2017 BEST INTERNATIONAL CHAPTER FOR NEWSLETTER AND COMMUNITY SERVICE

PICE Qatar NEWSLETTER

The Official Publication of the Philippine Institute of Civil Engineers – Qatar Chapter

www.piceqatar.com

SEPTEMBER 2018 ISSUE

Writeshop for Advance Level Engineer held

Alfonso Betita

PICE-Qatar Founding President Engr. Roy Baquiran leading the two-day writeshop for Advance Level Engineers.

PICE Qatar collaborated with the PhilippineTechnological Council (PTC) in hosting this year's writeshop for ASEAN Engineering Registry (AER)/APEC Advance Level Engineer Application based on APPLICATION GUIDELINES FOR ASEAN ENGINEERING REGISTRY VERSION 4 series 2018 last September 12 and 19, 6:00 PM to 10:00 PM at the Holiday Inn Doha – The Business Park, Airport Road, Doha, State of Qatar.

Engr. Roy L. Baquiran, LM-PICE, PMCES, ICIOB, ASEAN Engr., ACPEng, APEC Engr., PICE-Qatar's Founding President and Deputy Coordinator for PTC in Doha, Qatar was the speaker/ presenter during the two-day event. He discussed the importance of having an advance level engineer's accreditation and its relevance to K12 and the Washington Accord requirement where the Philippine is still under the "observer" status to-date on the 1st day of the writeshop. On the second day however, the focus of the writeshop shift on teaching the participants how to prepare the applications specifically in writing the Career Episode segment of the application.

The writeshop was undertaken as prelude to the AER Conferment ceremony to be held on October 19, 2018. Writeshop is a mandatory requirement for the ASEAN / APEC Advance Level Engineer application.

The writeshop has attracted 89 participants composed of 65 Civil Engineers, 23 Mechanical Engineers and 1 Geodetic Engineer.

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OPINION

Writeshop – PICE-Qatar answer Advance Level Engineers' application issues

The recently conducted writeshop for the ASEAN ENGINEER REGISTRY / APEC ENGINEERS is a blessing to those who are aspiring for inclusion to those advance engineering level registries. Participants have lots to thank about as the event came at a right time when new requirements and new formats were issued for immediate use in the application.

Aside from being one of the requirements, the writeshop gives the participants a whole lot of ideas on how to deal with difficult questionnaires and on the preparation of professional career episode segment.

The resource speaker, PICE-Qatar's founding president also discussed the importance of having an advance level engineer's accreditation and its relevance to K12 education system and the Washington Accord requirement where the Philippine is still under the "observer" status as of to-date.

As the Committee on Life Membership and Specialist Applications + Engineering Registry Application (COLSA), the standing committee created for the review purpose most often than not find itself in challenging situations during reviews wherein the application and documents ended up in the cycle of return and resubmission multiple times, the writeshop itself is a heaven sent.

With complete understanding of the requirements and the way to fulfill those requirements, it is with great optimism that the problems encountered before will be minimized this time around – a relief for both the applicants and the reviewers. Clearly, the time essence and the amount of wastage and expenses will be minimized plus many other intangible benefits at an affordable cost.

Though the mentioned event was held to cater to all engineering disciplines that are part of the PTC, the majority of the beneficiaries are practicing Civil Engineers in Qatar. PICE-Qatar and the dedicated souls behind it truly never fell short of brilliant ideas that will cater and benefit its constituents.

That is not all however. Next month comes the Conferment Ceremony for New ASEAN Engineers and it will be right here in our doorstep in Doha, Qatar.

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THE PRESIDENT'S LOUNGE

Me ssa g e fr om the P re s i -

Aileen Abejero-Buenaflor
CEng, ASEAN Eng.
1st Female President of PICE-Qatar Chapter

It is already the start of the "BER" months. We Filipinos have one of the longest Christmas Season in the world which actually starts on September and ends around first week of January the next year. Some of us will be attending Christmas parties starting this September which also marks the start of the hanging of Christmas decorations in every Filipino home back in the Philippines and here in the State of Qatar. Many of us will also look forward to Simbang Gabi leading up to Christmas Day.

And once again, I am here to report to you the accomplishments of PICE-Qatar Chapter for the month of September 2018, to wit:

A. September 5, 12, 19 and 26, 2018 – PICE-Qatar Chapter held its Wednesday and Sunday Meet-Ups from 7:00 a.m. until 9:00 p.m. on these dates. The venues of the Meet-Ups are the Filipino Cultural Center (FCC) and BIG Diners Restaurant. Once again, the undersigned would like to respectfully inform that these meet-ups is an opportunity to assist the members in their seminar registrations, membership registrations/dues and other related activities. We would like to extend our sincerest appreciation to the COME team for all the efforts they put in reaching out to all the members.

B. September 21, 2018 – The Committee on Honors and Special Professional Licensure Board Examinations (COHOPLE) Team led by Engr. Bernard De Vera launched the Orientation for the Preparation of the 2019 Special Licensure Professional Examination (SPLE). Engr. Roy Baquiran and yours truly introduced PICE-Qatar Chapter to the new members. We likewise provided them a brief history of PICE-Qatar Chapter with insights of all the activities being regularly held by the organization. Engr. Helario Amoguis, one of the instructors for SPLE, talked about the preparations to take during the review and examinations and emphasized on the importance of having a professional license. The Orientation was held at Rotana City Center. The review class which will also include a refresher course will be held for thirty-nine (39) Fridays. The Review classes hope to prepare the participants for the Board Examinations. PICE-Qatar Chapter encourages Associate members to find the time and grab the opportunity to avail of this Program. This Program will definitely help the members in achieving their dream of becoming a licensed Civil Engineer.

C. September 7, 2018 - The Ad-Hoc Committee on Professional Education (CPE) held its Orientation on Distance Learning Program of Masters on Construction Management which will be offered by Polytechnic University of the Philippines (PUP). There was an initial batch composed of thirty-eight (38) members who had signified their interest and attended the said Orientation. The Orientation was facilitated by Sec. Elvin Fajutagana who will also spearhead this Distance Learning Program together with the CPE under the supervision of 1st VP Sheila Medel.

D. September 12 and 19, 2018 – The Committee on Life Membership and Specialist Applications (COLSA) conducted the ASEAN/APEC SEMINAR–WORKSHOP for the 2nd Batch. The Seminar-Workshop will provide the members insights on how to fill out the application forms as well as having them equipped with the knowledge and techniques in preparing their Engineering Practice Report, as required for APEC applicants. The speaker of the workshop is no other than our energetic Founding President Roy Baquiran. At the end of the Workshop-Seminar, the Committee encouraged the participants to prepare all the documentary requirements and application form for the APEC. FP Roy and PTC Mena Engr. Trese Bustamante will review the application forms and attachments before submitting the same for the final review of the PTC representatives Engrs. Monsada and Agatep.

E. September 15 and 21, 2018 – The COPI Team released their August 2018 issue of the PICE-Qatar Newsletter on September 15, 2018. The COPI Team continuously collates all the information and news pertaining to PICE-Qatar's monthly activities and has been an instrument that features the knowledge and expertise of individual members which have benefited readers of PICE-Qatar Newsletter.

F. On September 21, 2018, the COPI Team once again held their Team Building activities at Al Bidda Park, the 3rd of its kind that is considered to be a big factor in COPI Team's efforts to successfully release the newsletter on a monthly basis. Together, let us take our hats off to PICE-Qatar Newsletter Team for a job well done! The PICE-Qatar Newsletter Team is headed by its tireless Editor-in-Chief Engr. Alfonso Belito Betita under the supervision of COPI Chairman Engr. Elenie Nicomedes.

G. September 21, 2018 – The Ad-Hoc Committee on International Award headed by Engr. Alfonso Belito Betita submitted our entries to the PICE National Awards for the following categories: Best International Chapter, Best Community Service and Best Newsletter Awards. The compilations of documentations were very tough but through the help of the Committee members the same were completed on time. I would like to take this opportunity to commend Engr. Alfonso Belito Betita, Engr. Christine Diosan, Engr. Felipe Catinoy and Engr. Jerick Lising and the rest of the team for helping in putting up a comprehensive set of documents that will positively support our quest for the awards. We are already winners because of you guys!

H. September 22 and 26, 2018 – The NOMELEC Chaired by IPP Allen Nacario announced to the General Membership that the Nomination for the candidates for the 2019 Board of Directors started last September 20, 2018 and will end on midnight of October 6, 2018. Guidelines was also posted for all the members to read.

I. NOMELEC started the screening the qualifications of the 1st batch of the Candidates on September 26, 2018. After the screening of all the Candidates, NOMELEC will announce the qualified Nominees for election to the 2019 BOD on the 10th of October 2018.

