)

• 19th Annual Convention and General Membership Meeting at Jiwara Diamond Hotel on Dec.9. It includes seminars conducted by Engr. Niño Jose A. Lopez, Asean Eng. and Engr. John Ray O. Madla, Asean Eng. Our chapter also initiated fund drives as follows: Tabang Vizmin for victims of typhoon Odette, Arayat Abra for victims of Luzon earthquake, Financial Assistance.

Being a member of the Philippine Professional Organization - Western Region Saudi Arabia (PPO-WRSA), our chapter is actively involved in every activity and event which includes: Leadership and Training Webinar, Gala Night for a Cause, Araw ng Kalayaan with Filipino Community, Community Outreach at SAED Accommodations, Coastal Clean-up Drive at Buhairat Open Beach, Bowling Fun Game with Guardians and Bloodletting drive. The accomplishments of the Chapter are the following:

- A 10.67% membership growth courtesy of Membership Director Engr. Orlan C. Moriones, Asean Eng, this includes the induction of seven (7) new members
- Our Chapter Newsletter, "Jeddah Prime Movers" led by our Editor-in-Chief IPP Lee I. Bonifacio published two (2) issues.
- Securing the services of Montreal LLC for the application of CPD Units in our seminars and trainings.

Our National achievers for the year:

- The Outstanding Mechanical Engineers (TOME) Award for Engr. Roseller A. Junsay, Jr. - Special Category - Hospital Utilities Engineering
- The Outstanding Mechanical Engineers (TOME) Award for Engr. John Ray O. Madla - Special Category - Hygienic Engineering (HVAC's Role in Covid-19 Prevention)

Our ASEAN Engr. Conferees for the year:

- | | |
|--------------------------------|----------------------|
| • Engr. Roseller A. Junsay, Jr | - Bahrain Conferment |
| • Engr. Julius Q. Garcia | - Bahrain Conferment |
| • Engr. Niño Jose A. Lopez | - Bahrain Conferment |
| • Engr. Bliven U. Garcia | - Phil. Conferment |
| • Engr. Lorenzo O. Gaviola | - Phil. Conferment |
| • Engr. Miller F. Narvas | - Phil. Conferment |
| • Engr. Rainier P. Patawi | - Phil. Conferment |
| • Engr. Wilfredo R. Ruiz | - Phil. Conferment |

2023

- On January 14, we launched our SPLE 2023 Review Sessions for RMEE & RMP.
- We had our 1st Technical Seminar and Product Presentation was sponsored by LG Electronics. It was held in Jiwara Diamond Hotel, Jeddah on February 24.
- On March 17, Sports Director Mark Harold Ramirez led the "Let's Play Ball" event in Fawaz Basketball Gym, Al Jaweed District Jeddah Saudi Arabia.
- On March 31, Editor-in-Chief Gilbert Espiritu and the JPM Newsletter Team released the first issue, Volume 18 of the Jeddah Prime Movers Newsletter.
- On June 2, Plant Tour Director Ewvin D. Jaradal led us to our first Plant Tour at the Saudi Laundry Services in King Abdullah Economic City, Rabigh.
- On June 23, we organized a "Thanksgiving and Get Together" at a Private Villa in Usfan.
- On July 21, Chairman of the 2023 Mid-Year Convention, VPI Orlan Moriones led the Convention and 1st GMM held in Jiwara Diamond Hotel. The MYCGMM was sponsored by REZA Investment. The Mid-Year Convention also had 2 Technical Seminars credited with 3CPD Points.
- On August 25, PED Julius M. Cañeca organized a seminar on "How to Become a PME". Past Presidents Napoleon M. Cepriaso and Crisostomo C. Ortiz were the Resource Speakers.
- On September 8, Chairman of the 2nd GMM Leonard P. Meriales led the 2nd GMM & Election of 2024 BODs at Jiwara Diamond Hotel, Jeddah.
- On October 12-14, Awards & Recognition where the Chapter received the following accomplishments: Fellow Award - PP Aldrin Alizon D. Lango; TOME Awards - PP Lee I. Bonifacio & IPP Niño Jose A. Lopez; Leadership Awards - VPI Orlan C. Moriones and President Jose Melvin D. Santos; and the Most



Outstanding Chapter Award - Category C. The Chapter sincerely would like to thank the PSME National and its Awards committee for these recognitions.

- Joined PPO-WRSA's Coastal Clean-Up Drive led by IPP Niño as Chairman of the Coastal Clean Up in Buhairat Open Beach. The chapter also attended the Bowling Tournament in Jeddah Lanes. Both activities happened on September and were in coordination with the Philippine Consulate General Jeddah.





Message from the President of the Philippines



MALACAÑAN PALACE
MANILA

MESSAGE

My warmest greetings to the **Philippine Society of Mechanical Engineers–Western Region Saudi Arabia Jeddah Chapter (PSME-WRSA JC)** as you conduct your **21st Annual Convention and General Membership Meeting**.

This gathering resonates deeply with our shared vision of elevating the positive image of Filipino engineers worldwide, particularly in Saudi Arabia. For years, your dedication to advancing the skills and fostering the camaraderie of Filipino mechanical engineers in Jeddah contributed to the high regard our overseas professionals enjoy in this fast-evolving global landscape.

I believe this event will create partnerships that benefit your members' further professional development and elevate standards of excellence in their respective workplaces. May the bonds you will form and rekindle be a solid foundation for collaboration so that you can continue to set high standards for what it means to be a quality engineering talent today.

Do know that, despite your distance from your motherland and loved ones, your efforts play a crucial role in the success of the *Bagong Pilipinas* we are building. Rest assured that your government stands by your side as you pursue excellence in your adoptive land.

Congratulations and I wish you the best in your endeavors. *Mabuhay ang PSME-WRSA JC!*


FERDINAND R. MARCOS JR.

MANILA
6 December 2024

THE PRESIDENT OF THE PHILIPPINES



Message from the Consul General - PCG Jeddah



MESSAGE FROM THE CONSUL AND ACTING HEAD OF POST

Philippine Consulate General
Jeddah, Kingdom of Saudi Arabia

My warmest greetings to all the officers and members of the Philippine Society of Mechanical Engineers-Western Region Saudi Arabia, Jeddah Chapter (PSME-WRSA JC) on the occasion of your 21st Annual Conference and General Membership Meeting.

Truly, your organization has been among the more active Filipino professional organizations in the region, with your development activities that promote and encourage learning and professional growth among your members. It has been common knowledge already that Filipino engineers and all other professionals in the Kingdom of Saudi Arabia have always brought great pride and honor to the country, with enviable qualities that make the Filipino professional much sought after in companies wherever country they go. Our strong work ethics, hard work, and competence are admired not only in the Kingdom but also in many parts of the world.

Over the years, PSME-WRSA JC has definitely been a beacon of light to all Filipino mechanical engineers in the region, with your numerous capability-building activities that enrich the minds and skills of your members. I encourage all the members of the organization to continue to cultivate a culture of learning among our fellow Filipinos, and serve as model of professionalism and excellence in your profession.

*Your convention theme **"Enhancing Competence for International Recognition"** underscores the growth mindset that each and every Filipino must possess to be excellent in their respective crafts. Truly, there is a need to continuously upgrade our skills and levels of competence in the work arena to be able to be internationally recognized and to be the first choice for companies in the industry.*

The Philippine Consulate General in Jeddah continues to support PSME-WRSA JC and all our Filipino community organizations in your objective of strengthening professional development and community building.

May you have a productive and prolific conference and meeting. I also wish to congratulate PSME-WRSA JC for an outstanding job in steering the organization to great heights, contributing positively to the Filipino and Saudi community and workforce.

More power to all of you! Mabuhay and God bless you all!


ALFRED KRISTOFFER A. GUIANG



Message from the PSME VP for Middle East



My warmest greetings to the Philippine Society of Mechanical Engineers - Western Region Saudi Arabia -Jeddah Chapter (WRSJ JC) on the occasion of your 21st Annual Convention and General Membership Meeting on the 29th November 2024 with chosen Theme: "Enhancing Competence for International Recognition."

Enhancing Global competence, we need skills, attitudes, global engineering collaboration and behaviors necessary to thrive in an ever-changing and complex world. It's a transformative lens through which we can reimagine our engineering education system and ensure that every mechanical engineer is future-ready.

As Mechanical Engineers we are recognize with significant and maintaining efficient machinery systems to improve the sustainability of the mechanical facilities. We have face many challenges, failed, but we never give up. We as engineers find ways, study and develop solutions its because it is in our blood as Mechanical Engineers as a problem solver and solution maker. We have the opportunity to address a wide range of real-world problems

across various industries. Engineers have the ability to analyze and diagnose problems, the capacity to think logically and systematically.

Thank you for your commitment to advancing mechanical engineering. Together, we can shape the future of our profession internationally and make a positive impact in our society for a Better Philippines.

Thank you and God Bless.

Engr. Ronnie D. Maligmat, PME
PSME - National VP Middle East 2024





Message from the PPO-WRSA 2024 President

My warmest greetings and felicitations to all the distinguished officers and members of the Philippine Society of Mechanical Engineers Western Region Saudi Arabia - Jeddah Chapter (PSME WRSA JC) on your 21st Annual Convention and General Membership Meeting on the 6th of December 2024.

With your convention theme, "Enhancing Competence for International Recognition," I commend all mechanical engineers and all your exceptional leaders who paved the way for your organization to thrive through the years. Your leaders who blazed the trail have made your organization truly resilient and dynamic in the ever-changing landscape of your profession. And that is the kind of transformational leadership which empowers your organization and its members to accomplish positive change and inspiration which in turn encourages development, enhances competence, and creates sustainability and international recognition in the long run.

Just like your profession, the Philippine Professional Organization Western Region, Saudi Arabia (PPO WRSA), the umbrella organization of 12-member



professional organizations, has been at the forefront of professional excellence throughout the years. By continuously uniting all Filipino professional organization in the Western Region, including your esteemed professional organization, we constantly adhere with our mission to uphold the standards of professional ethics and integrity amongst Filipino professionals in the Western Region, thereby promoting collaboration with its member groups in the pursuit of uplifting its members thru professional development, career advancement, and global recognition. And we will continue to be a beacon of light to the overseas Filipino professionals who aspire to become licensed professionals and a driving force to the society.

As you gather on your annual convention, remain to be enduring and adaptive to the current global situation and continue to provide a platform for your members to maintain a high degree of excellence by equipping them to be more knowledgeable on the latest trends happening in your profession. Remember that your expertise shapes the world - driving innovation, sustainability, and progress. Let this event inspire you to push boundaries, foster collaboration, and pursue excellence as you aim for international recognition. Together, you can elevate your profession on the global stage.

Once again, I wish to congratulate PSME WRSA JC on your 21st Annual Convention and General Membership Meeting and may your convention be as successful as you wish it to be. Continue to unite as mechanical engineers for your shared mission and vision, and let your passion fuel your journey as the future of mechanical engineering is bright, and that journey begins with you. So, lead the way!

May you continue to be a beacon of hope to your members and be a source of inspiration to your fellow mechanical engineers.

More power and Mabuhay. God bless you all.



Message from the PSME WRSA JC Chapter President



"Warmest congratulations to all of my fellow officers and supreme members on the 21st Annual Convention and General Membership Meeting. Your commitment to fostering excellence and global recognition is commendable. We look forward to witnessing the positive impact of this event on all mechanical engineers here in Jeddah Saudi Arabia."

I extend my sincere gratitude to the officers and supreme members of the PSME WRSA JC for their invaluable contributions and dedication to the organization. Your hard work and commitment to "Enhancing Competence for International Recognition" have made a significant impact. I am truly grateful for your service. Congratulations to the new sets of Board of Trustees headed by incoming President Engr. Orlan C. Moriones, I pray for your continuous success in 2025.

I express my deepest gratitude to our esteemed Council of Past Presidents, mentors and advisers for their invaluable guidance and support. Your wisdom and expertise have been instrumental in our growth and development. We are truly fortunate to have had the opportunity to learn from you.

I am incredibly grateful to our visionary sponsors for believing in our mission. Your investment in our future has empowered us to reach new heights. Thank you for your generosity.

I would like to express my sincere gratitude to our guests and families for their unwavering support and encouragement. Your presence and your belief in our mission have been instrumental in our success. Thank you for being a part of our journey.

I give thanks to You, Lord for a year filled with growth and achievement. May Your favor continue to shine upon the PSME WRSA JC as we embark on a new chapter.

