



PHILIPPINE SOCIETY OF SANITARY ENGINEERS, INC.
PRC ACCREDITED PROFESSIONAL ORGANIZATION NO. 22

2020 ANNUAL NATIONAL CONVENTION

THEME:

SANITARY ENGINEERS IN THE TIME OF PANDEMIC: MOVING FORWARD TO A NEW NORMAL



VIRTUAL CONFERENCE
DECEMBER 10-12, 2020



GF HAKAN PLASTİK SILENTA PREMIUM is a sound-insulating 3-layered sewer pipe system made of Silenta PP which is specially formulated and reinforced for non-pressurized domestic drainage in accordance with system standards of **DIN 4109, DIN 4102.**



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UNITEC

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Polyethylene Pipe is made of 100% virgin raw materials. It is affordable, lightweight, easy to handle and install that best fits for potable water requirements.



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PHILIPPINE SOCIETY OF SANITARY ENGINEERS, INC.

PROFESSIONAL REGULATION COMMISSION ACCREDITATION NO. 26

32ND NATIONAL OFFICERS AND DIRECTORS



ROMEO R. QUIZON
National Immediate Past President



VIRGINIA T. ROCABO
National President



ALBERT A. PERFECTO
National Vice President



MANNY ANTHONY M. TAGUBA
National Secretary



JEMMALENE D. RUBIANO
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RANELLA JOY F. DELOS REYES
National Auditor



FRANZ FURBY C. RAMOS
National Media Relations Officer



ALLAN R. ALZONA
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National Director



DAVE VERGEL B. CASTRO
National Director



DELINO G. CUBACUB
National Director



FREDISWINDA DL. DE GUZMAN
National Director



ROGELIO M. MAGAT
National Director



ERIC M. SALVADORA
National Director



LEONARDO C. SAWAL
National Director

Programme



PART 1 STUDENT CONFERENCE (December 10, 2020)

PART 2 ANNUAL NATIONAL CONVENTION (December 11, 2020)

08:00 am - 10:00 am Opening Ceremonies

ENGR. ERIKA LLAMAS-DE GUZMAN

Master of Ceremony

Video

Chair and Co-Chair, 2020 Web-Con

Past Presidents

2020 PSSE Officers and Board of Directors

Chancellor of the College of Fellows

PSSE National President

Professional Regulatory Board for Sanitary Engineers

Keynote Speaker & Guest of Honor

Entry of Colors

Chapter Banners

PSSE Flag

Philippine Flag

Invocation & National Anthem

Audio Visual Presentation

CREDO

ENGR. DAVE VERGEL B. CASTRO

WebCon Co-Chair / National Director, PSSE

Principal, **Dave Vergel B. Castro + Associates**

Declaration of Convention Opening

ENGR. DELINO G. CUBACUB, ASEAN Eng.

Web-Con Chair / National Director, PSSE

Proprietor, **D.G. Cubacub Construction and Surveying**

Opening Remarks

ENGR. VIRGINIA T. ROCABO, F.PSSE, ASEAN Eng.

National President, PSSE

Vice President, **Pinus Construction Co., Inc.**

Managing Partner, **Pipetech Construction Co., Inc.**

Welcome Remarks

HON. CORAZON DLR ROMERO, F.PSSE, APEC/ASEAN Eng, ACPE

Chair, Professional Regulatory Board for SE



Programme

Introduction of Keynote Speaker

ENGR. ALBERT A. PERFECTO, ACPE
WebCon Co-Chair / National Director, PSSE
Regional Manager, National Housing Authority

Keynote Speech

HON. MARIA LEONOR GERONA ROBREDO
Vice President
Republic of the Philippines

Awarding of
Certificate of Appreciation

ENGR. BERNARDO N. BUENAVENTURA, F.PSSE, ASEAN Eng.
Chancellor, College of Fellows, PSSE
Senior Vice President & Project Manager, TCGI Engineers

Introduction of Guest Speaker

ENGR. ROGELIO M. MAGAT
National Director, PSSE
Manager, Environmental Permits Division
Clark Development Corporation

Inspirational Speech

MR. DAIN M. HANSEN
Guest Speaker
Executive Vice President, Government Relations
International Association of Plumbing &
Mechanical Officials (IAPMO)

Awarding of
Certificate of Appreciation

ENGR. ROGELIO M. MAGAT
National Director, PSSE
Manager, Environmental Permits Division
Clark Development Corporation

Introduction of Recipient for
DELES AWARD

ENGR. BERNARDO N. BUENAVENTURA, F.PSSE, ASEAN Eng.
Chancellor, College of Fellows, PSSE
Senior Vice President & Project Manager, TCGI Engineers

Response

ENGR. RANULFO C. FELICIANO, F.PSSE, ASEAN Eng.
Past President, PSSE

Awarding of DELES AWARD

ENGR. BERNARDO N. BUENAVENTURA, F.PSSE, ASEAN Eng.
Chancellor, College of Fellows, PSSE
Senior Vice President & Project Manager, TCGI Engineers

Introduction of the 2020
Outstanding Sanitary Engineer

ENGR. FREDISWINDA DL. DE GUZMAN
National Director, PSSE
Deputy, Program Development Unit
Quezon City Engineering Department

Response

DR. ROBERT S. LICUP, F.PSSE, APEC/ASEAN Eng., ACPE
2020 Outstanding Sanitary Engineer Awardee
Executive Vice President, VA Tech Wabag Phil., Inc.

Programme



PSSE ANNUAL NATIONAL CONVENTION
2020 VIRTUAL CONFERENCE

2020 Web Con Sponsors (AVP)

10:00 am

House Rules

ENGR. DELINO G. CUBACUB, ACPE

Web-Con Chair / National Director, PSSE
Proprietor, **D.G. Cubacub Construction and Surveying**

10:00 am - 11:00 am

TECHNICAL SESSION 1

Design Considerations for Water, Sanitation and Hygiene Systems Under Pandemic Times

DR. BONIFACIO B. MAGTIBAY, F.PSSE, ASEAN Eng.

Technical Officer
Environmental/Occupational Health
World Health Organization - Philippine Country Office

Awarding of
Certificate of Appreciation

ENGR. RANELLA JOY F. DE LOS REYES

National Auditor, PSSE
Proprietress / Environmental Consultant
JJE Environmental & Air Conditioning Consultancy

PRODUCT PRESENTATION

11:00 am - 12:00 pm

TECHNICAL SESSION 2

Best Practices for Managing COVID-19 Wastes

MS. FAYE F. FERRER

Environmental Health Consultant

Awarding of
Certificate of Appreciation

ENGR. ERIC M. SALVADORA

National Director, PSSE
President, **EMS Engineering Services, Inc.**

12:00 pm - 01:00 pm

LUNCH & PRODUCT PRESENTATIONS

01:00 pm - 02:00 pm

TECHNICAL SESSION 3

Public Health Engineering Intervention: COVID-19 Response in Medical Institution

ENGR. MERLIN D. HERRERA

Assistant Chief
Office of Engineering & Technical Services
Philippine General Hospital

Awarding of
Certificate of Appreciation

ENGR. LEONARDO C. SAWAL, F.PSSE, ASEAN Eng.

National Director, PSSE
Associate Professor III, CET
Pamantasan ng Lungsod ng Maynila

02:00 pm - 05:00 pm

General Assembly / Call to Order

ENGR. VIRGINIA T. ROCABO, F.PSSE, ASEAN Eng.

National President, PSSE
Vice President, **Pinus Construction Co., Inc.**
Managing Partner, **Pipetech Construction Co., Inc.**

**PRC Updates on
Sanitary Engineering Profession**

ENGR. FLORIMOND M. LARA, F.PSSE, ASEAN Eng.

Member, Professional Regulatory Board for
Sanitary Engineers

CHED Updates

DR. DOLORES SD. CLEOFAS, F.PSSE, ASEAN Eng., APEC Eng.

Chair, Technical Committee in Sanitary Engineering
Commission on Higher Education
Assistant Professor 3, **University of Santo Tomas**

**SANITARY ENGINEERS IN THE TIME OF PANDEMIC:
MOVING FORWARD TO A NEW NORMAL**



CHED Updates

DR. DOLORES SD. CLEOFAS, F.PSSE, ASEAN Eng., APEC Eng.
Chair, Technical Committee in Sanitary Engineering
Commission on Higher Education
Assistant Professor 3, **University of Santo Tomas**

Treasurer's Report

ENGR. JEMMALENE D. RUBIANO
National Treasurer, PSSE
Business Group Leader
Transportation & Civil Infrastructure, **GHD Pty. Ltd.**

President's Report

ENGR. VIRGINIA T. ROCABO, F.PSSE, ASEAN Eng.
National President, PSSE
Vice President, **Pinus Construction Co., Inc.**
Managing Partner, **Pipetech Construction Co., Inc.**

DAY 2
ANNUAL NATIONAL CONVENTION
(December 12, 2020)

07:30 am - 08:00 am

Opening Session

ENGR. ERIKA L. DE GUZMAN
Master of Ceremony

08:00 am - 09:00 am

Professional Quiz Bee

DR. BONIFACIO B. MAGTIBAY, F.PSSE, ASEAN Eng.
Quiz Master

09:00 am - 10:00 am

TECHNICAL SESSION 4
Pandemic Response as
Part of Emergency Planning for
Water Utilities

ENGR. MAURICE TOBON, P.E, PMP
President, **TOBON Engineering**

Awarding of
Certificate of Appreciation

ENGR. DAVE VERGEL B. CASTRO
WebCon Co-Chair / National Director, PSSE
Principal, **Dave Vergel B. Castro + Associates**

10:00 am - 10:15 am

BREAK & PRODUCT PRESENTATION

10:15 am - 12:15 pm

Election Rules and Presentation of
Qualified Candidates for the
Election of the Board of Directors

ENGR. BERNARDO N. BUENAVENTURA, F.PSSE, ASEAN Eng.
Chair, PSSE Election Committee
Chancellor, College of Fellows, PSSE
Senior Vice President & Project Manager, **TCGI Engineers**

12:15 pm - 01:00 pm

LUNCH & PRODUCT PRESENTATION

01:00 pm - 03:00 pm

Casting of Votes
Canvassing of Votes /
Proclamation of Winners

ELECTION COMMITTEE (ELECOM)

Closing Remarks

ENGR. ALBERT A. PERFECTO, ACPE
WebCon Co-Chair / National Director, PSSE
Regional Manager, **National Housing Authority**

SANITARY ENGINEER'S CREDO

As a Sanitary Engineer, I pledge that the practice of my profession shall be for God and all his creation, in full accord with my co-professionals for the advancement and betterment of human welfare.

To God and my country the Philippines: I shall apply all my professional knowledge in Sanitary Engineering to protect and preserve the environment always mindful that I owe such to future generations;

To my Clientele: I shall deliver my service promptly, mindful of the life-cycle cost from its conceptualization and retirement all of which must be environmentally-sound;

To my co-Sanitary Engineers: I shall always collaborate with them and, in cases of competing for clients, such must be done fairly for services and shall never undermine;

To my colleagues in the allied professions: I shall render professional services within the specializations allowed in the field of Sanitary Engineering of which I possess the necessary competence and never encroach on other's scope of practice;

And, in all of these, I shall always protect the rights of a Sanitary Engineer as embodied in the Sanitary Engineering law.