J. September 26, 2018 – The Major Events Ad-Hoc Committee for the Construction & Project Management Symposium, ASEAN Conferment and Fellowship Night conducted the ocular inspection of the event venue at Wyndham Doha West Bay. The ocular inspection was held to formulate plans for possible venue set ups and arrangement and to discuss the same with the events manager of the hotel.

K. September 7, 14, 21 and 28, 2018 – The 3rd Presidents Cup, which was spearheaded by Sgt-At-Arms Belinda Dela Cruz and assisted by Commissioner Rolan Nevado, were held with the teams of Dark Gray and Golden Yellow battling it out for the coveted championship to be held this coming October 2018. The Dark Gray Team is leading series with a 3-2 slate against the Golden Yellow Team. Who do you think will bag the Championship? Let us watch the games and enjoy!

The support given to PICE-Qatar Chapter by our members is overwhelming and the same continues to inspire us in doing our job for the benefit of everyone. Once again I am extending my warm and sincerest appreciation for the support extended to PICE-Qatar Chapter. Your immense support is truly the lifeblood of our beloved PICE-Qatar Chapter. Once again I am extending my congratulations to each and every one for a job well done! I once again look forward to a very productive October 2018 with your continuous support and active participation. See you once again in all the activities of PICE-Qatar Chapter!

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PICE QATAR UPDATES

Seminar/Workshop on Basic Structural Analysis & Design of Structures using STAAD.pro V8i SS6 and STAAD.foundation V8i v5.3 Updates

Elenie Nicomedes

The four day seminar/workshop for STAAD which is scheduled for 14 Sept, 21 Sept, 28 Sept and 5 Oct respectively at Rotana City Center, West Bay, Doha, Qatar was now on its third day with Engr. Anthony Patino as Guest Speaker, this is according to Engr. Loraine Radan, Chairman – Committee on Continuing Professional Advancement.

This seminar was programmed as follows:

Day 1: Introduction to STAAD.pro

Day 2: Detailed Modelling, Analysis & Design of Simple Reinforced Concrete 3D Structure

Day 3: Workshop on Structural Design of 2-Storey Reinforced Concrete Residential Building using STAAD.pro as per NSCP 2015

Day 4:Workshop on Structural Design of 2-Storey Reinforced Concrete Residential Building using STAAD.pro automatic load generators and STAAD foundation as per NSCP 2015.

There are 24 PICE-Qatar active members attending the seminars who will earn 8 CPD units that can be used in the renewal of their PRC licenses.

PICE-QATAR SCHOLARS ARE NOW FOURTH YEAR IN COLLEGE

Jerick Lising

During the last quarter of 2017, PICE-Qatar Ad-hoc Committee on Scholarship holds the selection of deserving civil engineering students to receive a financial grant to help them finish the civil engineering degree. After the careful screening of student candidates that were endorsed by their respective university, the scholarships were granted to Mr. Michael Catimon of Eastern Samar State University (ESSU) and Mr. Roberto Tanyag Jr. of Bulacan State University (BulSU). At present, they are both fourth year civil engineering students attaining meritorious academic standing and expecting to graduate by academic year 2019-2020.

PICE-Qatar will continue to seek and support worthy students through its programs that will empower the young generations of Filipino Civil Engineers in our home country. This will become possible if we have more sponsors and donors for the said programs. For those who wants to touch and change young people's lives, you may contact directly the Support Programs and Events Committee for Students (SPECS) headed by the chairmanship of Engr. Helario S. Amoguis, Contact No. (+974)33291940 under the supervision of the incumbent PICE-Qatar 1st Vice President Engr. Sheila L. Medel.

PICE-Qatar EXECOMM 2018 holds Monthly Meeting

Elenie Nicomedes

For the 9th times, PICE-Qatar EXECOMM conducted a regular monthly meeting last 7 Sept. 2018 at Rotana Hotel City Center, West Bay, Doha, Qatar.

At 8:20 am, the call to order was made by the sergeant-at-arms Engr. Belinda Dela Cruz and the meeting was presided by the President of PICE-Q, Engr. Aileen A. Buenaflor. There were 25 Executives present including Past Presidents and guests. The meeting finally adjourned at 1:43 P.M.

The meeting was attended by the following:

The President
- Engr. Aileen A. Buenaflor

The 1st VP
- Engr. Sheila L. Medel

The 2nd VP
- Engr. Alfonso Belito C. Betita

The Secretary
- Engr. Elvin D. Fajutagana

The Treasurer
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The COPI Chairman
- Engr. Elenie E. Nicomedes

The COPA & COLSA Chairman
- Engr. Emmanuel German V. Boceta

The CPD Chairman
- Engr. Ausford Acera

The Chairman, Standing Committee
- Engr. Helario Amoguis

The Immediate Past President
- Engr. Allen L. Nacario

Council of Advisers:
Engr. Roy L Baquiran – Founding President
Engr. Noel T. Jumawan
Engr. Ronaldo B. Nilo
Engr. Geraldo T. Managuelod
Engr. Frederick M. Garcia
Engr. Arnel Punsalan

PICE QATAR UPDATES

SPLE Review 2019 slated to start, Review Orientation held

Alfonso Betita

The Special Professional Licensure Examination (SPLE) for Civil Engineers' Review orientation was held at the Rotana City Center, Doha, State of Qatar, on 21, 2018 from 2:00 PM to 5:00 PM under the auspices of PICE-Qatar Committee on Honors and Special Licensure Examination and the stewardship of Engr. Bernard De Vera, Chairman.

The main purpose of the orientation is to encourage and assist the aspiring civil engineers to review in order and be a registered professionals. Through the said orientation, each candidate is provided an overview of the review program as well as the conditions embedded with it in order to successfully hurdle the examination annually given by the Professional Regulatory Board (PRC) in the Middle East Region. It can be recalled that the same board examination was just recently completed last month of August, 2018.

During same orientation, several Board of Directors who were products of the SPLBE programs took turns in giving inspirational talk to the attendees numbering thirty five (35). Incumbent President Aileen A. Buenaflor and Founding President Roy Baquiran also gave their takes about the program.

The SPLE Orientation is prelude to the opening of the proper review class on October 5, 2018 at the Oryx Rotana Hotel at Airport Road in Doha, Qatar. Review classes is from 8:00 AM to 5:00 PM every Friday.

PICE-Qatar submits entry to PICE National Awards

Last September 21, PICE-Qatar through its Ad-hoc Committee on International Chapter Awards headed by 2nd Vice President, Engr. Alfonso Belito C. Betita submitted its entry to the PICE National Chapter Awards. This is in accordance with the memorandum dated August 22, 2018 wherein the deadline for submission was reset to September 22, 2018. As per the implementing rules, submissions through couriers may be made and accepted provided that the accompanying receipts indicated that the actual date of submission is not beyond the deadline and that the entry was received by PICE National within the evaluation period.

PICE-Qatar remains hopeful that it will be selected for the Most Outstanding PICE Chapter, Outstanding Community Project and Outstanding Newsletter Awards under Category C – for International Chapter.

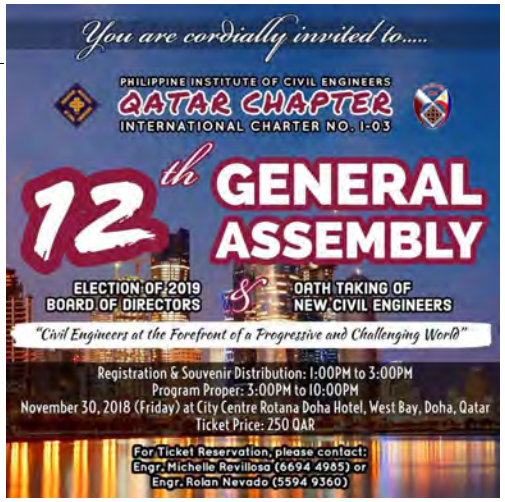
Preparation of the necessary documents including gathering of the information and records lasted for nearly two months. Engr. Betita described the activity as "tiring but rewarding wherein the fruit of everyone's labor will only be known upon the results are known". He also thanked all the committee chairs who gave their supports, to Engr. Felipe Catinoy – Business Manager, Engr. Elvin Fajutagana – PICE-Qatar Secretary, to Engr. Sheila Medel – PICE-Q 1st VP and to PICE-Q President, Aileen A. Buenaflor. Credit also goes to Engr. Jerick Lising and Engr. Christine Diosan who did the dirty job of preparation and to Engr. Alden Cayaga for his advices and recommendations.