MABUHAY ang PSME WRSA JC!

Engr. John Ray O. Madla, PME, AE, RMP
2024 Chapter President
PSME WRSA JC
2022 TOME Awardee



Message from the Convention Chairman



I am truly overjoyed to extend my warmest congratulations to everyone who has been part of the PSME WRSA Jeddah Chapter Family on this momentous occasion of the 21st Annual Convention and General Membership Meeting. Your unwavering commitment, passion, and meticulous planning have been evident throughout this entire event, making it an unforgettable experience for all attendees.

This convention marks a significant milestone where the fellowship of members will be firmly established. It has not only highlighted groundbreaking ideas and innovations but also fostered a community spirit that will undoubtedly inspire many. Your dedication has been the driving force behind this remarkable achievement, and it's a testament to your relentless dedication and hard work.

It is our utmost pleasure to extend our heartfelt thanks to our sponsor,

advertisers, the council of past presidents, the board of trustees, the annual committees, and the general membership. Your unwavering support and invaluable contributions have played a crucial role and contributing in making this event a resounding success.

With your relentless commitment, thank you for creating such an extraordinary platform for knowledge exchange, cooperation, collaboration, synergy, and convergence toward a common goal of success. The vibrant energy and enthusiasm each one of you has brought to this convention has made it a shining example of what can be achieved when brilliant minds come together.

Wishing you continuous success and many more extraordinary accomplishments ahead. May this be the start of even greater things to come!

Mabuhay ang PSME WRSA Jeddah Chapter!

Engr. Jobert M. De La Rosa, RMEE
2024 Executive Vice President
Annual Convention Chairman



Message from the Editor-in-Chief



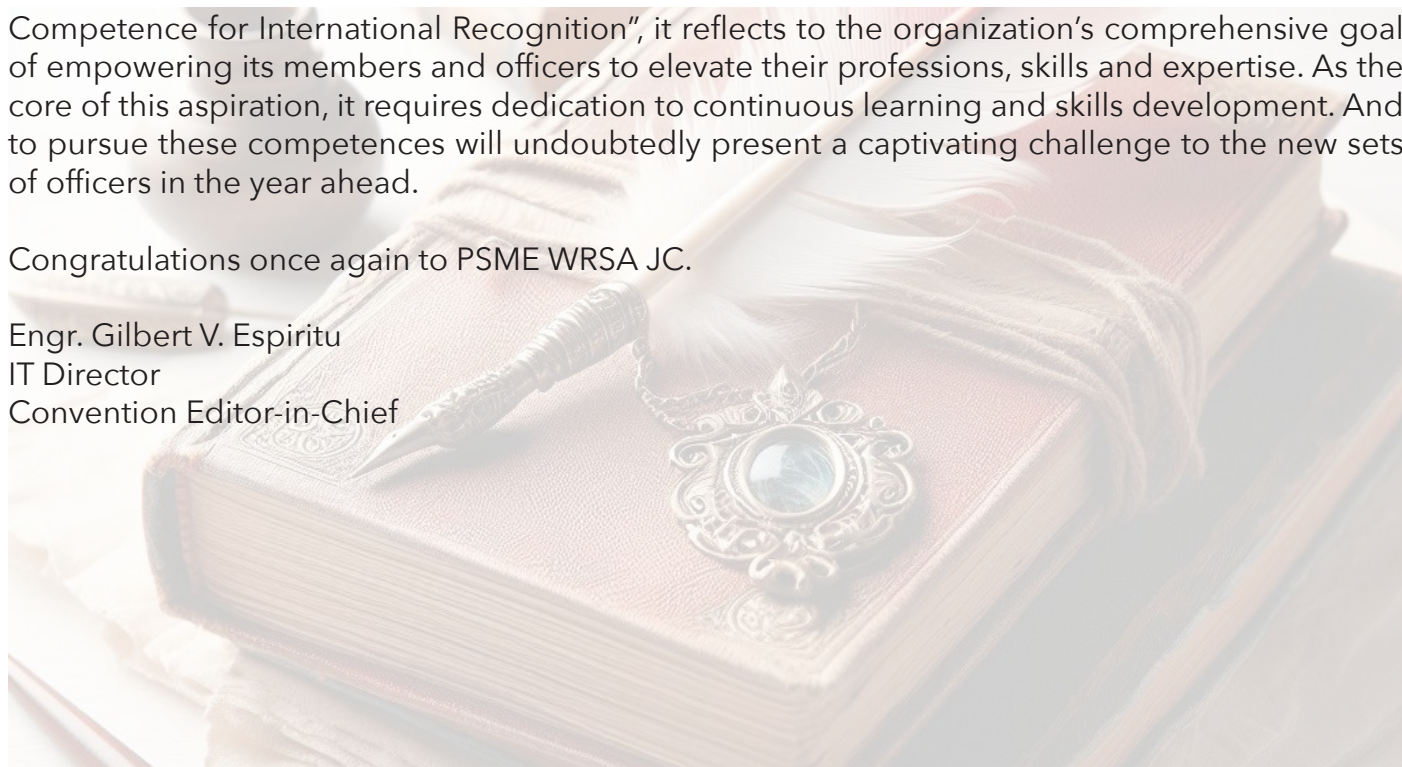
I would like to extend my heartfelt congratulations to the Philippine Society of Mechanical Engineers - Western Region Saudi Arabia Jeddah Chapter (PSME WRSJ JC), on our 21st Annual Convention and General Membership Meeting. This remarkable event stands as a showing by example to the hard work, dedication, sacrifices and commitment of the officers and members of the PSME WRSJ JC. Again, it is a significant event that highlights the continuous growth and progress of the chapter in contributing professional development among its members. This convention not only serves as a platform for knowledge sharing and networking but also exhibit the collective efforts of the Board of Trustees and members in advancing the field of mechanical engineering. Celebrating this event reflects the strong sense of camaraderie and collaboration within PSME WRSJ JC, and it inspires members to aspire for excellence in their academic and professional journeys.

With this year theme "Enhancing

Competence for International Recognition", it reflects to the organization's comprehensive goal of empowering its members and officers to elevate their professions, skills and expertise. As the core of this aspiration, it requires dedication to continuous learning and skills development. And to pursue these competences will undoubtedly present a captivating challenge to the new sets of officers in the year ahead.

Congratulations once again to PSME WRSJ JC.

Engr. Gilbert V. Espiritu
IT Director
Convention Editor-in-Chief





Message from the Past Presidents



Engr. Jose Melvin D. Santos
Immediate Past President (2023)

Greetings Everyone.

As our beloved Chapter celebrates its 21st Annual Convention & General Membership Meeting, let us all be reminded of the legacies that this chapter has established from the time it was founded in 1994 to the present. May these inspire everyone to strive and desire for more. I salute and applaud the untiring service that the incumbents, led by President John Ray O. Madla, have steered, and the unwavering support of the general membership and past leaders to make this Annual Convention a success.

I call on the General Membership to once again strengthen and participate to upcoming activities in line with the year 2025 theme, "Enhancing Competency for International Recognition". Let us upskill and upgrade to broaden our Career Paths and be Globally Recognized.

I congratulate and welcome the 2025 Board of Trustees, led by President-Elect. Orlan C. Moriones. May you continue the programs and activities that shall be beneficial to the general membership and potential members in enhancing their professional competencies and personal development as well. And in doing so, always be guided by PSME's Creed and Core Values.

Mabuhay ang PSME. Mabuhay ang Western Region Saudi Arabia Jeddah Chapter!

Kudos to the 2024 PSME-WRSA Jeddah Chapter Board of Trustees led by Pres. John Ray O. Madla for the dedication, passion, and achievements in this 30th year of Chapter existence. Your teamwork, camaraderie and a common purpose to serve our fellow mechanical engineers and community, capped another milestone in the rich history of our beloved Chapter.

The theme "Enhancing Competence for International Recognition", is a challenge to Filipino Mechanical Engineers to set the bar higher to be at par with our foreign counterparts in terms of design, analysis, critical thinking, and simulation. It can be realized by continuous training and upgrading of our skills as learning is a lifetime process.

To Pres. Elect Orlan C. Moriones and the 2025 Chapter Board of Trustees, we salute you for taking up the challenge, ride on and continue the legacy of PSME-WRSA. Always maintain the highest professional standard in serving our Supreme Members, you're Council of Past Presidents are always behind you, giving words of wisdom and advise as you continue your journey in public service.

Tatak at Dugong WRSA!
Viva PSME-WRSA Jeddah Chapter!



Niño Jose A. Lopez, PME, ASEAN Eng.
2022 PSME-WRSA Jeddah Chapter President
2023 TOME Awardee



RUBEN B. SERRANO, PME
2015 Chapter President (PSME-
WRSA Jeddah Chapter)
2016 Charter President (Jeddah
Western Region Chapter)
2016 - 2017 Deputy VP-Middle East
(Western Region, Saudi Arabia)
2017 TOME Awardee

CONGRATULATIONS PSME-WRSA Jeddah Chapter on its 21st ANNUAL CONVENTION and General Membership Meeting! Another year of successful accomplishments added to the roll of achievements of the chapter.

Credit to the 2024 Board of Directors under the leadership of Engr. John Ray Madla, Chapter President, for a job well done. The theme, "Enhancing Competence for International Recognition" is a goal every Filipino must have. Filipinos had already achieved some international recognition in Sports, Pageants and many more but we should not stop. We must continuously aim for more. As Filipino Mechanical Engineers, we can help achieve this aim by continuously enhancing our technical expertise thru seminars, conventions, practical training, etc., thus it helps us equipped with the new trends in the practice of mechanical engineering and lead us to such recognition.

MABUHAY ANG PSME-WRSA Jeddah Chapter!!!



**Wilfredo R. Ruiz, MSME, PME,
FPSME, ASEAN Eng.**
2000 & 2004 Chapter President, PSME-
WRSA Jeddah Chapter
2000 Most Outstanding Chapter
President
2004 Most Outstanding Mechanical
Engineer (TOME)
2012 & 2017 Fellow Awardee

Greeting to the Officers and members of the Philippine Society of Mechanical Engineers - Western Region Saudi Arabia, Jeddah Chapter on its 21st. Annual Convention and General Membership Meeting.

As professionals navigating a globalized world, the pursuit of excellence and competence is more vital than ever. The theme of our 21st. Annual Convention, "Enhancing Competence for International Recognition," underscores the importance of developing skills and expertise that meet international standards.

Competence is not just about technical ability—it's a blend of knowledge, adaptability, and a commitment to continuous improvement. These qualities are crucial for standing out in an increasingly competitive global landscape. By investing in our growth and aligning with international benchmarks, we not only elevate our professional stature but also contribute meaningfully to the broader goals of innovation and progress.

This theme calls upon us to:

- Assess and upgrade our skills to stay ahead in our respective fields.
- Foster collaboration to exchange ideas and best practices across borders.
- Embrace global standards as a framework for achieving excellence.

Through collective efforts, we can position ourselves and our organization as leaders on the international stage. Let this convention inspire us to take bold steps toward enhancing our competence and earning the recognition we deserve.

Together, we are building a future defined by excellence and global impact.

Mabuhay ang PSME at ang PSME-WRSA Jeddah Chapter!



Crisostomo C. Ortiz, PME, ASEAN Eng.
2014 PSME-WRSA Jeddah Chapter
President
2012 PSME-WRSA Toastmasters
President
2024 FIMAF President

Greetings to the PSME-WRSA Jeddah Chapter in our 21st Annual Convention, which is headed by Pres. John Ray O. Madla for his dedication and hard work in making this event a reality.

PSME-WRSA Jeddah Chapter has gained an appreciation of the problems that the conference has undertaken to solve the difficulties they have met and the success that has resulted. Their achievements mark another great step in the maintenance of peace.

It is with great pleasure and honor to welcome our PSME-WRSA members to our 2024 Annual Convention. This convention provides us with a unique opportunity to come together to exchange knowledge, share the latest advancement, and engage in meaningful discussions that will further enhance our understanding and ideas in terms of our specialties as mechanical engineers.

The theme "Enhancing Competence for International Recognition" reflects our commitment to improving our knowledge and advancing the frontier of endocrine science. I encourage each of you to make the most of this valuable opportunity to learn from one another and to forge new collaboration that will drive innovation in our field as mechanical engineers.

Our elected 2025 president, Engr. Orlan C. Moriones and his officers, and BOT, I'll extend my warmest congratulations to all of you.