Message



Republic of the Philippines
OFFICE OF THE PRESIDENT
Malacañan Palace
Manila



My warmest greetings to the Philippine Society of Sanitary Engineers, Inc. as it holds its 2020 Web Convention.

I commend your organization for your strong commitment in improving the practice of sanitary engineering and its specialized fields that include environmental engineering and management, public health engineering, plumbing and fire protection, solid waste management, and wastewater and water supply engineering.

Your continuing pursuit of excellence in your profession has allowed our people to enjoy a clean, safe and livable environment where they can confidently pursue their dreams and aspirations. I hope that you will remain steadfast in your goals even as we continue to hold the line against COVID-19.

I trust that the relationships you will forge and the knowledge you will gain from this gathering will enable you to become the government's effective partner in preparing our society for a new and better normal. In solidarity, let us take further strides towards the realization of our shared goal of a stronger and more resilient nation.

I wish you a successful event.

RODRIGO ROA DUTERTE

MANILA
11 December 2020

Message



MR. DAIN M. HANSEN

Executive Vice President, Government Relations
International Association of Plumbing &
Mechanical Officials (IAPMO)

Over the course of two decades, the IAPMO Group and PSSE have built a long-standing relationship focused on growing the plumbing industry. This partnership culminated in the development of the Uniform Plumbing Code - Philippines. This code provides the necessary framework for how plumbing systems can effectively be developed and provides local regulators with the ability to enforce these practices.

IAPMO is proud to continue this relationship to help protect and expand water/sanitation service delivery. This year has been unlike any other. COVID-19 has emphasized the need for proper handwashing and safe, reliable access to water. Without the services offered by IAPMO and PSSE, the simple act of washing hands with safe water could be a challenge.

This year, IAPMO and our charity, the International Water, Sanitation, and Hygiene Foundation, have been working diligently to provide support, services, and water to populations in need across the globe. Whether it be in Southeast Asia, Africa, or in the United States, we strive to assist communities struggling with basic access to water and sanitation.

Dain M. Hansen
Executive Vice President
Government Relations
The IAPMO Group
101 Constitution Avenue, NW
Suite 825 East
Washington, D.C. 20001



Republic of the Philippines OFFICE OF THE VICE PRESIDENT



Magandang araw sa lahat ng bumubuo ng Philippine Society of Sanitary Engineers, as you come together today para sa inyong Web Convention. Alam kong hindi ito ang nakasanayan ninyong annual gathering, pero hindi nababawasan 'yung halaga ng pagtitipong ito para mas mapalalim 'yung samahan ninyo bilang organisasyon.

I would also like to take this opportunity to thank the sanitary engineers who are with us today. Maraming salamat sa trabahong ginagawa ninyo ngayong pandemya. Our water systems, our sources of supply, our plumbing and wastewater infrastructure—these are things that have become so easy to taken for granted. Few notice the work that you do beyond responding to sudden emergencies—the maintenance, the background work, the proper planning. Dahil nandiyan kayo, mas panatag ang loob namin na laging dadaloy 'yung mga bagay na itong nagpapatakbo ng buhay natin. Salamat dahil lagi namin kayong maasahan.

But more recently, because of the challenges brought about by COVID-19, mas lumutang 'yung mga gaps na kailangang tutukan. Fissures old and new are surfacing in society, compromising the rights and dignities of those in the margins. Poverty and inequality are pressing even harder upon our most vulnerable communities. The world has changed since the pandemic broke out and has disrupted nearly every aspect of our lives, shrinking the little room we have to plan for the future.

Kaya napakahalaga ng pagtitipon ninyo ngayong araw. As we slowly recover from this crisis, as we begin the work of rebuilding and strengthening our existing infrastructures and systems, pagkakataon rin ito to address long-standing and deeply entrenched challenges. In this endeavor, hindi maitatangi kung gaano kaimportante ang propesyon ninyo sa pagbuo natin ng isang better normal: We will need your blueprints and plans, your perspectives and ideas, so that we can build a safer, more inclusive, and more sustainable future for all. Every profession has a role to play, and for sanitary engineers, this means banding together in collective pursuit of a better normal—conceptualizing designs of our waterways and structures today to improve the way of life for generations to come. This means harnessing data and research to visualize how things could work better together—how systems, roles, and even interests can be configured, so that they move organically, efficiently and strategically, towards a single horizon.

This entails a lot of work and commitment, pero ngayon pa lang, masaya akong makita na may ginagawa na kayong mga hakbang tungo sa layuning ito. Hindi kayo nagpalimita sa mga nakasanayan at de-kahong depinisyon ng engineer. You have been extending your hand to those who need help, conducting fundraisers and outreach programs para maabutan ng ayuda 'yung mga kababayan nating naapektuhan ng bagyo at iba pang kalamidad. Hindi rin kayo nag-atubiling tulungan ang mga frontliners natin—with the help of generous individuals in your group, nakapagbigay pa kayo ng medical supplies at PPE para sa mga healthworkers nating araw-araw hinaharap ang panganib ng COVID-19. Aside from today's WebCon, patuloy rin 'yung pag enrich ninyo sa skills ng inyong membership through online trainings and seminars. Napakahalaga nito dahil dito natin makikita kung gaano ka-interconnected ang environmental engineering, civil infrastructure, at sustainability, at kung paano nito naiimpluwensyahan ang mga nilalatag nating solusyon na kailangan ngayon hanggang sa kinabukasan.

This conference is a strong statement that the engineering profession understands how our destinies are intertwined, and that you recognize your role in harnessing this interconnectedness. Pinakita ninyo: Hindi kayo nagpapadaig sa mga krisis. Instead, nandito pa nga kayo—having these important conversations, empowering young engineers, sharing your best practices, para mas mapalakas ang tugon ng inyong propesyon sa hamon ng panahon. By extending yourselves and widening your horizons, by seeing the vast potential of your profession to help in this time of great need, natatanaw na natin ngayon pa lang ang better normal na minimithi natin.

During a crisis of this magnitude, we need more of us to have this mindset: Forging new paths where old ones seem blocked, always thinking about the best and most efficient solution possible. Whether you are already licensed professionals or students who are on their way to becoming one, I hope that the perspectives you gain here inspire you and drive you looking outward, towards solving problems and filling gaps. Because now more than ever, we need all hands on deck; we need more of us to do the work, to rise to the occasion, to build a better normal for all, in the present and for generations to come.

Maraming salamat at mabuhay kayong lahat!

MARIA LEONOR GERONA ROBREDO

Message



PSSE ANNUAL NATIONAL CONVENTION
2020 VIRTUAL CONFERENCE



Republic of the Philippines
**DEPARTMENT OF PUBLIC
WORKS AND HIGHWAYS**
Manila

My warmest greeting to the Officers and members of the **Philippine Society of Sanitary Engineers, Inc. (PSSE)** on the occasion of your **2020 Web Convention** on December 11-12, 2020!

The Department of Public Works and Highways continues to extend its support towards your organization's unwavering commitment in the advancement of the knowledge and practice of sanitary engineering.

Your theme, "**SANITARY ENGINEERS IN THE TIME OF PANDEMIC: MOVING FORWARD TO A NEW NORMAL**" reminds us once again of your imperative role in the assurance of public health and safety amidst these trying times.

Now, more than ever, must we heed the call to promote continuous research and implementation of sustainable infrastructure and environment-friendly measures to help combat this pandemic.

I enjoin all participants of this year's convention to take this opportunity to equip yourselves with new knowledge, trends and technologies for your advancement in the practice of your profession, keeping in mind your vital role in nation building.

May you have a fruitful gathering and I wish you success in your future endeavours.

Mabuhay tayong lahat!

MARK A. VILLAR
Secretary



Message



Republic of the Philippines
PROFESSIONAL REGULATION COMMISSION
Board of Sanitary Engineering



The Board of Sanitary Engineering would like to congratulate the officers and members of the Philippine Society of Sanitary Engineers, Inc., for organizing its First Virtual Annual Convention, to be held on December 11 & 12, Via Zoom Meeting. The Convention's theme: "Sanitary Engineers in the Time of Pandemic: Moving Forward to a New Normal", is indeed very appropriate during these times when the whole world is experiencing a Pandemic due to the New Corona Virus.

The sanitary engineers carry a very important role in the prevention of communicable diseases through their knowledge in Sanitation and Hygiene. Second to the medical experts, the sanitary engineers are persons trained to control the spread of diseases. Public Health Engineering is the major tool of the sanitary engineers to minimize and contain the deadly effects of diseases such as, the Covid 19 disease. This is an opportune time for the sanitary engineers, through the PSSE, to shine out and be known, by going out to help the various private and government agencies involved in the eradication of the Covid 19 disease.

It is likewise worth mentioning that the Board of Sanitary Engineering, together with four members of the PSSE who are experts in Public Health Engineering, have been tasked by the Professional Regulation Commission to revise and update the "Sanitation Design Manual for Health Care Facilities", that would include design methods on how to better handle another Pandemic in the future.

More power to the Sanitary Engineers!

Hon. Florimond M. Lara
Member

Hon. Corazon DLR. Romero
Chair

Hon. Alfredo B. Espino
Member

Message



PSSE ANNUAL NATIONAL CONVENTION
2020 VIRTUAL CONFERENCE



COLLEGE OF FELLOWS Philippine Society of Sanitary Engineers, Inc

The College of Fellows of the Philippine Society of Sanitary Engineers, Inc. (PSSE) would like to convey our warm greetings to all members and chapters of the PSSE as we hold our first ever **2020 Web Convention (Web Con 2020)** on December 11-12, 2020 via Zoom Meeting Application.

This year's theme "**SANITARY ENGINEERS IN THE TIME OF PANDEMIC: MOVING FORWARD TO A NEW NORMAL**" is indeed very timely as we are now in very challenging times brought about by the COVID-19 Pandemic.

Coinciding with the WebCon is the Election of New Set of Board of Directors and Officers who will steer the Society towards the New Normal.

On behalf of the College of Fellows, therefore, I wish to congratulate the PSSE National Officers and Directors, as well as the organizing committee in their tireless effort to make this undertaking a success.

KEEP ON PRATICING SANITARY WORKS AND STAY SAFE!!

BERNARDO N. BUENAVENTURA, F.PSSE, ASEAN ENG.

**SANITARY ENGINEERS IN THE TIME OF PANDEMIC:
MOVING FORWARD TO A NEW NORMAL**



PHILIPPINE SOCIETY OF SANITARY ENGINEERS, INC. National



Isang mapagpalang araw po sa ating lahat.


I am pleased to welcome all of you, fellow Sanitary Engineers, esteemed speakers, and honored partner-sponsors to the 2020 Annual National Convention. We may be disheartened now for not having a physical and social interaction, but we are still blessed because we are in a world of modern technology, even with its boon and bane, so the PSSE is able to conduct a virtual conference. And PSSE is greatly honored that Vice President Leni Robredo has accepted our invitation to grace our event.

