



Organized by:  
Philippine Society of Mechanical Engineers  
[www.psmenow.org](http://www.psmenow.org)

[www.philmach.com](http://www.philmach.com)

# 4th PHILMACH PHILIPPINE MACHINERY EXHIBITION

SMX Convention Center, Pasay City, Philippines October 22-25, 2014

Co-Located Events:



62nd PSME  
National Convention



**Heating, Ventilation, Air-Conditioning and Refrigeration Show.** An exhibition on Air-conditioners, Air Handling Units, Fans, PPU, Ducting, Compressors and other related equipment and services.



**Fire Protection & Security Show.**  
FIRE PROTECTION & SECURITY SHOW.

The event includes exhibition of fire detection and alarm systems, fire pumps, sprinklers, valves, fittings, instrumentation, fire protection designers, personnel protective equipment, CCTV and other security devices and services.



**The BOILER, PUMPS, VALVES and PIPES Show.** An exhibition on boiler and boiler auxiliary equipment, heat recovery equipment, heat exchangers, valves, control valves, boiler controls, burners, boiler tubes and services associated with boiler maintenance and repairs.



An exhibition of technological solutions, equipment and machinery involved in improving efficiency and effectiveness of water and waste water treatment systems.



**GREEN ENERGY TECHNOLOGY SHOW**  
An exhibition of eco-friendly technologies, renewable energy technologies like wind, solar, mini-hydro and biomass power plants, energy saving devices and systems for buildings and industries and energy saving consultants.



An exhibition on Metal working equipment, machine tools, CAD/CAM, metrology, mould and die, surface and heat treatment, subcontracting, foundry, precision engineering and

## PROCESSING & PACKAGING SHOW

Covering raw materials handling, solid and fluid handling, control and instrumentation, processing equipment, contract packing, manufacturing and packaging machinery, packaging materials and designs

## MAINTENANCE & RELIABILITY SHOW

Exhibition on: Computerized Maintenance Management System (CMMS), Oil Analysis and Conditioning, Filters, Maintenance Training Providers, NDT Services, Condition Monitoring, Lubrication System, Fuel and Lubri-

For Details, contact Shiela at PSME Secretariat at Rm 401, 4th Floor, Don Lorenzo Bldg., 889 P. Paredes St., Sampaloc, Manila  
Telephone: (02) 736-2043, Telefax: (02) 493-4268, Mobile No. (0917) 868-1700, (0917) 550-0002 (Natcon)  
Email: [psmenatcon@yahoo.com](mailto:psmenatcon@yahoo.com), [psme\\_national@yahoo.com](mailto:psme_national@yahoo.com), Website: [www.philmach.com](http://www.philmach.com)

## ACCREDITED HOTEL ACCOMODATION

HOTELS/ADDRESS	ROOM TYPE	ROOMRATES
<b>SOFITEL HOTEL</b> AtangDela Rama Pasay City	Superior City View	8,800.00
<b>HERITAGE HOTEL</b> Roxas Blvd cor EDSA, Pasay City	Single/Twin Occupancy w/ Breakfast	4,400.00
<b>MICROTEL MOA</b> Coral Way Ave. Cor. SeasideBlvd., MOA Complex, Pasay City	Double City View	4,200.00
<b>COPA CABANA</b> 264EDSA, Pasay City	Studio One Bedroom Suite	2,300.00 2,600.00
<b>BOULEVARD MANSION HOTEL</b> 1440 Roxas Blvd, Manila	Studio Standard One Bedroom Standard Deluxe Suite One Bedroom Suite Corner Suite	1,638.00 1,755.00 2,223.00 2,457.00 2,691.00
<b>ATRIUM HOTEL</b> Taft Ave. Cor Sen Gil Puyat Ave., Pasay City	Studio Suite King	2,600.00
<b>KABAYAN HOTEL</b> 878 P. Zamora, Pasay City	Standard Room Family Room Dormitory Type Kapsule	2,900.00 4,000.00 700/person 700/person
*All Delegates participating for the Officers Bearer Course, CPD Plant Tour, Golf Tournament, Bowling Tournament and City Tour should make their booking in this hotel to take advantage of the transportation services provided.		
<b>MABUHAY MANOR HOTEL</b> 2933 F.B. Harison St., Pasay City	Standard Room	2,800.00
<b>AURUM ONE</b> 1682 Evangelista cor Hen Del Pilar St., Bankal, Makati City	Standard Room	2,900.00
<b>ORCHIDS HOTEL</b> 620 Pablo Ocampo Sr. St., Malate, Manila	Standard Room	2,900.00