To God's glory, Mabuhay ang PSME-WRSA Jeddah Chapter

Greetings of peace!

Mabuhay ang PSME-WRSA Jeddah Chapter! Another year has passed, yet our society is stronger than ever. Thanks to our incumbent Board of Trustees! Their dedication, perseverance, and selfless service paid off.

Recognition is a reward or a form of appreciation for any organization or individual that contributes to the betterment of our society. Our convention theme, "Enhancing Competence for International Recognition," reminds us to keep moving forward and learn from our mistakes. Being recognized in the international arena will challenge our way of life. We must excel, leave our comfort zones, and dwell on excellence.

As a member of the 2024 Chapters Comelec, I have faith and confidence in the 2024 BOT-Elect that they can fulfill their responsibilities to enhance the competence of our supreme members for the advancement of their careers and for the benefit of society. Let's continue to support one another to achieve the objectives set by the organization.

Congratulations to the PSME-WRSA Jeddah Chapter in its 21st annual convention!

God bless the PSME-WRSA JC!



Lee I. Bonifacio, RMEE, ASEAN Engr,
MACDDS
Past President, Y2021



**Engr. Aldrin Alizon D. Lango FPSME,
RMEE, AE,**
Chapter President 2019 & 2020
2018 TOME Awardee

My warmest Congratulations to the PSME-WRSA Jeddah Chapter for its 21st Annual Convention and General Membership Meeting.

The Chapter's theme for fiscal year 2025 "Enhancing Competence for International Recognition" will be challenging and exciting endeavor. Directing the organization's path in pursuit of this quest entails developing skills and strategies that will ensure our relevance in the rapidly modernizing world.

Enhancing competence and aligning with international standards is key to driving innovation, fostering global collaboration, and achieving sustained growth.

It is crucial to consider that sustainable development is not just a necessity but an opportunity to innovate while maintaining a balance with the environment.

Enhancing competence may require pursuing certifications, advanced degrees, participating in international organization, attending technical seminars and conferences, collaborating on international projects, working with international firms on projects which apply cutting edge global practices, energy efficient in strict compliance with the international standards.

In the long run, Engineers need to adapt to new fields and work alongside experts from other domains: to obtain the advantage of cross-disciplinary knowledge. Anticipate the proliferation of advanced understanding of renewable energy systems like wind, solar, and hydropower integration so he can plan which relevant organization he can join. Digital literacy and technological competence such as proficiency with engineering software, etc. is also to be expected due to the expected complexities of the upcoming technology. Soft skills such as emotional intelligence and resilience and problem solving need to be practice as this is an essential part to succeed aside from the usual technical knowledge. Knowing the emerging industries such as aerospace, biotech autonomous vehicles, etc. so that he can plan what kind of engineering enhancement is required now.

We are lucky in this part of the world that not only we can easily join international institution but also meet and work with people who are the native user(s) of this world-renowned standard(s) in the host nation where this standard is the basis of implementation. Truly enough AI is here and this may pose a threat or may requires practicing Engineer to be more proficient but one thing is for sure, Engineers enhancing his competency will improve his skill(s) and significantly broaden his professional chances and career prospect(s).



DANILO GERCIO, PME
PSME-WRSA-JC
Past President -1998



Napoleon M. Cepriaso, PME, AE
2016 Fellow Awardee
2012 PSME-WRSA Jeddah Chapter
President
2011 & 2002 TOME Awardee

Greetings to PSME-WRSA Jeddah Chapter. I commend the leadership of Pres. John Ray O. Madla and the 2024 Officers and BOT for their dedication, hard work, and the milestones achieved by the Chapter this year. Your collective efforts have shown excellence and camaraderie that the Chapter is known for. And, your unwavering commitment to professional growth has elevated the Chapter's standing within the community.

The 2025 theme, "Enhancing Competence for International Recognition", is a call to action for all of us. Let us sharpen our skills and continue showcasing the talent of Filipino mechanical engineers. Let us challenge ourselves to aim higher and foster innovation in the global stage. Together, we can turn aspirations into achievements.

To the incoming president Orlan C. Moriones, with the 2025 Officers and BOT, I extend my warmest welcome and encouragement as you take this vital role. Keeping the Chapter's legacy is a noble act of service. Guided by the inspiring theme, may your leadership ignite a vitalized drive for professional growth, global competitiveness, and innovation within the Chapter.

Mabuhay ang PSME-WRSA Jeddah Chapter!

Felicitations to the Year 2024 Board of Directors of the PSME-WRSA Jeddah Chapter from Chapter President - Engr. John Ray Madla, to the Board of Directors and to all vigorous Members on its 21th Annual Convention & General Membership Meeting.

As we pleat for this year's Annual Convention, I am occupied with pride and honor for the pathway we have shared in progressing our mechanical engineering profession. It is a source of pride to be part of such a dedicated and rock-solid community.

This year's theme, "Enhancing Competence for International Organization," is vibrant for our profession's future. We need to continuously develop our knowledge to meet international standards, involve with diverse teams, and generate impactful results. As we explore this theme, I encourage all members of our Chapter to focus on:

1. Continuous Professional Education (CPE): Constant education keeps us relevant in a rapidly evolving field, let us take the opportunities from all CPE programs for Mechanical Engineers.
2. Aligning with Global Practices: Positioning with global practices ensures our work is applicable and impactful worldwide.
3. Global Collaboration: Diverse viewpoints lead to robust, more innovative and sustainable solutions.
4. Global Influence and Leadership: By stepping into leadership roles as we are trained to our Chapter, we can elevate our profession globally.

Our Annual Convention is an opportunity to learn, cultivate, and link in an international stage. We are blessed to be in the Kingdom of Saudi Arabia, its Vision 2030 will align to our theme to the Kingdom's strategic roadmap for economic diversification, development and modernization. - aiming to transform its economy into a more sustainable and diverse one by the year 2030. Let us be part of this momentous Vision as a Global Mechanical Engineers by supporting one another and prepare for the challenges and chances for advancement.

Lastly, let me thank all the Officers & Members of the PSME-WRSA Jeddah for your passion and dedication.



RAINIER PLAMENCO PATAWI
ME, ASEAN Eng.
Year 2011 PSME-WRSA Jeddah Chapter
President
PSME - TOME Year 2011
PSME - Most Outstanding Member Year
2007



Technical Write-Up

Alternative Space Cooling: A Sustainable Approach

by: John Ray O. Madla, PME, AE, RMP

As the world grapples with rising temperatures and increasing energy demands, the need for sustainable and efficient space cooling solutions has become more pressing than ever. Traditional air conditioning systems, while effective, often contribute significantly to greenhouse gas emissions and energy consumption. In response, a range of alternative space cooling technologies and strategies have emerged, offering promising solutions to this global challenge.

Understanding the Need for Alternatives

Conventional air conditioning systems heavily rely on fossil fuels to power their energy-intensive cooling processes. This dependence not only contributes to climate change but also leads to increased energy costs and air pollution. Moreover, the growing urbanization and rising global temperatures are exacerbating the need for efficient and environmentally friendly cooling solutions.

Alternative Space Cooling Technologies

1. Passive Cooling Techniques

Building Design and Orientation: Strategic placement of buildings, shading devices, and insulation can significantly reduce heat gain and improve natural ventilation. Passive cooling is a design strategy that utilizes natural elements like sunlight, wind, and water to regulate a building's temperature without relying on mechanical systems. By carefully considering a building's orientation, architects and builders can significantly reduce energy consumption and create more comfortable living spaces.

The Role of Orientation

The orientation of a building, or its alignment with the cardinal directions, plays a crucial role in passive cooling. By understanding the sun's path and prevailing wind patterns, designers can optimize a building's layout to minimize heat gain and maximize natural ventilation.

Key Principles for Passive Cooling Orientation

Minimize Solar Gain:

North-Facing Orientation (Northern Hemisphere): In regions with hot summers, orienting the primary living spaces towards the north minimizes direct sunlight exposure during the hottest part of the day.
South-Facing Orientation (Southern Hemisphere): In contrast, in regions with cold winters, south-facing orientations maximize solar gain during winter months.

Maximize Natural Ventilation:

Prevailing Winds: Identify the direction of prevailing winds and design the building to capture these breezes.

Cross-Ventilation: Create a cross-ventilation effect by positioning windows and doors on opposite sides of the building to allow air to flow through.

Shading Devices: Use overhangs, awnings, or vegetation to shade windows and walls from direct sunlight.

Utilize Thermal Mass:

Heavy Materials: Incorporate materials with high thermal mass, such as concrete or stone, to absorb heat during the day and release it slowly at night.

Insulation: Properly insulate the building to reduce heat transfer and maintain a comfortable indoor temperature.

Additional Considerations:

Site Analysis: Conduct a thorough site analysis to understand local climate conditions, including temperature, humidity, wind patterns, and solar radiation.

Building Shape and Form: Consider the building's shape and form to optimize solar exposure and ventilation. Compact forms with minimal surface area can reduce heat gain.

Window Placement and Size: Strategically place windows to maximize natural light and ventilation while minimizing solar heat gain.

Landscaping: Plant trees and shrubs to shade the building and create windbreaks.

Building Shape and Form: Consider the building's shape and form to optimize solar exposure and ventilation. Compact forms with minimal surface area can reduce heat gain.

Window Placement and Size: Strategically place windows to maximize natural light and ventilation while minimizing solar heat gain.



Landscaping: Plant trees and shrubs to shade the building and create windbreaks.

By carefully considering house orientation and incorporating passive cooling principles, we can design buildings that are more energy-efficient, sustainable, and comfortable. By harnessing the power of nature, we can reduce our reliance on artificial cooling systems and create healthier living environments.



Ventilation Strategies: Proper ventilation systems, such as cross-ventilation and stack ventilation, can effectively cool buildings without relying on mechanical cooling.

Green Roofs and Walls: Green infrastructure can help regulate building temperatures by absorbing heat and reducing urban heat island effects.

2. Evaporative Cooling

Evaporative Coolers: These systems use water evaporation to lower air temperature, providing a more energy-efficient cooling solution compared to traditional air conditioning. Evaporative cooling is a natural process that leverages the principle of evaporation to reduce air temperature. When water evaporates, it absorbs heat from its surroundings, resulting in a cooling effect. Evaporative coolers, also known as swamp coolers, utilize this principle to provide effective and energy-efficient cooling solutions, particularly in dry climates.

How Evaporative Coolers Work

Water Absorption: Water is drawn into a porous cooling pad or filter.

Air Intake: Warm, dry outdoor air is drawn into the cooler.

Evaporation: As the air passes through the wetted pad, the water evaporates, absorbing heat from the air.

Cool Air Distribution: The cooled air is then circulated throughout the space, providing a refreshing and comfortable environment.

Key Advantages of Evaporative Coolers

Energy Efficiency: Evaporative coolers consume significantly less energy compared to traditional air conditioning systems.

Lower Operating Costs: Reduced energy consumption translates to lower utility bills.

Improved Air Quality: Evaporative cooling systems can help filter out dust and pollen, improving indoor air quality.

Natural Cooling: The process mimics natural cooling methods, providing a more comfortable and healthy environment.

Eco-Friendly: By reducing reliance on fossil fuels, evaporative coolers contribute to a greener future.

Ideal Climate Conditions for Evaporative Coolers

Evaporative coolers work best in dry climates with low humidity. In humid environments, the evaporation process is less efficient, and the cooled air may feel damp or uncomfortable.

Applications of Evaporative Cooling

Residential Cooling: Evaporative coolers can effectively cool homes and apartments, especially in regions with dry climates.

Commercial Buildings: They are suitable for cooling offices, warehouses, and other commercial spaces.

Industrial Settings: Evaporative cooling can be used to maintain comfortable working conditions in factories and workshops.

Agricultural Applications: They can help regulate temperatures in greenhouses and other agricultural facilities.

Evaporative coolers offer a sustainable and cost-effective solution for passive cooling. By harnessing the power of evaporation, these systems provide a comfortable and energy-efficient way to beat the heat, particularly in dry climates. Consider incorporating evaporative cooling into your cooling strategy to reduce your environmental impact and save on energy costs.

3. Desiccant Cooling

This technology removes moisture from the air, reducing humidity and providing a comfortable indoor environment.

Desiccant cooling systems offer an energy-efficient solution for air conditioning in regions with high



humidity. Unlike traditional vapor-compression systems, desiccant systems dehumidify air using a solid or liquid desiccant material, reducing the need for extensive cooling.