In the present crisis, Sanitary Engineers play a pivotal role in the global fight against the coronavirus 2019. We are adept in the practice of public health, sanitation and hygiene, and management of water and wastewater facilities thus we can make significant contributions to combat the disease, emerge from this emergency, and help fellow Filipinos in the best way we could.

To further enhance SE skills, we have invited highly experienced professionals to share their expert knowledge and skills. They will be sharing some design considerations for water sanitation and hygiene system, pandemic response in emergency planning for water utilities, one specific hospital's approach to covid-19 cases, and some best practices to deal with the crisis.

To all our esteemed guests and resource speakers, I warmly extend my deepest appreciation for your generosity in sharing your knowledge. With heartfelt gratitude, I would like to commend the hard work and selfless efforts of the secretariat and members of the convention and training committee in the planning and preparation of this event.

Marami pong salamat at mabuhay po ang mga Sanitary Engineers.


VIRGINIA T. ROCABO, F.PSSE, ASEAN ENG.
National President

Message



PSSE ANNUAL NATIONAL CONVENTION
2020 VIRTUAL CONFERENCE



CONVENTION CHAIR
Philippine Society of Sanitary Engineers, Inc.

It is my pleasure and privilege to extend to you all a very warm welcome to the PHILIPPINE SOCIETY OF SANITARY ENGINEERS, INC. 2020 Web Convention to be held on December 11-12, 2020 via Zoom Meeting Application.

Through the years, The PSSE, Inc., particularly its National Directorate has maintained its solid camaraderie in its pursuit of excellence. It has constantly displayed unity and cooperation within ranks. It has positively faced challenges affecting the profession through the fast changing world and country's unexpected changes economically and/or politically like what is happening today. I feel proud to have been given the opportunity to serve the organization as one of the National Directors and Chair for this WebCon 2020.

Over the past few months, we have experienced an unprecedented shift in our way of life due to COVID-19- This year's theme "SANITARY ENGINEERS IN THE TIME OF PANDEMIC: MOVING FORWARD TO A NEW NORMAL" connotes assessment of how the Sanitary Engineering services has fared through the years. With the future being shaped by the pandemic, may this serve as a call to be ever wary of all efforts geared towards greater excellence in the Sanitary Engineering Profession.

Wisdom always dictates every one of us to truly reflect, assess, resolve and pursue even more to make our profession ever responsive to the demands of the present situation. If our predecessors did their share in transforming our profession to its greater heights in living a new normal for tomorrow and the years to come.

GOOD LUCK, KEEP SAFE and GOD BLESS US ALL!

DELINO G. CUBACUB, ASEAN ENG.
National Director

**SANITARY ENGINEERS IN THE TIME OF PANDEMIC:
MOVING FORWARD TO A NEW NORMAL**



CONVENTION CO-CHAIR Philippine Society of Sanitary Engineers, Inc

To my fellow colleagues in the Philippine Society of Sanitary Engineers, a warm greeting!

Our year 2020 has been a challenging time that paused and changed all aspects that concerns our health and environment. We can all agree that this pandemic is far from over. As ambassadors of the sanitary field, we all must work collectively during these challenging times. Our 2020 Annual National Convention with the theme "**Sanitary Engineers in Time of Pandemic: Moving Forward to a New Normal**" will not only equip us to forge our methods but make us better on our field. This is the most urgent of times and the most urgent of message. Let us all face ahead with bravery, courage and honesty as we convey a very important role in the society in preventing the spread of the New Corona Virus and other diseases that may come in the future by proper sanitation, hygiene and together with all the technical knowledge and skills we have.

To all, welcome to the Philippine Society of Sanitary Engineers first ever virtual convention.

DAVE VERGEL B. CASTRO
National Director

BONIFACIO B. MAGTIBAY, Ph.D., F.PSSE, ASEAN Eng.



Engr. Bonifacio Magtibay is a civil/sanitary/environmental engineer by profession with PhD in Environmental Studies, MSc in Environmental Management, and International Diploma in Sanitary Engineering. He is also recognized as an ASEAN Engineer, and a Fellow and Immediate Past President of the Philippine Society of Sanitary Engineers, Inc. (PSSE).

He has more than 30 years of work experience in the field of water, sanitation, and environmental health in various government, non-government, academe and UN agencies as Technical Officer, Project Officer, Consultant, Sanitary Engineer, and a Faculty member. He is currently the Technical Officer for Environmental and Occupational Health at World Health Organization-Philippines.

DESIGN CONSIDERATIONS FOR WATER, SANITATION AND HYGIENE SYSTEMS UNDER PANDEMIC TIMES

The corona virus disease pandemic is not yet over and still creating havoc in many countries. As of 30 November 2020, the total cases recorded by the World Health Organization (WHO) is about 61 million with about 1.5 million deaths. The country with the highest cases in the world is still the United States with about 13 million. In Asia, India is leading with at least 9 million while the Philippines has 430,000.

The culprit is an enveloped virus, known as the Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2), with a fragile outer layer. Its size ranges from 65 to 125 nanometers in diameter and contains a single-stranded RNA as a nucleic material. It is transmitted through droplet or direct contact. It is not yet confirmed by WHO that this virus is airborne. Current studies show that the virus is viable in various environmental surfaces lasting for days and is affected by temperature and humidity. There is no evidence yet that the virus persists in drinking water and wastewater and if can cause infection if found therein.

Considering the impact on human health of this disease, environmental and sanitary engineers must be aware of its implication in the design of water, sanitation and hygiene (WASH) facilities. Key interventions that will prevent and control this disease include environmental cleaning, disinfection of surfaces, proper excreta disposal, physical distancing, waste management, and hand hygiene. The amount of water supply is crucial as the demand for bathing, handwashing, cleaning and disinfection increases. Physical distancing is to be considered in providing safe spaces between toilets and in designing ventilation systems. Covid-19 infectious wastes must be managed properly and adequately. The Department of Health has issued a guideline for minimum public health standards under the new normal that involved WASH interventions.

This Covid-19 pandemic is teaching us a lesson. In the future design of WASH facilities and other systems, we need to ensure that there should be provisions for addressing pandemic issues. The role of environmental and sanitary engineers is critical during these times to make a difference in public health.



FAYE F. FERRER

Faye Ferrer, has previously worked with Health Care Without Harm, an international NGO working on environmental health. Her previous work focused on making health care facilities green and sustainable through the Global Green and Healthy Hospitals program. She has also coordinated the phase-out of mercury containing devices in the Philippines.

Currently, Faye is the Technical Consultant on Health Care Waste Management of the USAID Medicines, Technologies, and Pharmaceutical Services (MTaPS) Program.



BEST PRACTICES FOR MANAGING COVID-19 WASTES

Learning Objective:

Describe a proven solution to minimize contamination and counter false practices. Discuss current best practices in the management of wastes.

Abstract Details:

The Coronavirus Disease 2019 (COVID-19) pandemic has been affecting millions of individuals and has been posing threats to countries worldwide' national health systems. The Philippine governments' declaration of the Enhanced Community Quarantine (ECQ) on March 16 has highlighted the complex waste management systems that the healthcare sector faces. With a significant number of infectious wastes considered plastics and disposable, healthcare waste managers and sanitary experts are expected to balance patient safety and environmental safety.

This presentation will demonstrate how COVID-19 related wastes and other infectious wastes need not create more problems waste management problems. The issue of patient safety and the environment should be complementary to each other.

MERLIN DEBLOIS-HERRERA



Engr. Merlin Deblois-Herrera is a registered Civil and Sanitary Engineer. She earned her Bachelor's Degree in Civil Engineering and Sanitary Engineering in Pamantasan ng Lungsod ng Maynila as PLM Scholar and National University respectively. She has more than 15 years teaching experience in various Universities in Manila under College of Engineering, more than 20 years Licensed Civil Engineer practitioner particularly in estimate, design, construction, maintenance, quality control and project management in the field of Civil Engineering, 7 years Licensed Sanitary Engineer practitioner.

Presently, she is connected in the Philippine General Hospital Office as Assistant Chief & PCO under the Office of Engineering and Technical Service and CE Industrial Lecturer in Civil Engineering Department in Adamson University, Taft.

PUBLIC HEALTH ENGINEERING INTERVENTION: COVID-19 RESPONSE IN MEDICAL MEDICAL INSTITUTION

With an increasing number of cases spreading to various territories and confirmed human to human transmission, the World Health Organization declared the outbreak as a Public Health Emergency of International Concern (PHEIC) last January 30, 2020. It is also the time when the Philippine was declared under a State of Public Health Emergency due to the acceleration and expansion of confirmed COVID-19 cases. With the rapid surge in the demand for COVID-19 treatment and care, the place for sanitary engineering in the public health activities become vital. In my case, it became an opportunity as a sanitary engineer when the Philippine General Hospital was chosen by DOH last March 30, 2020 to operate as one of the COVID-19 referral Center. The preparation started from the conversion of single rooms into Isolation rooms for the management of Person Under Investigation (PUI) for 2019 Novel Corona virus (nCoV); the ordinary patients ward into COVID-19 positive patients as per guidelines Department Memorandum No. 2020-0062. The big challenge for us is to follow the consideration of room air exchange.

The next Challenge is the provision of Guidelines for Health Infection Prevention and Control for different area like Triage, Emergency Room, Donning and Dooffing Area, isolation rooms, COVID-19 Wards for suspected and confirmed COVID-19 cases, Operating Rooms and Laboratory rooms. Also, the Healthcare Waste Management is one of the pivotal factors to decelerate the rapid spread of COVID-19. The need to improve guidelines for this and to provide training materials to manage highly contagious waste according to the level of the waste risk.

Summing up, as the current pandemic shifts into a new phase, healthcare leaders including sanitary engineers are determining how to level up the facilities in the hospital to bring valuable lessons learned into the next era of patient care.



MAURICE TOBON, P.E., PMP

Mauricio Tobon is a professional water engineer with over 30 years of experience in water, wastewater, reclaimed water engineering, climate change and utilities management in south Florida and internationally. He is the President of Tobon Engineering, an international water and wastewater engineering consulting firm. They served for over fifteen years at the highest management levels of two of the largest water utilities in south Florida (Palm Beach County and City of Fort Lauderdale) and was responsible for nearly \$ 1 billion in program management capital improvements. International experience includes projects in Philippines, Nepal, India, Tanzania, Micronesia, and Bahamas and is a technical resource for the United Nations Office of Project Services (UNOPS) with extensive knowledge of water and wastewater engineering design and construction.



PANDEMIC RESPONSE AS PART OF EMERGENCY PLANNING FOR WATER UTILITIES

Water utilities around the world are have long been vulnerable to the impacts of disaster, natural hazards, and now manmade pandemics. A vital part of the water utilities ability to meet these threats is to have a comprehensive up to date Emergency Response Plan (ERP). It is considered unlikely that properly treated drinking water can serve as a mode of transmission for Covid-19. However, a pandemic could cause serious disruptions to the operations of drinking water systems. These disruptions could be caused by staffing shortages, power disruptions, and shortages of chemicals and other supplies. Protecting employee health is vital for continuing operations, especially if another emergency, e.g. typhoons, occurs during an influenza pandemic. Ensuring continuity of operations for drinking water systems is crucial to protect public health and safety, and to the economy of all communities.

