



PSME-WRSA

PHILIPPINE SOCIETY OF MECHANICAL ENGINEERS
WESTERN REGION SAUDI ARABIA - JEDDAH CHAPTER

<https://psme-wrsa.com>



25 YEARS OF
COMMITTED
SERVICE

CHARTERED 1995
MOST OUTSTANDING CHAPTER
2005, 2006, 2007, 2011, 2012, and 2013

17TH ANNUAL CONFERENCE

1ST VIRTUAL ANNUAL CONFERENCE - DECEMBER 4, 2020



**Building Robust & Resilient
PSME WRSA JC
in Response to
Extreme Global Challenge**

MEMBER



Universal Coil Group of Companies



Our Vision
"To become the Leading Provider of Cooling/Heating services across all Industries"

Our Mission
"To provide our customers with Cost Effective and Fast solutions locally using the latest technology"

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ISO 90001:2015

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Fabrication Shop for Heat Exchangers



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PROGRAM OF ACTIVITIES



PHILIPPINE SOCIETY OF MECHANICAL ENGINEERS

MORNING SESSION

Time	Duration		
8:30 - 9:00	0:30:00	Registration and Acknowledgment of Participants	BLIVEN U. GARCIA, RMEE / JOHN RAY O. MADLA, RMEE NIÑO JOSE A. LOPEZ, RMEE Zoom Master
9:01 - 9:04	0:03:00	PSME Prayer & Muslim Prayer	Zoom Master
9:05 - 9:08	0:03:00	Philippine National Anthem	Zoom Master
9:09 - 9:12	0:03:00	Saudi National Anthem	Moderator
9:13 - 9:16	0:03:00	Presentation of House Rules	ROSELLER A. JUNSAY JR., RMEE
9:17 - 9:19	0:02:00	OPENING OF 17TH VIRTUAL ANNUAL CONFERENCE	ALDRIN ALIZON D. LANGO, RMEE
9:20 - 9:24	0:04:00	WELCOME ADDRESS	
9:25 - 9:40	0:15:00	KEYNOTE SPEAKER Introduction of Speaker Speaker	
9:41 - 9:56	0:15:00	Awarding of Plaque of Appreciation INSPIRATIONAL MESSAGE Introduction of Speaker Speaker	JOBERT M. DE LA ROSA, RMEE HON. LEANDRO A. CONTI Chairman, Board of Mechanical Engineering NIÑO JOSE A. LOPEZ, RMEE
9:57 - 10:27	0:30:00	Awarding of Plaque of Appreciation SPONSOR PRESENTATION Introduction of Speaker Speaker	JOSE MELVIN D. SANTOS, RMEE JEFFREY F. SINGSON, PhD, PME, CFSP, ASEAN Engr. PSME National President NIÑO JOSE A. LOPEZ, RMEE
10:28 - 11:28	1:00:00	Question & Answer Awarding of Plaque of Appreciation TECHNICAL PRESENTATION 1 Introduction of Speaker Technical Speaker "Lock Out, Tag Out Procedure" Question & Answer Awarding of Plaque of Appreciation Photo Op	JOHN RAY O. MADLA, RMEE ENGR. SAMIH SYED Project Manager, Universal Coils MODERATOR NIÑO JOSE A. LOPEZ, RMEE
11:29 - 11:31	0:02:00	Photo Op	MARIA MAY M. ATOLE, RMEE, RMP MR. RODELIO T. VIADO CEO/President, RODECH Training Services Int'l. MODERATOR
11:32 - 11:47	0:15:00	Tribute to PP Jaime L. Leviste, RMEE Presentation of Posthumous Award Raffle Draws	NIÑO JOSE A. LOPEZ, RMEE Zoom Master Zoom Master ALDRIN ALIZON D. LANGO, RMEE JULIUS M. CANECA, RMEE
11:48 - 11:54	0:06:00		
AFTERNOON SESSION			
11:55 - 12:40	0:45:00	KUMUSTAHAN (Prayer Time & Lunch Break)	
12:41 - 14:11	1:30:00	TECHNICAL PRESENTATION 2 Introduction of Speaker Technical Speaker "Boiler Maintenance and Safety Procedure" Question & Answer Awarding of Plaque of Appreciation GENERAL MEMBERSHIP MEETING Call to Order Declaration of Quorum PSME Creed PSME Core Values PRESIDENT'S REPORT OFFICERS AND BOARD OF DIRECTORS REPORT INSPIRATIONAL MESSAGE Introduction of Speaker Speaker	OLIVER O. SALAZAR, RMEE CRISOSTOMO C. ORTIZ, PME Member, Council of Past Presidents MODERATOR JOSE MELVIN D. SANTOS, RMEE
14:12 - 14:13	0:01:00	Call to Order	ALDRIN ALIZON D. LANGO, RMEE
14:14 - 14:15	0:01:00	Declaration of Quorum	ALDRIN ALIZON D. LANGO, RMEE
14:16 - 14:18	0:02:00	PSME Creed	Zoom Master
14:19 - 14:23	0:04:00	PSME Core Values	Zoom Master
14:24 - 14:34	0:10:00	PRESIDENT'S REPORT	ALDRIN ALIZON D. LANGO, RMEE
14:35 - 14:50	0:15:00	OFFICERS AND BOARD OF DIRECTORS REPORT	OFFICERS AND BOARD OF DIRECTORS
14:51 - 15:06	0:15:00	INSPIRATIONAL MESSAGE Introduction of Speaker Speaker	ORLAN C. MORIONES, RMEE DR. EDUARDO P. MALAGAPO, Ph.D.D.A., Ph.D.B.M., Ph.D.Eng'g., D.M.E.M., D.M.HRM, PME, FPSME, DrFRIM, FRIdRE Vice President Foreign Affairs, PSME National JOSE MELVIN D. SANTOS, RMEE
15:07 - 15:22	0:15:00	Awarding of Plaque of Appreciation GUEST OF HONOR AND SPEAKER Introduction of Speaker Message of the Guest of Honor & Speaker	ROSELLER A. JUNSAY JR., RMEE CONSUL MARY JENNIFER D. DINGAL CONSUL - PHILIPPINE CONSULATE JEDDAH JOSE MELVIN D. SANTOS, RMEE CRISOSTOMO C. ORTIZ, PME Member, Council of Past Presidents NAPOLEON M. CEPRIASO, PME, FPSME Member, Council of Past Presidents
15:23 - 15:33	0:10:00	Awarding of Plaque of Appreciation PRESENTATION OF 2020 OFFICERS AND DISCHARGING FROM OFFICE	
15:34 - 15:44	0:10:00	PRESENTATION AND CHARGING TO OFFICE OF 2021 OFFICERS AND DIRECTORS / INDUCTION OF 2021 OFFICERS AND DIRECTORS	
15:45 - 15:48	0:03:00	Message of 2021 Chapter President	LEE I. BONIFACIO, RMEE, MACDDS, AE
15:49 - 15:59	0:10:00	Induction of New Members	JOHN RAY O. MADLA, RMEE
16:00 - 16:05	0:05:00	Open Forum and Announcements	
16:06 - 16:16	0:10:00	Presentation of Awards	JOHN RAY O. MADLA, RMEE
16:17 - 16:27	0:10:00	Raffle Draws	JULIUS M. CANECA, RMEE
16:28 - 16:31	0:03:00	Closing Remarks	LORENZO O. GAVIOLA, RMEE
16:32 - 16:34	0:02:00	Photo Op	Zoom Master

MODERATOR: LEE I. BONIFACIO, RMEE, MACDDS, AE / ZOOM MASTER: BLIVEN U. GARCIA, RMEE



2020 EXECUTIVE OFFICERS AND BOARD OF DIRECTORS PHILIPPINE SOCIETY OF MECHANICAL ENGINEERS



ALDRIN ALIZON D. LANGO, RME
CHAPTER PRESIDENT



LORENZO O. GAVIOLA, RME
EXECUTIVE VICE PRESIDENT



ROSELLER A. JUNSAY JR., RME
VP INTERNAL AFFAIRS



NIÑO JOSE A. LOPEZ, RME
VP EXTERNAL AFFAIRS



JOSE MELVIN D. SANTOS, RME
SECRETARY



ROBERT M. DE LA ROSA, RME
TREASURER



WILLYN D. ESPINO, RME, AE
AUDITOR



MILLER F. NARVAS, RME
PUBLIC RELATION
OFFICER



JOHN RAY O. MADLA, RME
MEMBERSHIP
DIRECTOR



LEE I. BONIFACIO, RME, MA, AE
TECHNICAL AFFAIRS
DIRECTOR



OLIVER O. SALAZAR, RME
PROFESSIONAL
ENHANCEMENT DIRECTOR



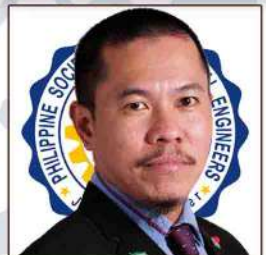
BLIVEN U. GARCIA, RME
INFORMATION TECHNOLOGY
DIRECTOR



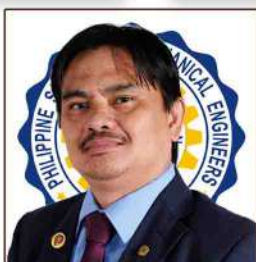
MARIA MAY M. ATOLE, RME
CODE OF ETHICS
DIRECTOR



ORLAN C. MORIONES, RME
PLANT TOUR DIRECTOR



JULIUS M. CAÑECA, RME
SPORTS DIRECTOR



ALDRIN ALIZON D. LANGO, RME
IMMEDIATE PAST PRESIDENT



"Building robust and resilient PSME-WRSA JC in response to extreme global challenge"



COUNCIL OF PAST PRESIDENTS



PHILIPPINE SOCIETY OF MECHANICAL ENGINEERS

Western Region - Saudi Arabia

Jeddah Chapter

Chartered 1995



Aldrin Alizon D. Lango, ME



Gemuel B. Esguerra, PME



Elmer B. Quanico, ME



Ruben B. Serrano, PME



Ruben B. Serrano, PME



Crisostomo C. Ortiz, PME



Jaime Leviste, ME



Napoleon M. Cepriaso, PME



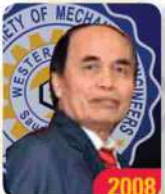
Ranier P. Patawi, ME



Joselito L. Bentulan, PME



Julio D. Caringal, PME



Froilan G. Miro, PME



Joselito A. Arellano, PME



Wilfredo C. Lencio, PME



Ernesto C. Cala, PME



Wilfredo R. Ruiz, PME



Orlando L. Digma, PME



Juan U. Berbie, PME



Dionisio A. Lora Jr., PME



Wilfredo R. Ruiz, PME



Filemon E. Agulo, PME



Danilo V. Gercio, PME



Rene C. Bernales, PME



Rene Y. Logarta, ME



Ruben M. Parpan, ME



Nildo K. Tan Jr., FPME
Charter President

Mission Statement

Maintain integrity of the Mechanical Engineering profession.
Promote excellence in the practice of the 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.



PSME NATIONAL AWARDEES HALL OF FAME



PHILIPPINE SOCIETY OF MECHANICAL ENGINEERS



Year 2018
Elmer B. Quanico, ME
Category: Housing
Refrigerating Appliances



Year 2018
Aldrin Alizon D. Lango, ME
Category: Advance Cooling
System Engineering



Year 2017
Ruben B. Serrano, PME
Category: Tool Engineering



Year 2016
Jaime L. Leviste, ME
Category: Biomedical Engineering



Year 2012
Ace Glenn Garcia, ME
Category: Consultancy



Year 2012
Roel Alfon G. Banawis, ME
Category: Design



Year 2012
Crisostomo C. Ortiz, PME
Category: Community Service



Year 2012
Joselito L. Bentulan, PME
Category: Manufacturing



Year 2011
Napoleon M. Cepriaso, PME
Category: Construction



Year 2011
Rainier P. Patawi, ME
Category: Information Technology



Year 2009
Dionisio A. Lora, PME
Category: Hotel Engineering



Year 2005
Esnesto C. Cala, PME
Category: Automatic Energy
Management Control System



Year 2003
Julio D. Caringal, PME
Category: Automation
and Controls



Year 2003
Wilfredo R. Ruiz, PME
Category: Automation
and Controls



Year 2002
Napoleon M. Cepriaso, PME
Category: Environmental
Engineering



Year 2000
Filemon E. Agulo, PME
Category: Consultancy

MEMBERS' AWARDS

YEAR 2012
Napoleon M. Cepriaso, PME
Most Outstanding
Chapter President Int'l

YEAR 2012
Wilfredo R. Ruiz, PME
Fellow Award

YEAR 2017
Wilfredo R. Ruiz, PME
Fellow Award

YEAR 2016
Napoleon M. Cepriaso, PME
Fellow Award

YEAR 2011
Nildo K. Tan Jr., FPSME, PME
Fellow Award

YEAR 2011
Rainier P. Patawi, ME
Most Outstanding Chapter
President Int'l

YEAR 2012
Lee I. Bonifacio, ME
Most Outstanding
Chapter Secretary

YEAR 2012
Jemuel B. Esguerra, PME
Most Outstanding
Committee Chairman

YEAR 2004
Jose Ma. Emmanuel B.
Acebuque, PME
Most Outstanding Member

YEAR 2007
Joselito A. Arellano, PME
Most Outstanding
Chapter President

YEAR 2007
Rainier P. Patawi, ME
Most Outstanding
Member

YEAR 2010
Jeffrey C. Esperanza, ME
Most Outstanding
Committee Chairman

YEAR 2000
Wilfredo R. Ruiz, PME
Most Outstanding
Chapter President

YEAR 2000
Pedro D. Entico, PME
Most Outstanding
Committee Chairman

YEAR 2000
Edwin M. Evasco, PME
Most Outstanding
Member

YEAR 2002
Ricardo V. Romero, PME
Most Outstanding
Committee Chairman



PSME CHAPTER'S AWARDS & MEMBERS' ACHIEVEMENTS

PHILIPPINE SOCIETY OF MECHANICAL ENGINEERS




Year 2018



Jemuel B. Esquerra, PME
Chapter President

Plaque of Merit Best Chapter Publication Nominee
Plaque of Merit Best Chapter Website Nominee

Year 2016



Ruben B. Serrano, PME
Chapter President

Best Chapter Website
Most Outstanding Project International

Year 2013



Jaime L. Leviste, ME
Chapter President

Most Outstanding Chapter Int'l
Most Outstanding Membership Growth
Most Outstanding Chapter Project
Most Outstanding Publication

Year 2012



Napoleon M. Cepriaso, PME
Chapter President

Most Outstanding Chapter Int'l
Most Outstanding Chapter Membership Growth
Most Outstanding Chapter Project
Most Outstanding Publication

Year 2011



Rainier P. Patawi, ME
Chapter President

Most Outstanding Chapter Int'l
Most Outstanding Chapter Membership Growth
Most Outstanding Chapter Project