This makes them particularly suitable for climates where the primary cooling challenge is moisture removal.

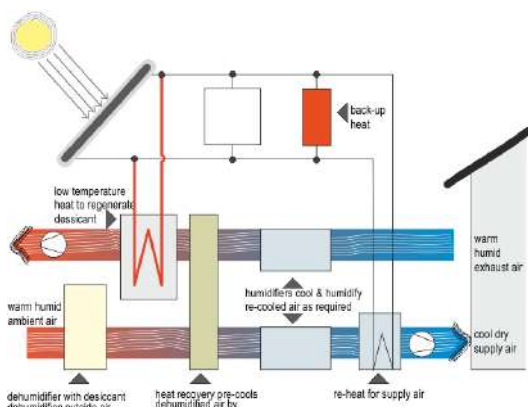
How Desiccant Cooling Works

Desiccant cooling systems operate on a simple principle:

Dehumidification: Humid air is passed through a desiccant wheel or bed, where the moisture is absorbed by the desiccant material. This reduces the moisture content of the air.

Regeneration: The desiccant material, saturated with moisture, is regenerated by heating it, releasing the moisture and preparing it for further dehumidification.

Cooling: The dehumidified air can be further cooled using evaporative cooling or other methods, depending on the desired temperature.



Types of Desiccant Materials

Solid Desiccants: Commonly used solid desiccants include silica gel, zeolite, and activated alumina. These materials have high moisture absorption capacity and can be easily regenerated.

Liquid Desiccants: Liquid desiccants, such as lithium chloride and calcium chloride solutions, offer continuous operation without the need for regeneration cycles.

Advantages of Desiccant Cooling

Energy Efficiency: Desiccant systems can be more energy-efficient than traditional systems, especially in humid climates.

Reduced Environmental Impact: They do not use ozone-depleting refrigerants, making them environmentally friendly.

Improved Air Quality: Desiccant systems can

effectively remove pollutants and allergens from the air.

Versatility: They can be integrated with other cooling technologies, such as evaporative cooling, to achieve optimal performance.

Applications

Desiccant cooling systems are well-suited for various applications, including:

Commercial buildings

Industrial facilities

Data centers

Residential buildings in humid climates

Desiccant cooling systems offer a promising alternative to traditional air conditioning systems, particularly in regions with high humidity. Their energy efficiency, environmental friendliness, and versatility make them a valuable tool for sustainable building design and operation.

4. Advanced Cooling Technologies Magnetic

Refrigeration: This technology utilizes magnetic materials to achieve cooling without the use of harmful refrigerants. Magnetic refrigeration is a promising technology that harnesses the magnetocaloric effect to provide efficient and environmentally friendly cooling solutions.

The Magnetocaloric Effect

The magnetocaloric effect is the phenomenon where certain materials, known as magnetocaloric materials, change temperature when exposed to a magnetic field. When a magnetic field is applied, the material's magnetic domains align, releasing heat. Conversely, when the magnetic field is removed, the domains become disordered, absorbing heat from the surroundings and cooling the material.

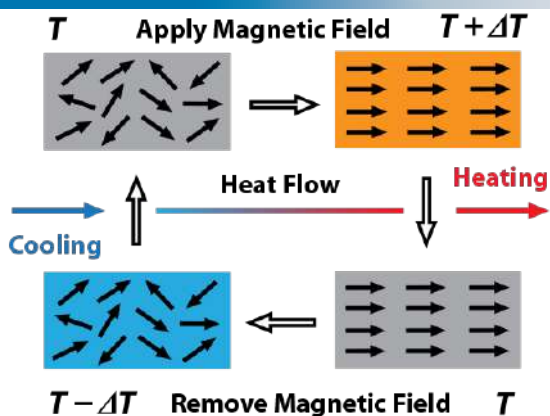
How Magnetic Refrigeration Works

A magnetic refrigerator typically consists of a magnetocaloric material, a magnetic field source, and a heat transfer system. Here's a simplified explanation of its operation:

Magnetization: The magnetocaloric material is placed within a strong magnetic field. This causes the material to heat up as the magnetic domains align.

Heat Rejection: The heat generated during magnetization is transferred to a heat sink, such as a radiator or a heat exchanger.

Demagnetization: The magnetic field is removed,



causing the material to cool down as the magnetic domains become disordered.

Heat Absorption: The cooled material absorbs heat from its surroundings, effectively providing cooling.

Advantages of Magnetic Refrigeration

High Efficiency: Magnetic refrigerators have the potential to be significantly more energy-efficient than traditional vapor-compression refrigeration systems.

Environmental Friendliness: Unlike traditional refrigerants, which can contribute to ozone depletion and global warming, magnetic refrigeration systems use environmentally friendly materials and do not release harmful gases.

Quiet Operation: Magnetic refrigeration systems operate silently, making them ideal for applications where noise reduction is important.

Versatility: Magnetic refrigeration can be used for a wide range of applications, including household refrigerators, air conditioners, and industrial cooling systems.

Challenges and Future Developments

While magnetic refrigeration offers many advantages, there are still challenges to overcome before it becomes a mainstream technology. These challenges include:

Cost: The development and production of high-performance magnetocaloric materials can be expensive.

Material Limitations: Currently available magnetocaloric materials may not be suitable for all applications, particularly those requiring very low temperatures.

Complex Design: Magnetic refrigeration systems require sophisticated engineering and precise control of magnetic fields.

Despite these challenges, ongoing research and development efforts are focused on improving the performance, reducing the cost, and expanding

the applications of magnetic refrigeration. With continued advancements, magnetic refrigeration has the potential to revolutionize the way we cool our homes, businesses, and industries.

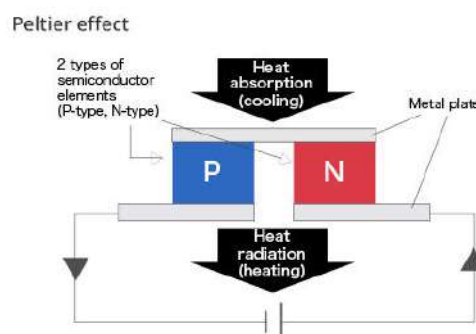
Thermoelectric Cooling: This technology uses electricity to create a temperature difference, enabling cooling without the need for compressors. Thermoelectric cooling, also known as solid-state cooling, is a technology that utilizes the Peltier effect to create a temperature difference between two sides of a device. Unlike traditional refrigeration systems that rely on mechanical compression and expansion of refrigerants, thermoelectric coolers operate without moving parts, making them reliable and environmentally friendly.

How Thermoelectric Cooling Works

Peltier Effect: When an electric current is passed through a junction of two different types of semiconductors, heat is absorbed on one side of the junction and released on the other. This phenomenon is known as the Peltier effect.

Thermoelectric Module: A thermoelectric module consists of multiple pairs of n-type and p-type semiconductors connected in series. By applying a direct current to the module, one side becomes cold while the other becomes hot.

Heat Transfer: The cold side of the module absorbs heat from its surroundings, while the hot side dissipates heat into a heat sink.



Advantages of Thermoelectric Cooling

Reliability: No moving parts, reducing the risk of mechanical failures.

Environmental Friendliness: No use of harmful refrigerants, making it a sustainable option.

- **Compact Size:** Can be easily integrated into small devices and systems.
- **Precise Temperature Control:** Offers precise



temperature regulation.

- Quiet Operation: No noise associated with traditional refrigeration systems.

Applications of Thermoelectric Cooling

- Electronics Cooling: Cooling CPUs, GPUs, and other electronic components to improve performance and reliability.
- Portable Refrigeration: Mini-fridges, coolers, and wine coolers for personal use.
- Medical Devices: Cooling blood samples, vaccines, and other temperature-sensitive materials.
- Automotive Applications: Cooling car seats, beverage holders, and other components.
- Military and Aerospace: Cooling electronic equipment in harsh environments.

Limitations of Thermoelectric Cooling

- Lower Efficiency: Compared to traditional refrigeration, thermoelectric cooling systems have lower efficiency, requiring more energy to achieve the same cooling effect.
- Cost: Thermoelectric modules can be more expensive than traditional refrigeration components.

Despite these limitations, thermoelectric cooling technology continues to advance, with ongoing research aimed at improving efficiency and reducing costs. As the demand for energy-efficient and environmentally friendly cooling solutions grows, thermoelectric cooling is poised to play an increasingly significant role in various applications.

5. District Cooling Systems

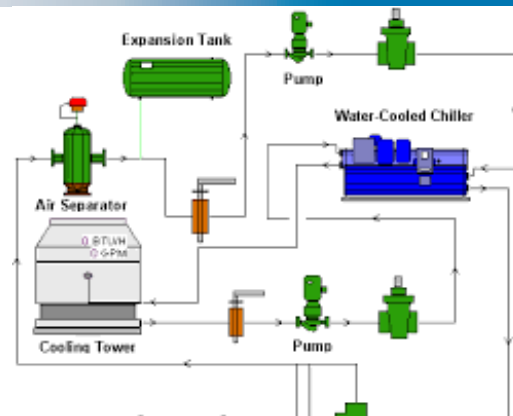
Centralized Cooling Plants: These systems provide cooling to multiple buildings in a district, reducing energy consumption and improving efficiency.

District cooling systems (DCS) are a sustainable and efficient way to provide cooling to multiple buildings in a specific area. Unlike traditional air conditioning systems, which rely on individual units for each building, a DCS uses a centralized plant to produce chilled water, which is then distributed through a network of underground pipes to various buildings.

How District Cooling Works:

Centralized Production: A central plant, often located near a water source like a river or sea, produces chilled water using large, efficient chillers.

Distribution Network: The chilled water is then pumped through a network of insulated pipes, typically buried underground, to the connected buildings.



Building Integration: Each building connects to the distribution network and uses a heat exchanger to transfer the cooling energy from the chilled water to the building's air conditioning system.

Building Integration with District Cooling



Benefits of District Cooling:

Energy Efficiency: Centralized production and distribution allow for economies of scale, resulting in lower energy consumption and reduced greenhouse gas emissions.

Environmental Impact: DCS systems often utilize natural cooling sources like seawater or groundwater, further minimizing environmental impact.

Reliability: Centralized maintenance and monitoring ensure consistent and reliable cooling supply.

Reduced Building Footprint: Eliminating individual rooftop cooling units frees up valuable space on buildings.

Cost-Effective: Long-term operational costs are often lower due to energy efficiency and reduced maintenance needs.

Applications of District Cooling

Urban Areas: Large cities and urban centers



benefit from the efficient distribution of cooling to numerous buildings.

Commercial Districts: Business districts, shopping malls, and office complexes can significantly reduce energy consumption with DCS.

Campuses: Universities and campuses can optimize cooling for multiple buildings.

Residential Areas: Some residential communities, especially in hot climates, can adopt DCS for individual homes or groups of houses.

Challenges and Considerations

Initial Investment: The upfront cost of building the central plant and distribution network can be significant.

Maintenance and Operation: Specialized expertise is required for the operation and maintenance of the system.

Reliability of Infrastructure: The network of pipes must be well-maintained to ensure uninterrupted cooling supply.

District cooling systems offer a promising solution for sustainable and efficient cooling in various settings. By centralizing production and distribution, DCS helps reduce energy consumption, minimize environmental impact, and provide reliable cooling to multiple buildings.



The Role of Renewable Energy

Integrating renewable energy sources, such as solar and wind power, with alternative cooling technologies can further enhance sustainability and reduce reliance on fossil fuels. Solar-powered cooling systems, for example, can provide a clean and efficient solution for space cooling, especially in regions with abundant sunlight.

The Way Forward

To effectively address the growing demand for space cooling while minimizing environmental impact, a multi-faceted approach is necessary. This includes:

Policy and Regulatory Frameworks: Governments can promote energy-efficient building codes, incentives for adopting alternative cooling technologies, and regulations to phase out inefficient systems.

Technological Innovation: Continued research and development are essential to advance alternative cooling technologies and improve their performance and affordability.

Public Awareness and Education: Raising awareness about the environmental and economic benefits of sustainable cooling practices can encourage individuals and businesses to adopt these solutions.

International Cooperation: Collaborative efforts between countries can facilitate knowledge sharing, technology transfer, and the development of global standards for sustainable cooling.

By embracing alternative space cooling solutions and adopting sustainable practices, we can mitigate the negative impacts of traditional cooling systems and create a more sustainable future.