Plans for maintaining essential functions and services in a pandemic must emphasize and implement procedures such as social distancing techniques, infection control and personal hygiene, cross-training, and telecommuting. Protecting the health and safety of employees must be a major focus of planning in order to ensure the continuity of essential functions. Vaccines and antiviral medications will be important tools for reducing the impact of pandemics. Some of the element which water utilities need to include in the ERP:

- Pandemic response coordinator
- Critical positions and minimum staffing levels
- Cross training and alternate work arrangements
- Chain of supply
- Communications
- Essential Operations
- Employee health protection
- Human resources
- ERP training

Case Study: The presentation will include a case study on the impacts of the Covid-19 pandemic on a water utility in Florida and the steps carried out to modify the ERP to deal with future pandemics in order to minimize disruptions to the workforce, operations, water supply and customers.

SANITARY ENGINEER LICENSURE EXAMINATION

HELD ON JANUARY 14, 15, & 16, 2020

- | | |
|---|------------------------------------|
| 1 ABIL, CHELSIE DINGLASA | 34 LAYLO, ANGELIKA JOY ENRIQUEZ |
| 2 AGUILA, MIKKA ANAMY LUMBERA | 35 LIMCO, RACHEL GARCIA |
| 3 AGUILAR, ARNOLD IAN AGUILAR | 36 LUCAS, BRYLE JUSTIN GAMILLA |
| 4 ALANO, ALDIN ZARA | 37 LUYFOOK, KARL MARX GREZULA |
| 5 ALBUERA, QUEENCY LOVELY CARINGAL | 38 MAALA, JOSHUA PAGKALIWAGAN |
| 6 ANDAYA, ANA CATRINA ELAINE SAGARAL | 39 MACALOOD, RANDY MANUBAY |
| 7 AVILA, JOHN AMIEL NARVAEZ | 40 MAGWA, KENDALL HARRY BOADO |
| 8 BAUTISTA, GIAN CARLO BAUTISTA | 41 MEDRANO, JOANNE AGUILLON |
| 9 BRENIO, MAYNEL GRACE SAMPAYAN | 42 MILANES, ANNA JOY DIANE FORTES |
| 10 BRUZO, ROMMEL VELASCO | 43 NAGUM, ERIC MOLINA |
| 11 CAMACHO, JOHN KIM VILLAFUERTE | 44 NALULA, ELLA DANGGOL |
| 12 CANAO, NOVIE FENN BULIYAT | 45 OGERIO, MELODY MAE TOMAGAN |
| 13 CAOYONG, JOHN VAUGHN BAUTISTA | 46 ORILLANO, MA JOYCE ANN LIQUE |
| 14 CARLOS, JULIA ROCHELLE FLORES | 47 PABIA, KATHLEEN KATE BITALINO |
| 15 CAÑETE, CZARINA PASANG | 48 PALAAD, JOSHUA ANTHONY LUZANDE |
| 16 CLEOFE, DENNIS VARGAS | 49 POBLETE, LAURENCE CARLO TIBAYAN |
| 17 CONTI, ARIANE KEYZLE UNTALAN | 50 PRINCIPE, LEUMAR PALCUNGAN |
| 18 CUETO, GEOFFREY LASTRILLA | 51 PUGAL, SWEET AUBREY OLIVAS |
| 19 DAPOC, SHIELA MAE SARMIENTO | 52 RECAÑA, MARIELLE COMIA |
| 20 DE LUNA, LAWRENCE ZEDRICK LAGRADILLA | 53 REYES, MARIA SOPHIA CANDA |
| 21 DELOS REYES, HAZELLE ANDUZON | 54 RIMANDO, JOHN MARK MILLESCA |
| 22 DIUCO, MARK LOUIE TUYADO | 55 ROMANO, AL RODAJE |
| 23 ESPERO, OLIVER DELA CRUZ | 56 RONDATO, YAHIYA ANDER |
| 24 ESPIRITU, TEODY NILLO | 57 ROSALES, RONDELWIN DE ROXAS |
| 25 FERIA, RONEL BAYOGOS | 58 SAMARTINO, JOHN MEGRYAN BOLO |
| 26 FERNANDEZ, ANNA CARMELA BRUCAL | 59 SEMBRAN, GABRIEL DOMINIC SANTOS |
| 27 FERRER, SAMANTHA JAYNE RABIN | 60 SOLIMAN, KENNETH LLANES |
| 28 FORTON, RANJELLE NAVARRO | 61 TATOY, JIAN RABIN MUSNI |
| 29 FUNDAN, ESTEFANY SERENIO | 62 VALENCIA, IRA FRANCIS MIRANDA |
| 30 GABA, ALONA BAGSIC | 63 VILLARUZ, JOBERT RENOMERON |
| 31 GUTIERREZ, KINLY ROSE CRUZAT | |
| 32 HERMOSO, IAN PAUL CUENCA | |
| 33 KALALO, LUIGI VASQUEZ | |



1. Emilio L. Ejercito, Sr. +	
2. Lucio Javier +	1958-1959
3. Cesar Cabrera +	1960-1961
4. Antonio C. Menor	1962-1963
5. Lamberto U. Ocampo	1964-1965
6. Oscar I. Ilustre	1966-1967
7. Manuel P. Mañosa, Sr. (+)	1968-1969
8. Susano R. Negado	1970-1971
9. Jesus C. Perlas	1972-1973
10. Ernesto J. Battad (1976-1977)	1974-1975
11. Eluderio S. Salvo (1978-1979) (+)	1976-1977
12. Alberto Q. Suguitan	1978-1979
13. Porthos P. Alma Jose (1982-1983) (+)	1980-1981
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18. Bernardo N. Buenaventura	1990-1991
19. Florencio G. Cunanan	1992-1993
20. Alfredo B. Espino	1994-1995
21. Corazon DLR Romero	1996-1997
22. Isidro Fajardo (Ret. MGen.)	1998-1999
23. Anthony Jerome M. Lara	2000-2001
24. Nelson S. Se, Sr. (+)	2002-2003
25. Francisco S. Bravo (Ret. MGen.)	2004-2005
26. Ranulfo C. Feliciano	2006-2009
27. Ascencion G. Fonte, Jr.	2010-2011
28. Antonio A. Avila	2012-2013
29. Bonifacio B. Magtibay	2014-2015
30. Robert S. Licup	2016-2017
31. Romeo R. Quizon	2018-2019
32. Virginia T. Rocabo	2020-2021

1977- Lamberto U. Ocampo

1979/80- Bienvenido Garcia

1982- Emilio Ejercito

1984- Pastor A. Lozada

1987- Esmilario Lara

1989-Ernesto San Juan

1991-Ricardo De Leon

1993-Teofilo Asuncion

1995-Ruben A. Hernandez

1997-Melanio Lara

2000-Corazon DLR Romero

2002-Antonino Hormillosa

2005-Bernardo N. Buenaventura

2007-Alfredo B. Espino

2009-Graciano Calayan, Jr

2011-Erlinda Mendoza

2013-Jose E. Cabanting

2015-Ascencion G. Fonte, Jr.

2017-Rolando G. Mangulabnan

2019-Anthony Jerome M. Lara

1978- Oscar Ilustre

1981- Ricardo S. De Leon

1983- Delfin Gonzales

1985- Cesar Cabrera

1988- Jorge Ponce

1990/98-Eluderio Salvo

1992-Ernesto Battad

1994-Porthos P. Alma Jose

1996-Arturo Ramos

1999-Noel B. Franco

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2003-Francisco S. Bravo

2006-Flordeliza C. Villaseñor

2008-Florencio G. Cunanan

2010-Cesar Madriaga

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2016-Rex L. Labadia

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Adan, Benedicto L. (+)
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Furanggan, Clemente R., Jr. (+)
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Hormillosa, Antonino A. (+)
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Labadia, Rex L. (2015)
Lara, Anthony Jerome M.
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Mangulabnan, Rolando G. (2017) (+)
Mansueto, Guadalupe O. (+)
Navarro, Eppie C. (+)
Ocampo, Lamberto U.
Ongcoy, Rico S.
Ouano, Eustaquio S. (+)
Quizon, Romeo R. (2015)
Ramos, Arturo A. (+)
Salvo, Eluderio S. (+)
Sawal, Leonardo C. (2017)
Silva, Alfredo S. (2016)
Viray, Pedro S. (+)

Ajaban, Robert R. (2016)
Bravo, Francisco S.
Cabrera, Cesar G. (+)
Cleofas, Dolores SD. (2015)
Cunanan, Florencio G.
Del Fierro, Eduardo M. (+)
Establecida, Cielito P.
Faller, Rodolfo D. (+)
Fernandez, Armando T.
Garcia, Bienvenido N. (+)
Hernandez, Ruben A. (+)
Hornilla, Bernardo C. (2013)
Kaimo, Antonio E.
Lagmay, Eugenia L.
Lara, Florimond M.
Madriaga, Cesar L.
Mansueto, Antonio A. (+)
Manosa, Manuel P. (+)
Oamil, Johnny P. (+)
Ojeda, Alejandro L., Jr.
Ouano, Ely Anthony R.
Ponce, Jorge C. (+)
Rocabo, Virginia T. (2017)
Romero, Corazon DLR
San Juan, Ernesto B. (+)
Se, Nelson S., Sr. (+)
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Zabat, Mario D. (+)