Year 2010



Joselito Bentulan, PME
Chapter President

Most Outstanding Chapter Project
Most Outstanding Chapter Membership Growth


Year 2007



Joselito A. Arellano, PME
Chapter President

Most Outstanding Chapter Award


Year 2006



Wilfredo C. Leoncio, PME
Chapter President

Most Outstanding Chapter Award

Year 2005



Ernesto C. Cala, PME
Chapter President

Most Outstanding Chapter Award

Year 2002



Juan U. Berbie, PME
Chapter President

Plaque of Recognition
Best Chapter in Membership Growth

Year 2001



Dionisio A. Lora Jr., PME
Chapter President

Presidential Award


Year 2000



Wilfredo R. Ruiz, PME
Chapter President

Presidential Award


Year 1999



Filemon E. Aguio, PME
Chapter President

Presidential Award


Year 1998



Danilo V. Gercio, PME
Chapter President

Presidential Award

Year 1995



Nildo K. Tan Jr., PME
Chapter President

Presidential Award

Congratulations



**CERTIFICATE OF APPRECIATION
FROM PHILIPPINE CONSUL GENERAL**



CHAPTER AWARDEES



PHILIPPINE SOCIETY OF MECHANICAL ENGINEERS

PSME-WRSA Jeddah Chapter Awardees

PRESIDENTIAL SERVICE AWARDS

ALDRIN ALIZON D. LANGO, RMEE
2020 Chapter President
2020 PPO-WRSA Board of Director

ROSELLER A. JUNSAY JR., RMEE
Vice-President For Internal Affairs
Annual Conference Chainman
Souvenir Program Artist
PPO-WRSA 2020 Board of Director

JOSE MELVIN D. SANTOS, RMEE
Chapter Secretary

LORENZO O. GAVIOLA, RMEE
Chapter Executive Vice-President
2020 PPO-WRSA Auditor

NIÑO JOSE A. LOPEZ, RMEE
Vice-President For External Affairs
Coordinator for Outreach Program

OLIVER O. SALAZAR, RMEE
Professional Enhancement Director
2020 PPO-WRSA Board Of Director

JOBERT M. DE LA ROSA, RMEE
Chapter Treasurer

DISTINGUISHED SERVICE AWARDS

WILLYN D. ESPINO, RMEE, AE
MILLER F. NARVAS, RMEE
JOHN RAY O. MADLA, RMEE
LEE I. BONIFACIO, RMEE, MA, AE

BLIVEN U. GARCIA, RMEE
MARIA MAY M. ATOLE, RMEE, RMP
ORLAN C. MORIONES, RMEE
JULIUS M. CAÑECA, RMEE

MERITORIOUS AWARDS

NAPOLEON M. CEPRIASO, FPSME, PME

CRISOSTOMO C. ORTIZ, PME

WILFREDO R. RUIZ, FPSME, PME

MOST OUTSTANDING MEMBER AWARD

GREG A. GULMATICO, RMEE
Most Outstanding Regular Member

CERTIFICATE OF RECOGNITION

NEWLY APPROVED ASEAN ENGINEERS

MARIA MAY M. ATOLE, RMEE, RMP
NAPOLEON M. CEPRIASO, FPSME, PME
ALDRIN ALIZON D. LANGO, RMEE
JOHN RAY O. MADLA, RMEE
LEONARD P. MERIALES, RMEE

ORLAN C. MORIONES, RMEE
CRISOSTOMO C. ORTIZ, PME
ANTONIO ELMER L. QUINTILLA
OLIVER O. SALAZAR, RMEE
JOSE MELVIN SANTOS, RMEE



CONFERENCE LOGO AND THEME RATIONALE

PHILIPPINE SOCIETY OF MECHANICAL ENGINEERS



CONFERENCE LOGO

By: Roseller A. Junsay Jr., RMEE

This year's conference logo represents elements given in our conference theme. Robust is represented by an electrocardiogram heartbeat. Resilient is

represented by several items on the logo; a chain which is constantly subjected to extreme tension but remains firmly intact and a spring inside the number one that resiliently returns back to its shape no matter how much press or pull you apply on it. The color wheel signifies the globe that all nations of different flag colors that encountered the same challenges that this pandemic brings and the heartbeat doubles as mountain to signify the challenges that we must conquer. The robot symbolizes engineers and engineering adapting to the "new normal" due to pandemic and being a robot signifies technological advancement and the gear is a very familiar symbol for mechanical engineering.



"Building robust and resilient PSME WRSA JC in response to extreme global challenge"

By: Leonard P. Meriales, RMEE

The theme "Building robust and resilient PSME WRSA JC in response to extreme global challenge" is timely needed as the current Covid-19 pandemic which enormously impacting our society, jeopardizing the human lives and disrupting hugely the world economy.

Due to government restrictions to slow down the outbreak, digital technology plays a big role in the survival of society and economy as it facilitates people to work at home, instant shift from traditional seminars into webinars, virtual meetings and conferences. Conventional education to e-learning, government to eGovernment and the manufacturing sector is fast tracking to industrial 4.0. These transformations are just some ways of how flexible we are, to respond and adapt to the impact of global challenges.

In like manner, the PSME-WRSA JC, has proven its strong foundation and resiliency against all the challenges it has confronted throughout its rich history and one of it is the preservation of its remarkable name – the PSME-WRSA JC. Therefore, in response to global uncertainty, PSME-WRSA JC will remain standing and continue to find ways to reach and strengthens the bonds to its associates utilizing the digital technology we have today.

This year, despite the outbreak, PSME-WRSA JC succeeded to unite us all and connect thru the digital world. It's a momentous event, as we have witnessed it all "the first" webinars, virtual plant tours, mid-year conference, online election and now, the 1st virtual annual conventions. Furthermore, the virtual "kamustahan" was also a superlative as it look over to the status of every member in the midst of pandemic. Certainly, among others, cooperation and connectivity are the key elements in building a robust and resilient PSME-WRSA Jeddah Chapter. Whatever the challenges it may face, PSME-WRSA JC will remain a beacon to all and will continue its commitment to serve for the betterment of its member.



COVER AND SOUVENIR PROGRAM COMMITTEE



PHILIPPINE SOCIETY OF MECHANICAL ENGINEERS



THE COVER

By: Roseller A. Junsay Jr., RMEE

This year's annual conference souvenir illustrates recent events that would never be forgotten in our history - the global COVID 19 pandemic. It is illustrated as its microscopic feature covering the globe. This pandemic has changed how we lived our normal lives and forced technological innovation to step in and respond to society needs. It has also compelled engineers to adapt and develop additional skills such as critical thinking, creativity, collaboration, communication, information literacy, media literacy, technology literacy, and social skills which are represented in the cover.

This year is a significant year for PSME-WRSA JC as we celebrate our 25 years of service, hence, the silver gear with "25" engraved on it. The chapter have already a lot of challenges as for the organization itself and to its members likewise but have successfully emerged victorious and shall continue its commitment for years to come.

SOUVENIR PROGRAM COMMITTEE

Executive Officer

Aldrin Alizon D. Lango, RMEE
Roseller A. Junsay Jr., RMEE

Layout and
Technical Design

Roseller A. Junsay Jr., RMEE
Bliven U. Garcia, RMEE

Editing

Jose Melvin D. Santos, RMEE
Roseller A. Junsay Jr., RMEE
Lee I. Bonifacio, RMEE, MA, AE
John Ray O. Madla, RMEE
Oliver O. Salazar, RMEE

Finance

Napoleon M. Cepriaso, FPSME, PME
Jobert M. De La Rosa, RMEE



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

OATH OF MEMBERSHIP

I, _____, after having been accepted as a member of the Philippine Society of Mechanical Engineers (PSME), 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 and purpose of evasion.



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.

PSME PRAYER

Heavenly Father, Maker of Heaven and Earth, we 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.**



MESSAGE FROM THE CONSUL GENERAL

PHILIPPINE SOCIETY OF MECHANICAL ENGINEERS



CONSULATE GENERAL OF THE REPUBLIC OF THE PHILIPPINES

القنصلية العامة لجمهورية الفلبين بجدة

JEDDAH

ZJD-MIS-379-2020



MESSAGE

I wish to congratulate the Philippine Society of Mechanical Engineers – Western Region Saudi Arabia Jeddah Chapter (PSME-WRSA JC) on the occasion of its 17th Virtual Annual Conference and General Membership Meeting on 4 December 2020.

Your convention theme for this year, *“Building Robust and Resilient PSME-WRSA JC in Response to Extreme Global Challenge”* is very timely as we continue to battle the COVID-19 pandemic. While the pandemic triggered an unprecedented crisis among individuals and organizations, it has amplified the importance of organizations, such as yours, as a source of support in both the professional sphere and the humanitarian space.

I am glad to note that despite the pandemic, your commitment towards your organization and members has not waned and your advocacy towards the Filipino community is stronger than ever.

The Philippine Consulate General in Jeddah considers you as an indispensable partner and wishes to support you in your future endeavors, whether done virtually or face-to-face.

To the Philippine Society of Mechanical Engineers – Western Region Saudi Arabia Jeddah Chapter (PSME-WRSA JC), I wish you the best of luck on your annual conference and general membership meeting! Congratulations and *mabuhay!*


EDGAR B. BADAJOS
Consul General

Jeddah, 18 October 2020



MESSAGE FROM THE BOARD OF MECHANICAL ENGINEERING CHAIRMAN PHILIPPINE SOCIETY OF MECHANICAL ENGINEERS



GREETINGS TO ALL!

First of all let me congratulate all the officers and members of PSME WRSA JC for having this 17th Virtual Annual Conference and General Membership Meeting and with your theme: **“Building Robust & Resilient PSME WRSA JC in Response to Extreme Global Challenge”** which is very timely during this Pandemic time.

We all know that we are not prepared on all of this lockdown due to Covid-19, and we have no choice but to go with the new normal to prevent spread of the virus. All our movements and lifestyles have to change whether we like it or not. For now, I know all of us has already adjusted though some might not be comfortable but we have to comply. Like this virtual meeting of yours it should have been face to face and more exciting but now we're used to do it online and on various platform.

With that, I still hope that all your programmed activities for the day are full also of technical presentations from renowned speakers that you have invited and for your members to be updated on their skills and knowledge on trends and developments of new products and equipment. Aside from that this online activity even if you're far from its other though near in the screen will still be a link of renewing your ties with old and new friends in different companies and industries. I know mechanical engineers alike are good in developing and extending camaraderie with each other and reminisce some old gold old days.

For the activities of the Board, our various program for the year had been deferred due to limitations on social gathering and even our ME exams last October was canceled including the oral exams for PME. We're working for virtual oral exams with other professions like Electrical Engineering and Electronics Engineering and were just waiting for the commission to approve our propose guidelines. Other major activities that we are doing right now is the Career Progression and Specialization Program where levelling of your career path will be recognize. We had just concluded our 1st Mechanical Engineering Career Progression and Specialization Program held on November 26 to 28, 2020 – and the commission has given us and approve 18 credit units for 3 days. I hope some of you had attended this and I also encourage you all to prepare yourself to become PME and register in Asean Chartered Professional Engineer (ACPE) as this will be a pre requisite in applying for Level 7 and Level 8 for your professional track.

Before I end let me again to thank your President Aldrin Lango, Conference Chairman Rosellier Junsay and your Secretary Jose Melvin Santos for making us part of your program and do hope you will not be tired in continuing to serve your peers and your profession were you belong.

Again, and in behalf of the Board we wish you all the best in all your endeavors and in the years to come.

Mabuhay tayong lahat and Maligayang Pasko!!!

LEANDRO A. CONTI
BME Chairman



MESSAGE FROM THE PSME NATIONAL PRESIDENT PHILIPPINE SOCIETY OF MECHANICAL ENGINEERS



PHILIPPINE SOCIETY OF MECHANICAL ENGINEERS, INC.
INTEGRATED ASSOCIATION OF MECHANICAL ENGINEERS

PSME NATIONAL HEADQUARTERS

19-A Scout Bayoran St. Brgy. South Triangle
Quezon City, Philippines 1103
Tel: (632) 7752-2527 Mob. No. 09178681700
Email: national@psme.org.ph Website: www.psme.org.ph



Message

My warmest greetings to the officers and members of the Philippine Society of Mechanical Engineers – WRSA Jeddah Chapter as you hold your virtual 17th Annual Conference and General Membership Meeting on December 4, 2020 with the theme *"Building Robust & Resilient PSME-WRSA JC in Response to Extreme Global Challenge"*

Indeed, the extreme global challenges that we are facing demands a professionally and ethically strong and resistant team that will propel us on to the Fourth Industrial Revolution and become valuable contributors not only in the national and ASEAN technology platforms, but also in the universal arena.

This global pandemic due to Covid-19 forced the government to impose restrictions to our activities as a professional organization, but I am glad that your chapter continues to empower the minds of your members through webinars and virtual presentations.

Your annual conference and GMM should therefore be a vibrant gathering of PSME members with great ideas for professional development, a desire for global excellence through technological advancement, and a strong sense of unity and compassion.

I therefore encourage all members to participate and be engaged with the programs and activities of our organization. The **PSME PLATINUM 2022** agenda needs the involvement of the members and chapters to effectively carry out its programs. Continue to be of service to both the society and the community as you pursue global competitiveness through your exposure in the global standard of professional practice in the Middle East.

To the working committees of PSME-WRSA Jeddah Chapter, I commend you for your commitment to make this event another milestone for your chapter, documented through your Conference E-Book Souvenir Program that will also feature your chapter's activities and accomplishments. I fervently hope that you will carry forward our mission to become a Powerful, Influential, and Relevant organization to realize our vision of becoming the ultimate prime mover of Philippine industrialization and the steward of development of the Mechanical Engineering profession.

Mabuhay ang PSME-WRSA Jeddah Chapter!



Dr. JEFFREY P. SINGSON
PSME National President

"Mechanical Engineers: The Nation's Prime Mover of Industrial Revolution 4.0"

"Building robust and resilient PSME-WRSA JC in response to extreme global challenge"





MESSAGE FROM THE PSME VP FOREIGN AFFAIRS

PHILIPPINE SOCIETY OF MECHANICAL ENGINEERS



INSPIRATIONAL MESSAGE TO PSME-WSA on the occasion of their 17th Virtual Annual Conference and General Membership Meeting.

Greetings and Good day to the Leaders and Members of the PSME-WSA!

I am thankful and grateful to address this prestigious chapter of PSME, the WRSA in Jeddah on the occasion of their 25th Anniversary and Virtual Annual Conference to be conducted on December 4, 2020.

For their 25th years of existence with the global situation, it shows the resilience of the leaders and members in sustaining the Society's existence. The love of their profession in mechanical engineering matters to them most because it provided them the opportunities and challenges in landing a job in the Middle East particularly in the Western Region. Additionally, the add-on values that the leaders and members received from their trainings and sharing from their peers helped them in the personal growth and professional development.

As leaders in their professional endeavors, they provide the motivation to their members to keep abreast of the latest technological development and apply it to their work for their benefit as well as the company.

We are thankful to God for the continuous protection and provided us good health and in safe condition while the pandemic COVID-19 is still not flattened. Our adherence to our Host country's health regulations is necessary for our own safety and continuous existence. Life is precious and we only live once.