PICE-Qatar announces General Assembly

Alfonso Betita

The PICE - Qatar's 12th General Assembly (GA) is now pegged on November 30. 2018, this was announced by the Nomination and Election Committee (NOMELEC) headed by IPP Engr. Allen L. Nacario via yahoo group e-mails in relation to the opening of the filing of candidacy for the 2019 Board of Directors. Traditionally, election for the BOD is done in the General Assembly together with the oath-taking of the new members.

Preparation for this major event is on-going with Engr. Sheila L. Medel, PICE-Qatar's 1st Vice President spearheading assisted by Engr. Elvin D. Fajutagana who was tasked to established PICE-Qatar's 2019 theme which will be used beginning the General Assembly. In this connection, a PICE-Qatar – wide contest for theme proposition will be held wherein a free ticket for one to the GA awaits the winner. BODs, IPP and PPs are discouraged to join the contest however to give chance to the general membership.



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TECHNICAL SECTION

THRUST RESTRAINT DESIGN FOR THE BURIED PRESSURE PIPELINES OF THE WATER SECURITY MEGA RESERVOIRS PROJECT—GTC 626/2014B PACKAGE

*This technical paper to be delivered by **Engr. Alden P. Cayaga, ACPEng, ASEAN Eng., M.ASEP** in the 44th National Convention and Technical Conference of the Philippine Institute of Civil Engieners, Inc. (PICE) on October 29-31, 2018 at SMX Convention Center, Seashell Lane, MOA Complex, Pasay City, Philippines*

1. INTRODUCTION

Due to the continuous growth and development in Qatar, and consequently the huge increase in water demand, the Qatar General Electricity & Water Corporation (KAHRAMAA) has decided to launch an ambitious water project to provide seven days of strategic water storage within its network system while preserving the water quality as per local and World Health Organization (WHO) standards. The project entails the construction of five potable water mega reservoirs sites and interconnecting network of large diameter water pipelines. Each reservoirs site will ultimately comprise up to nine reservoirs, each of which will be the largest of their type in the world (Kahramaa 2018).

The construction of these five mega reservoirs, which began in 2015, is being built along with integrated pumping stations including more than 650 km of interconnecting water pipelines. The first phase with a storage capacity of about 2,300 million gallons of water in 24 huge concrete reservoirs, with a capacity of about 100 million gallons of water per each reservoir.

The designs of the second phase have been created in a way to be in line with the water demand in Qatar until 2036. The number of reservoirs will reach 40 with a capacity of about 3,800 million gallons of water. A massive ring main system will be provided between the independent water and power plants, allowing water to flow from the north to the south and vice versa, so that it may be delivered to any location in Eastern Qatar, irrespective of water availability.

The GTC 626/2014B Package (PRPS-02) calls for works for the water security mega reservoirs project at Umm Slal, Doha, Qatar. The package includes a 485 million imperial gallons (MIG) mega-reservoir, spread over an area of 250,000 square meters with kilometers of large-diameter ring mains with suitably-sized thrust restraint systems.

The methodology used in the design analysis of the reinforced concrete bored piles acting as thrust restraints for the DN1200 and DN1600 valves and fittings to carry the relatively large lateral forces generated by the pressurized piping network for the Water Security Mega Reservoirs Project – GTC 626 Package (PRPS-02) will be presented.

The structural design and verification of the individual piles supporting the thrust blocks for the incoming and outgoing main pipelines for Milestone 1 of the of the Water Security Mega Reservoir at Um-Slal, Qatar, along with related details used as references for this paper and project photos will be included for presentation purposes. Design and detailing of the thrust block pile caps and pipes anchorage to the thrust blocks are not included in the scope of this paper.

Fig. 1 Qatar Mega Reservoirs Project Map

Source: Kahramaa (2018).

2. SOIL INVESTIGATION

2.1 Site Description

The site is located approximately 50 km northwest of central Doha and approximately 15 km west of Um Salal Police Station. Site topography generally comprises an even ground surface and consists of residual soil. At the time of the investigation, the area was open and undeveloped. The site supports no vegetation. Access to the proposed site is through unpaved roads.

Archival research for the site indicates that a varying thickness of residual soil is likely to be present overlaying natural bedrock comprising chalky/ dolomitic limestones of the Simsima Limestone and Rus Formation (approximately 55 to 100 million years old).

2.2 Ground Conditions

Series of ground investigations have been carried out at different periods, between August 4, 2012, to January 3, 2013, covering twenty-one (21) geotechnical boreholes to depths ranging between 30 and 100 meters below the existing ground level.

A summary of the strata as encountered during ground investigations is presented in Table 1.

2.3 Groundwater Conditions

Groundwater was encountered in all boreholes during the time of investigation and generally varies between 1.18m QNHD and 1.77m QNHD. It should be noted that groundwater levels are prone to fluctuations due to seasonal, tidal variations or localized pumping in the area.

2.4 Engineering Properties of Soils

Engineering properties of various soil and rock materials encountered by drill holes within the site have been determined using both field and laboratory test data where available. Based on the pipe invert levels for the DN1600 and DN1200 thrust blocks, the locations of the piles are generally located at the Rus Formation. Laboratory test results of the Rus Formation are summarized in Table 2.

The unexpected system of fractures/voids could be present at the site, reducing the rock mass cohesion. Because of that, the cohesion value shall be scaled down as suggested by Kulhawy and Goodman (1987) and the angle of internal friction could be reasonable and cautiously assumed equal to 30 degrees for RQD (rock quality designation) less than 70%.

Using the average UCS value of 6.98 MPa, the cohesion value is calculated as 0.10(6980) = 698 kPa. Say we use only 400kPa cohesion value to be conservative. For the design purpose, the following rock strength parameters were adopted as summarized in Table 4.

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Table 1 Summary of Geological Strata at the Site

Geological Stratum	Description
Residual Soil	The residual soil was encountered in all boreholes and trial pits with a thickness ranging from 0.40m to 1.80m. The residual soil comprises light brown to light greyish brownish silty very gravelly SAND/ silty very sandy GRAVEL with many cobbles of limestone. Gravel/cobbles are angular to subangular fragments of crystalline limestone. The gravel and cobbles fraction generally become larger and more frequent with depth. The stratum is generally gypsiferous and many gypsum nodules were also observed.
Simsima Limestone	The Simsima Limestone Member was encountered underlying the unconsolidated overburden in a few exploratory locations. The Simsima Limestone Member encountered at the site can generally be described as very weak to weak, light grey, distinctly weathered, very closely to closely spaced, fine-grained crystalline dolomitic limestone with and occasional gypsum nodules. It is also frequently intermixed or contains pockets of very weak light brownish grey and light greenish grey diagenetically derived siltstone (30 to 50%).
Rus Formation	The Rus Formation was generally encountered below the residual soil in most of the exploratory locations. In a few locations where Simsima Limestone was encountered, the stratum was encountered beneath Simsima. The upper 3.0 to 5.0m of this formation generally consists of very weak to weak, partially to occasionally distinctly weathered, very closely to closely spaced, pitted /slightly porous Limestone. Below this, very weak, off-white to light grey, partially weathered, very closely to closely spaced, chalky limestone interbedded with siltstone/mudstone was encountered.
Umm Er Radhuma Formation	The Umm Er Rhaduma Formation was encountered at an elevation of -25.03 and extends to final drilled depth. The Umm Er Radhuma Formation is typically weak to medium strong, fine-grained dolomitic limestone interbedded with bands and pockets of very weak siltstone and intermixed with few pockets of secondary silt.

Table 2 Rus Formation Summary of Laboratory Test Results

Test		Minimum	Maximum	Average	No of Tests
Strength Tests	Point Load Index $I_{s(50)}$, MN/m^2	0.03	3.27	0.50	161
	UCS, MN/m^2	0.25	29.11	6.98	115
Chemical	Water Soluble Sulphate as SO_3 (%)	0.04	0.35	0.10	38
	Water Soluble Chloride, Cl, (%)	0.01	0.08	0.02	
	pH	7.50	9.20	8.09	
	Carbonate Content, % (as CO_2)	7.60	42.42	27.61	37

Table 3 Reduction of strength parameters for rock mass

RQD [%]	*Rock mass properties*		
	Uniaxial compressive strength	*Cohesion, c*	*Friction angle, φ*
0–70	$0.33\,q_u$	$0.10\,q_u$	30°
70–100	$(0.33–0.80)\,q_u$	$0.10\,q_u$	30°–60°

Table 4 Reduced Rock Strength Parameters

Rock Type	Angle of Internal Friction	Cohesion	Elastic Modulus
Rus Formation	30 degrees	400 kPa	300 MPa

3. METHODOLOGY

A general report was prepared by CIRIA which serves a design guide for thrust blocks to restrain the forces generated by changes in the direction of fluid flow in jointed buried pressure pipeline networks. The CIRIA Report 128 - Guide to the design of thrust blocks for buried pressure pipelines presents a step-by-step design approach including the calculation of the design thrust forces to be used for each type of pipe fitting.