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2020 VIRTUAL CONFERENCE

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President: Moriel Prado

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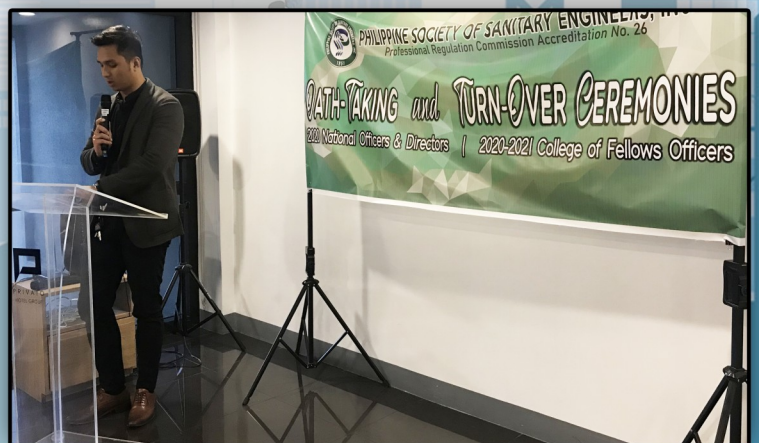
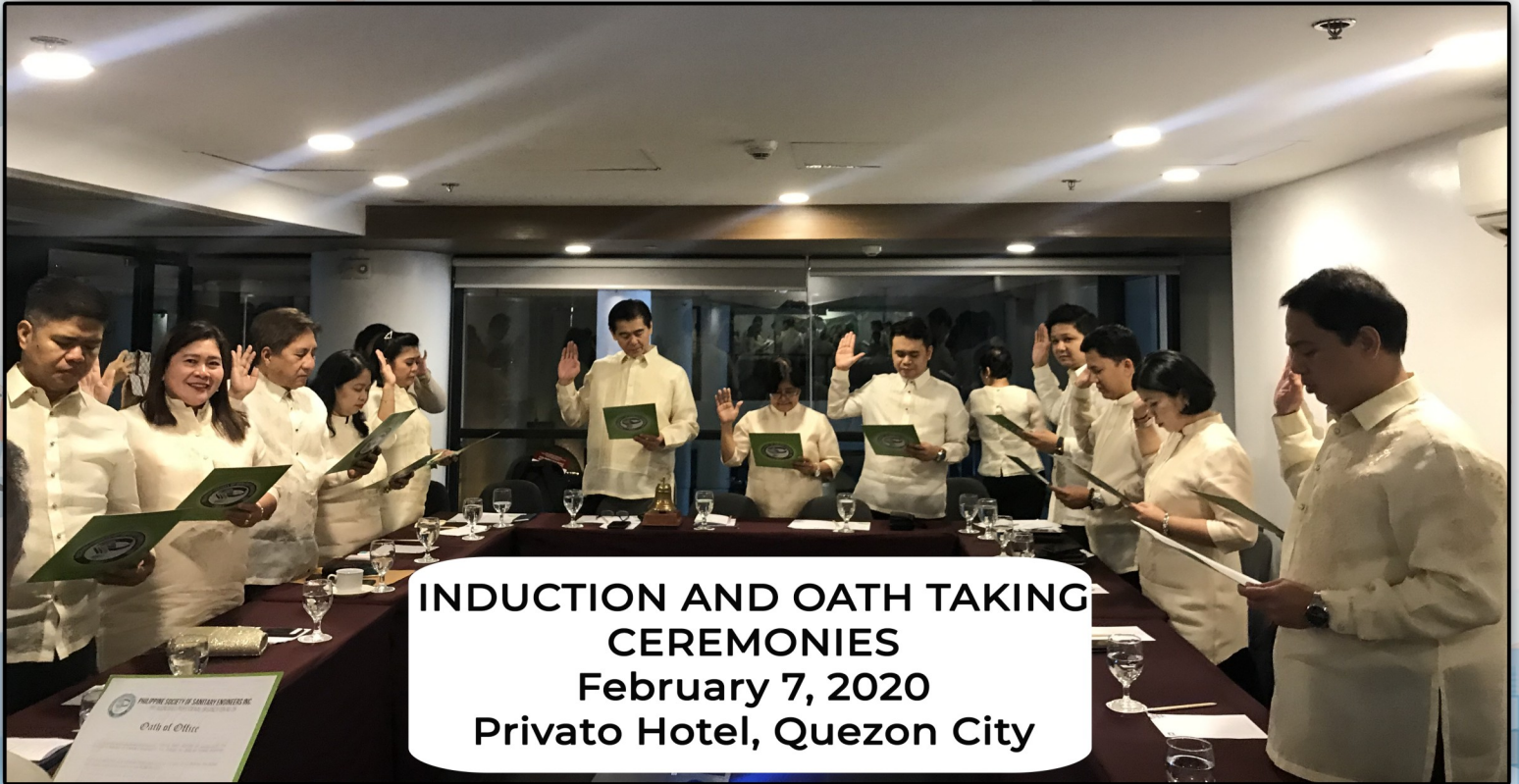
President: Lizamyl R. Laping

**SANITARY ENGINEERS IN THE TIME OF PANDEMIC:
MOVING FORWARD TO A NEW NORMAL**



**TAAL RELIEF OPERATION
January 17, 2020
San Luis, Batangas**

Pictures

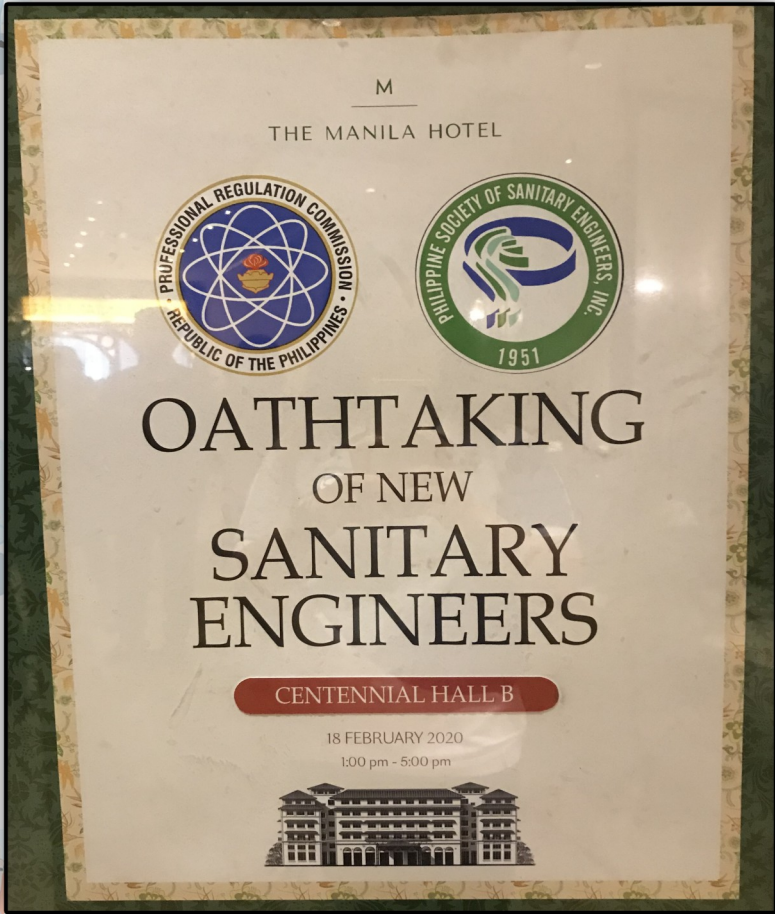




**College of Fellows Officers
Oath Taking Ceremonies
Feburary 7, 2020
Privato Hotel, Quezon City**



Pictures





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Thank You
FOR YOUR
SUPPORT

WE APPRECIATE YOUR GENEROSITY.

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Eastern Police District
NCR, PNP
— April 22, 2020 —



Dr. Jose N. Rodriguez Memorial Hospital & Sanitarium
Tala, Caloocan City
— April 30, 2020 —



PAGKAKAISA PAG-ASA
— Total Amount of Received Donation: —
Php 125,000.00



Philippine Children's Medical Center
Diliman, Quezon City
— April 30, 2020 —



**7th PFFPA Excellence Award
Feburary 29, 2020
The Manila Hotel**

Pictures



**2020 World Engineering Day
March 4, 2020
Ramon Magsaysay High School**





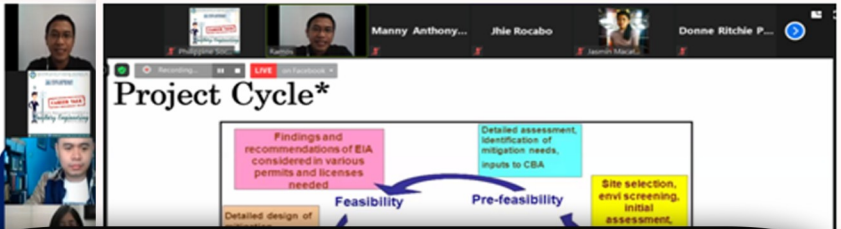
**2020 World Engineering Day
March 4, 2020
Ramon Magsaysay High School**