Continue with your journey "brave and courageous" leaders and members of our PSME Society and make the coming occasion as a "hallmark" of your continuous success.

TO GOD BE ALL THE GLORY AND HONOR, FOREVER, AND EVER, AMEN!

Very truly yours,

Dr. Eduardo P. Malagapo, Ph.D.D.A., Ph.D.B.M., Ph.D.Eng'g., D.M.E.M., D.M.HRM, PME,
FPSME, DrFRIM, FRIdrE
CEO/Dean/Professor, EPM & Associates Graduate/Business School Middle East
Vice President, PSME National
Charter President, PSME-SA





MESSAGE FROM THE PSME VP MIDDLE EAST PHILIPPINE SOCIETY OF MECHANICAL ENGINEERS



PSME-WRSA Jeddah Chapter's 17th ACGMM

Let us together venerate and praise our Almighty God for his blessing in celebrating the **PSME-Western Region Saudi Arabia - Jeddah Chapter's 17th Annual Conference and General Membership Meeting (Virtual)**. I commend all the Board of Directors (BOD's 2020) through the leadership of Pres. Aldrin Alizon D. Lango, RMEE, AE that made this momentous event possible and most specially to our Supreme Members for their continuous supports. The achievements of PSME-WRSA JC in helping the Supreme Members both professional and social are become the inspirations of the current and upcoming BOD's to continue the burning passion of the real Servant Leaders.

With the event theme **"Building Robust & Resilient PSME-WRSA JC in Response to Extreme Global Challenge"**, our task is to gear up our Supreme Members toward the next level of Engineering Technology. The COVID-19 Pandemic revolutionize the way of learning through the Internet of Things (IoT), but this kind of challenges cannot stop us in our endeavors to continue helping our Supreme Members who chasing their professional career to be globally recognize as a **Filipino Professionals and Entrepreneurs**. We believe to be globally competitive in today's fast pacing and diverse professional environment, we need to push ourselves to advance knowledge and experiences through Continuous Educations. It will help us to be distinguish by having professional certifications in various worldwide recognized professional organizations and institutes.

As one of the Most Outstanding Chapter in the Middle East Region, PSME-WRSA JC deserved all the accolades for its accomplishments, contributions, and unparalleled service to our beloved society that marked in the history of PSME. May you continue serving our Supreme Members and continue passing the Torch of Leadership to the next Servant Leaders and beyond. Again, congratulations and more power.

MABUHAY and GOD BLESS!

Engr. Servando III V. Relente
PME, ACPE, CEM, CFM®
Vice President - Middle East
PSME National 2020





MESSAGE FROM THE PPO PRESIDENT

PHILIPPINE SOCIETY OF MECHANICAL ENGINEERS



DR. JEREMIAH D. LEUNG
Chapter President
PPO WRSA
FDK-WR

*A massive congratulations to the **Philippine Society of Mechanical Engineers -PSME-WRSA JC**, on your **17th Virtual Annual Conference and General Membership Meeting**.*

Amidst an unprecedented global health crisis, during this period of uncertainty caused by COVID-19, it's my pleasure to be part of this celebration of success.

God didn't promise that life would be easy but he did promise to be with us in every step of the way. So let us keep going while practicing all the extra precautionary measures for us to be safe.

When tough gets going. This is an opportunity to get stronger, to get more resilient and get better.

*There is always room for success in what we do. The world needs **more versatile Filipino Mechanical Engineers**.*

Stay safe and God bless to all.



MESSAGE FROM THE CHAPTER PRESIDENT

PHILIPPINE SOCIETY OF MECHANICAL ENGINEERS



CHAPTER PRESIDENT'S MESSAGE

The 17th Virtual Annual Conference and General Membership Meeting is the most important and much awaited event of the Philippine Society of Mechanical Engineers Western Region Saudi Arabia Jeddah Chapter (PSME-WRSA JC).

Congratulations to all from the General Membership to the Executive Officers and Board of Directors that amidst the pandemic brought about by COVID-19, we managed to survive as one strong organization.

The Covid-19 pandemic has enhanced the conduct of business through electronic platforms as work from home strategies were adapted in the pursuit of measures to fight against the virus. This unprecedented situation has triggered the ingenuity of humans to merge virtual reality with electronic platform that has provided a more enticing and exciting experience in doing business, conferences and the like.

We, the Filipino Mechanical Engineers, being the nations prime mover for development, shall gear up for industrial transformation, keep our strength abreast with hi-breed technological modernization, and enhance our professional competency.

This year's conference theme "Building Robust and Resilient PSME WRSA JC in Response to Extreme Global Challenge" is timely and relevant for we shall not only recognize the challenges that our dynamically changing world can present ahead of us but we shall also structure our organization so that it can be upfront with any unprecedented unfavorable events.

Congratulations once again and Mabuhay ang PSME-WRSA JC!

Aldrin Alizon D. Lango, ME
2020 Chapter President



MESSAGE FROM THE CONFERENCE CHAIRMAN

PHILIPPINE SOCIETY OF MECHANICAL ENGINEERS



The Conference Chairman

This year's 17th Annual Conference is very significant to our chapter being the first to be conducted online instead of our usual regular yearly convention. Another "new normal" brought to us by this pandemic. This brings me mixed emotions as although this online conference ensures disease prevention, convenience, and even saves us some expenses, I would still wish that we could meet face to face and interact socially as this convention is one of opportunities for the chapters members to bond. Especially during this hard times that we need to check upon each other and show our support for each other, as professionals working abroad we only have each other to rely on. For each member of our chapter, we are your extended family here.



This conference also displays how resilient our organization is, this pandemic have brought challenges in a global scale and yet we are still here resiliently adapting and bouncing back to our feet. We may bend with pressure but we always recoil back and we adapt. For this, I congratulate every member of our chapter for keeping up with the times and staying afloat. This year's crisis gave us a chance to appreciate what we have, we should be proud and grateful if we are able to upgrade this year but to survive alone is a great feat by itself as we friends and relatives who are not as lucky and blessed.

This conference is like a pat on your back saying *"you made it through this year and these challenges - job well done, now lets look forward for the coming year and hope it will ten folds better than this year"*, it's a celebration of success, a symbol of our strength, and a way for us to show our gratitude for your continuous support for our chapter. Our chapter aims to resume all our services to chapter while complying to health and safety protocols. Pandemic or not, we will be of service to our members.

Mabuhay ang PSME-WRSA JC! Maraming salamat sa inyong lahat!

Roseller A. Junsay Jr. RMEE
Chapter Vice President - Internal Affairs
Conference Chairman 2020



MESSAGE FROM THE EDITOR-IN-CHIEF

PHILIPPINE SOCIETY OF MECHANICAL ENGINEERS



**BLIVEN U. GARCIA, RMEE
EDITOR-IN-CHIEF**

This year, our world is indeed full of extreme trials and adversities. Who would've thought we will experience a global pandemic in our lifetime? But this has not discouraged us, instead we remained prepared and we equipped ourselves with new knowledge to respond and overcome these challenges.

As we face this crossroad, PSME-WRSA JC strives to cultivate values and habits that build strength and resiliency. These decisive moments brought us closer to one another and look forward to a more nurturing and life-giving ways in engineering, trades, transportation, and consumption.

As an organization, the global pandemic and other calamities had given us a chance to develop fresh strategies and new way of living. We stayed steadfast for one another and strived to make PSME-WRSA JC become one of the significant contributors in restoring the world's normalcy. We are here for one another "Building Robust and Resilient PSME-WRSA JC in Response to Extreme Global Challenge."

With this threatening episode we are going through together, may we continue to be reminded that everything in our world is interconnected and we must stay strong and nurturing for one another. May we be humbled by this experience and remain dependable as we heal as one.

Support and appreciations to PSME-WRSA JC for the admirable efforts to continue serving our advocacies and vision!



ANNUAL CONVENTION WORKING COMMITTEE



PHILIPPINE SOCIETY OF MECHANICAL ENGINEERS

WORKING COMMITTEES

Chapter President: Aldrin Alizon D. Lango, RMEE
Convention Chairman: Roseller A. Junsay Jr., RMEE

Deputy Chairman Administration: Aldrin Alizon D. Lango, RMEE

Deputy Chairman Finance: Jobert M. De La Rosa, RMEE

Deputy Chairman Publication: Bliven U. Garcia, RMEE

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Jobert M. De La Rosa, RMEE
Oliver O. Salazar, RMEE

Committee On Souvenirs: Roseller A. Junsay Jr., RMEE
Jose Melvin D. Santos, RMEE
John Ray O. Madla, RMEE

Committee On Attendance And Registration: Maria May M. Atole, RMEE, RMP
Miller F. Narvas, RMEE
Orlan C. Moriones, RMEE

Committee On Sponsors: Jose Melvin D. Santos, RMEE
Crisostomo C. Ortiz, PME
Oliver O. Salazar, RMEE
Julius M. Cañeca, RMEE
Napoleon M. Cepriaso, PME, FPSME

Committee On Technical Papers: Lee I. Bonifacio, RMEE, MA, AE
John Ray O. Madla, RMEE
Niño Jose A. Lopez, RMEE
Wilfredo R. Ruiz, PME, FPSME
Willyn D. Espino, RMEE, AE

Committee On Awards And Recognition: John Ray O. Madla, RMEE
Julius M. Cañeca, RMEE
Jose Melvin D. Santos, RMEE

Committee On Technical Virtual Arrangement: Bliven U. Garcia, RMEE
Roseller A. Junsay Jr., RMEE
Aldrin Alizon D. Lango, RMEE

Entertainment And Fellowship: Lorenzo O. Gaviola, RMEE
Lee I. Bonifacio, RMEE, MA, AE
Willyn D. Espino, RMEE, AE



CHAPTER PRESIDENT'S REPORT



PHILIPPINE SOCIETY OF MECHANICAL ENGINEERS

THE CHAPTER PRESIDENT'S REPORT



Looking back on how we have begun, I am amazed by the experience today how we are about to conclude!

We have set our sails and embarked on our Chapter's journey from a seemingly calm and peaceful waters. We were just beginning to feel the excitement of moving forward when suddenly we need to lower down our sails and slowed down so that we can advance our objectives safely due to the emergence of Covid-19 Pandemic. We were threatened and horrified but we were never intimidated to move forward.

Our Chapter's operations has been on hold for almost three months until we were able to find a platform where we can discharge our functions while observing the government imposed health protocols for a unified approach in the global fight against the Covid-19 pandemic. Thanks to "Zoom" for providing a virtual venue where we can proceed with our activities.

Prior to the series of lockdowns that has been implemented here in Jeddah, we were able to conduct ASEAN Engineering Register Technical Writeshop on February 7, 2020. The writeshop Technical Speaker was no other than the PTC MENA Deputy in the Western Region, Engr. Richard R. Garcia, PECE, APEC Eng., ACPE, FACPE, AE. The group who attended the writeshop were named AER Batch 3 Aspirants. Its our Chapter's pride and honor to assist our fellow engineers to achieved their professional advancement, so on February 21, 2020, they were able to pass their interview, on July 24, 2020 their documents have been completed despite restrictions that has been imposed by Saudi Government due to Covid-19 pandemic, and on November 6, 2020 the documents have been delivered to PTC by our Past President Engr. Rainier P. Patawi.

Our Chapter was able to organize technical seminar on **"The Role of BIM in Sustainability, Energy and Environment"** conducted on April 26, 2020 by Ace Glen Garcia, EIT, LEED AP, WELL AP, Mechanical Designer & Energy Modelling Lead at MAT 4Site Engineers, Canada.

To guide our fellow mechanical engineers in their pursuit of professional advancement, we have organized **"PME Orientation and Writeshop"** conducted by Engr. Napoleon M. Cepriaso, PME, FPSME. The Event was also attended by Engr. Nardito M. Cornelio Jr., PME, CFSP, CEM as our Guest Speaker.

We conducted **"Webinar on Autonomous Maintenance"** on June 19, 2020 which was presented by Engr. Greg A. Gulmatico. The webinar was attended by participants not only from the Chapter members but also by other interested individuals.

As one of the PSME Chapters in the Middle East, our Chapter have actively participated in 11th Middle East Regional Conference. The event hosted by PSME-SA and was conducted on July 31 to August 1, 2020, where we were able to have a virtual acquaintance with fellow PSME Chapters.

While travels and gathering were prohibited due to Covid-19 Pandemic, we conducted a "Virtual Membership Kamustahan" on August 14, 2020 in order to assess the current status of our general membership. We also conducted a virtual kumustahan with the COPPs on September 11, 2020 to know their status, exchange pleasantries and somehow break the boredom of the lockdown especially to our Past President Engr. Jaime L. Leviste who was undergoing medical procedures by that time.



CHAPTER PRESIDENT'S REPORT



PHILIPPINE SOCIETY OF MECHANICAL ENGINEERS

The Mid-Year General Membership Meeting was conducted on August 28, 2020 and was chaired by our Executive Vice-President Engr. Lorenzo O. Gaviola. Our Mid-Year General Membership meeting was filled with technical presentations from our sponsors and professional technical presenters. It was also on this occasion that for the first time in the history of PSME-WRSA Jeddah Chapter, the constitution and By-Laws (CBL) was ratified by the general membership.

It has always been the practice of our Chapter to extend assistance to our fellow Filipinos who are in need. For this year, we have chosen the Philippine Consulate General in Jeddah male and female wards as our beneficiaries. From the generosity of our members, we were able to generate an amount of 1800SAR that has translated into 90 pieces of single mattress. Along with our assistance were 21 pieces of one-liter bottle of Sanitizers Courtesy of Reza Chemicals which was facilitated by our Plant Tours Director Engr. Orlan C. Moriones, and 15 boxes of Yamama Cakes Courtesy of Engr. Oliver O. Salazar, our Professional Enhancement Director. We have delivered the said assistance on September 18, 2020 with the permission from our Consul General which was facilitated by Madam Consul Maria Jennifer Dingal.

In our aim to continuously provide professional enhancement to our members, we have organized the first Virtual Plant Tour and Election of Year 2021 BODs and was conducted on October 2, 2020. In line with the PSME's theme, "Mechanical Engineers : The Nation's Prime Mover of Industrial Revolution 4.0".

We would like to extend our congratulations to the achievers of this year, our Chapter's second batch of approved **ASEAN Engineers**. Finally their long wait is over.

- | | |
|---------------------------------|-------------------------------------|
| 1. Engr. Maria May M. Atole | 6. Engr. Orlan C. Moriones |
| 2. Engr. Napoleon M. Cepriaso | 7. Engr. Crisostomo C. Ortiz |
| 3. Engr. Aldrin Alizon D. Lango | 8. Engr. Antonio Elmer L. Quintilla |
| 4. Engr. John Ray O. Madla | 9. Engr. Oliver O. Salazar |
| 5. Engr. Leonard P. Meriales | 10. Engr. Jose Melvin D. Santos |

Amidst Covid-19 Pandemic, we managed to carry out our activities and achieve our goals. In behalf of the Executive Officers and Board of Directors, we would like to share this success to you our members and to our partners.