The Technical and Economic Advantages of Power Factor Correction

INTRODUCTION

In electrical engineering, the power factor of an AC system is defined as the ratio of the true power absorbed by the load and the apparent power flowing in the circuit and is a dimensionless number in the closed range of -1 to 1 . Therefore, the power factor is a measure of the efficient use of the input power in the electrical system and is defined as the ratio between the true power and total apparent power.

- **True power** is the power that effectively supplies the equipment and performs useful and productive work.
- **Reactive power** is required by some equipment (eg. transformers, motors and relays) to produce a magnetic field for operation; however, it does not perform any real work.
- **The apparent power** is the vector sum of the true and reactive power and corresponds to the total power required to produce the equivalent amount of true power for the load, see figure 1.

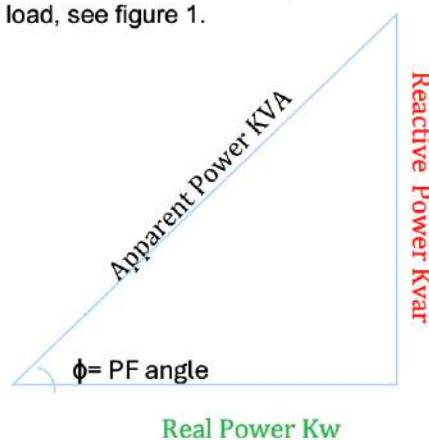


Figure 1

Power factor correction may be required when a system has a power factor of less than 90% (or 0.9). A low power factor can contribute to the instability and malfunction of the equipment, as well as significantly higher energy costs than work. By optimizing and improving the power factor, the quality of the power is improved, reducing the load on the electricity distribution system, see figure 2.

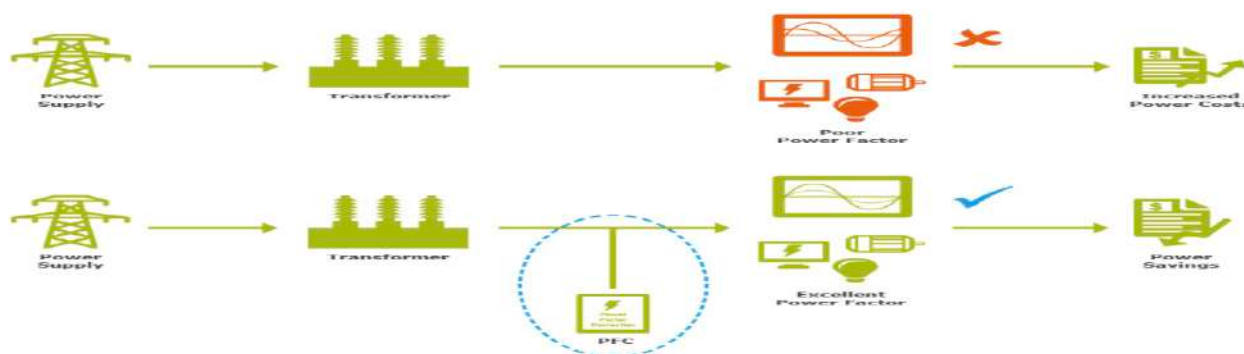


Figure 2

POWER FACTOR IMPROVEMENT

Improving the power factor is a solution that allows technical and economic advantages, in fact, management of a low-energy installation implies an increase in costs, for the authority that supplies electricity, which consequently applies a tariff structure that penalizes the withdrawal of energy with reduced power factors. Legislative measures in force in different countries allow national energy authorities to create a more or less detailed tariff system, without going into too much detail, such a system is structured so that the absorbed reactive energy exceeds the value corresponding to $\cos\phi$ equal to 0.9 must be paid based on amounts defined according to the voltage level of the supply (low, medium or high) and the

power factor. As mentioned above, by correcting the power factor of an installation that provides the required reactive power locally, at the same level of required output power, it is possible to reduce the current value and therefore the total power absorbed on the load side, this implies many advantages, including a better use of the electric machines (generators and transformers) and of the electric lines (transmission and distribution lines)

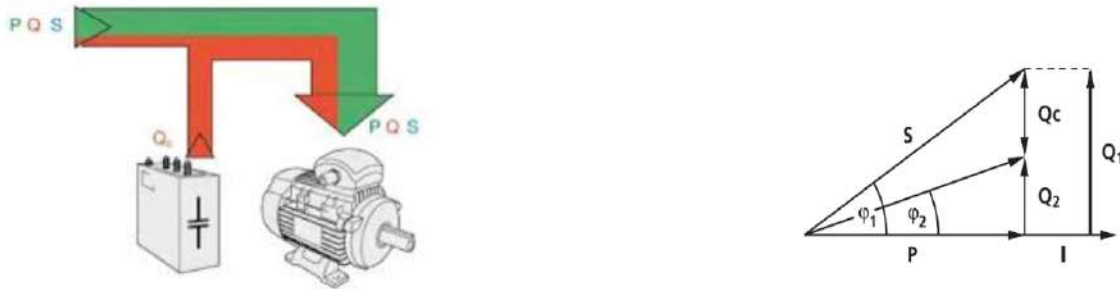


Figure 3

In the case of sinusoidal waveforms, the reactive power required to switch from a power factor $\cos\phi_1$ to a power factor $\cos\phi_2$ is given by the relation (valid for both three-phase and single-phase systems), see relation (1):

$$Q_c = Q_1 - Q_2 = P \cdot (\tan\phi_1 - \tan\phi_2) \quad (1)$$

Where:

- P is active power
- Q_1, ϕ_1 are the reactive power and the phase shift angle before the power factor correction;
- Q_2, ϕ_2 are the reactive power and the phase shift angle after the power factor correction;
- Q_c is the reactive power for power factor correction.

Let us presume that we want to increase the power factor from 0.8 to 0.93 in a three-phase installation ($U_n = 400 \text{ V}$) absorbing an average power of 300 kW.

Relation (2) shows the absorbed current will be:

$$I = \frac{P}{(U_n \cos\phi)\sqrt{3}} = \frac{300 \times 10^3}{1.73 \times 400 \times 0.8} = 540 \text{ Amperes} \quad (2)$$

By applying the formula described above, the reactive power generated locally by Q_c can be obtained in relation (3):

$$Q_c = P \cdot (\tan\phi_1 - \tan\phi_2) = 300 (0.75 - 0.39) = 108 \text{ KVAR}$$

Due to the power factor correction effect, the absorbed current decreases from 540 A to relation (4):

$$I = \frac{P}{(U_n \cos\phi)\sqrt{3}} = \frac{300 \times 10^3}{1.73 \times 400 \times 0.93} = 465 \text{ Amperes}$$

$$\% \text{ Reduction} = (540 - 465) / 540 = 15\%$$



For the above, the main benefits of power factor correction can be summarized as follows:

- better use of electric machines;
- better use of power lines;
- reducing losses;
- reduction of voltage drops.

a) Better use of electric machines

By improving the power factor of the installation, these electric machines can be dimensioned for a seemingly lower power, but still provide the same active power [8].

The table 1 presents the variation of transmissible power for MV / LV three-phase transformers as a function for $\cos\phi$:

Table 1. The variation of transmissible power for MV / LV three-phase transformers

Power of the transformer [kVA]	Power of the transformer [kW]					
	$\cos\phi$					
	0.5	0.6	0.7	0.8	0.9	1
63	32	38	44	50	57	63
100	50	60	70	80	90	100
125	63	75	88	100	113	125
160	80	96	112	128	144	160
200	100	120	140	160	180	200
250	125	150	175	200	225	250
315	158	189	221	252	284	315

From the previous chart it turns out that in order to provide a total power of 170 kW with $\cos\phi = 0.7$ for a series of loads, a 250 kVA transformer must be used. If the loads would absorb the same power with $\cos\phi = 0.9$, instead of 0.7, it would be sufficient to use a 200 kVA transformer. It is also valid for generators.

b) Better use of power lines

The correction of the power factor allows to obtain advantages for the sizing of the cables. In fact, as previously stated, at the same output power, by increasing the power factor the current decreases. This reduction of current can be such as to allow the choice of conductors with a lower cross section.

c) Reducing losses

The power losses of an electric conductor depend on the resistance of the conductor itself and the square of current flowing through it; since, with the same value of the active power transmitted, the higher the $\cos\phi$, the smaller the current, it turns out that when the power factor increases, the losses in the conductor in the power part of the point where the correction of the factor of power has been made will decrease.

d) Reduction of voltage drops

The voltage drop from line to line in a three-phase line can be expressed as follows, in relation (5):

$$\Delta U = \sqrt{3} \cdot I \cdot (R \cos \phi + X \sin \phi) = \frac{P}{U_n} \cdot (R + X \tan \phi) \quad (5)$$

Where:

- R and X are respectively the resistance and reactance of the line;
- P is the transmitted active power;
- I is the current;
- U is the rated voltage.

At the same transmitted active power level, the lower the voltage drop, the higher the power factor.



THE ADVANTAGES OF POWER FACTOR CORRECTION ECONOMICALLY

In general, the contractual clauses of electricity supply require the payment of the reactive energy absorbed when the power factor is included in the range 0.7 and 0.9, while nothing is due if it is greater than 0.9. For $\cos\phi < 0.7$, energy distributors can force consumers to make power factor corrections.

The cost that the consumer incurs on an annual basis when drawing a reactive energy exceeding the value corresponding to a power factor equal to 0.9 can be expressed by the following relation (6):

$$C_{EQ} = (E_Q - 0,5 \cdot E_P) \cdot C \quad (6)$$

Where:

- C_{EQ} is the cost of the reactive energy per year in €;
- E_Q is the reactive energy consumed per year in kVArh;
- E_P is the active energy consumed per year in kWh;
- $E_Q - 0,5 E_P$ is the amount of reactive energy to be paid;
- c is the unit cost of the reactive energy in €/kVArh.

Consumer savings are in relation (7):

$$C_{EQ} - C_{Qc} = (E_Q - 0,5 \cdot E_P) \cdot c - Q_c \cdot c_c \quad (7)$$

Where:

- C_{Qc} is the yearly cost in € to get a power factor equal to 0.9;
- Q_c is the power of the capacitor bank necessary to have a $\cos\phi$ of 0.9, in kVAr;
- c_c is the yearly installation cost of the capacitor bank in €/kVAr.

In fact, a precise analysis of an investment involves the use of economic parameters that go beyond the purposes of this technical application document.

The following is an example of the energy consumption of a company. A company absorbs the active and reactive energy according to the table 2:

Table 2. Active and reactive energy consumption in one year

Month	Active energy [kWh]	Reactive energy [kvarh]	Monthly average pf
Jan	7221	6119	0,76
Feb	8664	5802	0,83
Mar	5306	3858	0,81
Apr	8312	6375	0,79
May	5000	3948	0,78
June	9896	8966	0,74
July	10800	10001	0,73
Aug	9170	8910	0,72
Sep	5339	4558	0,76
Oct	7560	6119	0,78
Nov	9700	8870	0,74
Dec	6778	5879	0,76
Total	93746	79405	-



If a bank of automatic capacitors controlled for the correction of the power factor with $Q_c = 30$ kVAr, compared to a total installation cost of 25 €/kVAr, a total cost of 750 € is obtained. Consumer savings, regardless of depreciation and financial costs, must be in table 3:

Table 3. The reactive power necessary to increase the power factor up to 0.9

Month	Active energy [kWh]	Monthly average pf	Operating hours	Active power P [kW]	$Q_c = P \cdot (\tan \phi - 0.484^1)$
Jan	7221	0.76	160	45.1	16.4
Feb	8664	0.83	160	54.2	10.0
Mar	5306	0.81	160	33.2	8.1
Apr	8312	0.79	160	52.0	14.7
May	5000	0.78	160	31.3	9.5
June	9896	0.74	160	61.9	26.1
July	10800	0.73	160	67.5	29.8
Aug	9170	0.72	160	57.3	27.9
Sep	5339	0.76	160	33.4	12.3
Oct	7560	0.78	160	47.3	15.4
Nov	9700	0.74	160	60.6	26.1
Dec	6778	0.76	160	42.4	16.2

¹0.484 is the tangent corresponding to a $\cos \phi$ equal to 0.9

In the case of a capacitor bank with automatic control for the correction of the power factor with $Q_c = 30$ kVAr, compared to the total installation cost per year of 25 €/kVAr, a total cost of 750 € is obtained. Consumer savings, regardless of depreciation and financial costs, are presented in relation (8):

$$C_{EQ} - C_{QC} = 1370 - 750 = 620€ \quad (8)$$

CONCLUSIONS

With the current system right now the Saudi Arabia was imposing Tariff if the power factor was not achieved. From the previous power factor limit of 90 % they raised it up to 95 %, So it's a must now that we installed a Power factor Corrector especially those facilities or factory that only achieved 70 % power factor.