WEBINAR: Career Path Orientation
















Sanitary Engineers specializing in Environmental Engineering

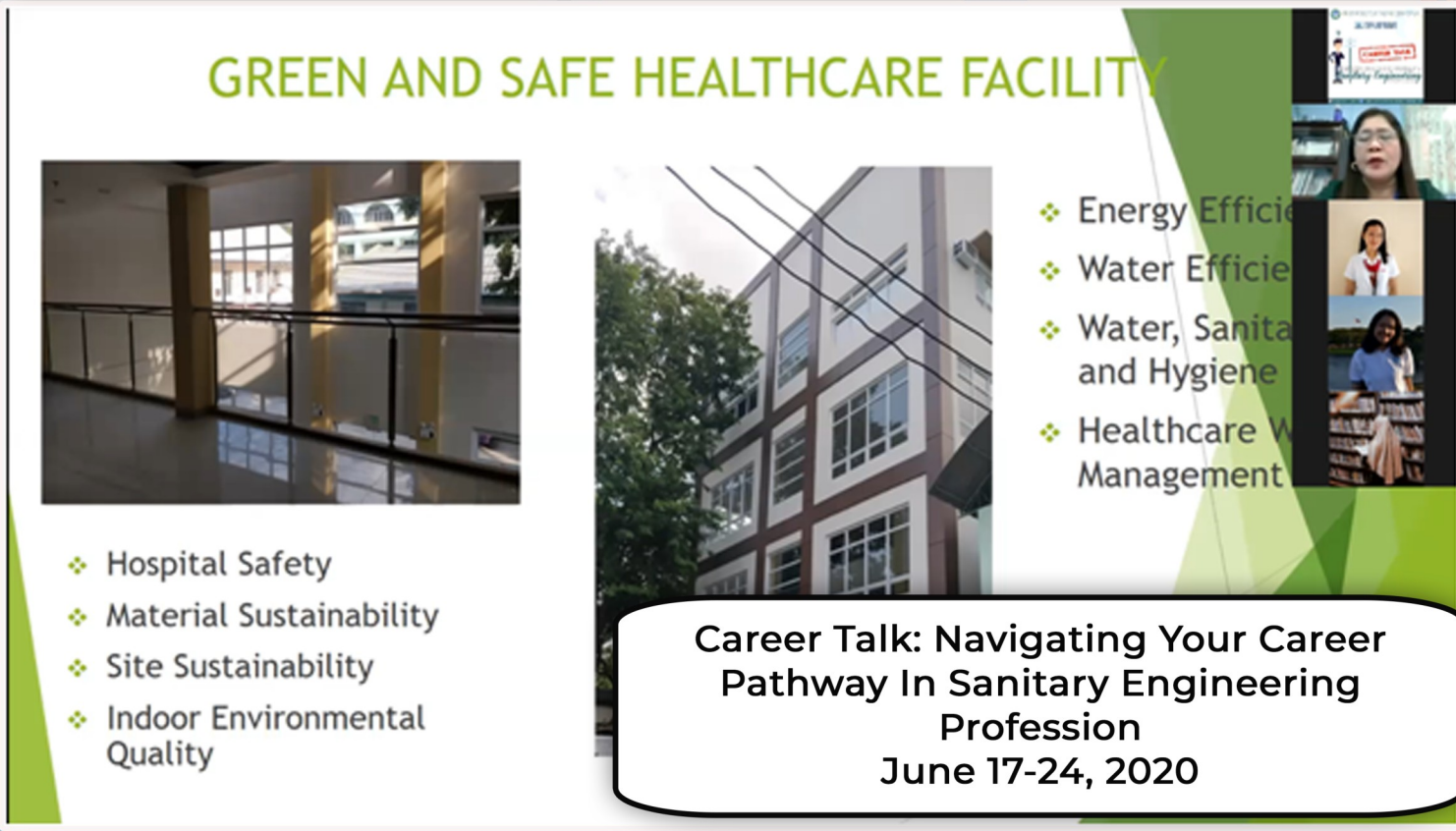
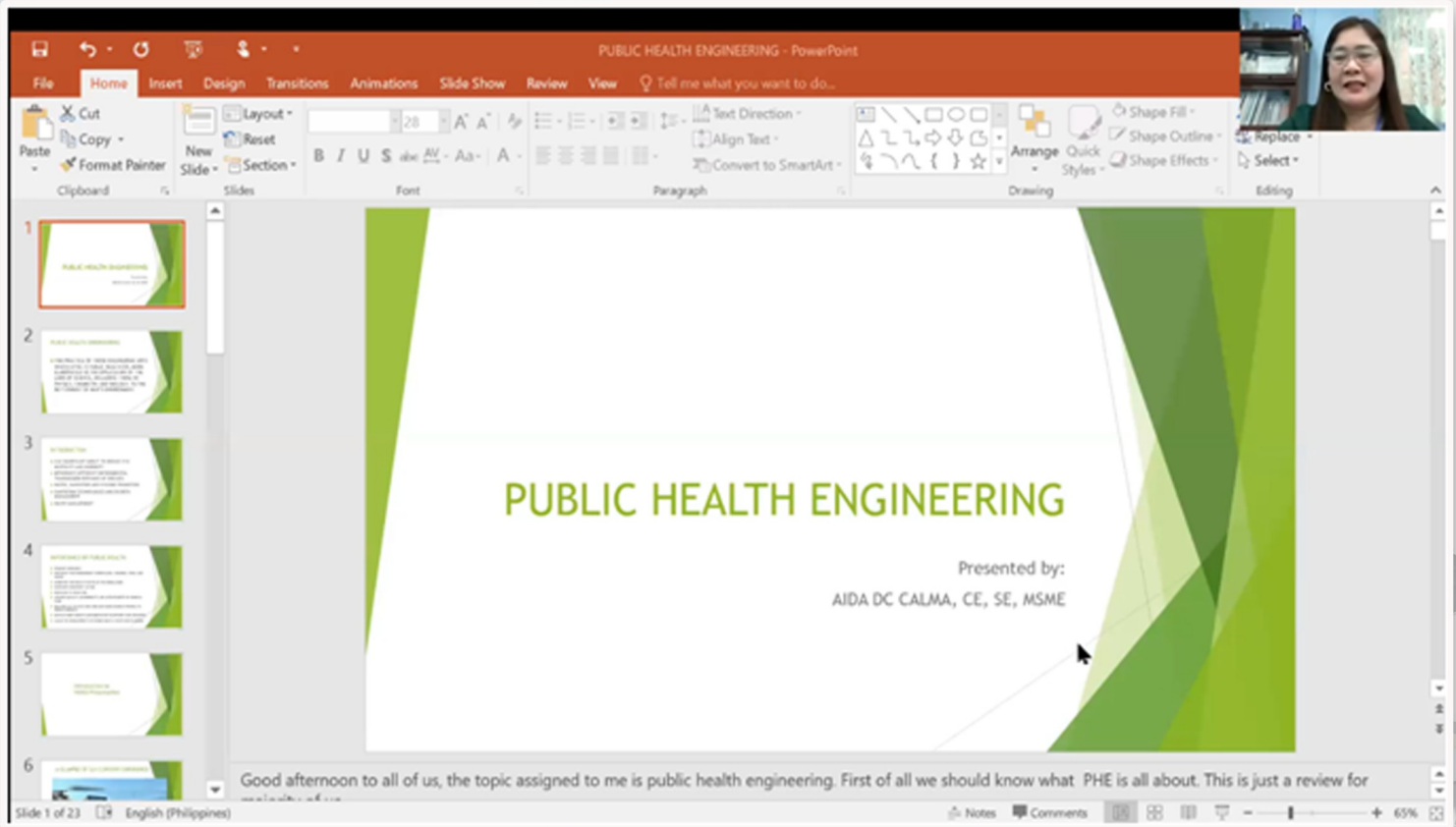
Franz Furby C. Ramos
PSSE – MRO

18 June 2020



Career Talk: Navigating Your Career Pathway In Sanitary Engineering Profession
June 17-24, 2020

 Janrey Chester Gomez	Wincy Sta Ana	Ivy Mel Langba...	 Joshua Cantor	 CEA Joshua Shern Bar...
Kyzell Rafanan	Donabelle Ondo...	 Catherine Larga	Jeramie Katigbak	Jennice Toledo
Lizamyl Laping	Claire Alyss Ala...	May Ann Veloria	Allan Alzona	 Leovin-Rane Sanchez
Prabhjot Tattla	Arjone V. Almuete	 Loren Balaing	Mana, Rose Ann	Zhairra Almodo...
 Vanji Lacorte	Dave Despabila...	Vinna L. Dolor	 Chantel Joyce Hofflena	 Gretel Narciso
Alevialyn Franci...	Ronnielyn Villa...	 Loren Balaing	Quennie Ybanez	Leonard Lou Ca...
Angela Blanco	Jenny Irish Valdez	Marvin Benedicto	Rose ann Libati...	 Christiene Gonzales
 Janrey Chester Gomez	Wincy Sta Ana	Ivy Mel Langba...	 Joshua Cantor	 CEA Joshua Shern Bar...
Kyzell Rafanan	Donabelle Ondo...	 Catherine Larga	Jeramie Katigbak	Jennice Toledo





CAREER TALK: Navigating your career pathway in Sanitary Engineering Profession

Subject Matter: Water Supply / Resource Engineering

Careers today in the broad area of water supply & resources development are **many & varied**"promising & challenging"

Water Pollution is one of the pressing social & economic issues of our time & will continue to be. It is a major problem in public health & we have to do a better job to have enough clean & potable water supply



PSSE's 2020 W

Career Talk: Navigating Your Career Pathway In Sanitary Engineering Profession
June 17-24, 2020

Jobs related to Water Supply Engineering

- < Design, Supervision & Operations of Waterworks including storm water
- < Consultancy (Researcher, Analyst)
- < Environmental Specialist, Environmental Manager
- < Pollution Control Officer (PCO) &/or Managing Head
- < Regulatory Officer (IRR of Water Supply of PD 856, Clean Water Act, DENR AO 2016-08) **Water Refilling Stations**

Current Situation in PH

- < Shortage of Sanitary Engineers (govt, private)
- < Prefers the practice of Civil Engineering profession than SE

Advantages of Practicing SE

- < Job Opportunities because of Climate Change
- < Regulatory requirements of DOH & DENR





PHILIPPINE SOCIETY OF SANITARY ENGINEERS, INC.
PRC ACCREDITED PROFESSIONAL ORGANIZATION NO. 26

2020 WEBINAR
LECTURE SERIES

CIVIL ENGINE SPECIALIZATION



Engr. Albert A. Perfecto, ACPE
Managing Partner
National Housing Authority

JUNE 18-24, 2020 WEBINAR PLATFORM: ZOOM MEETING APP

**Career Talk: Navigating Your Career
Pathway In Sanitary Engineering
Profession
June 17-24, 2020**



RA NO. 10912

- CONTINUING PROFESSIONAL DEVELOPMENT (CPD) ACT OF 2018 SECTION 12 AND 11

RA NO. 10912 – SECTION 4

- PQF, ASEAN QUALIFICATION REFERENCE FRAMEWORK (AQRFF)
- ASEAN MUTUAL RECOGNITION ARRANGEMENTS

RA 10968 – SECTION 2

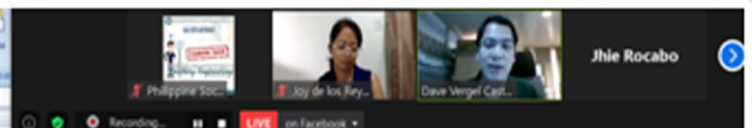
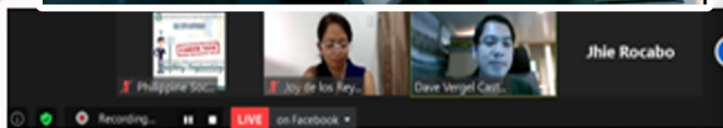

- PQF (PHILIPPINE QUALIFICATION FRAMEWORK)

RA 544 – SECTION 4 ARTICLE II CIVIL ENGINEERING LAW

Plumbing System - Fundamentals

PLUMBING SYSTEM COMPONENTS

- WATER SUPPLY AND DISTRIBUTION SYSTEM
- SANITARY DRAINAGE AND DISPOSAL SYSTEM
- STORM DRAINAGE SYSTEM
- PLUMBING FIXTURE
- FIRE PROTECTION SYSTEM
- FUEL AND GAS PIPING SYSTEM



FIRE PROTECTION ENGINEERING

Divisions in actual practice of Fire Protection in Philippines:

3. Architect, Civil/Structural, Mechanical, Electrical and Electronics Engineer
 - Responsible

FIRE PROTECTION ENGINEERING

Divisions in actual practice of Fire Protection in Philippines:

1. Fire Protection Engineer
 - Active Systems

Career Talk: Navigating Your Career Pathway In Sanitary Engineering Profession
June 17-24, 2020



WASTEWATER ENGINEERING: Navigating your Career Pathway in Sanitary Engineering Profession