For Flight and Hotel Booking Schedule Please Call:

**The Art of Travel**

**Ms. Naneth or Ms. Khate**

Tel Nos.: (02) 526-0108

0905-212 5174

0918-677 5686

**NOTE: FOR GROUP BOOKING, YOU CAN AVAIL ADDITIONAL DISCOUNT.**

**REGISTRATION ONLINE:** visit our Website <http://www.psmenational-convention.com/>

**REGISTRATION FEE:**

Regular Member: Php 5,000.00

Life Member: Php 4,500.00

Senior Citizen: Php 3,500.00

Acct. Name# Philippine Society of Mechanical

Engrs National Office Inc.

Acct. No#

0000-5025-3085

Branch

BDO- Espana

## PHILIPPINE SOCIETY OF MECHANICAL ENGINEERS

INTEGRATED ASSOCIATION OF MECHANICAL ENGINEERS

PRC Accredited Professional Organization, Certificate No. I-AP0-004



**"PSME: OUR PRIME MOVER TO ACHIEVE  
GLOBAL RECOGNITION"**

SMX Convention Center, Mall of Asia Complex, Pasay City, Philippines

October 22-25, 2014



## PROGRAM OF ACTIVITIES

## LIST OF CPD PLENARY AND TECHNICAL SESSIONS

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### OCTOBER 22, 2014 (DAY 1 – WEDNESDAY)

**7:00 AM** Motorcade  
**8:00 AM** Start of Registration (62<sup>nd</sup> National Convention)  
**4<sup>th</sup> National Student Conference (SMX Convention Center)**  
**Start of Registration for City Tour/Plant Tour**  
**10:00 AM** Departure for City Tour  
**10:00 AM** Departure for CPD Plant Tour  
**12:00 NN** PSME Golf Tournament  
**1:00 PM** CPD Subject Matter Meeting / Officers Bearer Course  
**1:00 PM** PSME Bowling Tournament

### OCTOBER 23, 2014 (DAY 2 – THURSDAY)

**8:00 AM** Continuation of Registration at SMX  
**8:00 AM** Formal Opening of Phil Mach Exhibition  
**9:00 AM** Formal Opening of 62<sup>nd</sup> NATCON  
**12:00 NN** Lunch/Major Sponsor Presentation  
**1:00 PM** Inspirational Message& Keynote Address  
**2:00 PM** Opening Plenary by National President  
**3:00 PM** CPD Plenary and Technical Sessions  
**6:00 PM** BME / Fellowship Night

### OCTOBER 24, 2014 (DAY 3 – FRIDAY)

**8:00 AM** CPD Plenary and Technical Sessions  
**12:00 NN** Lunch/Sponsors' Presentations  
**1:00 PM** Address of the BME Chairman  
**1:45 PM** Dialogue with the BME  
**2:30 PM** CPD Plenary and Technical Sessions  
**4:30 PM** Exhibitors Surprises  
**6:00 PM** DON TOBIAS P. MARCELO AWARDS NIGHT

### OCTOBER 25, 2014 (DAY 4 – SATURDAY)

**8:00 AM** CPD Plenary and Technical Sessions  
**10:30 AM** CPD Workshops  
**12:00 NN** Lunch  
**1:00 PM** CPD Subject Matter Meeting / General Membership Meeting  
**2:00 PM** CPD Subject Matter Meeting / Report of the Workshop Proceedings  
**3:00 PM** COMELEC Hour  
**3:30 PM** Report of the Convention Chairman  
**4:00 PM** Closing Plenary  
**Grand Raffle Draw**