Compiled by :

Engr. Orlan C. Moriones – PME, Asean Eng., RMP
Vice- President Internal Affairs
PSME – WRSA Jeddah Chapter



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2023



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RMEE, AE
2020 & 2019



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PME
2019



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2018



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RMEE
2017



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PME, AE
2015



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2014



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1996



Ruben M. Parpan
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1995



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FPSME, PME
1994
PSME WRSA-JC
Charter President

Mission Statement

Maintain the integrity of the Mechanical Engineering profession.
Promote excellence in the practice of profession.
Develop among members high ideals of competence, ethical conduct, integrity and civic consciousness.
Contribute to the enhancement of Science and Technology.
Foster cordial, harmonious, and promote fellowship and cooperation among Mechanical Engineers globally.



Ruben B. Serrano
PME
PSME JWR
Chapter President



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Chapter President



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Engr. Oliver O. Salazar
Engr. Mark Joseph A. Madolid
Engr. Jobert M. De La Rosa
Committee on Physical Arrangement

PP Engr. Napoleon M. Cepriaso
PP Engr. Aldrin Alizon D. Lango
Committee on Photo and Video

IPP Engr. Jose Melvin D. Santos
Engr. Julius M. Cañeca
Committee on Entertainment and Fellowship



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THE OUTSTANDING MECHANICAL ENGINEER			
YEAR 2023 Aldrin Alizon D. Lango, RMEE Fellow Award	YEAR 2017 & 2012 Wilfredo R. Ruiz, PME Fellow Award	YEAR 2016 Napoleon M. Cepriaso, PME Fellow Award	YEAR 2011 Nildo K. Tan, Jr., PME Fellow Award
YEAR 2023 Niño Jose A. Lopez, RMEE Design	YEAR 2023 Lee I. Bonifacio, RMEE Manufacturing	YEAR 2022 John Ray O. Madla, RMEE HVAC	YEAR 2022 Roseller A. Junsay, Jr., RMEE Facilities Engineering
YEAR 2018 Elmer B. Quinico, RMEE Housing Refrigerating Appliances	YEAR 2018 Aldrin Alizon D. Lango, RMEE Advance Cooling System Engineering	YEAR 2017 Ruben B. Serrano, PME Tool Engineering	YEAR 2016 Jaime L. Leviste, RMEE Biomedical Engineering
YEAR 2012 Ace Glen B. Garcia, RMEE Consultancy	YEAR 2012 Roel Alfon G. Banawis, RMEE Design	YEAR 2012 Crisostomo C. Ortiz, PME Community Service	YEAR 2012 Joselito L. Bentulan, PME Manufacturing
YEAR 2011 Napoleon M. Cepriaso, PME Construction	YEAR 2011 Rainier P. Patawi, RMEE Information Technology	YEAR 2009 Dionisio A. Lora, Jr., PME Hotel Engineering	YEAR 2005 Ernesto C. Cala, PME Automatic Energy Management Control System
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Members Awards

Year 2023 Jose Melvin D. Santos, RMEE, AE Most Outstanding Design	Year 2023 Orlan C. Moriones, RMEE, AE Most Outstanding Manufacturing	YEAR 2012 Napoleon M. Cepriaso, PME Most Outstanding Chapter President Int'l	YEAR 2012 Lee I. Bonifacio, RMEE Most Outstanding Chapter Secretary	YEAR 2012 Jemuel B. Esguerra, PME Most Outstanding Committee Chairman	YEAR 2011 Rainier P. Patawi, RMEE Most Outstanding Chapter President Int'l	YEAR 2010 Jeffrey C. Esperanza, RMEE Most Outstanding Committee Chairman
YEAR 2007 Joselito A. Arollano, PME Most Outstanding Chapter President	YEAR 2007 Rainier P. Patawi, RMEE Most Outstanding Member	YEAR 2004 Joso Ma. Emmanuel B. Acebuague, PME Most Outstanding Member	YEAR 2002 Ricardo V. Romero, PME Most Outstanding Committee Chairman	YEAR 2000 Wilfredo R. Ruiz, PME Most Outstanding Chapter President	YEAR 2000 Edwin M. Evasco, PME Most Outstanding Member	YEAR 2000 Pedro D. Entico, PME Most Outstanding Committee Chairman



2024 Chapter Awardees

Presidential Award of Excellence

John Ray O. Madla, PME, AE

Chapter President
Asst. Treasurer, PPO-WRSA
Graphic artist on Souvenir
Programme

Jobert M. De La Rosa, RMEE, AE

Executive Vice President
Board of Director, PPO-WRSA
Chairman, 21st Annual Convention

Noriel J. Nollora, RMEE, AE

Vice President External Affairs
Deputy Chairman, Publication

Orlan C. Moriones, PME, AE

Vice President Internal Affairs
Committee on Advertising and
Solicitation

John-John P. Solam, Meng-ME, RMEE

Chapter Secretary
Events Moderator
Safekeeping of Chapter Files

Oliver O. Salazar, RMEE

Chapter Auditor
Committee on Event's Arrangement

Leonard P. Meriales, RMEE, AE

Chapter Treasurer
Chairman, Committee on Finance
Safekeeping of Chapter Funds

Mark Joseph A. Madolid, RMEE

Membership Director
Updating of Membership Database

Anthony C. Bugayong, PME

Professional Enhancement Director
Board of Director, PPO-WRSA
SPLE Review Sessions Organizer

Gilbert V. Espiritu, RMEE

IT Director
Editor-in-Chief, JPM Quarterly
Newsletter
Deputy Chairman, Publication

Adrian Zeus R. Bituin, RMEE

Sports Director
Chairman, Games & Entertainment
Committee on Raffle, Games &
Amusement

Mark Harold A. Ramirez, RMEE

Press Relations Officer
Committee on Advertising &
Solicitation

Napoleon M. Cepriaso, PME, AE, FPSME

Chapter Adviser
PME Mentorship Program
Photo Coverage of Chapter Events

Aldrin Alizon D. Lango, RMEE, AE, FPSME

Chapter Adviser
Facilitating of SPLE Review Video
Coverage
COMELEC Member

Jose Melvin D. Santos, RMEE, AE

Immediate Past President
Board of Director, PPO-WRSA
COMELEC Chairman

Lee I. Bonifacio, RMEE, AE, MACDDS

Chapter Adviser
COMELEC Member

Julius M. Cañeca, RMEE, RMP

Code of Ethics Director
Committee on Sponsorship
Committee on Entertainment
and Fellowship

Distinguished Service Award

Badroden A. Balindong

Technical Affairs Director

Evwin D. Jaradal, RMEE

Plant Tours Director

Honorary Service Award

Niño Jose A. Lopez

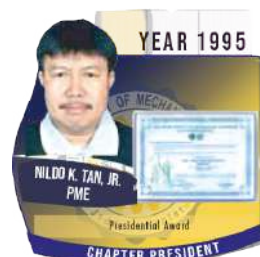
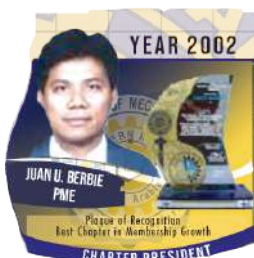
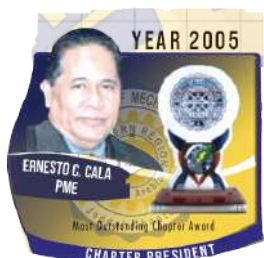
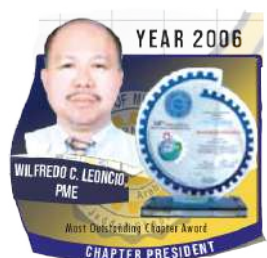
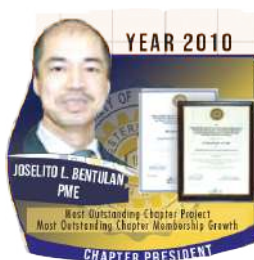
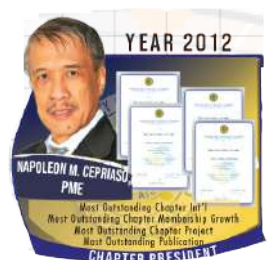
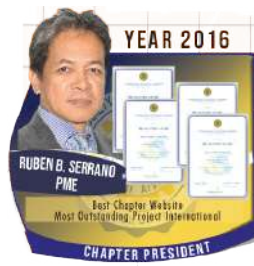
Past President 2022
TOME 2023

Crisostomo C. Ortiz

Past President 2014
TOME 2012
PME Mentor and Adviser



Chapter's Awards and Members Achievements



2024 SPLE Passers



Anthony C. Bugayong
Professional Mechanical Engineer



John Ray O. Madla
Professional Mechanical Engineer



Orlan C. Moriones
Professional Mechanical Engineer



Oliver E. Policarpio
Registered Mechanical Engineer



Carlo M. Esquivel
Registered Master Plumber



Mark Joseph A. Madolid
Registered Master Plumber



20th Annual Convention



The PSME Western Region Saudi Arabia Jeddah Chapter successfully hosted its 20th Annual Convention and General Membership Meeting on December 8, 2023, at the Jiwara Diamond Hotel in Jeddah.

The day-long event was packed with insightful presentations and inspiring speeches. The technical experts from the chapter, yours truly, Engr. John Ray O. Madla, shared my expertise on relevant industry topics. I discussed the “Hazards associated with medical gas systems maintainability in hospital: A design optimization method” which is also included in my PME technical engineering report.

The event was further enriched by the online participation of Engr. Loreto G. Catalan, the 2023 PSME National President. His dedication, innovative spirit, and commitment to serving the PSME community continue to inspire the chapter’s members and board. Additionally, Engr. Melanie P. Banayos, the 2022 PSME National President and President Elect Engr. Jeremy Aguinia, delivered their motivational speech. Engr. Bernardo A. Allayban, the 2023 PPO WRSA president, delivered an inspirational speech that uplifted the audience.

The 20th Annual Convention was honored by the presence of Hon. Jules Patrick Aguila, Vice Consul of the Philippine Consulate General in Jeddah. As the guest of honor, he not only graced the occasion but also charged the newly elected PSME WRSA JC 2024 officers, setting the stage for a promising year ahead.

by: Engr. John Ray O. Madla





Life Members





Regular Members



Francis A. Eucapor



Maria May M. Atole



Julius M. Cañeca



Napoleon M. Castañeda



Willyn D. Espino



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Oliver O. Salazar



Gerry E. Abellana



Lee I. Bonifacio



Edynil G. Celso



Raffy A. Gange



Ronald G. Gultiano



Niño Jose A. Lopez



John Ray O. Madla



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José Melvin D. Santos



Antonio Jr. M. Bernardo



Melchor B. Campo



Sherwin D. Fransico



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John Wesley R. Ang



Anthony C. Bugayong



Wilfredo G. Alingod JR.



Adrian Zeus R. Bituin



Eduardo M. Martinez



Jeheil Mark C. Arsenal



Mario Agerio C. Alberca



Leovigildo N. Ferrer Jr.



Joel N. Cadiang



Arvin B. Quitasol



Harold D. Pascua



Carlo M. Esquivel



John Paul A. Garcia



Alex I. Tam



Tammy Daclan



Robenar D. Cataylo



Joel S. Melor



Ryan T. Paguigan



Ramil B. De Mayo

Associate Members



President's Annual Report

Greetings Everyone,

I am pleased to present our Annual Report for 2024, a year marked by significant achievements for our Chapter. As we approach the end of this eventful year, let's reflect on our key accomplishments:

Key Highlights of 2024:

Kick-off and Planning: To commence the year, we held a Board of Trustees meeting last January 4, 2024 at Wego Chinese and Sushi Restaurant. The first half of the meeting was dedicated to the official turnover ceremony, where the 2023 Executive Board handed over the reins to the incoming 2023 Executive Board. In the second half, I presented the Annual Plan of Activities for 2024. This comprehensive plan included a variety of initiatives, such as sponsored technical seminars, plant tours, sports activities, SPLE reviews and exams, newsletter publications, and chapter conventions.