I would like to take this opportunity to extend my heartfelt gratitude to our Council of Past Presidents for the wisdom that you have shared with us as our Chapter traverses a dreadful journey due to the pandemic.

Likewise, my heartfelt thanks to our Executive Officers and Board of Directors for their unwavering support. With your selfless efforts and dedication, we were able to frame the most appropriate strategy to overcome the challenges brought about by the Covid-19 pandemic in our pursuit to gear up our organization for industrial transformation.

Mabuhay ang mga Enhinyero Mekanikal! Mabuhay ang PSME-WRSA Jeddah Chapter!

Aldrin Alizon D. Lango, ME
Chapter President



16th ANNUAL CONVENTION



PHILIPPINE SOCIETY OF MECHANICAL ENGINEERS



PSME- WRSA

PHILIPPINE SOCIETY OF MECHANICAL ENGINEERS
WESTERN REGION SAUDI ARABIA - JEDDAH CHAPTER

CHARTERED 1995
MOST OUTSTANDING CHAPTER
2005, 2006, 2007, 2011, 2012, and 2019

SAVE THE DATE!

16TH ANNUAL CONVENTION

TRIDENT HOTEL - 29th NOVEMBER 201
8:00 AM - 5:00 PM

FOR INQUIRIES AND REGISTRATION CONTACT THE FF:

Engr. Aldrin Alizon D. Lango 053 013 2947
Engr. Niño Jose A. Lopez 053 204 4768
Engr. Lorenzo O. Gaviola 056 404 9883
or visit our website @ <https://psme-wrsa.com>
email us @ wsra.psme@gmail.com

PSME WRSA
Gearing Up
for Industrial
Transformation



GOOGLE MAP LOCATION
Hotel Trident, Baishin, Al-Hindawiya, Jeddah 22321



"Building robust and resilient PSME-WRSA JC in response to extreme global challenge"

25



PPO WRSA INDUCTION OF OFFICERS



PHILIPPINE SOCIETY OF MECHANICAL ENGINEERS





ASEAN ENGINEERING WRITE SHOP



PHILIPPINE SOCIETY OF MECHANICAL ENGINEERS



"Building robust and resilient PSME-WRSA JC in response to extreme global challenge"



ASEAN ENGINEERING INTERVIEW



PHILIPPINE SOCIETY OF MECHANICAL ENGINEERS

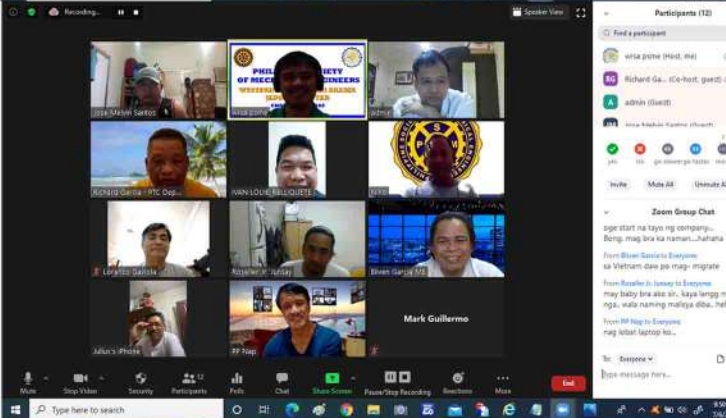




ASEAN ENGINEERING BATCH 3



PHILIPPINE SOCIETY OF MECHANICAL ENGINEERS



"Building robust and resilient PSME-WRSA JC in response to extreme global challenge"



TECHNICAL WEBINAR THE ROLE OF BIM IN SUSTAINABILITY, ENERGY AND ENVIRONMENT



PHILIPPINE SOCIETY OF MECHANICAL ENGINEERS

BIM INTEGRATION

DEGREE OF EFFORT VS.
POTENTIAL ENERGY SAVINGS



Source: USGBC

PSME-WRSA
TECH WEBINAR
April 26, 2020



MARAMING SALAMAT PO!

شكرا جزيلا لك!

THANK YOU VERY MUCH!

Engr_aceglengarcia@yahoo.com

Philippine Society of Mechanical Engineers – Western Region Saudi Arabia
PSME – WRSA

The Role of BIM in Sustainability, Energy and Environment

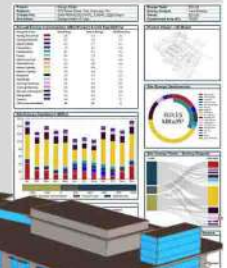
April 26, 2020 – 7:00 p.m. to 8:30 p.m. AST



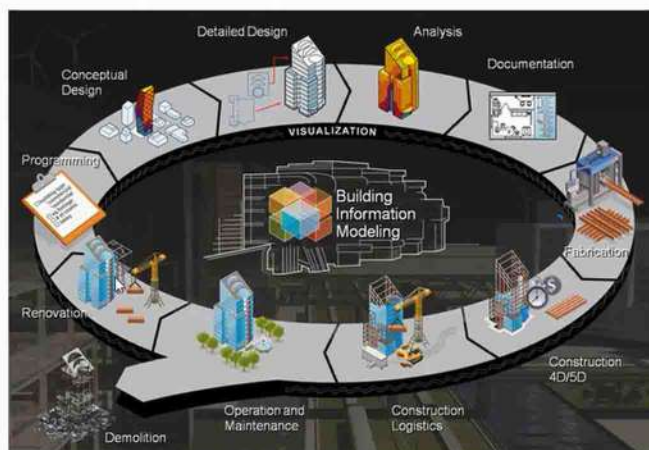
This course is for construction professionals who want to learn and expand their practice to integrate energy modelling as a tool in the Building Information Modelling (BIM). The course will begin with the introduction of energy modelling and will go towards the application of the modelling tool in enhancing the design, construction and operation of the project. This course will also highlight the effects of climate change in the Philippines and Saudi Arabia and design buildings that would be resilient to the changing climate.

The course will be presented with case studies and examples showing how energy models are utilized in Building Information Modelling (BIM).

1. BIM Integration
 - Tools
 - Architect/Engineers/Energy Analysis
 - Sustainability
2. LEED Certification
 - Energy Modelling Process
 - Energy Conservation Measures (ECMs)
 - Modelling Advantages and limits
3. Environment and Climate Change
4. Resiliency



BIM INTEGRATION



PSME-WRSA
TECH WEBINAR



Ace Glen Garcia



Elmer Quanico



PME ORIENTATION



PHILIPPINE SOCIETY OF MECHANICAL ENGINEERS



How to be a PME

Philippine Society of Mechanical Engineers
Western Region Saudi Arabia - Jeddah Chapter

Bliven Garcia



Android Blueidroid



bong junsay





PHILIPPINE SOCIETY OF MECHANICAL ENGINEERS
WESTERN REGION SAUDI ARABIA
JEDDAH-CHAPTER
Chartered 1995
<https://psme-wrsa.com>
"MOST OUTSTANDING CHAPTER YEARS 2005, 2006, 2007, 2011, 2012 and 2013"

PME ORIENTATION WRITESHOP
When: May 22, 2020 (Friday)
From 2:00 PM to 3:30 PM

Presented by: **Napoleon M. Cepriaso PME, FPSME**
Co-Presented by: **Crisostomo C. Ortiz, PME**
Guest Speaker: **Nardito Cornelio, PME, GEM, GFSP**

via  **MEETING!**

FOR INQUIRES, PLEASE CONTACT THE FF:
Engr. Aldrin Alizon D. Lango 053 013 2947
Engr. Lee Bonifacio 055 180 2137

HOW TO INSTALL 

For Mobile

1. Got to playstore or appstore for Zoom app.
2. Download/Install Zoom app.
3. Create your Zoom Account.
4. Click Join Meeting and Input the Meeting ID and password.

For laptop/Desktop

1. Got to Google Chrome and search the Zoom app.
2. Download/Install Zoom app.
3. Create your Zoom Account.
4. Click Join Meeting and Input the Meeting ID and password.





Bliven Garcia



NINO JOSE LOPEZ



Jomel Santos



Crisostomo C. Ortiz



Nardito Cornelio



Ruben Serrano



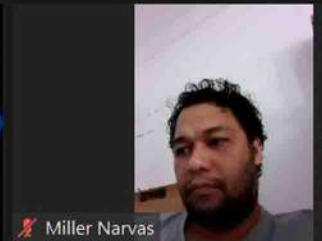
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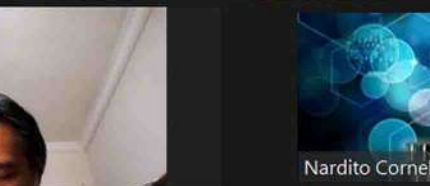
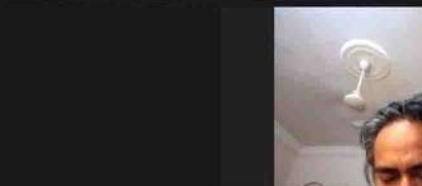
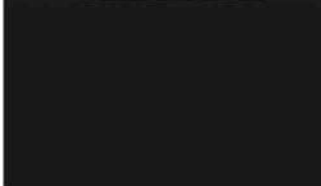
Lee Bonifacio



Engr. Napoleon Cepriaso



Miller Narvas



Nardito Cornelio





TECHNICAL WEBINAR AUTONOMOUS MAINTENANCE

PHILIPPINE SOCIETY OF MECHANICAL ENGINEERS



PSME - WRSA

PHILIPPINE SOCIETY OF MECHANICAL ENGINEERS
WESTERN REGION SAUDI ARABIA - JEDDAH CHAPTER
<https://psme-wrsa.com/>

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Where: Via Zoom

When: 19 June 2020 (Friday)

Time: 2:30 pm - 4:30 pm

Contact Persons:

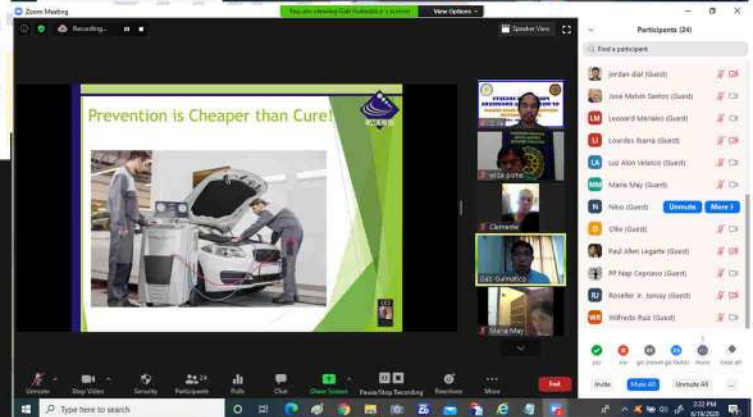
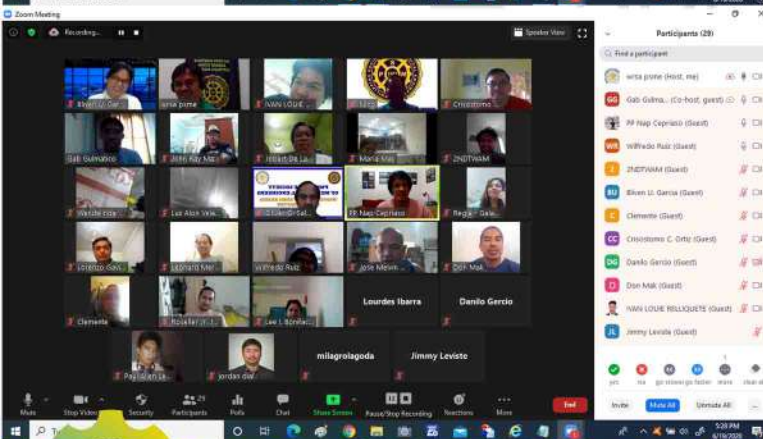
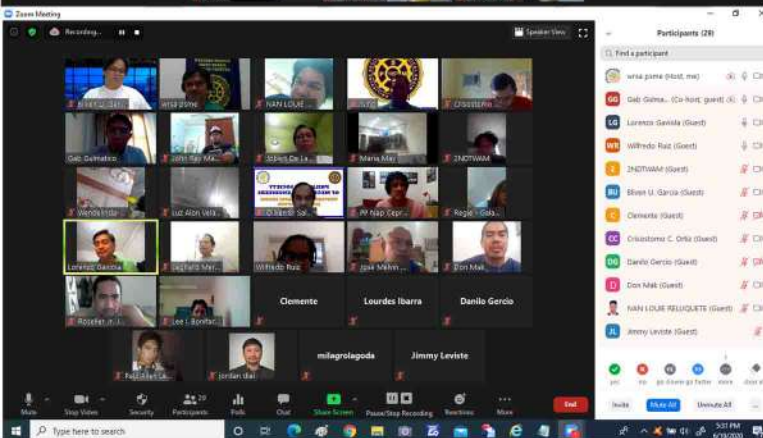
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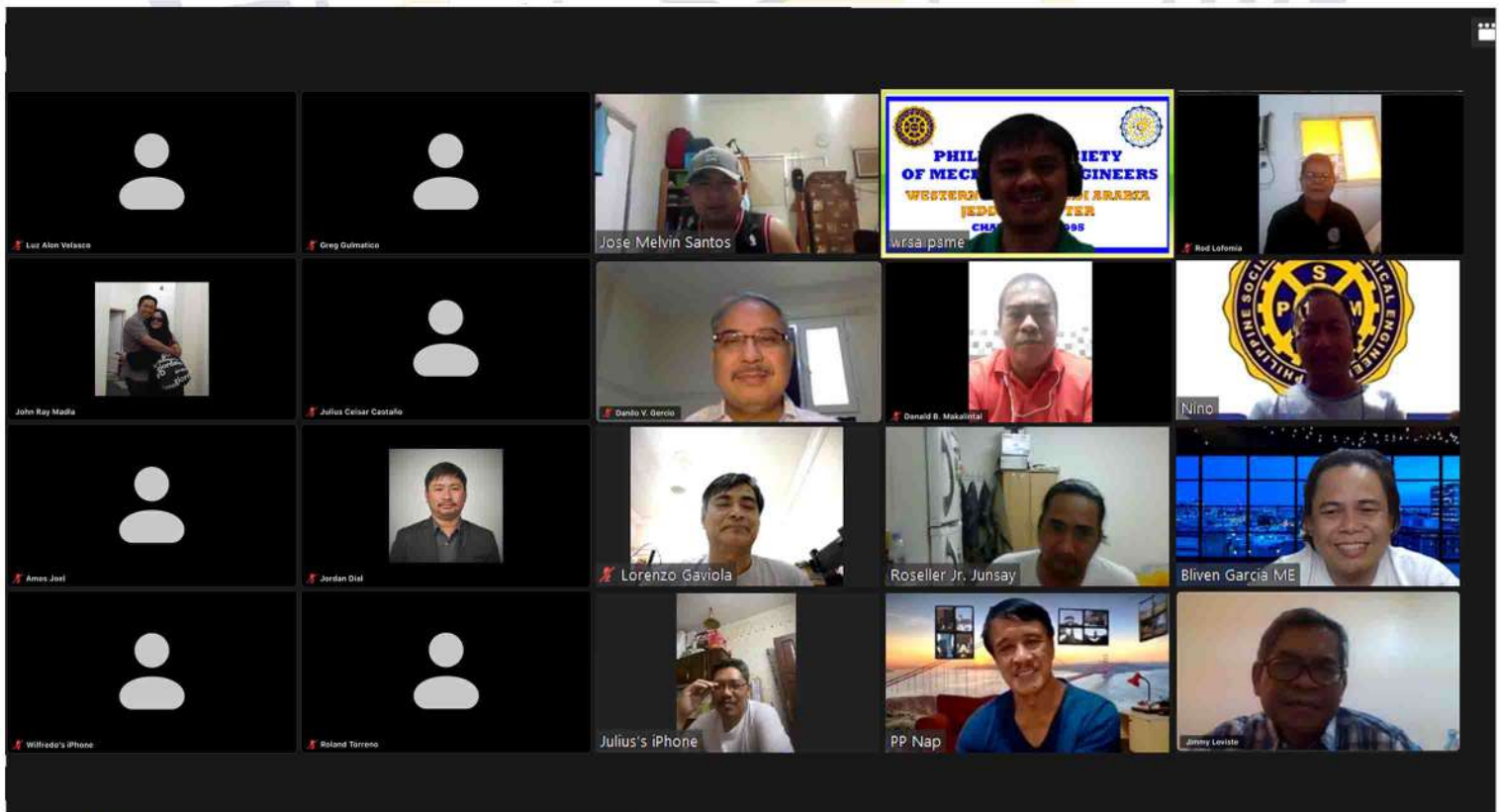
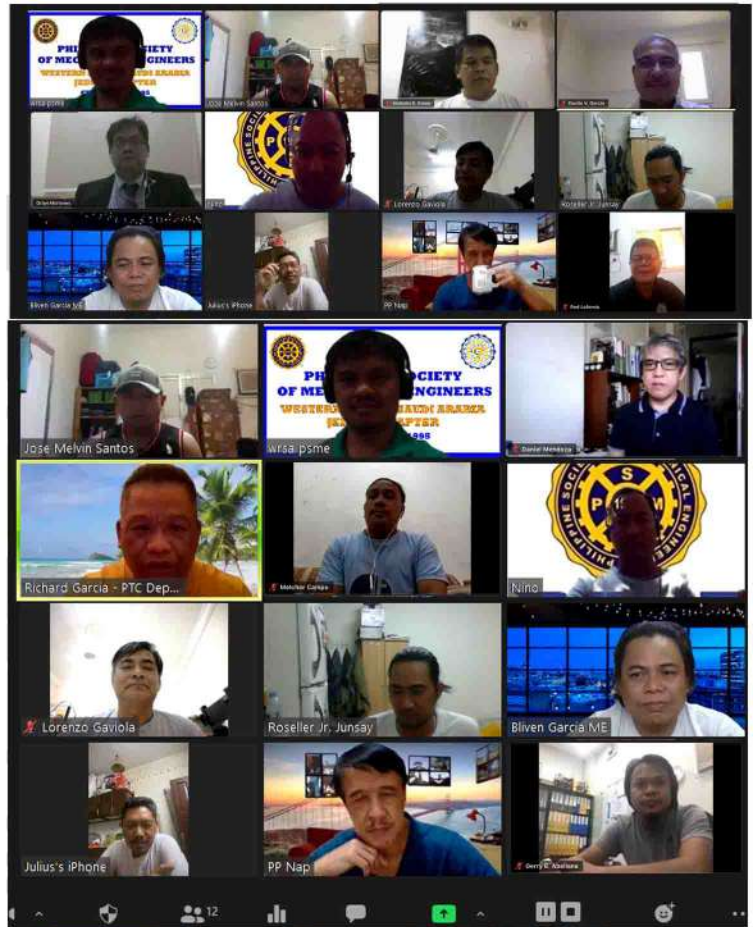
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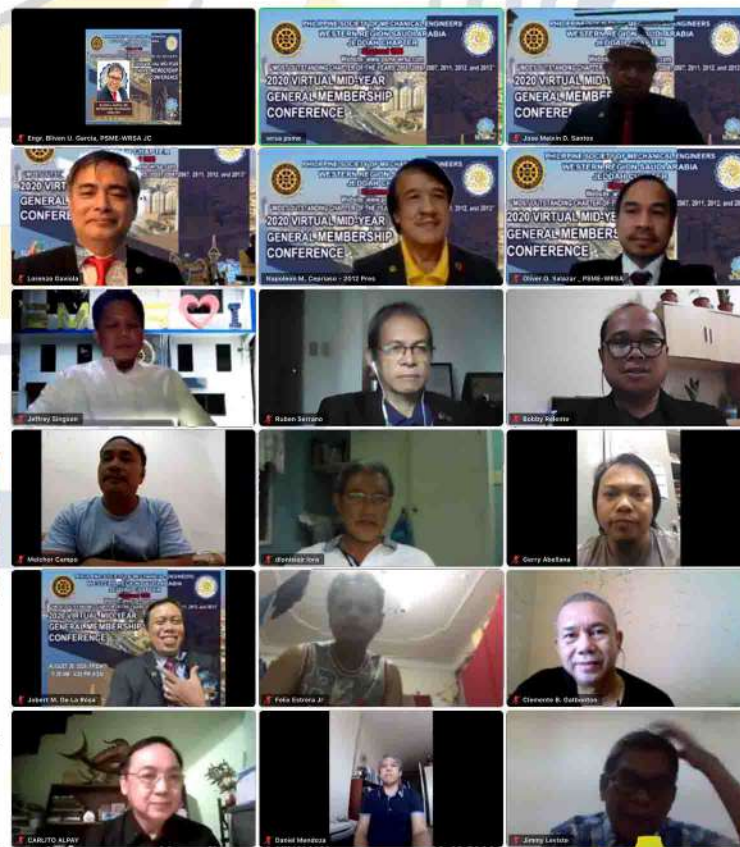
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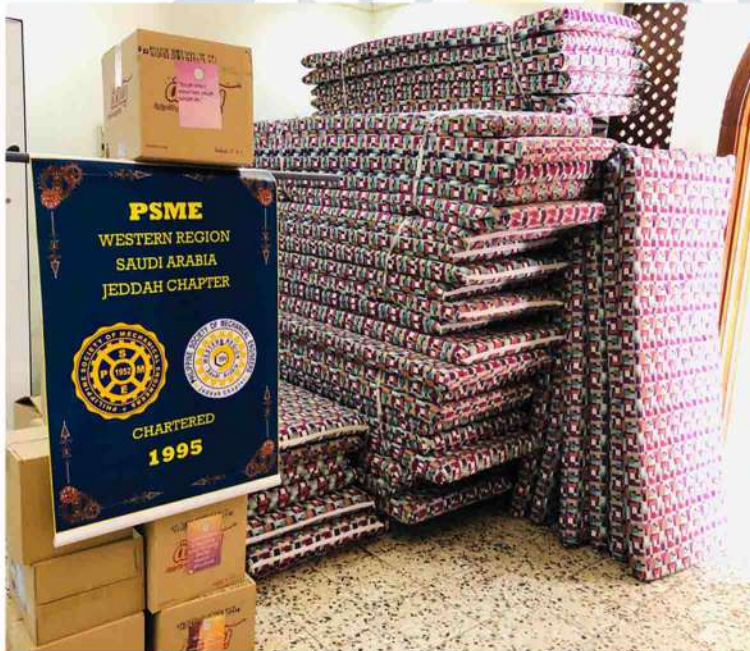
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OUTREACH PROGRAM FOR PCGJ-BAHAY KALINGA

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2020 1st Virtual Plant Tour and Election for 2021 B.O.D.'s

Plant Location: Reza Hygiene Inc. ; 1st Jeddah Industrial City
Oct. 2, 2020 - Friday, 09:00 am - 03:00 pm – Saudi Arabia Time
via **zoom**

Plant Tour to be presented by: Engr. Abdullah Ezmirli

FOR INQUIRIES, YOU MAY CALL
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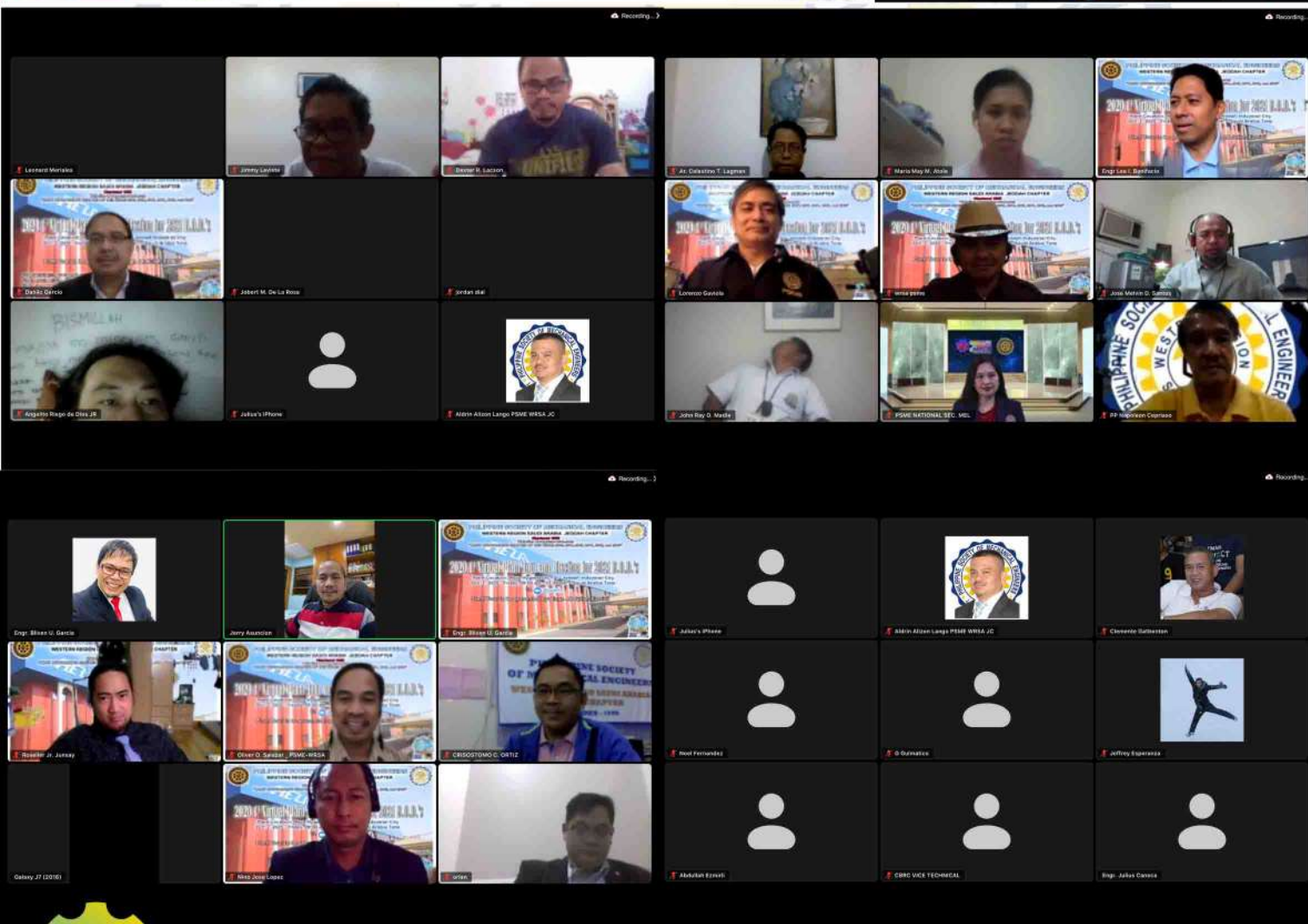
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EVALUATION OF VARIOUS TECHNOLOGIES ON ATMOSPHERIC WATER GENERATORS

By: Napoleon M. Cepriasos, FPSME, PME

1.0 Introduction

Water is an important element in domestic, industrial and agricultural use. Current technologies to produce water, particularly, in the Middle East consumes a great amount of energy derived from conventional means, such as fossil fuel. Renewable energy sources are just beginning to be considered and is not so common at this time.

An atmospheric water generator (AWG) is a device that extracts water from humid ambient air. Water vapor in the air can be extracted by condensation (cooling the air below its dew point), exposing the air to desiccants, or pressurizing the air. Unlike a dehumidifier, an AWG is designed to render the water potable. AWGs are useful where pure drinking water is difficult or impossible to obtain, because there is always a small amount of water in the air that can be extracted. The two primary techniques in use are cooling and desiccants.

The extraction of atmospheric water may require a significant input of energy. Some AWG methods are completely passive, relying on natural temperature differences, and requiring no external energy source. Biomimicry studies have shown the beetle *Stenocara gracilipes* has the natural ability to perform this task.



The Namib desert beetle gathers water from fog that condenses on its bumpy back.

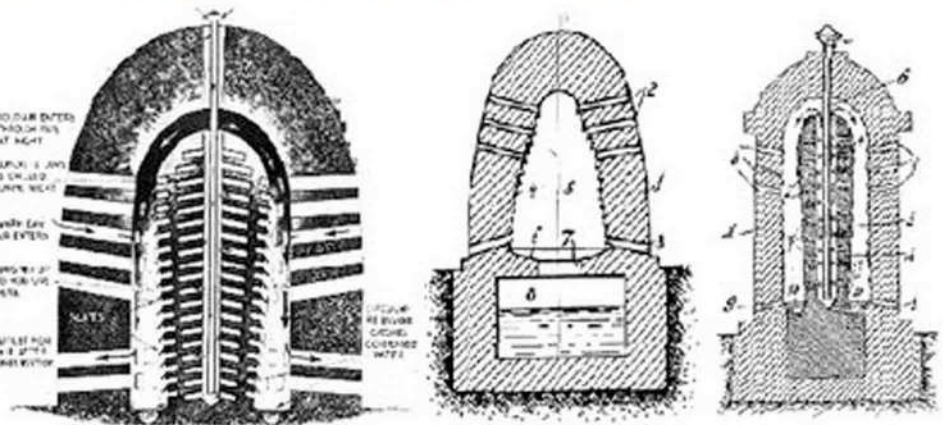
The technology to produce water from by extracting it from air is not new and been done in experiments worldwide for decades now. The process involve is the principle of simple condensation. Though it is simple, the theory involved is complex.

Currently, there are some models of atmospheric water (or, water-from-air) generators commercially available for home, office or community use, with the aid of refrigeration (heat pump) and uses some amount of electricity. Many atmospheric water generators operate similar to dehumidifiers. The rate of water production depends on the ambient temperature, humidity, the volume of air passing over the coil, and the machine's capacity to cool the coil.