The flowchart shown in Figure 2 gives a simplified workflow used in the design and analysis of the bored piles serving as thrust restraints for the valves and fittings of the buried pressure pipelines.

4. BORED PILE DESIGN

Majority of the pressure pipelines for the Mega Reservoir Project are buried underground (see Figure 3). The thrust forces at the fittings (bends, tees, valves, and dead ends) require to be restrained by the use of mass concrete thrust blocks which is usually relatively huge in size for large-diameter pipelines. Since the large concrete blocks will be difficult to construct and will pose a problem for the other utilities and services, the use of reinforced concrete bored piles was utilized to resist the relatively large thrust forces generated by the pressure pipelines. From the group of bored piles in the thrust restraint system subjected to lateral loads, each of the piles can be designed individually as a single pile under lateral load as presented in this section.

4.1 Design Loads

The bored pile design loads to be used in the analysis were given in the IFC (Issued For Construction) drawings. These forces were already pre-calculated based on the layout configuration of the piles in relation to the reinforced concrete thrust blocks.

For other thrust blocks configuration, with combined fittings, the design loads were not provided. However, equivalent thrust force for each fitting can be calculated with consideration for the direction of forces taken from the CIRIA Report 128: Guide to the design of thrust blocks for buried pressure pipelines by Thorley and Atkinson (1994) as shown below.

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In the equations shown in Figure 4:

p = design pressure

A = pipeline cross-sectional area (based on the external diameter)

θ = angle through which the pipe bends

The resultant forces, and their components. are those due to hydraulic pressure only. It is assumed that the net weight of the thrust block and pipe are equivalent to the ground material that they are replacing.

1. Locate position of thrust blocks.
2. Calculate the force for each thrust block if they are not provided in the IFC drawings.
3. Calculate the design force for each supporting bored piles.
4. Determine ground properties and design assumptions.
5. Design the bored pile supports.
6. Design the thrust blocks. Resize and/or combine thrust blocks if needed.
7. Validate pile design by testing.
8. Re-assess pile design and other related assumptions.
9. Provide finalized design and full detailing of piles and thrust blocks.

Fig. 2 Simplified Flowchart in the Design of Thrust Restraint Bored Piles

Fig. 3 Laying of Transmission Lines for the Mega Reservoir Source: Kahramaa (2018).

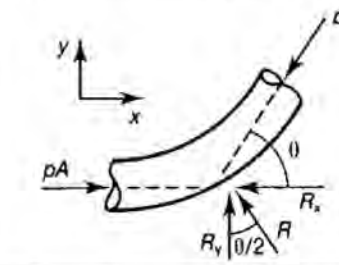
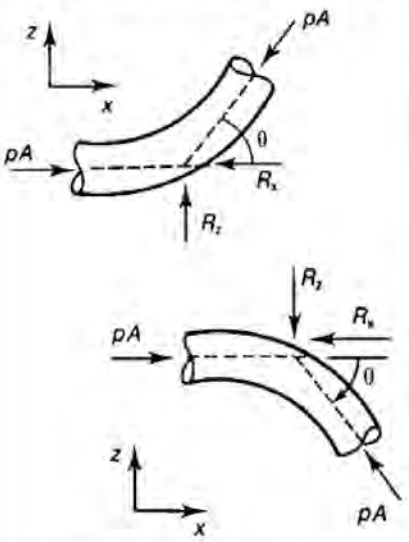
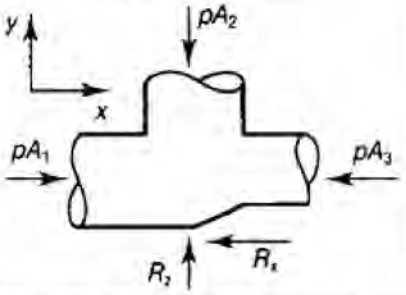
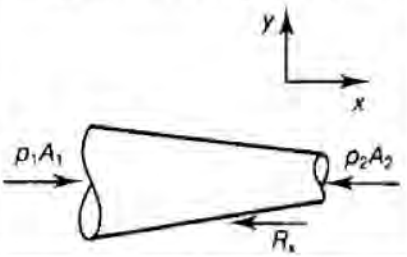
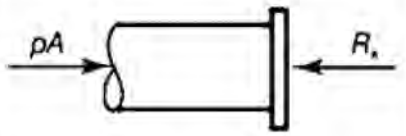
Component	Simple formula for hydraulic thrusts
Horizontal bend in the x-y plane 	$Rx = pA(1 - \cos\theta)$ $Ry = pA \sin\theta$ *Total Thrust* $R = 2pA \sin(0/2)$
Upturn/Downturn in the x-z plane 	*Horizontal Component* $Rx = pA(1 - \cos\theta)$ *Vertical Thrust* $Rz = pA \sin\theta$
Tee in the x-y plane 	*Axial Thrust* $Rx = p(A_1 - A_3)$ $= 0$ *if* $(A_1 = A_3)$ *Side Thrust* $Ry = pA_2$
Taper/Reducer along the x-axis 	*Axial Thrust* $Rx = p(A_1 - A_2)$
Dead end and closable valves 	*Axial Thrust* $Rx = pA$

Fig. 4 Formulae for determining components of the hydraulic thrust forces requiring restraint in various fittings and components. Source: Thorley and Atkinson (1994)

TECHNICAL SECTION

4.2 Skin Friction Resistance

There are several design assumptions provided in relation to the design verification of the compression and tension piles.

a) Based on the pipe invert levels for the DN1600 and DN1200 thrust blocks, the locations of the piles are generally located at the Rus Formation with an average unconfined compressive strength (UCS) value of 6.98 MPa, to be adopted for skin friction design.

b) For piles with rock sockets more than four times its diameter, the load transferred to the pile's toe is generally considered to be equal to zero. The piles are considered as frictional piles since the end bearing is not contributing in carrying the structural loads and assuming a 100% water loss and fractured rock in all the boreholes.

c) For piles with L/B ratio greater than 6, the ultimate skin friction resistance may be taken to be equal in both upward and downward loading (Coduto 1984). To be conservative we have taken the tension capacity of the piles were taken as 50% of the pile capacity in tension.

The unconfined compressive strength was reduced according to the reduction factor α and β related to discontinuity as suggested by William and Pells, as presented in Foundation Design and Construction by M.J. Tomlison (2001).

When piles are socket or driven into rock, some load transfer to the embedded portions of the shaft will occur. There is not a great amount of data on ultimate values of pile rock adhesion. However, according to the mass factor (j), rock socket correction factor, (β) and the reduction factor for rock socket skin friction (α) which has been established as an ultimate adhesion value as a percentage from the measured uniaxial compressive strength for preliminary design purposes and it can be calculated using the following equation.

Ultimate Bond Stress (kPa), $f_s = \alpha * \beta * q_{uc}$ (1)

The method for determining the design values for the ultimate skin friction value for the rock formation is based on all information available from the current study, statistical analysis especially for the UCS (uniaxial compression strength), total core recovery (TCR), and rock quality designation (RQD).

4.3 Factor of Safety

Different approaches exist for the selection of safety factors to be introduced into design calculations. In BS 8004 "Code of Practice for Foundations", a single lumped factor of safety (F.S.) between 2 and 3 is recommended to be applied to the total ultimate pile resistance based on skin friction only (shaft and base).