SPLE Review Programs: To kick off the year, we initiated our SPLE 2024 Review Sessions for RMEE and RMP on first week of January. Every Friday morning, we conducted hybrid lectures covering Machine Design, Power and Industrial Plant Engineering, Mathematics, Plumbing Code, and Sanitation Design & Installation. Additionally, we held objective-type review sessions on Saturday nights to reinforce key concepts. To ensure maximum accessibility, we shared video recordings of all lectures and presentations with the reviewees. This year we have three passers from their category:

- Engr. Oliver E. Policarpiio, RMEE
- Mr. Carlo M. Esquivel, RMP
- Engr. Mark Harold A. Ramirez, RMP

1st Technical Webinar: March 29, 2024, Our chapter conducted our first webinar, Engr. Anthony Bugayong discussed the guidelines on the principles of Engineering, Procurement, and Construction Management (EPCM) project execution, and valuable insights that will be gained in the following key areas of Project Lifecycle Stages:

- Initiation: Understanding the project's objectives, scope, and feasibility.
- Planning: Developing detailed project plans, schedules, and budgets.
- Execution: Managing engineering, procurement, and construction activities.
- Monitoring and Control: Tracking project progress, identifying risks, and implementing corrective actions.
- Closure: Completing the project, evaluating performance, and conducting lessons learned.

Sports and Social Events: The PSME-WRSA JC marked another milestone on May 24, 2024, by organizing an annual bowling mini-tournament at Jeddah Lanes bowling center. The event provided an excellent opportunity for PSME members, their families, and friends to strengthen bonds and engage in friendly competition. As the chapter continues to grow, it remains committed to promoting professional development, personal well-being, and a strong sense of community.

Midyear Convention and General Membership Meeting: On July 26, 2024, VPI Orlan Moriones, the Chairman of the 2024 Mid-Year Convention and General Membership Meeting, presided over the event and, held at the Emerald Hotel. The convention featured two technical seminars, each accredited with 3 CPD points. Engr. Anthony C. Bugayong presented on "Full Turnkey of Oil and Gas Projects" while Engr. Basik Tulawie Sappayan discussed "Data Center Structure & Implementation". The event was further enhanced by virtual keynote and inspirational speeches from PSME National President Engr. Jeremy T. Agueina. Mr. Willie Araza, CPA, President of the PPO-WRSA, graced the occasion as the Guest of Honor.

Professional Development: During the Midyear Convention and General Membership Meeting, our Past



President Engr. Napoleon M. Cepriaso delivered a presentation on "Primer: How to Become a PME," inspiring members to pursue advanced professional certifications. Coincidentally, during the event, the Professional Regulatory Commission announced the latest batch of PME passers. We are delighted to share that three of our members from the PSME WRSA JC were among the successful examinees.

- Engr Anthony C. Bugayong
- Engr. Orlan C. Moriones
- Engr. John Ray O. Madla

2nd General Membership Meeting and Elections: On September 8, Chairman Engr. Mark Harold A. Ramirez presided over the 2nd General Membership Meeting and Election of 2025 Officers at Emerald Hotel, Jeddah. The event featured a virtual keynote speech by PSME VPME Engr. Ronnie D. Malignat and a technical seminar on "Energy Audits and Energy Efficiency" by Engr. Leovigildo N. Ferrer. The second half of the GMM included the election of the 2024 Board of Directors, preceded by an inspirational message from PPO-WRSA President Mr. Willie Araza, CPA. COMELEC, led by Chairman Jose Melvin D. Santos, conducted the election, with a total of 15 directors elected. Subsequently, the newly elected board convened to choose their executive officers and directors. Engr. Orlan C. Moriones was elected as Chapter President for 2025. While the rest of the officers & directors are as follows: EVP – Jobert M. De La Rosa; VPI – Julius M. Cañeca; VPE – Noriel J. Nollora; Secretary – John-John P. Solam; Treasurer – Adrian Zeus R. Bituin; Auditor – Oliver O. Salazar; PRO – Anthony C. Bugayong; Membership – Mark Joseph A. Madolid; Technical Affairs – Joel N. Cadiang; Professional Enhancement – Mark Harold A. Ramirez; Sport Director – Dexter R. Lacson; Code of Ethics – Gilbert V. Espiritu; Information Technology – Leonard P. Meriales; and Plant Tours – Alex I. Tam.

PPO WRSA : Our Chapter is actively involved in both national and international professional activities. We are a member of the Philippine Professional Organization - Western Region Saudi Arabia (PPO-WRSA), a coalition of 13 organizations dedicated to supporting Filipino professionals in Saudi Arabia. I currently serve as the Assistant Treasurer of our Chapter, and we have three representatives on the PPO-WRSA Board of Directors: PP Jose Melvin D. Santos, PED Anthony C. Bugayong, and EVP Jobert M. De La Rosa.

A key objective of PPO-WRSA is to assist Filipino Overseas Workers (OFWs) in obtaining their professional licenses through the Special Professional Licensure Examination (SPLE). We actively supported the recent SPLE week by helping PRC Delegates secure examination venues and assisting examinees during registration and the actual exams from June 16 to 18.

In September 20, 2024, PPO-WRSA organized a Coastal Clean-Up Drive, at Buhairat Open Beach. Our Chapter also participated in a 1st invitational Bowling Tournament at Bowling City, Sultana Center last November 1, 2024, both events coordinated with the Philippine Consulate General Jeddah.

To celebrate our Chapter's successful year and welcome the incoming 2025 Executive Officers and Directors, our Chairman EVP Jobert M. De La Rosa led the preparation of our 21st Annual Convention through coordination meetings, brainstorming sessions, and strategic planning. The convention's theme, "Enhancing Competence for Global Recognition," honors our 30-year milestone and emphasizes our responsibility to encourage and promote professional enhancement of our supreme members and future generations. In alignment with PSME's National theme of "Unity and Prosperity," we commit to continuing this advocacy in the years to come. MABUHAY ang PSME WRSA JC!

Thank you and God bless,

Engr. John Ray O. Madla
PME, ACPE, AE, RMP
2024 Chapter President



2024 Chapter's Activities



Kick-Off Meeting on January 4th, 2024



SPLE Kick-Off Meeting



1st Technical Seminar on March 29, 2024



PME Workshop and thanksgiving of PME passers



May 24, 2024 PSME WRSA JC Bowling Tournament



July 26, 2024 Midyear Convention & GMM



September 20, 2024 Coastal Clean Up drive w/ PPO WRSA



September 27, 2024 2nd GMM and Election



Kick-Off Meeting and Planning

Our year begun with a Kick-Off Meeting last January 4, 2024, held at Wego Chinese and Sushi Restaurant. The first part of the meeting was dedicated to the official turnover ceremony, where the 2023 Executive Officers and Directors handed over their responsibilities to the incoming 2024 team. In the second half, I presented the 2024 Annual Plan of Activities, outlining a comprehensive program of technical seminars, plant tours, sports activities, professional license exams, newsletter publications, chapter conventions, and other initiatives.

by: John Ray O. Madla



Program of Activities for Fiscal Year 2024 Preparation of event

Item	Activities	1st Quarter			2nd Quarter			3rd Quarter			4th Quarter		
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Kick-Off Meeting (in-person)												
2	Regular Board Meetings												
3	Thanksgiving												
4	SPLE Review Program												
5	Technical Seminar 1: Project Management												
6	PME & ACPE Writeshop												
7	Plant Tours												
8	Sports Activities												
9	Community Services												
10	Mid-Year Convention and GMM												
11	Technical Seminar 2												
12	Jeddah Prime Movers Newsletter												
13	Review of CBL (Ratification if necessary)												
14	Website Update												
15	Election of 2025 BOD and GMM												
16	Technical Seminar 3												
17	15th MERC												
18	72nd NatCon-PSME National)												
19	21st Annual Convention Preparation (PSME National)												





2024 SPLE Review Sessions

The review process for this year initiated in the first week of January 2024 and was finalized in the first week of May. This review period concluded prior to the scheduled SPLE on June 16, 17, and 18. Simultaneously, the PME interview was held in Qatar.

The Review instructor were:

Engr. John Ray O. Madla for General Mathematics
 Engr. Anthony C. Bugayong for Power and Industrial Plant.
 Engr. Jose Melvin D. Santos for Machine Design
 Engr. Leonard P. Meriales for RMP Sanitary and Plumbing
 Engr. Orlan C. Moriones for RMP Practical Problems
 Engr. Francisco Eucapora for RMP Math Problems

The review sessions were attended by members, associates, and individuals from various disciplines, underscoring PSME WRSA JC's dedication to serving the entire community. The process was culminated in pre-board examinations based on previously assigned problems.

By: Engr. Anthony C. Bugayong, PME
 Professional Enhancement Director





2024 Sports Activities



by: Engr. Adrian Zeus R. Bituin, RMEE
PSME WRSA JC
Sports Director

On May 24, 2024, the Philippine Society of Mechanical Engineer Western Region Jeddah Chapter achieved another milestone by organizing an annual sports event, a bowling mini-tournament, at Jeddah Lanes bowling center, Musadiyah Plaza.



During the elimination matches, all participants gave their best effort, but only Team A and Team B emerged as the finalists, leading with total team scores of 359 and 411, respectively. Team A was declared the champion after defeating Team B in the final round with a total team score of 477 points against 402 points. Champions, finalists, and the Most Valuable Player (MVP) were awarded at the end of the match, facilitated by Engr. Adrian Zeus Bituin.



The event was emceed by Engr. John-John Solam and commenced with an opening and inspirational remark by Engr. Jose Melvin Santos. The participants were divided into 4 teams, each consisting of 4 members.



The event was a success, fostering team building and group bonding among PSME members, families, and friends. PSME-WRSA JC is looking forward to continued support, collective victories, and growth in sports activities, professions, and life enhancement. Our success is built on our unity.



Special Professional Licensure Examination 2024

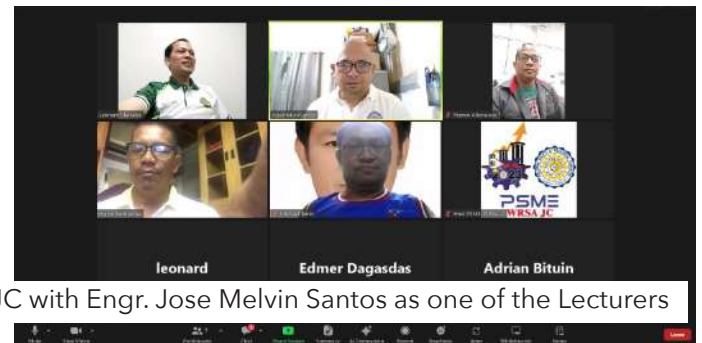


SPLE Kick-Off Meeting at PSME WRSA-JC Head Quarters

Kick-off meeting was held before review starts, play a vital role in setting the stage for success. Crucial platform to align expectations, clarify doubts, and motivate reviewees for the 2024 SPLE.



SPLE Online Review Session Conducted By PSME WRSA JC with Engr. Jose Melvin Santos as one of the Lecturers



Pre-Board Examination for our RMEE and RMP aspirants

A pre-board examination is a crucial step in the journey towards professional licensure. It is designed to assess your knowledge and skills in preparing you for the actual board exam.



Day 1 and Day 2 of SPLE 2024 Registration



2024 SPLE Passers



Successful SPLE 2024 Passers

This year we're happy to announce the passers of the SPLE 2024. The best feeling of accomplishment after overcoming hurdles and hard work. Sharing the joy with family, friends, and mentors.

by: **Engr. Anthony C. Bugayong**, PME
PSME WRSA JC
Professional Enhancement Director



2024 Mid-Year Convention & GMM



PHILIPPINE SOCIETY OF MECHANICAL ENGINEERS
WESTERN REGION SAUDI ARABIA JEDDAH CHAPTER
 CHARTERED 1995
 MOST OUTSTANDING CHAPTER: 2005, 2006, 2007, 2011, 2012, 2013 & 2023

2024 MID-YEAR CONVENTION & GENERAL MEMBERSHIP MEETING

With approved 3 CPD Units

KEYNOTE SPEAKER	GUEST SPEAKER	GUEST OF HONOR	TECHNICAL SPEAKER #1	TECHNICAL SPEAKER #2

EMERALD HOTEL, JEDDAH | 26 JULY 2024 | 8:30 AM-4:30 PM

Engr. Orlan Moriones 0539050986
 Engr. John Ray Madia 0536695488

SCAN TO REGISTER

The PSME-WRSA JC 2024 Mid-Year Convention, was held at Emerald Hotel, it was a successful event organized by the 2024 Board of Trustees. Despite the absence of external sponsors, the team's dedication ensured a smooth and professional execution.