This evaluation would deal with condensation technique using the temperature variation of soil below the ground with the aim of using it for commercial irrigation or drinking water production. Subsurface irrigation schemes, in general, are considered more water efficient since surface evaporation is reduced, harvesting becomes easier, and soil surface crusts are prevented.

2.0 Brief History

The procedure of harvesting water from air is not new. In the past, the Greeks have built heavy air wells (or, condensation wells) made of stone. On the wells, the moist air was cooled down to obtain water. These wells were not only functional, but were also artistic, often with dovescots along the top. With the excrement of the pigeons and the water produced, plants were fertilized and watered.



King Herod built the most famous condensation well in Masada. In his time, Roman baths were very fashionable. Besides the great baths and pools for the people, a condensation well supplied the King's bath with water. Calculations have shown that these wells and the condensate water around the rock of Masada obtained a few thousand cubic meters of water a year, enough to survive a siege.

The Incas used the technique of collecting dew and channeling it to cisterns for later distribution. Historical records indicate the use of water-collecting fog fences. These traditional methods were completely passive, requiring no external energy source other than naturally occurring temperature variations.

3.0 Technologies, Experiments and Studies

3.1 AirDrop Irrigation System

The Airdrop water harvester (later known as AirDrop Irrigation System) was designed by Edward Linnacre and won the James Dyson Foundation Award in Melbourne, Australia in 2011. This was a simple, low-tech device driven by wind power or solar panels.

AirDrop uses a turbine to push hot air into an underground tubing filled with copper wool to maximize surface area. The air cools to the temperature of the surrounding soil, causing moisture it contains to condense in the piping, from where it gravitates into a tank. Water from the tank is supplied to plants via a sub-surface drip irrigation system. After passing through the condenser, the dry air returns to the atmosphere.

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The modified AirDrop system includes an LCD screen that displays tank water levels, pressure within the system, solar battery life and general system health. The wind-powered turbine that drives the system is designed to maximize air intake and to switch to electricity from a battery when there is not enough wind to drive it. The battery, which is charged by a small solar panel, also powers the low-pressure submersible pump that supplies the irrigation system with water from the condensate tank. The pump is fitted with a float switch to cut power to the pump when water levels are low.



AirDrop device can harvest 11.5 mL of water per cubic meter of air that passes through it. The initial prototype was able to produce a liter of water per day. Increasing the scale and further development and refinement of the design are expected to increase the yield substantially.



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3.2 The Konstantin Avdienko Model

In 2015, Konstantin Avdienko, an 18-year-old student at the University of San Diego, invented a “water condenser” as part of the school’s annual Changemaker Challenge. The system concept was similar to the earlier version from Australia.



The device uses a solar-powered fan to pull air through a PVC pipe into the ground, where copper wiring cools moisture in the air until it condenses into water, which is then collected in a container beneath the ground. Avdienko got the idea while looking at condensation on a drinking glass. The simple device collects almost half a gallon of dew in one day. Plans to refine the idea and create updated models was envisioned. The invention received an offer from a local technology company to fund its completion and development.

3.3 WaterSeer System

In 2016, VICI labs in collaboration with UC Berkeley and the Peace Corps Association have developed WaterSeer, a wind-powered device that can be installed anywhere. It can produce 11 gallons clean drinking water per day using air.

WaterSeer extracts water from the surrounding atmosphere. The device absorbs the moisture from the air, condensing it into water by using the temperature difference between the aboveground turbine and the collection chamber installed underground. The water is brought to the surface using a simple pump-and-hose system.



WaterSeer is a green, low maintenance, and mobile water solution for any individual or community. It provides an endless supply of pure life-giving water that is cleaner than tap water. Per online info, manufacturing started in July 2018 and adjustments were done from the prototype for performance refinements and technical modifications to improve sustainability and affordability.

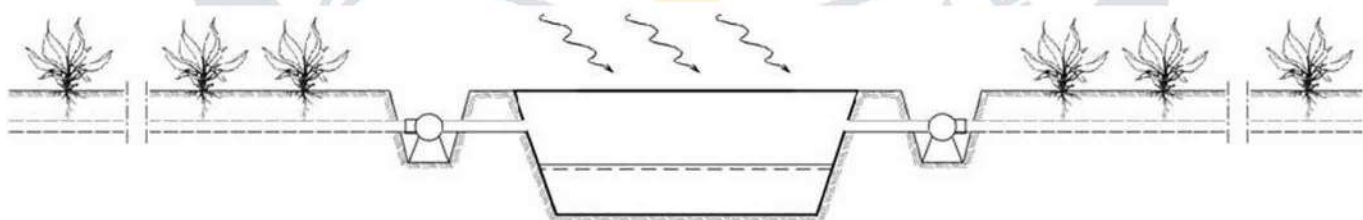
3.4 Condensation Irrigation and Solar Desalination

The combined condensation irrigation (CI) and solar desalination system study was derived from the 2012 doctoral thesis of Jenny Lindblom at the Lulea University of Sweden with following objectives: a. Study the physics relating to mass and heat transfer in the soil and irrigation pipes; b. Develop a model for simulating CI systems based on relevant physics; c. Determine the irrigation potential of CI systems; and, d. Analyze the specific factors influencing the irrigation yield in CI.

Simulations with theoretical facilities built in Malta and Turkey yielded the following results:

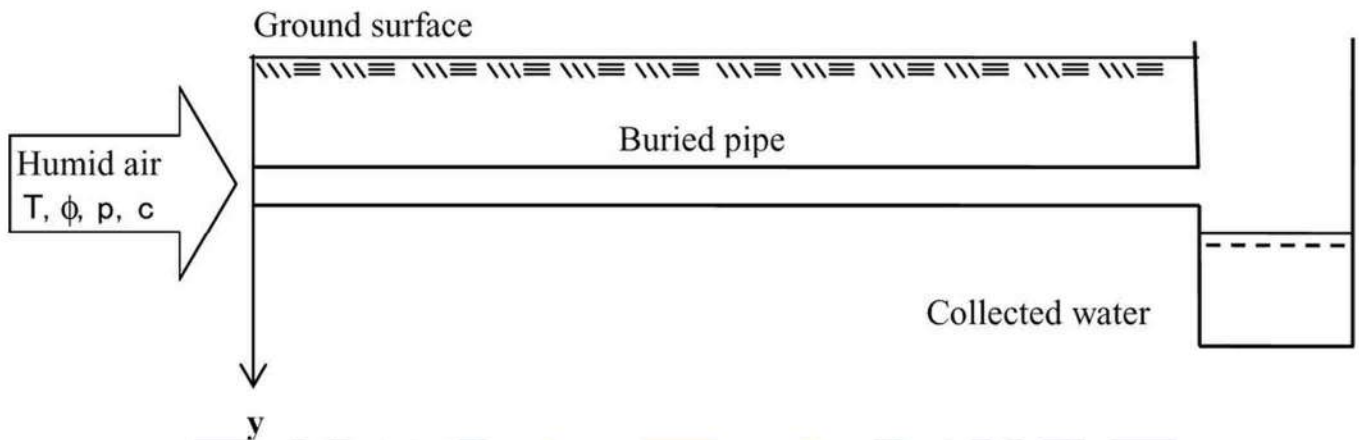
- The irrigation rate under steady operation was 3.44 mm/d and the root water uptake was 19.8% of the supplied water. By lowering the inlet air temperature, the crop could be placed closer to the pipes without the roots being overheated. The irrigation rate obtained by decreasing the inlet air temperature from 70°C to 50°C, and reducing the pipe spacing from 1.2 m to 0.6 m, was 3.00 mm/d. The root water uptake was, however, increased to 48% of the irrigation, resulting in a higher root water uptake.
- By replacing the drainage pipes in the reference CI system with plain pipes, freshwater could be collected at the pipe endings. Two scenarios of this system were simulated. In the first, the same inlet parameters as the irrigation system were used. Due to reduced heat release to the ground, the vapor condensation inside the pipe was 2.7 kg/m/d along the 50 m long pipe. To improve the reference system, the pipes were placed at a distance of 0.4 m. The water production was then 2.4 kg/m/d, which meant an increased water production per unit land area.
- A second scenario of the water production system was studied where cooler air with high humidity was taken from other sources than a solar still, such as warm air from the sea. Simulations using 40°C and 50°C humid air at the inlet, indicated a potential water yield of 1.75 and 3.50 kg/m/d, respectively, over the first ten meters of pipe.

Condensation Irrigation (CI) is a combined system for desalination and irrigation. The desalination of saline water is designed as an air humidification dehumidification process, in which ambient air is humidified inside solar stills. The warm and humid air is led from the stills into underground horizontal pipes, where it is cooled by the surrounding soil and vapor precipitates as freshwater.



For irrigation water production

If the pipes are perforated, the formed water percolates into the soil around the pipe as irrigation water. Humid air also leaks through the perforations and transports towards the ground surface. Some of the vapor contained in that air condenses in the soil and contributes to irrigation.



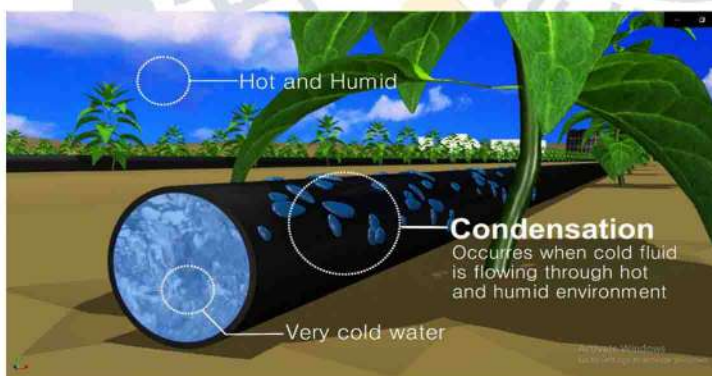
For drinking water production

In a pipe without perforations, the formed freshwater can be collected at the pipe endings and used for drinking. A small inclination towards the pipe outlet is then necessary. As the airflow is dehumidified in the pipes, the surrounding soil gradually becomes heated, thereby reducing the water production efficiency. To decrease the ground temperature, cold ambient air is circulated through the pipe system at night.

The construction of a CI system requires knowledge and understanding of the process governing the water production and irrigation efficiency. Although the principle behind condensation irrigation is very simple, the theory involved is complex. To correctly anticipate the heat and mass transfer in the ground, transport of air, vapor, water, and heat, including phase changes, must be taken into account.

3.5 Irrigation by Condensation

Irrigation by Condensation (IBC) is a patented technology of Roots Sustainable Agricultural Technologies of Israel and currently being marketed by their office in Australia. The technology is a variance from the below the ground technology by using very cold (or chilled) water inside the pipe and condensation takes place outside the pipe surface directly irrigating the plant roots.



Chilled water, stored in insulated water tank, is pumped through pipes throughout the crop. The cold water condenses moisture in the air on the outside of the pipes, which drips onto the plants. Irrigation is usually at night as humidity is higher, even in the desert. At daytime, the solar power charges a small battery to circulate the cold water in the tank. It irrigates plants with cold condensate, which reduces the evaporation during the day, therefore less water is needed to irrigate the plants as opposed to other irrigation systems. Shorter pipe run is recommended as water heats up in long distance piping.

Power source could be solar, wind or electricity (or combination) depending on availability at the location.

4.0 Results and Findings

The results and findings were not encouraging on technologies presented utilizing the temperature variance of soil below the ground. Further experimentation could be developed from this concept. The AirDrop System was not commercially produced or promoted and could not find any update till this date. Some variance using the same concept were done in various countries, but none has been produced commercially.

The Konstantin Avdienko Model was also not commercially produced despite the promise of financial support for its development. The WaterSeer was eventually manufactured in 2018 with news of deliveries in the US and Mexico. Further search revealed complains from funder who did not get the promised device and not refunded their money. Apparently, it seems to be a scam that solicited funds via crowd funding. None of their website is operational now.

The condensation irrigation (CI) and solar desalination was thoroughly studied with some limitations and looking forward for future developments. In performed studies, the main focus was on mass and heat transfer in the soil-pipe system. The influence of crop root water uptake, water exchange at the soil surface due to solar radiation, wind, etc. have to some extent also been examined. Detailed studies on pipe condensation have been left to future work. The manner in which the air is heated and humidified prior to entering the subsurface irrigation pipes greatly affect the efficiency and economic feasibility of the CI system. This part of the system has been disregarded in the thesis.

In 1985, a Swiss company Ingenieurbüro Ruess und Hausherr constructed a CI pilot plant in Margrethen, Switzerland where seawater was evaporated in plastic tubes and condensation occurred in buried drainage pipes. This system halved the water consumption of tomato plants. The pilot project lasted 4 years. They found that subterranean irrigation with condensed water vapor was more effective than the sprinkler or drip irrigation. No further development was found after this pilot project.

The IBC has shown a promising development for commercial scale operation. It is basically a chilled water system, hence, refrigeration is involved. The proof of concept happened during a rainless summer and autumn at the experimental farm in Beit Halevy, Israel in 2017. The IBC technology sustained the growth of lettuce, spinach, and tomatoes with only condensed moisture from the air, with no additional water used for irrigation from any water source. This technology was tested with various plants in Perth, Australia. Currently, it is being promoted for commercial production and application in mass scale.

5.0 Conclusion

Condensation irrigation (CI) is a promising technology as an alternative source of water for irrigation or drinking purposes. The various studies done so far, including pilot projects, has to be revisited. Since 2012, there was no further news on its development. The biggest challenge on this system is the temperature build-up of the soil below the ground. The amount of heat injected from the surrounding atmosphere is higher than the soil heat dissipation capacity. Hence, production of condensate is greatly affected. The lower night temperature is not sufficient to regain the heat dissipation capacity of the soil.

The IBC system is in full-scale development with patents applied and approved in various countries. Successful commercial irrigation projects with this system remains to be seen. Combining with the company's Root Zone Temperature Optimization (RZTO) technology, crop production is optimized based on pilot projects done.

With good knowledge of thermodynamics, psychrometry, soil engineering, heat transfer, renewable energy, etc..., solutions to tackle some issues in its development for large-scale application is an engineering challenge for everyone.



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About the author:

Napoleon M. Cepriaso is a Professional Mechanical Engineer, a Fellow Awardee of the Philippine Society of Mechanical Engineers (PSME), and a 2-time TOME Awardee. He is currently the Senior Project Manager of EgPhil Solar and Renewable Energy Solutions, Jeddah, Saudi Arabia. EgPhil Solar and Renewable Energy Solutions is a provider of solar and energy efficiency solutions offering services supplementing businesses with the most up-to-date innovative approaches in the application of solar and other renewable energy. EgPhil aims to achieve feasible solar energy solutions for its clients – for them to strengthen their company's image, reduce operating costs, and carbon footprint. Products include daylighting, LED lighting, natural ventilation, solar heating system, atmospheric water generator, photovoltaic systems, and solar lighting. Egphil offers design and consultation, supply and installation, operation and inspection, and support and maintenance.