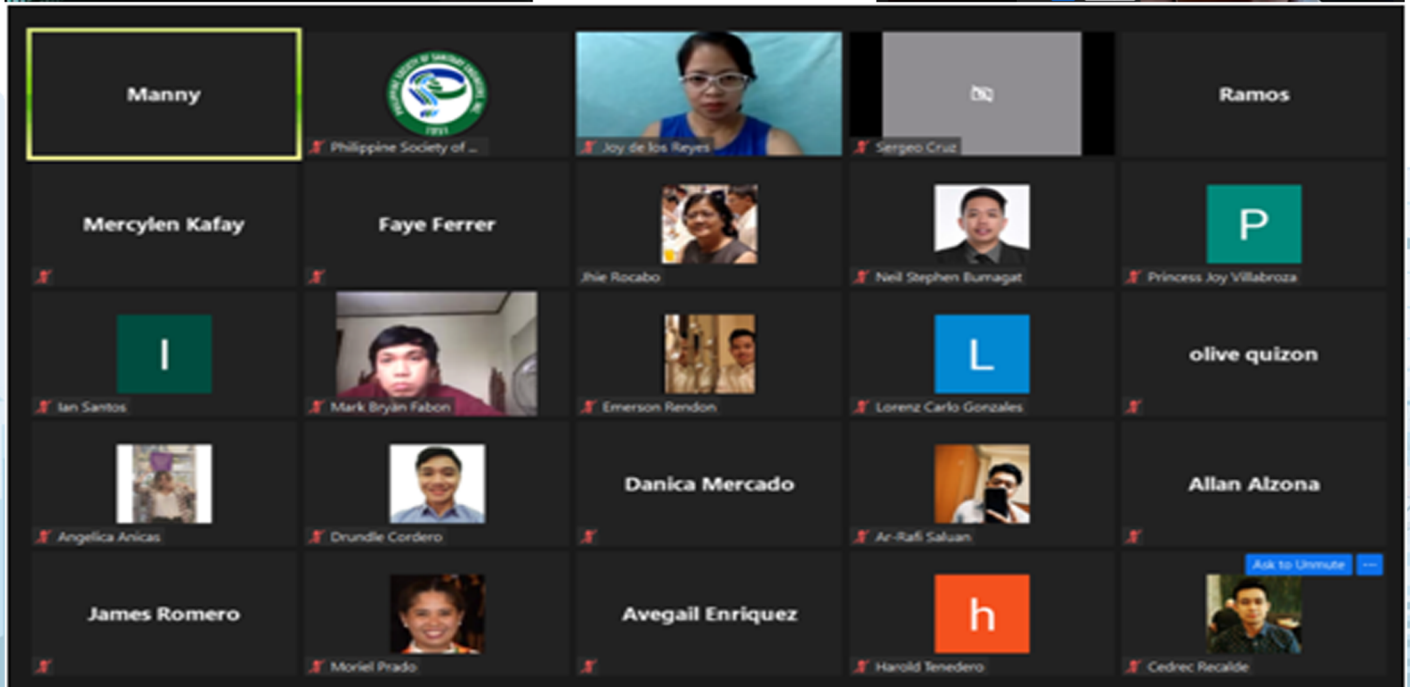
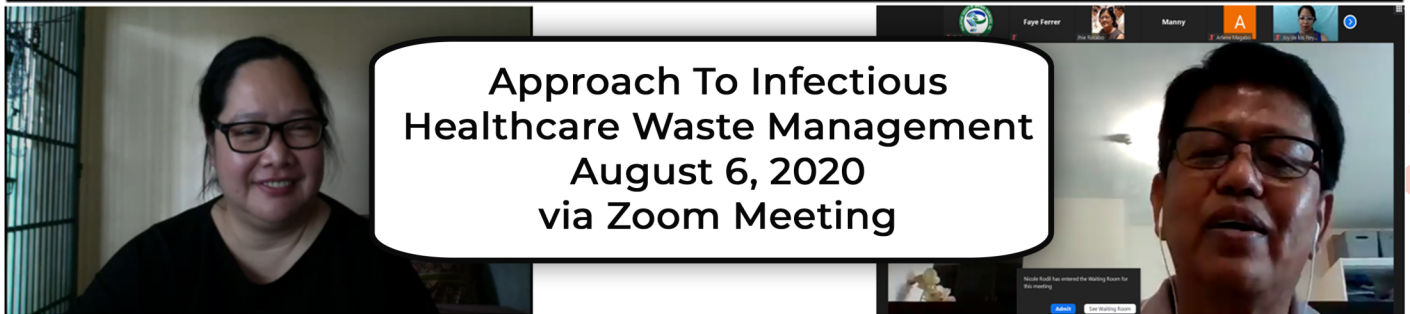
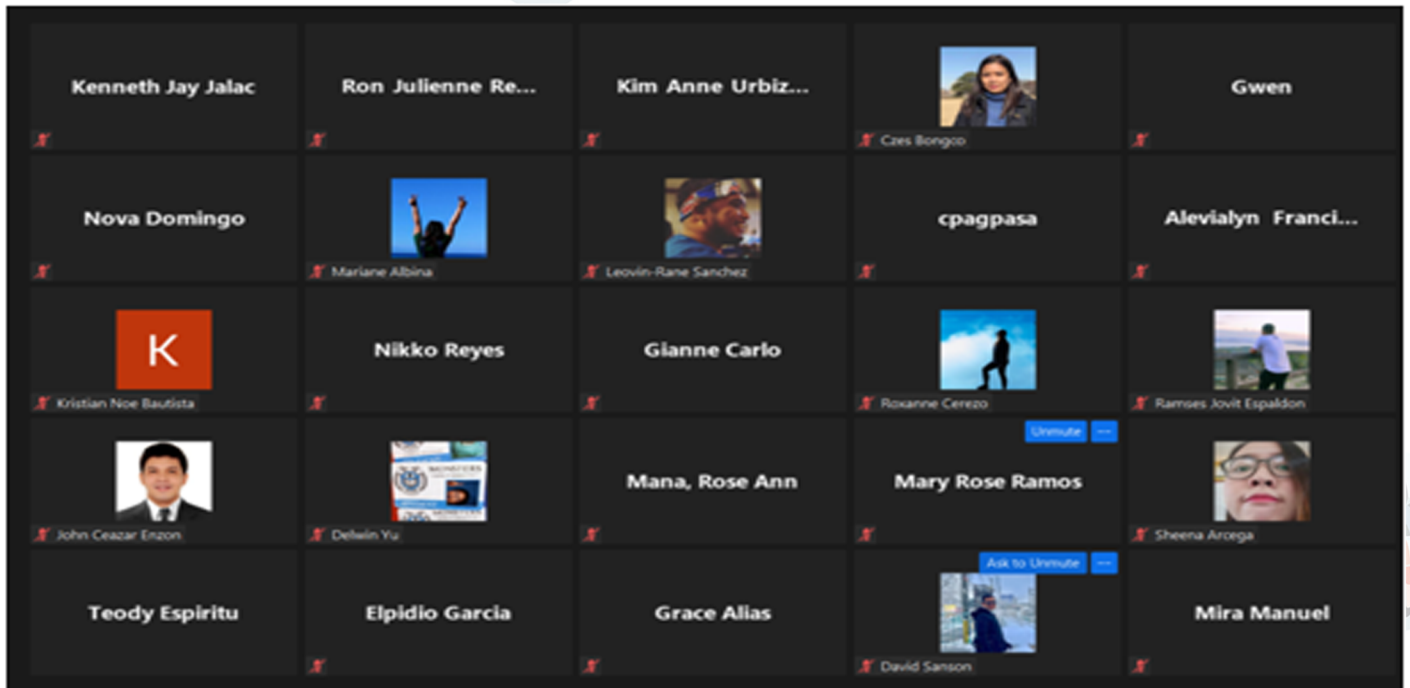


Webinar:
24 June 2020, 9am



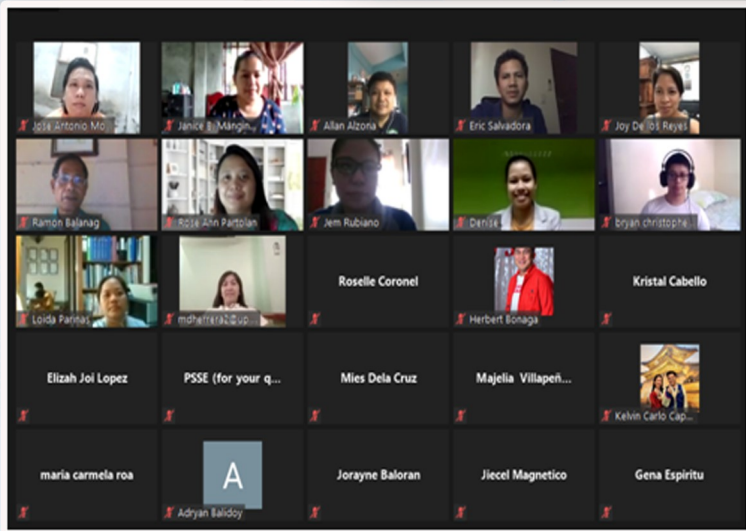
Career Talk: Navigating Your Career Pathway In Sanitary Engineering Profession
June 17-24, 2020

Pictures





**EIA of Infrastructures and Development:
 An Online Training
 August 22, 2020
 via Zoom Meeting**



Pictures



FIRE SCIENCE

PREPARED BY: RAMIL S. GUTIERREZ

$K_1 = 2.6$
 $P_{10 P11} = 17$
 $K_2 = 11.15$
 $Q_{17} = 10.80 \text{ m}^3/\text{s}$
 $P_{10 P11} = 17$
 $K = 5.6$

$Q_{20} = 18.4 (2)$
 $= 36.80 \text{ GPM}$

FIRE ALARM AND DETECTION SYSTEM

SPRINKLER HEADS BULB TYPE

Quick Response

3 MM Bulb

Standard Response

5 MM Bulb

R.A. 8041 National Water Crisis Act of 1995

RA 8041

Water Crisis Act of 1995

RA 8041 Water Crisis Act of 1995

Lead the way in the privatization of MWSS operation and other water district.

Water Hammering (Air Chamber)

ISOMETRY

IN THE ABSENCE OF THE WATER HAMMER ARRESTOR, AIR CHAMBER IS THE ONE WE ARE USING TO ADDRESS THE WATER HAMMERING ISSUES. IN THE IMAGE PRESENTED (SHOWER ASSEMBLY), WOULD YOU SAY THAT IT IS NECESSARY TO PUT AIR CHAMBER IN THIS INSTALLATION?

A.) YES

B.) NO

PLEASE EXPLAIN, WHY?



Fundamentals of
Plumbing Design and Fire
Protection
as Applied to Buildings

September 19 & 26,
2020
via Zoom Meeting

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E mail: litoestablecida@yahoo.com; cpeengsvcs@gmail.com