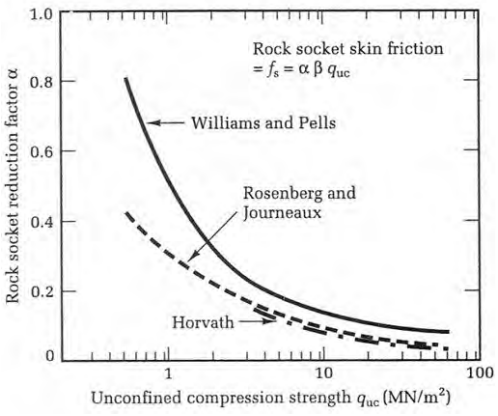


Fig. 5 Rock Socket Reduction Factor, α, w.r.t. Unconfined Compressive Strength

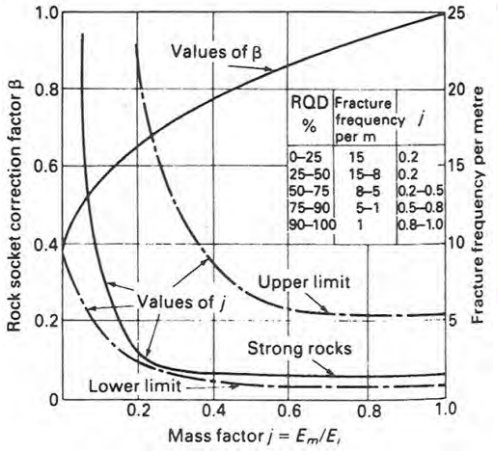


Fig. 6 Rock Socket Reduction Factor, β, w.r.t. Rock Mass Discontinuity

4.4 Length of Pile Based on Working Loads

The required minimum rock socket length based on the provided service vertical load on piles shall be calculated

a) Based on comp. working loads
$Q_{uc} = Q_p + Q_{fc} - W_p$ (2)

b) Based on tension working loads
$Q_{ut} = Q_{ft} + W_p$ (3)

Where

Q_p = 0 for end bearing
$Q_{fc} = \pi D L_c f_s / F.S.$ for pile in comp.
$Q_{ft} = \pi D L_t (f_s/2)/F.S.$ for pile in tension
$W_p = (\pi D^2/4)(L)(24)$ for weight of pile with density = 24kN/m^3

$$L_c = Q_{uc}/[(\pi D f_s/F.S.) - (6\pi D^2)] \quad (4)$$
$$L_t = Q_{ut}/[(\pi D(f_s/2)/F.S.) + (6\pi D^2)] \quad (5)$$

Note that an additional factor of up to 1.3 of the calculated pile lengths is normally introduced to account for any uncertainty due to soil profile/layering and actual construction.

4.5 Bored Pile Lateral Load Analysis

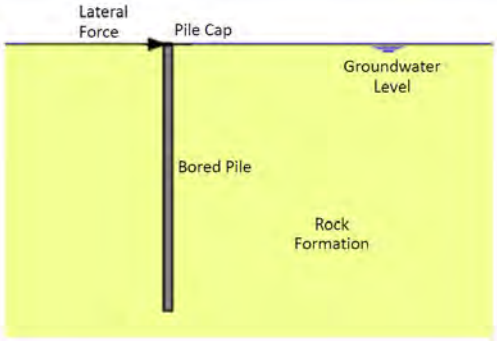
For the lateral load analysis of piles, they are calculated in the Single Pile Module of MSheet.

MSheet is a geotechnical software for modeling of shoring systems and single foundation piles by GeoDelft, Netherlands. MSheet is both internationally and locally accredited by authorities as it is being used in designing similar cases on an extensive scale of projects.

The details of the single pile moment, shear and displacement values are generated in the MSheet output.

The general diagram of the single pile module using MSheetand the sample graphical output are shown in Figures 7 and 8.

Fig. 7 General Diagram of the Single



Pile Module using MSheet.

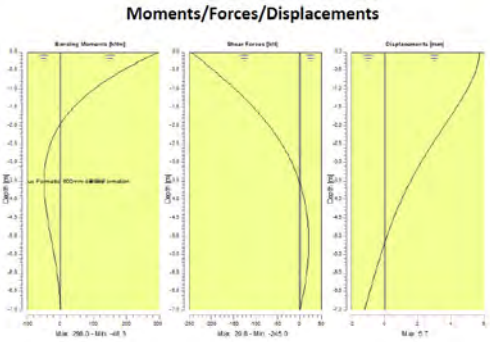


Fig. 8 Sample Charts of Moments, Forces and Displacements of a single pile using MSheet.

4.6 Reinforcement Calculation

Calculation of the required pile longitudinal reinforcement is based on 1.50 load factor of the output service loads from MSheet.

For calculation of the required reinforcements, an additional 2% of the axial compression load is converted to an additional lateral load to account for any deviation of verticality.

(To be continued…)

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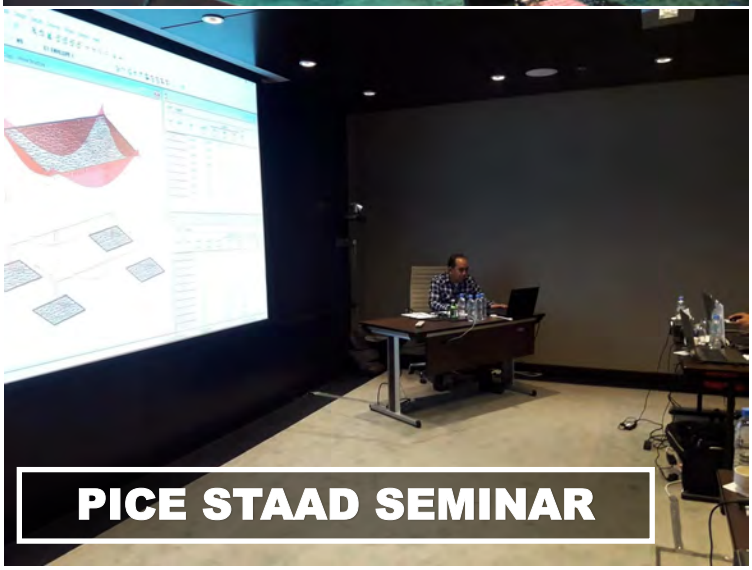
PICE QATAR EVENTS & FACES

MSCE ORIENTATION

SPECIAL MEETING



PICE STAAD SEMINAR

SPLE ORIENTATION

PICE QATAR EVENTS & FACES

SEPTEMBER BOD MEETING

PICE-Q COPI BREAK

PRESIDENT'S CUP

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SIDELINES

By: Engr. Alfonso Belito C. Betita, PE M.ASCE
2018 PICE-Qatar Newsletter Editor-In-Chief

September month is another busy month for COHOPLE and the rest of 2018 BOD. Just as the Special Licensure Examination 2018 given by PRC passed by last month, again it found itself busy and poised to start for another SPLE review cycle next month.

Engr. Bernard and the rest of COHOPLE just successfully completed the SPLE Orientation last September 21, 2018 at Rotana City Center Hotel with around 35 associate members attending. SPLE Review commences on October 5, 2018 – a tiring and a seemingly never-ending cycle of activities for the fulfillment of professional aspirations of our associate members. But why worries when we have a bunch of devoted committee chair and members who are ready to accept the calling? Right, Engr. Bernard De Vera?

****

The Special Professional Licensure Examination for Civil Engineers is over last month and the long process of waiting for the result is on. Well, it's been 38 days since that two long and exhausting days of mathematics, hydraulics / geotechnical and design calculation and still the viber group of the 2018 SPLE Reviewees are abuzz with traffic messages …… some intelligent discussions….. some jokes ….. some are just incoherent ideas brought out by minds that are already tired of waiting. Waiting for something that are unsure of is not fun at all, isn't it?

****

The sad truth however is not all of those who are waiting will end up joyful at the end knowing that SPLE for Civil Engineering is one of the toughest if not the toughest among the board exams. It is a known fact that only a handful……only about 20% of the examinees will be able to successfully hurdle the test and able to pledge as new civil engineers during the General Assembly in the following months to come. The consolation however is that there is no limit in taking the exam. You may do it as many times as you want. My take? If you are really dead serious in having that professional card, then get serious and work for it….open your reviewers next time people!!!!

****

The election fever for the upcoming BOD election is on for PICE-Qatar as NOMELEC announces the opening of application. Those who are willing to serve the beloved organization and those who are dreaming of joining the ranks of responsible officers should file their candidacy while it is still open. Just one thing should be clear, being in the BOD is not a walk in the park as your life, your daily routine is about to change. And that change will sure come on January 1, 2019 for those who will get elected to the office.

My take? Please don't try getting into the BODs if you are not ready to give your 100 percent and take responsibilities or make sacrifices, just for the sake of being so. Give the organization a favor please.

****

The writeshop for the ASEAN / APEC Engineer aspirants was successfully held in cooperation with the Philippine Technological Council represented here in Doha, Qatar by Engr. Roy Baquiran who of course is the founding father of PICE-Qatar. This undertaking is one of the requirements of the PTC for accepting applicants to the advance level engineer program and in anticipation of the scheduled ASEAN Engineers conferment ceremonies to be held in Doha, Qatar on 19 October 2018. At that time, Engr. Fred Monsada – PTC President and Engr. Romy Agatep – Country Registrar will be able to review some applications in advance during their 3-day stay in Qatar.

This is a one of a kind chances which PICE-Qatar is bringing to our doorstep. Why don't we grab the chance?

****

PICE-Qatar's entry to the prestigious PICE National Chapter Award was completed and sent to Manila last September 21, 2018 – just a day before the deadline on September 22. It was a tiring works that becomes our routine for almost two months as we collect record, pictures and documents of significant events necessary for the entry. As the Ad-hoc Chairman of the International Awards Committee of PICE-Qatar, I would like to personally express my gratitude to the two persons who tirelessly contributed to this endeavor…. Engr. Christine Diosan and Engr. Jerick Lising.