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THROUGH THE YEARS



PHILIPPINE SOCIETY OF MECHANICAL ENGINEERS

**Western Region Saudi Arabia
Jeddah Chapter
Chartered 1995**

The Philippine Society of Mechanical Engineers - Western Region Saudi Arabia Jeddah Chapter (PSME-WRSA) was started and headed by Nildo K. Tan, Jr., FPSME, PME, 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.

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.
- A Presidential Award to PSME-WRSA from PSME National's 46th annual convention 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 PSME-WRSA from PSME National's 47th Annual National Convention on October 22, 1999.



THROUGH THE YEARS



PHILIPPINE SOCIETY OF MECHANICAL ENGINEERS

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 in 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 got 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 was presented Plaque of Recognition at 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 was presented a Plaque of Recognition at PSME National's 53rd Annual National Convention on October 19, 2005.



THROUGH THE YEARS



PHILIPPINE SOCIETY OF MECHANICAL ENGINEERS

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 garnered 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 got 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. 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: **P**lanned purposely, **P**repared prayerfully, **P**roceeded positively and **P**ursued 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



THROUGH THE YEARS



PHILIPPINE SOCIETY OF MECHANICAL ENGINEERS

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 got the Fellow Award.
- 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.
- The enormous success beyond the expectation for PSME-WRSA Jeddah Chapter continued to press forward.

2012

- Pres. Napoleon M. Cepriaso, PME lead 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, ME was one of the most active officer who served the chapter. Vice president for the year 2011 and 2012, and two-time convention chairman. Offered the lecture room of New Al Jedaani Hospital for the chapter's technical seminars and other activities. Past President PSME-WRSA Toastmasters Club and Past Area Governor.
- PSME-WRSA Toastmasters club mentored Jotun Toastmasters Club and continued the Youth Leadership Training Program to International Philippine School in Jeddah Al Hekma International School.
- Pres. Jimmy with Membership Director Jemuel B. Esguerra, PME meet 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.



THROUGH THE YEARS



PHILIPPINE SOCIETY OF MECHANICAL ENGINEERS

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.
- Continued support to PSME-WRSA Toastmasters Club.
- 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 Crisostomo C. 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, ME 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, FPSME, PME ; Project Management Basics for Engineers and Technicians by Napoleon M. Cepriaso, FPSME, PME; Solar Energy System Application by Engr. Yamen Mohamed Samir Al Akeel of ICONS;
- National Awards garnered: Fellow Award for Wilfredo R. Ruiz, FPSME, PME ; 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.
- Gained CPD approval from PRC on various technical seminars conducted by PSME-JWR. CPD points was a mandatory requirement in PRC ID renewal.
- 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; PPO-WRSA bowling tournament; Meeting with DOLE-OWWA at PCG; Welcome dinner for the new Consul General hosted by PPO-WRSA; Independence Day celebration; Professional Licensure Examination; Reception Dinner with other Fil Org at Hotel Intercontinental; and, assistance to the examinees of the Special Licensure Exams.
- 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.



THROUGH THE YEARS



PHILIPPINE SOCIETY OF MECHANICAL ENGINEERS

2019

- Engr. [†]Noel S. Bitera, PME became the 4th President of PSME-JWR but has tendered his resignation from the position effective March 01, 2019 to take rest due to health condition and to reduce stress for his healing process. Engr. Noel has been on medication from the last two months of 2018. 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 06, 2019, 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 09, 2019 the formal letter regarding the approval of the resolution was received.
- Conducted the Technical Seminar on February 15, 2019 regarding "Communication, Leadership Skills & Wealth Management" with DTM Joey Villanueva as our Technical Speaker which was approved by PRC with 32 CPD points.
- On March 22, 2019, the Chapter conducted the First PME, AER, AET Orientation Seminar facilitated by Lorenzo O. Gaviola, ME, Crisostomo C. Ortiz, PME, Lee I. Bonifacio, ME.
- June 29, 2019-conducted First Plant Tour regarding "Familiarization & observation of refrigerator manufacturing process" at Saudi Refrigerator Manufacturing Company Factory, Jeddah, Saudi Arabia.
- MYGMM & Technical Seminar regarding "Basic Design of Firefighting System (Wet Pipe Sprinkler) was conducted by Engr. Roseller A. Junsay Jr. last July 26, 2019 at Saudi Refrigerator Manufacturing Company Factory, Jeddah, Saudi Arabia.
- September 19-20, 2019, we conducted "Thanksgiving and Get-together" at Al Qattan Village Beach Resort highlighted by the "Last Toast" for the PSME-JWR Charter President, Ruben B. Serrano, PME.
- October 4, 2019, conducted Plant Tour at Friesland Campina Middle East Factory regarding "Milk Production Process".
- Our Chapter have actively participated in different activities of the Philippine Professional Organization-Western Region Saudi Arabia (PPO-WRSA); Attended 17 meetings; On August 9, 10 & 11, 2019, we have assisted in the SPLE 2019 Registration of Examinees at the PCGJ and at the examination Venue at Ibn Sina Medical College; On August 12, 13, & 14, 2019, we have assisted in the conduct of SPLE 2019 at Ibn Sina Medical College; Participated in the Coastal Clean Up Drive at Bohayrat, Jeddah last October 18, 2019 with the theme "Taking Action for a trash free environment".
- 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, 2018; Attended the Anti-Terrorism Information Campaign on June 15, 2019 conducted by delegates from Philippine Embassy; Attended the 121st Anniversary of Philippine Independence on June 17, 2019 at the Hotel Intercontinental, Jeddah; Attended the HOPPA or the Huwarang OFW Pamilyang Pilipino Award on November 8, 2018.
- 2019 PSME-WRSA JC achievers.

Chapter First Batch ASEAN Engineers

1. Engr. Willyn d. Espino
2. Engr. Lee I. Bonifacio
3. Engr. Joel Amos A. Acosta
4. Engr. Liza L. Acosta

2019 SPLE Passers for Master Plumber

1. Engr. Maria May M. Atole
2. Engr. Napoleon M. Castañeda



2021 EXECUTIVE OFFICERS AND BOARD OF DIRECTORS PHILIPPINE SOCIETY OF MECHANICAL ENGINEERS



LEE I. BONIFACIO, RMEE, MA, AE
CHAPTER PRESIDENT



ROSELLER A. JUNSAY Jr., RMEE
EXECUTIVE VICE PRESIDENT



NIÑO JOSE A. LOPEZ, RMEE
VP INTERNAL AFFAIRS



JOSE MELVIN D. SANTOS, RMEE
VP EXTERNAL AFFAIRS



MARIA MAY M. ATOLE, RMEE, RMP
SECRETARY



JOBERT M. DE LA ROSA, RMEE
TREASURER



LEONARD P. MERIALES, RMEE
AUDITOR



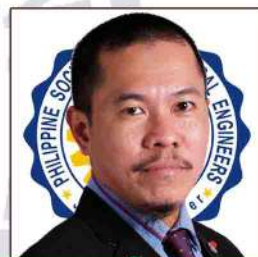
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PUBLIC RELATION
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MEMBERSHIP
DIRECTOR



NAPOLEON M. CASTAÑEDA, RMEE, RMP
TECHNICAL AFFAIRS
DIRECTOR



JULIUS CAÑECA, RMEE
PROFESSIONAL
ENHANCEMENT DIRECTOR



BLIVEN U. GARCIA, RMEE
INFORMATION TECHNOLOGY
DIRECTOR



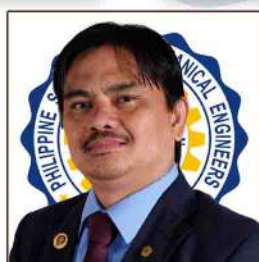
NORIEL J. NOLLORA, RMEE
CODE OF ETHICS
DIRECTOR



ORLAN C. MORIONES, RMEE
PLANT TOUR DIRECTOR



JOSEPH V. PANGANGAAN, RMEE
SPORTS DIRECTOR



ALDRIN ALIZON D. LANGO, RMEE
IMMEDIATE PAST PRESIDENT





PSME-WRSA MEMBERS LIST



PHILIPPINE SOCIETY OF MECHANICAL ENGINEERS

Life Members

Amos Joel A. Acosta ME 0046128	Bliven U. Garcia ME 0078329	Aldrin Alizon D. Lango ME 0059615	Miller F. Narvas ME 0061496
Badroden A. Balindong ME 0056194	Julius Q. Garcia ME 0063282	Jaime L. Leviste ME 0070069	Crisostomo C. Ortiz PME 0005484
Julius Ceisar P. Castaño ME 0071589	Lorenzo O. Gaviola ME 0032818	Fernando C. Liao ME 0057155	Rainier P. Patawi ME 0057160
Napoleon M. Cepriaso PME 0003704	Greg A. Gulmatico ME 0044190	Rodrigo C. Lofamia ME 0072123	Wilfredo R. Ruiz PME 0003728
Jeffrey C. Esperanza ME 0048161	Roseller A. Junsay Jr. ME 0078276	Rey Anthony D. Mejia ME 0038987	Ahmed L. Selim ME 0071585
Noel L. Fernandez ME 0044181	Dexter R. Lacson ME 0061376	Daniel C. Mendoza ME 0072180	Jobert M. De la Rosa ME 0053289

Regular Members

Gerry E. Abellana ME 0069587	Eliser R. Efa ME 0021058	Leonard P. Meriales ME 0058251	Oliver O. Salazar ME 0047107
Maria May M. Atole ME 0085384	Wilynn D. Espino ME 0083071	Orlan C. Moriones ME 0045317	Sherwin D. Solis ME 0055728
Benjamin O. Bacalso Jr. ME 0071416	Conrado M. Go Jr. ME 0071411	Alfredo R. Munio ME 0075744	Armando C. Urbana ME 0056879
Lee I. Bonifacio ME 0055977	Jerry D. Gonzales ME 0046468	Noriel J. Nollora ME 0060366	Mohamar P. Yusoph ME 0055170
Melchor B. Campo ME 0053257	Ronald G. Gultiano ME 0044512	Mary Ann C. Palacio ME 0070300	Thomas II M. Zulueta ME 0059382
Julius M. Cañeca ME 0061336	Niño Jose A. Lopez ME 0051994	Joseph V. Pangangaan ME 0078277	Dioscoro T. Timtiman ME
Napoleon M. Castañeda ME 0051317	John Ray O. Madla ME 0086168	Arrniel Rae M. Ramas ME 0072582	
Edwin P. Gonzales ME	Donald B. Makalintal ME 0052187	Cristino E. Rambuyon ME 0043610	
Antonio M. Desabille Jr. ME 0063446	Clarisa C. Manalo ME 0055762	Jose Melvin D. Santos ME 0058906	

Associate Member

Cornelio L. Baguan

Edgar B. Madiaga

Mark Angelo T. Puyawan

Julian Jr. A. Granada

Chris Alphy D. Ortua

Antonio Elmer L. Quintilla



ASEAN ENGINEERING REGISTER



PHILIPPINE SOCIETY OF MECHANICAL ENGINEERS

ENGINEERING REGISTERS

**ASEAN ENGINEERING REGISTERS,
1998 APEC ENGINEERS REGISTER,
2000/2003 ASEAN CHARTERED
PROFESSIONAL ENGINEERS
REGISTER, 2005/2013**

MEMBER ECONOMIES

ASEAN

- Brunei
- Cambodia
- Laos
- Malaysia
- Myanmar
- Philippines
- Singapore
- Thailand
- Vietnam

APEC

- Australia
- Canada
- China
- Hongkong SAR
- Indonesia
- Japan
- Korea
- Malaysia
- New Zealand
- Philippines
- Singapore
- Russia
- Thailand
- USA



Asia-Pacific Economic Cooperation

ACP

- Brunei
- Cambodia
- Indonesia
- Laos
- Malaysia
- Myanmar
- Philippines
- Singapore
- Thailand
- Vietnam

Various Grade of ASEAN Engineering Registers

1. ASEAN Engineer
 2. ASEAN Engineering Technologies
 3. ASEAN Technician Potential Competence to be admitted to the Registry
- An understanding of the engineering professional and of the registrant's responsibility to their colleagues, employees or client, to the community at large and to the environment
 - A throughout knowledge of the principles of engineering, based on mathematics, physics and informatics, appropriate to the engineer's discipline
 - A general knowledge of the use of technologies relevant to the engineer's field of specialization
 - Use of technical information and statistics
 - The ability to adopt and use theoretical models from which the behavior of the physical world can be predicted.
 - A capacity to exercise independent technical judgements through scientific analysis and synthesis
 - Knowledge of industrial relations and the principles of management, taking into account technical, financial and human considerations
 - Skills in communication, both oral and written (the ability to write reports)
 - An ability to apply the principles of good design in the interest of ease of manufacturing, maintenance and quality at economical cost
 - An active appreciation of the progress of technical changes and of the continuing need not to rely solely on established practices, but to cultivate an attitude of innovation and creativity in the exercise of the profession of engineering
 - An ability to assess conflicting and multifarious factors (e.g. cost, quality, safety and time scale) both in the short and long terms and to find the best engineering solutions
 - An ability to provide for environmental considerations
 - An ability to work on multi-disciplinary projects
 - The capacity to mobilize human resources
 - Fluency in one other language, apart from the mother tongue



ASEAN

Chartered Professional Engineering
Coordinating Committee

What is an Engineering Registry?

An agreement in place between a number of APEC and ASEAN countries for the purpose of recognizing "Substantial Equivalence" of professional competence in Engineering.

Aims of the Registry

To establish a framework of mutual recognition of qualifications in order to allow engineers who wish to practice outside their home country to carry with them a guarantee of ability.





PHILIPPINE SOCIETY OF MECHANICAL ENGINEERS

“Mobility of Engineers and Professional Engineering Registers”

RICHARD R. GARCIA-PECE, APEC ENG, ACPE, FACPE, AE
PTC MENA Deputy in the Western Region

What is Mobility?

The movement around the world of engineering professionals, capable of independent practice having met the requirements for licensing or registration.

Greenwood P. (2011)

- ☑ Cross-Border, Real or Virtual
- ☑ Intra-corporate transfers
- ☑ Natural Person's movements

Why Mobility?

1. Free Trade Agreements (FTA) involving trade in goods and services will be in effect:
 - ☑ ASEAN Economic Community 2015
 - ☑ PHIL-JPEPA, Other FTA's
2. Services always include engineering services and movement of natural person
3. Operationalizing FTAs on Services require mechanisms for recognition of qualifications : **ENGINEERING REGISTRY**

Why need to be in the Engineering Registry?

1. Bigger market for expertise
2. Better employment prospects
3. Greater avenue for sharing of knowledge, expertise and technology
4. Increased related business potential
5. Wider networking and strategic alliances
6. More potential for research and development

Engineering under ASEAN Economic Community (AEC)

1. Free flow of trade and services
2. Engineering Services under Mutual Recognition Arrangement signed in December 2015
3. Recognition of Qualifications as a pre-conditioned to Mobility
4. To be able to provide services under any of the MRA, he/she must be recognized and registered under the said MRA

Where to apply?

Philippine Technological Council (PTC) is the umbrella organization of all integrated engineering professional organizations in the country that works for International recognition of all Filipino Engineers qualifications at both Entry Level and Professional engineer levels.