- Supervisory and Managerial Development - Engr. Jaime Jajay E. Cruz and Ms. Elizabeth Nasol
- The Complementary Roles of Mechanical and Aeronautical Engineers in the Air Transport Industry - Engr. Joel C. Herrera, Engr. Lemuel F. Banal and Engr. Kenneth Rene Ian M. Talag
- The Complementary Roles of Marine and Mechanical Engineers in the Marine Transport Industry - Engr. Joel C. Herrera and Mr. Carlos C. Medina, Jr.
- Floatation Solar PV Modules for Power Generation - Engr. Ronald O. Talion
- Cryogenics - Engr. Joel A. Mendez
- A Comparative Study on the Use of Oxy - Liquefied Petroleum (LPG) and Oxy -Acetylene Welding in Selected Radiator Shops in Davao City, Philippines - Dr. Lyndon H. Roble
- Basic Building Management System - Engr. Fortunato R. Davantes, Jr. and Engr. Romano V. Redondo
- Mechatronics Consideration in Mechanical Design - Dr. Laurence A. Gan Lim, Engr. Conrad Allan Jay R. Pantua and Mr. Gerard Santos
- Performance Analysis of Jatropa-Diesel Slurry Fuel Blends in Industrial Steam Generation Applications - Engr. Prince Engelbert P. Asumbrado, Dr. Archie B. Maglaya and Dr. Jose Bienvenido Manuel M. Biona
- Advancement in Manufacturing Safety Practices- Engr. Josue Robertson S. Reyes and Dr. Archie B. Maglaya
- Teambuilding for Productivity: Building a Culture of Excellence for a Manufacturing Company - Engr. Carmelo H. Roble
- Case Studies on Energy Savings in a Hot and Humid Climate - Engr. Rosendo B. Sanchez
- The Effects of Inlet Swirl on Axial Flow Turbine with Draft Tube Revisited - Engr. Gerardo L. Augusto, Dr. Archie B. Maglaya, Dr. Alvin B. Culaba and Engr. Jose M. Grajeda
- Life Cycle Assessment of Microalgae-to-Bioethanol: A Preliminary Results - Engr. Aristotle T. Ubando and Dr. Archie B. Maglaya
- Port Mechanization - Engr. Fortunato R. Davantes, Jr. and Engr. Ernesto Ponce
- Management for Global Excellence "A Corporate Strategy" - Dr. Nelson C. Fuentes
- Using ASHRAE 55 to Improve Air Conditioning Design for Energy Savings - Engr. Rosendo B. Sanchez
- Medical Gas System - Engr. Bernardo M. Terrobas
- Development of Mechanical Engineering Laboratory equipment with Instructional Software - Dr. Archie B. Maglaya, Engr. Prince EngelbertAsumbrado and Engr. John Philip L. Espiloy
- Outage Review and Execution for Major Inspection of Geothermal Plant - Engr. Joel A. Mendez and Engr. Philip Lu
- DOE Program in the Optimization of the Role of Mechanical Engineers - Engr. Jaime Jajay E. Cruz and Sec. Carlos Jericho L. Petilla
- Alternative Refrigeration Systems - Dr. Menandro S. Berana
- Experimental Investigation of the Single Mini Channel Condenser for Vapor Compression Refrigeration System - Engr. Leonel L. Pabilona
- Blast Freezing of Meat -Engr. Arnoldo B. Cabuay
- Evaluation of the Guide Vane Parameters in Water Flow Trajectory of a Micro Hydro Cross Flow Tirbine Using Computational Computational Fluid Dynamics - Engr. Isidro Antonio V. Marfori III
- MWSS Program in the Optimization of the Role of Mechanical Engineers - Engr. Jaime Jajay E. Cruz and Administrator Gerardo A. I. Esquivel Pre - Cooling of Fruits - Engr. Arnoldo B. Cabuay
- Design of Standby Genset Fuel Piping, Cooling System, Exhaust System and Acoustic Treatment - Engr. Bernard M. Terrobas
- Level of Performance and Job Satisfaction of Skilled Machinists in Selected Industries - Dr. Lyndon H. Roble
- Pre - Cooling of Fruits - Engr. Arnoldo B. Cabuay
- Impact of Biofuels Products on Engine Performance, Maintenance and Operation - Engr. Roy B. Tagpis