Also, my appreciation goes to the committee chair and BODs namely Engr. Emman Boceta, Engr. Rolan Nevado, Engr. Ellie Nicomedes, Engr. Loraine Radan, Engr. Bernard De Vera, Engr. Russel Flores, Engr. Fil Catinoy, Engr. Belinda Dela Cruz, Engr. Newcesar Templonuevo, Engr. Ma. Michelle Revillosa, Engr. Emilio Manalo, Engr. Elvin Fajutagana and Engr. Sheila Medel.

Special thanks to Engr. Aileen A. Buenaflor – PICE-Q President, Engr. Alden Cayaga, Engr. Ronald Nilo and Engr, Roy Baquiran for their support and advises.

KNOW THE BOARD

Alfonso Betita

This is the ninth part of the series "Know the Board" wherein we feature the who's and who of the current Board of Directors of the Philippine Institute of Civil Engineers, Qatar Chapter (PICE-Q).

The COWME Chairman

Our featured Board Member is a 22 year veteran of civil and multi-discipline construction projects. His area of expertise includes Project Management and Supervision, Quality Assurance and Control, Site Safety, Cost Control, Team Coordination, Documents Review, Site Inspections, Field Data Gathering, Project Handing Over for Infrastructure Works, Heavy Engineering Projects and High Strength Concrete Structures.

A product of Catanduanes State University, Philippines where He completed his Bachelor's Degree in Civil Engineering in 1995. He obtained his Professional Civil Engineer's License in year 2000. Engr. Sarce as we fondly call him is a founding member of the Philippine Institute of Civil Engineers Qatar Chapter way back in 2007 and became a member of its Board of Directors since 2017, furthermore his application for the Life Membership of the Philippine Institute of Civil Engineers was approved at the same year. He is also a founding member of the Filipino Association of Materials Engineer (FAME) in 2016 and is currently its 1st Vice President. He joined the Safety organization of the Philippines, Inc (SOFI) in 1997 and the World Safety Organization as an Affiliate Member in 2016.

His storied career started in year 1996 when he joined Vernida Realty Development Corporation in Makati City, Philippines as Civil Engineer. In 1999, he joined Meridien High Rise Corporation in Makati City, Philippines as Field Engineer up to 2001. On the same year, he transferred to Sta. Clara International Corporation in Manila, Philippines where he worked as Field Engineer until 2003. Then in 2003, he ventured as Project Engineer with CE Construction Corporation until the time he changed his position to QA/QC Engineer in 2005. On the same year however, he decided to work abroad and joined Contraco, WLL based in Doha, Qatar as Site Engineer / Coordinator until 2008. This was followed by his stint as QA/QC Engineer in Kier Dubai, LLC, Dubai, UAE from 2008 to 2010. He went back to Manila, Philippines from 2010 to 2012 where he worked with BSP and Co., Inc. as Project Superintendent / QA Engineer before going to Jeddah, KSA and joining AECOM Arabia Limited as Project Engineer / QA/QC Civil Inspector from 2012 to 2014. In 2014, he returned to Qatar to work with Hyder Consulting Middle East Limited as Site Engineer.

Engr. Templonuevo is also an Advance level Engineer recognized as ACPE in 2017 (ACPE-02322/PH) and AER (AER

Engr. Newcesar T. Templonuevo
PICE-Q Chairman,
Committee on Ways and Means (COWME), 2018

PICE QATAR UPDATES

PICE National approved three new specialists

Three additional PICE-Qatar members who filed their Applications for Specialist to the PICE National Chapter were formally approved by the PICE National Chapter 2018 Board of Directors. They are:

Engr. Dario Gaudencio P. Lagamon
Specialist in Project Management and Construction Engineering,
Approved August 17, 2018

Engr. Wilfredo M. Ligason
Specialist in Project Management and Construction Engineering,
Approved August 17, 2018

Engr. Aphan M. Badidil
Specialist in Project Management and Construction Engineering,
Approved August 17, 2018

PICE-Qatar Chapter thru the Committee on Life Membership and Specialist Applications (CoLSA) encourages every qualified member to prepare and submit their application for PICE Specialist and avail of assistance in upgrading and leveling up with their competencies to be recognized in the ASEAN arena as well as in the international world of engineering professionals.

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NOW PHILIPPINES

Luisito Carlos

An Act Regulating the Registration, Licensure and Practice of Quantity Surveying in the Philippines

On the Third Regular Session of the Seventeenth Congress of the Republic of the Philippines, Senate Bill No. 1890, an Act to Regulate the Registration, Licensure and Practice has been introduced by Senator Antonio F. Trillanes IV and submitted to the Senate Office of the Secretary on 26 July 2018.

As explained in the submitted bill, "The discipline of Quantity Surveying has an established presence in the construction industry, particularly that in the United Kingdom, in Australia, and in the other commonwealth countries. Those practicing the discipline are called Quantity Surveyors who, in other parts of the world, are invariably known by other names such as cost estimators, measurers or brick counters".

This act shall be known as ***"The Philippine Quantity Surveying Law of 2018".*** This act recognizes the importance of Filipinos engaged in the construction industry, particularly in the management of costs and contracts which, in the other parts of the world, is known as the discipline of Quantity Surveying. Hence, the State shall develop and nurture competent, ethical, virtuous, productive, and well-rounded professionals in said discipline; with the levels of training and assessments to be at par with international standards, so that they are able to deliver excellent service and be able to participate globally. On 30 July 2018, the Bill was read on First Reading and Referred to the Committee(s) on Civil Service, Government Reorganization and Professional Regulation and Finance.

A Public Hearing was conducted on 04 September 2018 at the Senate Session Hall, GSIS Bldg., Pasay, City. The public hearing was attended by no less than the Founder of Philippine Institute of Certified Quantity Surveyors (PICQS) Ms. Julie Dela Cruz.

To understand how a bill introduced in the Senate becomes a law, below is the summary of the process:

1. Filing/Calendaring for First Reading

A bill is filed in the Office of the Secretary where it is given a corresponding number and calendared for First Reading.

2. First Reading

Its title, bill number, and author's name are read on the floor, after which it is referred to the proper committee.

3. Committee Hearings/Report

Committee conducts hearings and consultation meetings. It then either approves the proposed bill without an amendment, approves it with changes, or recommends substitution or consolidation with similar bills filed.

4. Calendaring for Second Reading

The Committee Report with its approved bill version is submitted to the Committee on Rules for calendaring for Second Reading.

5. Second Reading

Bill author delivers sponsorship speech on the floor. Senators engage in debate, interpellation, turno en contra, and rebuttal to highlight the pros and cons of the bill. A period of amendments incorporates necessary changes in the bill proposed by the committee or introduced by the Senators themselves on the floor.

6. Voting on Second Reading

Senators vote on the second reading version of the bill. If approved, the bill is calendared for third reading.

7. Voting on Third Reading

Printed copies of the bill's final version are distributed to the Senators. This time, only the title of the bill is read on the floor. Nominal voting is held. If passed, the approved Senate bill is referred to the House of Representatives for concurrence.

8. At the House of Representatives

The Lower Chamber follows the same procedures (First Reading, Second Reading and Third Reading).

9. Back to the Senate

If the House-approved version is compatible with that of the Senate's, the final version's enrolled form is printed. If there are certain differences, a Bicameral Conference Committee is called to reconcile conflicting provisions of both versions of the Senate and of the House of Representatives. Conference committee submits report on the reconciled version of the bill, duly approved by both chambers. The Senate prints the reconciled version in its enrolled form.

10. Submission to Malacañang

Final enrolled form is submitted to Malacañang. The President either signs it into law, or vetoes and sends it back to the Senate with veto message.

The draft bill in now on the 3rd step above awaiting committee report.

Source/s:
1. *www.senate.gov.ph*
2. *Excerpts from Senate Bill No. 1890.*
3. *Photo Source: PICQS Philippine Chapter FB Account.*

NOW PHILIPPINES

Luisito Carlos

Enhancing the Continuing Professional Development Act of 2016

Republic Act 10912 or the "Continuing Professional Development Act of 2016" had lapsed into law on 21 July 2016. The implementation of this law has been met with so much resistance from most of the professionals especially the teachers, engineers, accountants, physicians and nurses. Thus, an Act repealing this law has been filed under House Bill No. 7171 from the House of Representatives and this was introduced by ACT Teachers Party List Rep. Antonio L. Tinio and Rep. France L. Castro, Bayan Muna Party List Rep. Carlos Isagani T. Zarate, Gabriela Women's Party List Rep. Emmi A. De Jesus and Rep. Arlene D. Brosas, Anakpawis Party List Rep. Ariel B. Casilao and Kabataan Party List Rep. Sarah Jane I. Elago. The Bill was received by the House of Representative Bills and Index Division on 13 February 2018. The bill is now pending with the Committee on Higher Education as of 11 September 2018.