Grades of Membership and Engineering Titles

- A. ASEAN Engineering Register
 - I. ASEAN Engineers (ASEAN Eng)
 - II. Associate ASEAN Engineers (AAE)
- B. ASEAN Engineering Technologies Register
 - I. ASEAN Engineering Technologies (AET)
 - II. Associate ASEAN Engineering Technologies (AAET)
- C. ASEAN Technician
 - I. ASEAN Technician (AT)
 - II. Associate ASEAN Technician (AAT)

Are We Ready for Competition?



Engineering Registries

ASEAN ENGINEERING REGISTER, 1998

APEC ENGINEERS REGISTER, 2000/3

ASEAN CHARTERED PROFESSIONAL ENGINEER REGISTER, 2005/13



MEMBER ECONOMIES		
ASEAN ENGR	APEC ENGR	ACP ENGR
BRUNEI	AUSTRALIA	BRUNEI
CAMBODIA	CANADA	CAMBODIA
INDONESIA	CHINA	INDONESIA
LAOS	HONGKONG SAR	LAOS
MALAYSIA	INDONESIA	MALAYSIA
MYANMAR	JAPAN	MYANMAR
PHILIPPINES	SOUTH KOREA	PHILIPPINES
SINGAPORE	MALAYSIA	SINGAPORE
THAILAND	NEW ZEALAND	THAILAND
VIETNAM	PHILIPPINES	VIETNAM
	SINGAPORE	
	RUSSIA	
	THAILAND	
	USA	
	TAIWAN	
	PERU	

Invites You To





FAREWELL OUR BELOVED ELMER



PHILIPPINE SOCIETY OF MECHANICAL ENGINEERS

PAALAM PINUNONG MAGINOO EBQ

Ang buhay sa mundo ay pansamatala
Pahiram sa atin ng Diyos na lumikha
Sa takdang panahon tayo'y aakayin
Pabalik sa kanyang mapagpalang piling

Sa mundo ng PSME WRSA na iyong kapamilya
Lungkot at pagkabigla ngayo'y nadarama
Mabigat sa aming puso at isipan
Ang biglaan mong paglisan at paalam

Mananatili sa aming puso't diwa
Pinamalas mong gilas ng isang pinuno
Mabagsik man ang hamong sinasagupa
Hinaharap mong mahinahon at maginoo

Ang masayahin mong pakikipagkapwa
Mananatili sa aming alaala
Palangiti mong salubong at pagbati
Sa puso't isip nami'y mamamalagi

Paalam sa ngayon at
nawa'y lumigaya
Sa kahariang wala
ng pagdurusa
Sa piling ng ating
Diyos na siyang
may akda
Nang buhay ng tao
dito sa lupa

ELMER B. QUANICO, ME

1961 - 2020

2017 Secretary – PPO WRSA
2017 Chapter President – PSME JWR
2016 Executive Vice-President – PSME JWR
2015 Chapter Treasurer – PSME WRSA JC
2014 Chapter Treasurer – PSME WRSA JC





**FAREWELL OUR
BELOVED JIMMY**



PHILIPPINE SOCIETY OF MECHANICAL ENGINEERS

**Paalam PP Engr. Jimmy L. Leviste
Pinunong May Agimat**

Ang samahan ng PSME sa iyo ay nagpupugay
Sa ipinamalas mong tikas at tibay
Igupo ka man ng iyong karamdaman
Isusulong, adhikain ng samahan

Taglay mong agimat nagbibigay saya
Sa mga taong iyong nakakasama
Kwento at pasakalye mong palabiro
Nagbibigay tuwa sa 'ting salsalo

Ngunit ang buhay sa lupa'y sadyang hiram
Biyayang kaloob pansamantala lang
Ang tamang panahon ng pamamayapa
Ang ating Lumikha ang siya lang mayakda

Aming mga puso'y nagdadalamhati
Nararamdamang lungkot di maikubli
Sapagkat tanging alala na lamang
Ang bukod tanging sa amin maiwan

Harinawa mga anghel sa himpapawid
Akayin ka paakyat patungong langit
At mula sa kaharian ng Panginoon
Mga naiwan mo'y gabayang bumangon

.....AADL

ENGR. JAIME L. LEVISTE

2009-2010 – PSME-WRSA Toastmasters Club President

TMI District 79 - Area 28 Governor

2013 - PSME-WRSA JC CHAPTER PRESIDENT

2014 - PPO WRSA PRESIDENT

**2016 - The Outstanding Mechanical Engineer
(Biomedical Engineering)**



SLEEPLESS NIGHTS



PHILIPPINE SOCIETY OF MECHANICAL ENGINEERS

Zoom Meeting

Recording... ||

Participants (14)

Find a participant

- Roseller Jr. Junsay (Co-host)
- Ibrahim (Co-host)
- John Ray O. Madla
- Niño Jose A. Lopez
- Oliver O. Salazar _ PSME-WRSA
- Orlan Moriones
- Jobert M. De La Rosa
- Lee
- Leonard Meriales
- Maria May Atole_PSME-WRSA
- Noriel Nollora

yes no go slower go faster more clear all

Invite Mute All

Mute Stop Video Security Participants Chat Share Screen Reactions More Leave

Windows taskbar: 10:52 PM 11/26/2020

Zoom Meeting

Recording... ||

Participants (11)

Find a participant

- JM Jose Melvin Santos (Co-host, me)
- wrsa psme (Host)
- Engr. Bliven U. GARCIA - PSME... (Co-host)
- John Ray O. Madla (Co-host)
- Lee (Co-host)
- NJ Niño Jose A. Lopez (Co-host)
- Jobert M. De La Rosa
- Oliver O. Salazar _ PSME-WRSA
- Leonard Meriales
- Maria May Atole_PSME-WRSA
- Orlan Moriones

yes no go slower go faster more clear all

Invite Mute All

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Windows taskbar: 10:03 PM 11/28/2020

"Building robust and resilient PSME-WRSA JC in response to extreme global challenge"





SLEEPLESS NIGHTS



PHILIPPINE SOCIETY OF MECHANICAL ENGINEERS



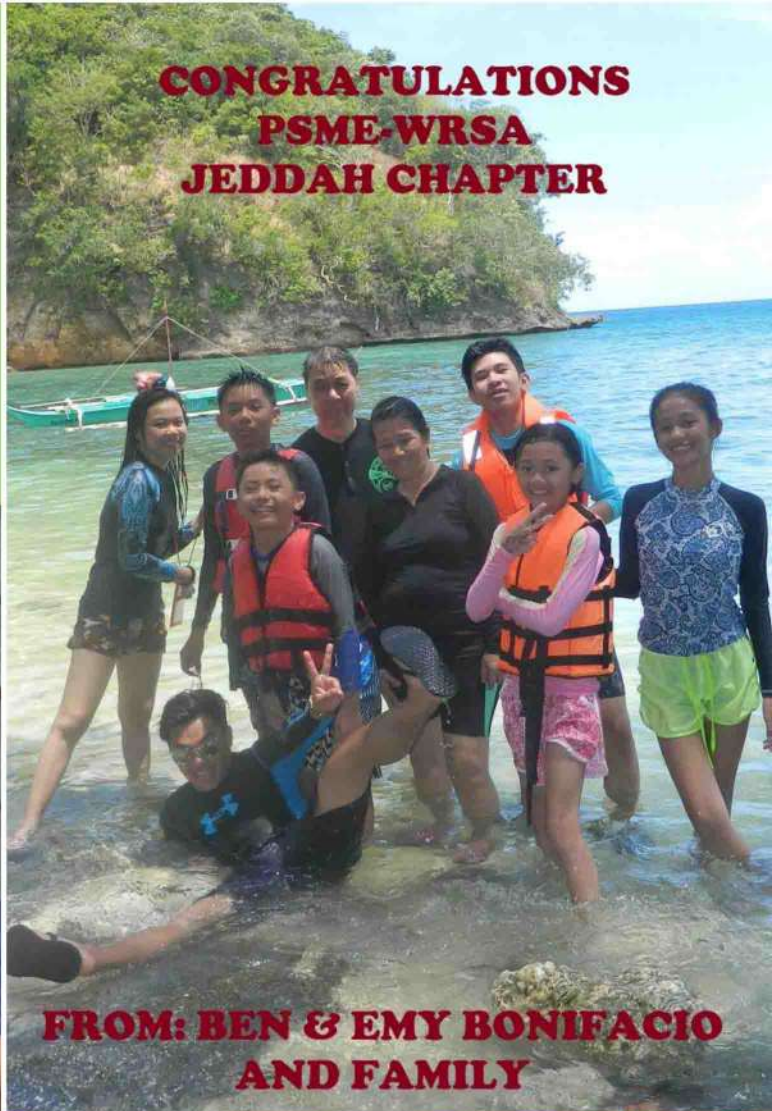
CONGRATULATIONS!!!

**PSME-WRSA
ON ITS
17TH ANNUAL
CONFERENCE**

From: Engr. Oliver Salazar and Family



**CONGRATULATIONS
PSME-WRSA
JEDDAH CHAPTER**



**FROM: BEN & EMY BONIFACIO
AND FAMILY**

**Congratulations PSME-WRSA JC
on its 17th Annual Conference**



Engr. Nap Castañeda & Family



**CONGRATULATIONS!!!
PSME-WRSA**

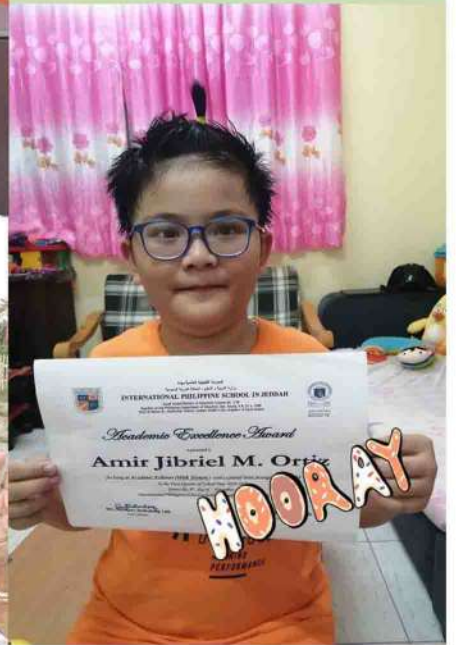
**ON ITS 17th
ANNUAL CONVENTION
FROM:**

**JOHN RAY O. MADLA, RMEE
AND FAMILY**



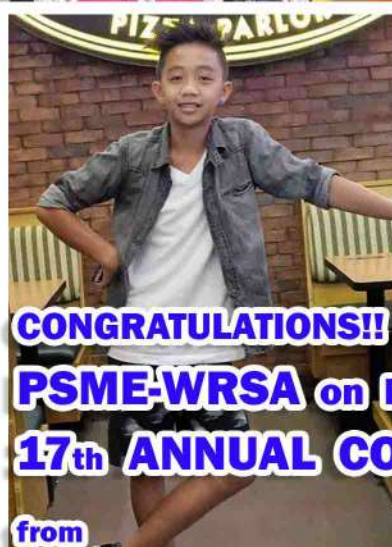
Congratulations,
PSME-WRSA
on your
17TH ANNUAL
CONFERENCE

Engr. Cris Ortiz & Family



CONGRATULATIONS
PSME-WRSA JC

FROM : ENGR. CAÑECA & FAMILY



from
Engr. Aldrin Alizon D. Lango and Family



CONGRATULATIONS TO THE PSME-WRSA,
JEDDAH CHAPTER FOR OUR 17TH ANNUAL CONFERENCE



GREETINGS FROM: BLIVEN GARCIA AND FAMILY



**Congratulations to PSME-WRSA
on its 17th Annual Conference
From Engr. Jobert De La Rosa & Family**

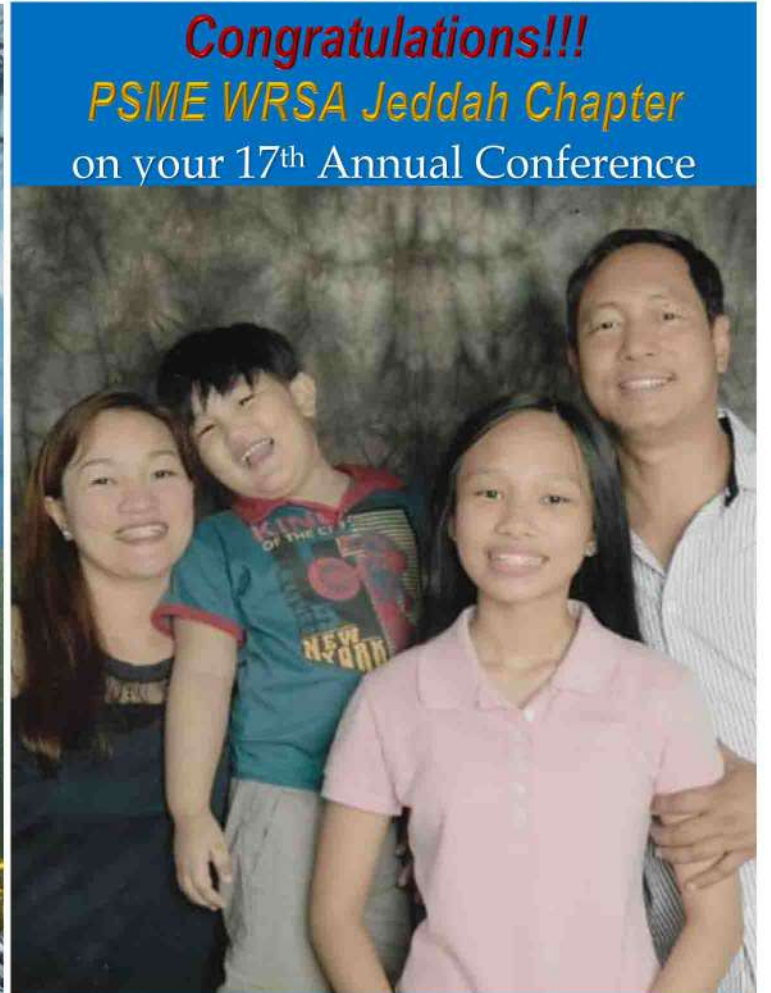


CONGRATULATIONS PSME-WRSA!!!

On its 17th Annual Conference
From: KAAU-WMC Team &
Maria May M. Atole, RMEE, RMP



**Congratulations to PSME-WRSA
on our 17th Annual Conference
Engr. Jomel Santos & Family**



**Congratulations!!!
PSME WRSA Jeddah Chapter
on your 17th Annual Conference**

Engr. Niño, Sherle, Claire, Rhieño

CONGRATULATIONS

PSME-WRSA JC!!!

From: Engr. Cañeca & Family



10:11



94%

**CONGRATULATIONS
PSME WRSA JC
ON ITS 17th ANNUAL
CONFERENCE**



FROM: JUNSAY FAMILY



**Congratulations to
PSME-WRSA Jeddah Chapter**

**On its 17th Annual Conference
Greetings from Moriones Family**

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