Rogenox Construction and Supply Corp.
Tayug/San Nicolas, Pangasinan

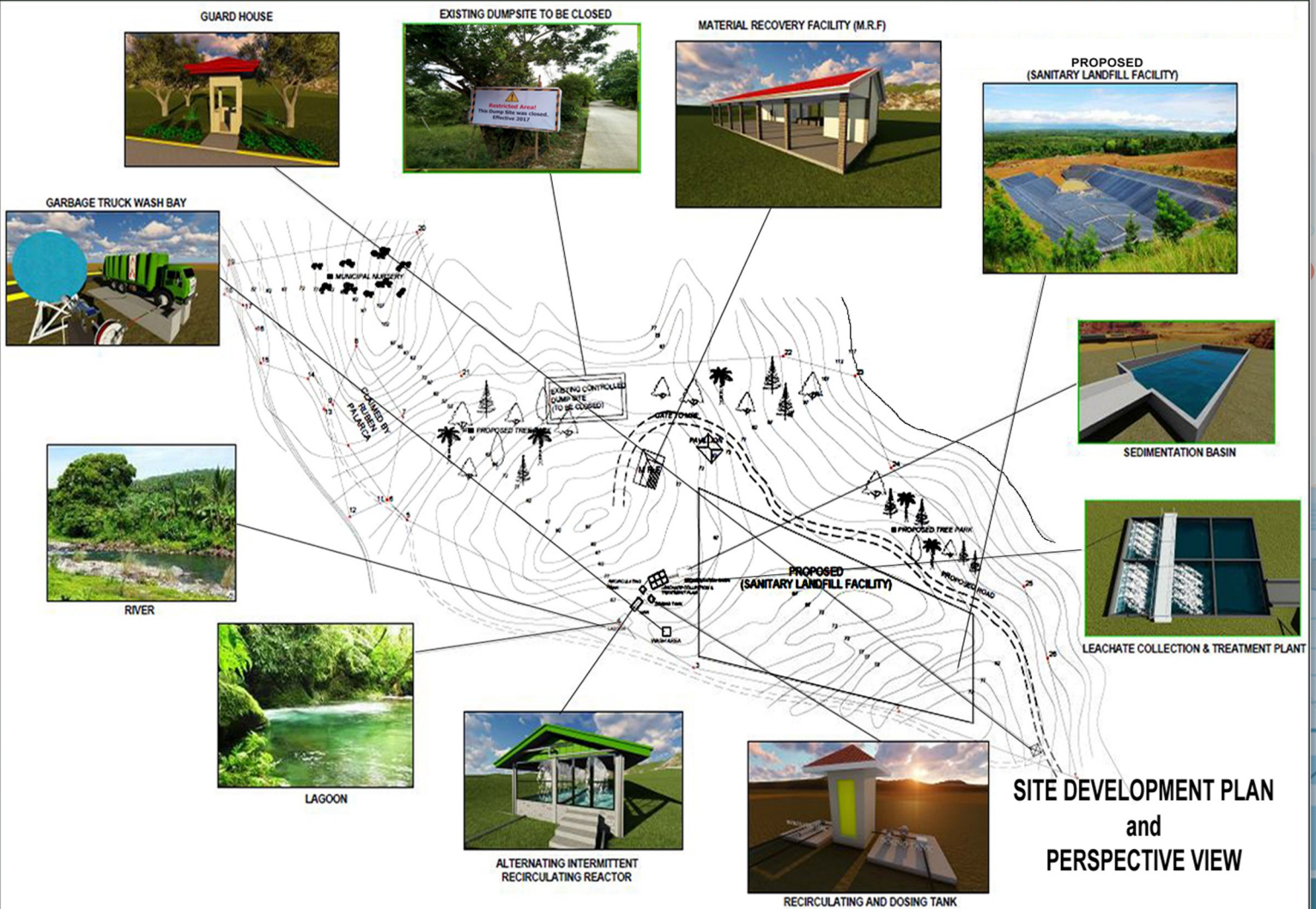


**Congratulations to the
Philippine Society of Sanitary Engineers (PSSE)
on it's**

2020 Annual National Convention

theme:

**SANITARY ENGINEERS IN THE TIME OF PANDEMIC:
MOVING FORWARD TO A NEW NORMAL**



Bambang, Nueva Vizcaya Sanitary Landfill
***First Sanitary Landfill in Region II**

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**SANITARY ENGINEERS IN THE TIME OF PANDEMIC:
MOVING FORWARD TO A NEW NORMAL**



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Mobile: 09257107724 Email Address: jamanprods@gmail.com



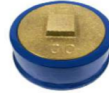
Floor Drain



Pure SS Floor Drain



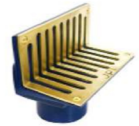
Basket Strainer



Clean Out



Roof Drain



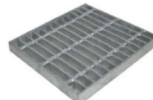
Scupper Drain



Trench Grating



Catch Basin



Steel Grating



SS Grease Trap



Manhole Cover

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Full Open Silent Check Valve



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Pressure Reducing Valve



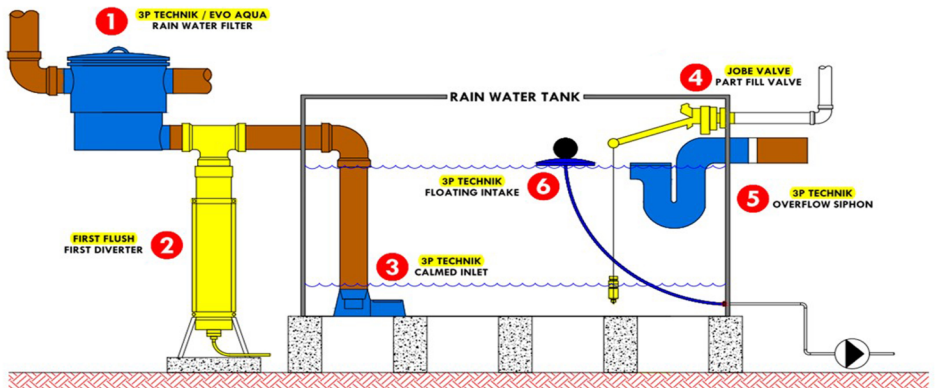
Pressure Relief Valve



3P Technik

RAIN WATER
HARVESTING
SYSTEM DIAGRAM

LEGEND:	
1	3P TECHNIK / EVO AQUA RAIN WATER FILTER
2	FIRST FLUSH FIRST DIVERTER
3	3P TECHNIK CALMED INLET
4	JOBE VALVE PART FILL VALVE
5	3P TECHNIK OVERFLOW SIPHON
6	3P TECHNIK FLOATING INTAKE



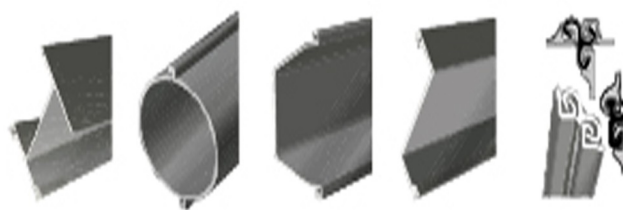
Look for: Krizia Anne Reyes: 09171407353 Mary Apple Embodo: 09283685453

REGAN PROVIDES VARIETY & CHOICES

SECTIONS



H-Beam Channel Angel I-Beam T-Beam



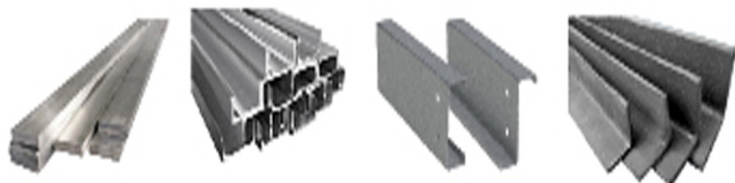
H PILE O PILE U PILE Z PILE FILE CONNECTORS CORNER SECTIONS TIE ROD

FLAT BARS

CHANNEL BARS B.I & G.I.

C & Z PURLINS B.I & G.I.

ANGLE BARS EQUAL & UNEQUAL



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1 CORINTHIANS 10:31

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uPVC Electrical Conduit Pipes

CROWN[®] **SUPREME** (Thick Wall)
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CROWN[®] **UNIVERSAL** (Multi-Purpose uPVC Pipes (Thin Wall))
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Series 600 (ASTM)
Series 1000 (ASTM)
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Crown[®] Blue PNS-65
uPVC Potable Pipes
Size range: 20mm-63mm



Crown[®] Pressure Main Blue PNS-65
Distribution uPVC Pipes
Size range: 63mm-315mm



Corrugated



Rib Type



TileTech



uPVC ROOFING
(Unplasticized PolyVinyl Chloride)

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CROWN[®] StrongRib

ASA LAMINATED
(Acrylic Styrene Acrylonitrile)

CROWN[®] SmartRoof
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Carat S Professional package

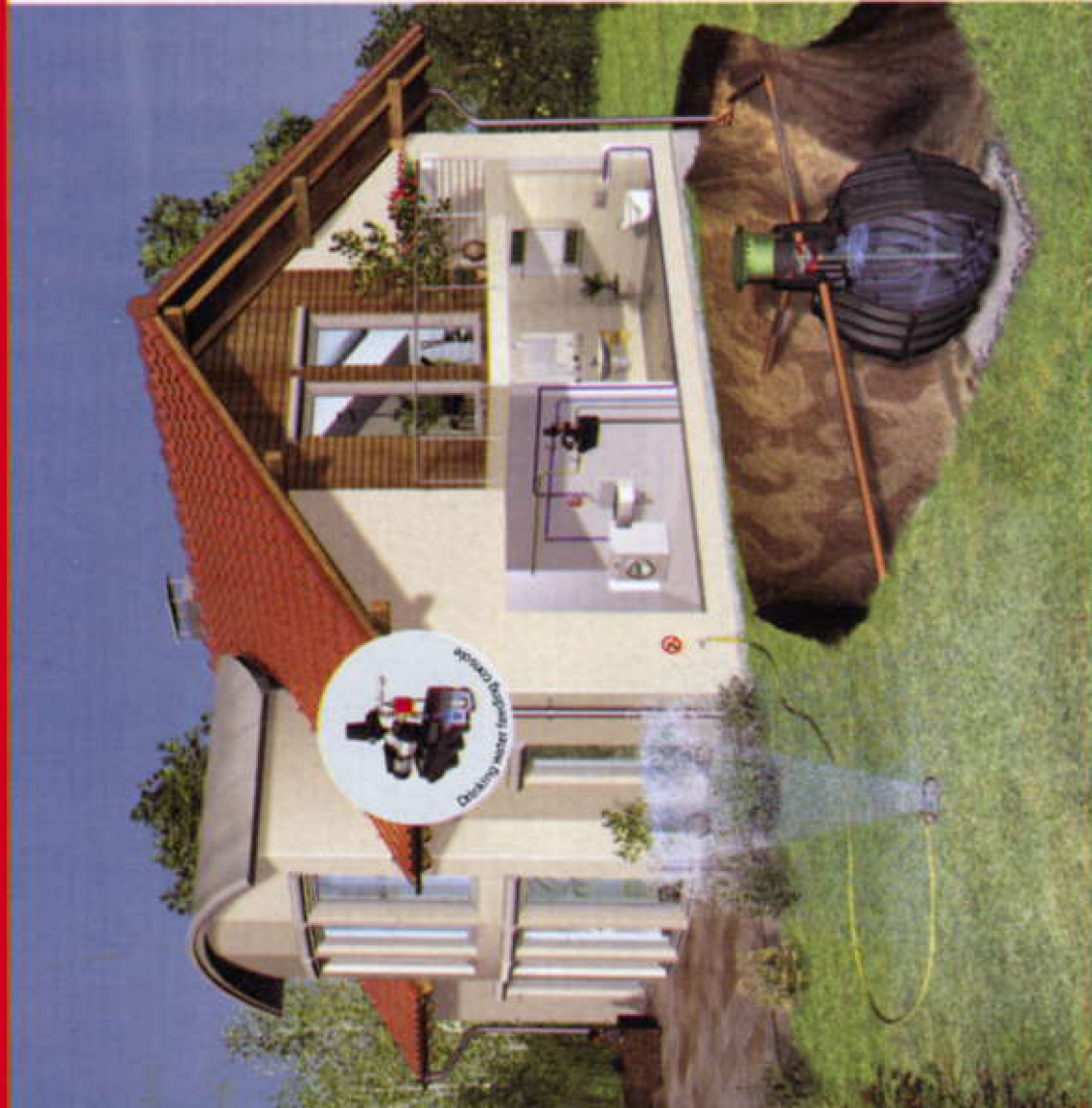
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Carat S Eco-Plus package

- Economic package solution
- Patented filter technology and in-house pump system with automatic switch-over to mains water supply
- Easy to assemble due to modular components
- Float switch controlled
- Low visual impact

Capacity/litres	US gallons
3-750	1.000
4-800	1.250
6-500	1.700
8-500 ^{b)}	2.240
10-000 ^{d)}	2.640
13-000 ^{d)}	3.400

^{d)}Carat XI, underground tank

^{x)}Set consisting of two Carat S underground tanks



Vehicle loading version available