On the same context, the Professional Regulation Commission (PRC), on its Facebook page, have launched an online survey seeking to repeal or not the CPD Law implementation. The survey starts on 16 February 2018 and ended on 20 February 2018 and gathering an almost unanimous vote to repeal the CPD Law. With 76,000 votes casted, 95% said "Yes. It should be stopped." Only 5% said, "No. Professionals need it."

On the other hand, the Senate has filed its own version under Senate Bill No. 2006, "An Act Enhancing the Continuing Professional Development of Filipino Workers and Professionals, Amending for the Purpose of Republic Act No. 10912, Otherwise Known as the "Continuing Professional Development Act of 2016". The bill was introduced by Senator Joel Villanueva and was received by the Senate Secretary on 17 September 2018 and was read on the First Reading and Referred to the Committee on Civil Service, Government Reorganization and Professional Regulation on 18 September 2018. The bill is now pending with the Committee.

Under the senate proposed bill, the following sections were amended and inserted:

"***Section 10***: Registered and licensed professionals are exempted from compliance within the first five years after obtaining their licenses; provided further, that: failure to comply with CPD shall only be a basis to deny renewal of PICs after the lapse of the compliance period provided herein; provided however, that: licensed professionals who are Overseas Filipino Workers (OFWs) shall be exempted from the requirement under this section for the period of their overseas employment."

"***Section 13-A***. Required CPD units; when to obtain the required CPD units. – Professionals shall only be required to obtain a maximum of thirty-six (36) CPD Units once every five years, which shall be deemed one compliance period."

"***Section 13-B***. Persons exempt from CPD requirements; notwithstanding the provisions of Sections 5,6,7,8,9 and 12 of this Act, the PRC and the PRBs shall have the discretion to exempt certain persons from complying with the CPD requirements as required under this Act; Provided, that: the failure to obtain the required CPD units is solely due to the failure of concerned agencies/ person/s responsible to properly implement the CPD program in the location and profession of the concerned professionals; provided further, that: the professional has exercised due diligence in complying with the CPD requirement considering the circumstances. The person/s or agency/ies responsible shall be administratively liable in accordance with the relevant laws for the failure to properly implement the CPD program, upon compliance with due process."

"***Section 13-C***. Fees and PIC renewal. In the processing of documents for PIC renewal in accordance with this Act, no fees shall be required in addition to what PRC already requires for PIC renewal, if any, prior to the passage of this Act."

"***Section 16-B***. CPD as part of the human resource development plan and program of companies and government offices. Human resource development plans of all private companies and government offices and schools shall be geared towards assisting their respective professional employees from complying with the CPD requirements under this Act. In addition to the penalties prescribed in the aforementioned laws, any company that fails to comply with the foregoing shall be meted with the penalty of suspension or revocation of certificate of registration and/or permit to operate.

Under this amendment, the promulgation of Implementing Rules and Regulations has been reduced to ninety (90) days from the effectivity of this Act from the original six (6) months. Sections on Separability Clause, Repealing Clause and Effectivity were likewise amended.

To read to full text of the amendment, visit www. senate.gov.ph.

Source/s:

1. SunStart Philippines article dated 18 February 2018. *www.sunstar.com.ph/article/419610*
2. *www.senate.gov.ph*

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NOW PHILIPPINES

Luisito Carlos

Launching Of Financial Literacy Program for Schools in accordance with RA 10922

During the early 1990s, where internet is not yet available to the public, the general public has no easy means of getting information & awareness on proper handling of hard earned money and manage their finances wisely. Exposures to different financial instruments such as mutual funds, bonds, insurances, investments on stock market, real estate, etc., is very limited. This is one of the reasons why most of the Overseas Filipino Workers (OFW), after years of working abroad, went home financially broken.

Signing of MOA, DepED Sec. Leonor Briones (middle), BSP Governor Nestor Espenilla Jr. (3rd from right) and BDO Foundation Mr. Mario Deriquito (3rd from left)

Nowadays, information on financial management and literacy programs can now be easily accessed via internet and there are numerous professional organizations conducting financial literacy seminar and programs. Hence, people or group of people including OFWs are now learning the mechanism and the step by step process to handle their finances and even invest some of their money into stock market, real property, businesses and other income generating investments. The best age group to inculcate this awareness and teach financial literacy are the students and the youth. It is always taught in any financial literacy seminar that the best ally in financial freedom is time.

In order to address this enigma, the Sixteenth Congress of the Republic of the Philippines has passed an ***"Act Declaring the Second Week of November of Every Year as Economic and Financial Literacy Week"*** and lapsed into law on 22 July 2016. This Act shall be known as the ***"Economic and Financial Literacy Act" or RA 10922***.

The National Economic and Development Authority (NEDA) shall lead the participation of government agencies and instrumentalities and shall convene for the purpose the relevant agencies to include Bangko Sentral ng Pilipinas (BSP), Department of Finance (DOF), Department of Education (DepED), Commission on Higher Education (CHED), National Youth Commission (NYC) and the Department of the Interior and Local Government (DILG).

Under this Act, all public and private elementary and secondary schools under the DepED, state and private colleges and universities under CHED, Technical Education and Skills Development Authority (TESDA) and the National Youth Commission (NYC) are mandated to conduct consciousness-raising and knowledge - expanding activities on economic and financial literacy. The DepED is also encourage to assess and revise the high school economics curriculum to make it more age-appropriate and ensure that economic and financial education becomes an integral part of formal learning. The NEDA shall also lead and encourage the participation of the private sectors and civil society during the Economic and Financial Literacy Week.

On 28 May 2018, Bangko Sentral ng Pilipinas (BSP) led by Governor Nestor A. Espenilla Jr., Department of Education (DepED) led by Secretary Leonor M. Briones and Banco De Oro Foundation (BDOF) led by Mr. Mario Deriquito signed a Memorandum of Agreement to develop financial literacy videos as learning tools to support main-streaming financial education lessons in the K to 12 curriculum. These videos will benefit around 700,000 teachers and non-teaching personnel and 24 million students in more than 47,000 public schools nationwide.

The first phase of the program consists of five (5) videos that focus on effective ways to save money and are meant to be shown to certain grade level in the current K to 12 curriculum. Other topics included in the program are investing, budgeting, financial planning and responsible credit use.

As mentioned by Sec. Leonor Briones during her speech at the launching, a rollout of the program is expected within the first few months of School Year 2018-2019, with the teaching aids and discussion plans set to be given to the DepED within the beginning of the school calendar.

Source/s:

1. www.senate.gov.ph: RA 10922
2. www.bsp.gov.ph: Media Releases
3. Photo Source: BSP website.

PICE QATAR UPDATES

Filing of candidate nomination for 2019 BOD is on

Alfonso Betita

On September 20, 2018, the Nomination and Election Committee (NOMELEC) of PICE-Qatar headed by Chapter's Immediate Past President, Engr. Allen L. Nacario announces the opening for nomination of the 2019 Board of Directors with the annual election to be held at the General Assembly scheduled on November 30, 2018.

As per the Constitution and By-Laws, the minimum qualifications for candidates are as follows:

- Must be a regular and active member of PICE-Qatar Chapter in good standing.
- Must hold a valid PRC License as a Civil Engineer.
- Has been a member of the Chapter for at least one (1) year prior to the election.

Further to the minimum requirements, the following guidelines is also stressed:

- A regular member may nominate himself/herself or any other qualified member as a candidate for BOD.
- Nominations shall be done by filling up the nomination Form.
- Nominees shall provide the NOMELEC a completed and signed Nomination Form to indicate acceptance of such nomination. Please refer to the attached form.
- Associate Members, can only nominate other active Regular Member in good standing.

The NOMELEC has started accepting nominations on 20th September up to midnight on the 6th of October 2018. Nomination Forms are submitted at the Filipino Cultural Center (FCC), Al Thumama every Wednesdays, 7:00pm onwards. The same may be collected in/at seminars or any PICE-Qatar gatherings.

Approved Nominees for election shall be announced as candidates for 2019 BOD by the NOMELEC on the 10th of October 2018.

As of this writing, a total of 22 nominations has already been filed and received by the NOMELEC for evaluation and acceptance.