- The Role and Preparation of Mechanical Contractors to Meet ASEAN Economic Integration - Engr. Jaime Jajay E. Cruz and Engr. Ramon Allado
- Tracking and Documenting Boiler Tubes Failures - Engr. Bernardo Terrobas and Engr. Alexis M. Serapio
- Indoor Air Quality -Engr. Bernardo Terrobas and Engr. Manny Punzalan
- Simulation of 3D Floating Bodies Using Computational Fluid Dynamics-Engr. Conrad Allan Jay R. Pantua
- Design of Sewage Treatment Plant of Colegio de San Juan de LetranCalamba-Engr. Edsel G. Anyayahan
- Character, Integrity, Ethics and Leadership - Engr. Jaime Jajay E. Cruz and Mr. Francis Kong
- Quality Management Systems in Engineering and Construction Project (Reference: ISO 10006 Standard) - Engr. Esmeraldo S. Castro
- Refrigerants in Compliance with Montreal Protocol - Engr. Garry J. Quiambao
- Economic Analysis of Low-e Glass Versus Ordinary Annealed Glass - Engr. Francis Rafael V. Garcia and Dr. Archie B. Maglaya
- Energy Efficiency Practices for High Performance Building - Engr. Francis Rafael V. Garcia and Engr. Carmelo Neri
- DPWH Program in the Optimization of the Role of Mechanical Engineers - Engr. Jaime Jajay E. Cruz and Engr. Allan B. Padilla
- Restaurant and Kitchen Ventilation and Air Conditioning Load Design and Calculation - Engr. Francis Rafael V. Garcia and Dr. Archie B. Maglaya
- Hybrid Hydro Screw Power and Water Pumping System - Engr. Ronald O.Talion
- Digital Scanning "Imaging for Mechanical Applications" - Engr. Francis Rafael V. Garcia and Engr. Paulo Canivel
- Machine Parts Reconditioning for Thermal Spray Coating - Engr. Alan E. Rufila
- Technology Updates on Automotive Internal Combustion Engines (ICE), Alternative Fuels and Automotive Safety - Engr. Vitaliano F. Mamawal, III
- The Essential Role of Statistics to Engineering Research and Decision-Making - Dr. Nelson C. Fuentes
- Retrofitting of a Refrigeration System - Engr. Jose R. Francisco
- Managing an Efficient and Cost Effective installation of Air Conditioning System - Engr. Carlo Leon B. Sadang, Engr. John Philip L. Espiloy, Engr. CaesarNiquitteTampas and Dr. Archie B. Maglaya
- Hydraulic Systems for Horizontal Axis Wind Turbine - Engr. Gerardo L. Augusto , Dr. Alvin B. Culaba, Dr. Archie B. Maglaya and Engr. Jose M. Grajeda
- BFP Program in the Optimization of the Role of Mechanical Engineers - Engr. Francis Garcia and Gen. Carlito S. Romero
- Applying Air Buoyancy Effects in the Computation of Uncertainty of Measurement for the Calibration of Analytical Balance - Engr. WilbertoBalingit and Dr. Archie B. Maglaya
- Energy Auditing: From Losses to Conservation - Engr. Engr. Jonah Clarice S. Francisco
- Waste to Energy - Power Generation (WTE) for LGU and Industries - Engr. Ronald O. Talion
- Scale Sniper Technology for Cooling and Heating Coils - Engr. Francis Rafael V. Garcia and Engr. Gerald De Guzman
- Smoke Control System Design for Buildings - Engr. Ramon D. Aguilos
- Ammonia Refrigeration for Industrial Application - Engr. Manuelo C. Mandigma
- Bearing Lubrication "Tribology": Lubrication in Rolling Element Bearings - Engr. Jerry L. Tecson, Engr. Ricardo V. Tejada, Engr. Marlon Mark Canillas, Engr. Michael E. Costello Jr. and Engr. Arnolfo M. Moncada
- Development of Sustainable Solutions to Coal Ash Management - Engr. Martin Ernesto L. Kalaw
- Design, Fabrication and Testing of Extremely Low Head Micro - Hydro System - Engr. Isidro Antonio V. Marfori, III

**\*NOTE: SCHEDULE MAY CHANGE WITHOUT PRIOR NOTICE**

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