The convention featured two technical presentations:

1. Oil & Gas Full Turnkey Project Execution by Engr. Anthony Bugayong, PME.
2. Data Center Structure & Implementation by Engr. Basik Tulawie Sappayani.

Engr. Jeremy Aguineta, the PSME National President, delivered the keynote speech via Zoom, while Mr. Wilfredo M. Araza, the President of PPO-WRSA, graced the event as the Guest of Honor.

A "Primer on how to become a PME" seminar was presented by Engr. Napoleon Cepriaso, PME, providing information on becoming a Professional Mechanical Engineer. The event was concluded with a raffle draw, offering the ticket holders a chance to win prizes.



Engr. Anthony during his presentation on "Oil & Gas Full Turnkey Project Execution"

by: Engr. Orlan C. Morines, PME
 Mid-Year Convention Chairman



Oath taking of new members



PP Engr. Napoleon on "How to become a PME"





2024 PME Journey



Guided by our PME mentors, Engr. Noriel Nollora, Engr. Leo Ferrer, and Engr. Leonard Meriales represented us in the first interview. For the second interview, we were represented by Engr. John Ray Madla, Engr. Orlan Moriones, and Engr. Anthony Bugayong.

The journey was a rollercoaster of emotions, filled with excitement, stress, and nervousness. We poured countless hours into preparing technical engineering reports and gathering extensive documentation. The challenges were compounded

by the need to secure reservations and travel to Doha, Qatar, which is 952 miles from Jeddah, Saudi Arabia. Our resilient member, Engr. Leo, even traveled from the UK, a distance of 948 miles.

Despite these hurdles, the interview results were positive. We had the privilege of sharing a special dinner with the Board of Mechanical Engineering. Fortunately, all three candidates from the second interview successfully passed the evaluation. We eagerly await the schedule for the next interview, which will be held in Al Khobar, Saudi Arabia.





2nd GMM and Election of 2024 BOT

As the famous quote says "Every end is a new beginning" As the Year is at the 3rd quarter it is almost time the 2024 Board of Trustees finishes their term, the chapters need members ready to serve. PSME WRSA JC conducted its 2nd General Membership Meeting and 2025 Board of Trustees Elections last September 27, 2024, at Emerald Hotel in Jeddah Saudi Arabia.

The Meeting started at 8:30 AM with 23 members attending of 55 that currently in Jeddah, Saudi Arabia at the time the Meeting is conducted. With more than 30 percent that is currently available in Jeddah at the time, quorum is achieve making the meeting possible.

The meeting consists of 2 Technical seminar and 1 Guest speaker and with Engineer Archelle B. Baculi and Engineer Ronnie D. Malignat giving an inspirational and motivational keynote message via zoom.

The first technical presentation topic on "A Brief Study on Wave Energy: Its opportunities and Challenges" by our past president Engineer Napoleon Cepriaso and the second technical presentation topic on "ENERGY AUDITS & ENERGY EFFICIENCY" by Engineer Leovigildo Ferrer Jr. who is one of our new members. As Overseas Filipino Workers living and working outside the Philippines it is really a very helpful and informative presentation by our Guest speaker Mr. Michael Ingal which answers the question How, What, when and where the concerning Social Security System or in short SSS.

As the 2nd General Membership ends, the Election of 2025 Board starts, which was presided by the Comelec consisting of the Chairman, IPP Engr. Jose Melvin D. Santos and 2 members respectively PP Engr. Aldrin Alizon D. Lango and PP Engr. Lee I. Bonifacio. With the newly Elected Board of Trustees for the year 2025 the meeting ends successfully.

by: Engr. Mark Joseph A. Madolid, RMEE, RMP
Membership Director





**PSME
WRSA-JC**
Chartered 1995
Most Outstanding Chapter
2005, 2006, 2007, 2011, 2012, 2013, and 2023

**2ND GENERAL MEMBERSHIP
MEETING AND ELECTION OF 2025
OFFICERS**

 KEYNOTE SPEAKER Ronnie Diaz Malignat, PSME Vice President Middle East	 GUEST SPEAKER Michael Ingol SSS Representative WRSA KSA	 TECHNICAL SPEAKER Leovigildo N. Ferrer Jr., ME "Energy Audits and Energy Efficiency"
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EMERALD HOTEL, JEDDAH | SEPTEMBER 27, 2024 | 8:30 AM TO 3:30 PM

Engr. John Ray O. Madrid - 0556605488
Engr. Carlos C. Mastones - 0539050266
Engr. Mark Joseph A. Madrid -

PSME WRSA JC x 30: Working Towards Economic Stability While Protecting the Environment





Coastal Clean Up Drive with PPO-WRSA & PCG Jeddah

By: Jose Melvin D. Santos

Last September 20, 2024, PSME-WRSA Jeddah Chapter actively participated in the PPO-WRSA and Philippine Consulate General Jeddah Coastal Cleanup Drive in an Open Beach, Buhairat. It was in celebration of the Maritime and Archipelagic Nation Awareness Month (MANA MO).

We assembled in front of the Bora Café and Golden Bakery together with the other member organization of the PPO-WRSA until 6:00am then we headed to the venue, where we meet up the representatives of the Philippine Consulate General Jeddah and members of the PPO-WRSA.

We had a short program hosted by the lead committee IECEP-KSA. We received keynote speeches from our PCG Jeddah Acting Head of Post Consul Alfred Kristoffer Guiang and PPO-WRSA President Wilfredo Araza as they acknowledge all the participating organizations and individuals. Then we started dispersing to collect the debris that were scattered along the coastline. All collected plastic bottles, wrappers, trash, etc. were kept in black trash bags and placed in the designated Garbage area.

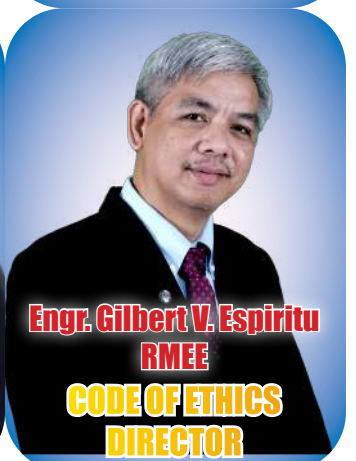
After clean up, we gathered again for the conclusion of the program. There were food and drinks that we shared and ate while we listened to the messages of gratitude from PPO-WRSA & PCG Jeddah to all the participating organizations. We all had a great time while realizing our roles and responsibilities to protect our environment. We look forward to participating in future events that promote Environment Conservation.

Truth to our theme "PSME-WRSA JC@30 Working Towards Economic Stability while Protecting the Environment.





2025 Board of Trustees





Sleepless Nights - Preparation for 21st Annual Convention & GMM





“PSME WRSA JC Philippines”



On November 30, 2024, a gathering of past presidents and leaders took place at the residence of PP Ruben Serrano in the Philippines. The event kicked off with opening remarks by PP Ruben, followed by a sharing session where attendees discussed their current lives and professional endeavors.

During a lunch break, the group explored potential career collaborations among PSME WRSA members. The afternoon continued with storytelling, fellowship, and discussions about future events like this one. As the day concluded, attendees bid farewell to their fellow PSME WRSA comrades with cheerful spirits.





PHOTO SOLUTIONS, ETC.

Photo Services, and Vintage Camera Collection and Exchange



Congratulations PSME-WRSA Jeddah Chapter on its 21st Annual Convention



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**Congratulations PSME WRSA
Jeddah Chapter on your 21st Annual
Convention and General Membership
Meeting
from: Engr. John Ray Madla & Family**



**Congratulations PSME WRSA
Jeddah Chapter on your 21st Annual
Convention and General Membership
Meeting
from: Engr. Mark Joseph A. Madolid
& Family**





PROPRIETOR : ENGR. ORLAN C. MORIONES
PME, ASEAN ENGR, RMP



CONGRATULATION PSME-WRSA JEDDAH CHAPTER ON
YOUR 21st ANNUAL CONVENTION AND
GENERAL MEMBERSHIP CONFERENCE!!!

ISAIAH ENGINEERING SERVICES



**Congratulations PSME WRSA
Jeddah Chapter on your 21st
Annual Convention and General
Membership Meeting
from: Engr. Mark Harold A. Ramirez
& Family**



**Congratulations PSME WRSA Jeddah Chapter
on your 21st Annual Convention and General
Membership Meeting
from: Engr. Jobert M. De La Rosa & Family**

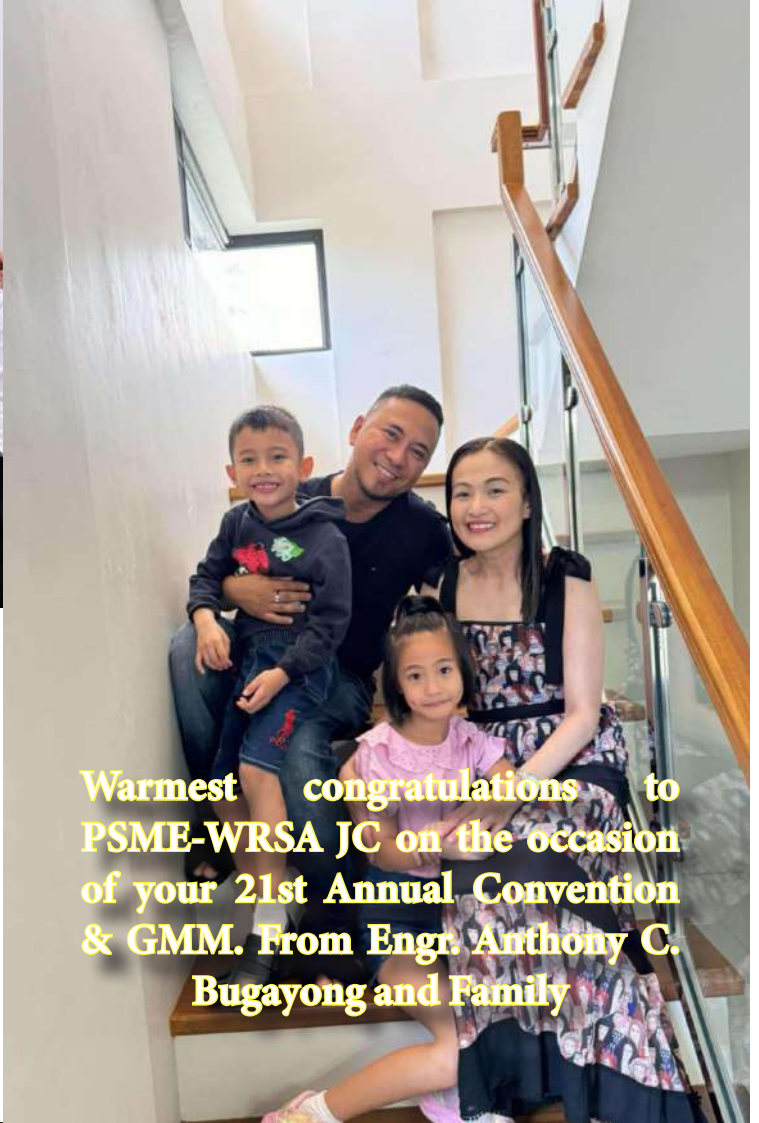


**Congratulations PSME WRSA
Jeddah Chapter on your 21st
Annual Convention and General
Membership Meeting
from: Engr. Julius M Cañeca &
Family**





**Congratulations PSME-WRSA JC
on its 21st Annual Convention !!!
From Bonifacio and Agbing
Family**



**Warmest congratulations to
PSME-WRSA JC on the occasion
of your 21st Annual Convention
& GMM. From Engr. Anthony C.
Bugayong and Family**



**Congratulations PSME WRSA Jeddah
Chapter on your 21st Annual Convention
and General Membership Meeting
from: Engr. Julius M Cañeca & Family**



**Congratulations PSME-WRSA JC
on its 21st Annual Convention**



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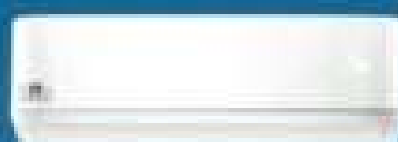
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