01. Revillosa, Maria Michelle A.
02. Amoguis, Hilario S.
03. Medel, Sheila L.
04. Beltran, Elizabeth M.
05. Lising, Jerick A.
06. Betita, Alfonso Belito C.
07. Templonuevo, Newcesar T.
08. Fautagana, Elvin D.
09. Tolentino, Arman A.
10. Nevado, Rolan E.
11. Boceta, Emmanuel German V.
12. Nicomedes, Elenie E.
13. De Vera, Bernard Y.
14. Maglalang, Michael G.
15. Banal, Rogel B.
16. Macaraig, Joseph Marius R.
17. Abendan, Mark Anthony P.
18. Crispino, Edgar M.
19. Manalo, Emilio M.
20. Catinoy, Felipe D.
21. Sanoh, Nasser K.
22. De Guzman, Noriethom A.

In this connection, the NOMELEC has conducted the following event in chronological arrangement:

1. NOMELEC Meetings: Figaro Coffee Shop
   - Sept 10, 2018- Kick-off meeting; discussions were on Nomination form and Election Guidelines.
   - Sept 17, 2018- Finalization of item a.
2. NOMELEC meeting with the 10 nos. Nominees (1st batch): Filipino Community Center (FCC)
   - Sept 26, 2018- NOMELEC explained/ discussed about the final Election Guidelines and Nomination Form for 2018 Election of BOD.

The NOMELEC is compose of the following members who are past presidents of the chapter:

Engr. Ronaldo B. Nilo
Engr. Noel T. Jumawan
Engr. Arnel P. Punsalan
Engr. Geraldo T. Managuelod
Engr. Frederick M. Garcia
Engr. Roy L. Baquiran
Engr. Gilbert P. Lorenzana (in absentia)
Engr. Delfino C. de Leon (in absentia)
Engr. Jose A. Panganiban (in absentia)

PICE-Qatar poised to hold the 1st Construction and Project Management Symposium

The Philippine Institute of Civil Engineers, Qatar Chapter is scheduled to hold a two-day symposium on Construction and Project Management on October 12 and 19, 2018 at Wyndham Doha West Bay Hotel, Doha, State of Qatar.

The scheduled symposium will be graced by Eight (8) Professional Civil Engineers and Specialists who were to speak on their own field of expertise as follows:

1st Day – October 12, 2018

Engr. Jeffrey P. Cimagala
Concept Design

Engr. Asuncion V. Lopez
Project Procurement and Cost Estimating

Engr. Elvin D. Fajutagana
Construction Project Management

Engr. Nasser K. Sanoh
Materials Management

Engr. Meliza M. Ortiguerra
Health and Safety Management

Engr. Alfonso Belito C. Betita
Quality Assurance and Quality Control Management

2nd day – October 19, 2018

Engr. Asuncion V. Lopez
Construction Contract Administration

Engr. Elvin D. Fajutagana
Practical Cost Control

Engr. Vanessa M. Malaluan
Time / Schedule Management

Engr. Celso F. Burog
Project Handover

Since this is a first of its kind and given the magnitude of information campaign being undertaken to promote the event, PICE-Qatar believe that this event will be a resounding success.

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PICE QATAR UPDATES

Second Math Whiz Update

Alfonso Betita

The second Math Whiz sponsored by PICE-Qatar will take place on November 9, 2018 at Oryx, Rotana Hotel, Airport Road, Doha, Qatar. Both schools – Philippine International School Qatar and Philippine School Doha already signify their commitments to field contestants from among their respective grade 11 and 12 students.

As both schools prepare for the battle of math supremacy, PICE-Qatar has already launched its funding drive for the same event dubbed as "Adopt-A-Wizard". The same fund drive is open to all PICE-Q members and companies or private individuals that are willing to contribute funds for the success of this annual event except for the committee members. In its e-mail dated September 25, 2018, the organizing committee announces the following mechanics of the funding scheme:

1. Any PICE-Qatar Member may adopt a minimum of 1 team which will be determined by random selection.
2. The members of the organizing committee are not allowed to participate in the Adopt-A-Wizard sponsorship.
3. Adopt-A-Wizard Sponsors will be entitled to the following:
   - Free access during the event proper
   - Lunch with coffee breaks
   - Certificate of Appreciation
4. Adopt-A-Wizard Sponsors who adopted the TOP 3 winning teams (math wizards) shall be given free registration and access to the upcoming PICE-Qatar's 12th Annual General Assembly 2018 to be held on 30 November 2018.

Majority of the Members of the PICE-Qatar Board of Directors has already pledge to adopt a minimum of one team through the "Adopt-A-Wizard" scheme. This amounts to QAR 300.00 per team.

FINANCIAL LITERACY

Felipe Catinoy

HEALTH INSURANCES AND HEALTH PLANS IN THE PHILIPPINES

"Fun is like a life insurance; the older you get, the more it costs" — Kin Hubbard

Most of us here working in Qatar has a health insurances provided by the company we are connected and when it comes to the government health benefits it is very good so far and we are just paying minimal and sometimes it's FREE when we visit health centers or hospitals.

As the saying goes "Health is Wealth", we must take good care of it in order to live longer and happier. Often times, we neglect to include into our budget our premiums for our health insurances even for PhilHealth due to tight budget for our daily expenses, especially for food and education. Below is our Government Health Insurance short insights;

Extracted from *(https://en.wikipedia.org/wiki/Philippine_Health_Insurance_Corporation)*,
Premiums from the formal sector reach up to 3% of monthly income. Premiums from both the poor and the informal sector are 2,400 pesos annually (about 50 USD). However, the cost of insurance for the poor is fully subsidized by the central and local governments.

Our Health is very important, without a sound condition of it, all aspect of our life will be nothing.

As stressed out by Sir Vince Rapisura on his website (http://vincerapisura.com) about Health Insurances and Health Plans in the Philippines "Isa sa pinakamahalagang insurance na dapat meron tayo ay ang health insurance. Ang pagkakasakit ay ang isa sa mga pangunahing pinagmumulan ng malaking gastos na hindi inaasahan."
He enumerated 4 types of Health Insurances and Health Plans in the Philippines;

HOSPITAL AND EMERGENCY CARE

Ang hospital and emergency care insurance ay isang klase ng insurance kung saan nagbibigay ito ng proteksyon sa lahat ng klase ng pagkakasakit basta tayo ay ma-hospital o maitakbo sa emergency unit ng isang hospital.

Lahat ng klase ng sakit ay covered nito basta ang crucial ay na-admit ka sa hospital o nangailangan ka ng serbisyo ng hospital o clinic dahil sa iyong karamdaman.

CRITICAL ILLNESS

Ikaw naman ay covered lang ng insurance ng mga nakalistang sakit na itinuturing na mapanganib sa crticial illness insurance. Hindi lahat ng sakit ay covered ng critical illness insurance kundi limitado lamang ito sa listahan ng mga sakit na nakalagay sa iyong insurance policy.

Sa Pilipinas, karaniwang rider sa life insurance ang critical illness insurance. Wala pa akong nakitang stand alone na critical illness insurance.

Dati mga permanent at investment-linked insurance lang ang may critical illness riders at ito ang madalas gamitin ng mga insurance agent na enganyuhin ang mga tao para kumuha ng insurance sa kanila.

Pero ngayon, mayroon nang mas maganda at mas murang paraan para dito dahil nago-offer na rin ang mga insurance companies ngayon ng term life insurance na may kasamang critical illness rider.

HOSPITAL INCOME BENEFIT

Ang hospital income benefit naman ay ang matatanggap mong fixed amount kada araw kung ikaw ay nagkasakit ayon sa nakalagay sa insurance policy o kaya ay na-admit o na-confine sa hospital. Tulad ng critical illness, ito rin ay karaniwang rider sa mga life insurance policies.

HEALTH MAINTENANCE ORGANIZATION

Ayon sa Republic Act 7875, ang isang Health Maintenance Organization" ay isang klase ng health care provider. Ito ay nagbibigay o nagaayos ng benepisyo o coverage ng serbisyong pangkalusugan o health services. Nagbabayad ng fixed prepaid premium ang mga plan members ng HMO upang makuha ang mga health services na ibinibigay ng HMO.

Ang malaking kaibahan ng HMO sa mga naunang uri ng health insurance ay ang pagbibigay nito ng preventive health care services. Sa totoo lang, mas kilala ang mga HMO sa pagbibigay ng preventive health care services tulad ng annual physical exams, laboratory tests, clinic consultations at iba pa.

He also added that we should get PhilHealth first, since this is the universal health care welfare service our government is giving to all Filipinos.

The following was advised also by Mr. Rapisura;

- Prioritize hospital/emergency insurance
- Give importance to preventive health
- Get critical illness if budget allows
- Save and invest

Invest in our health first and everything will follow. Cheers!

POTPOURRI

Aurora Asda

Stories that will change the way You think

The following story about making a difference will never fail to inspire us, regardless of how insignificant it may seem in the eyes of others. Let's go back to story No.1

I am only one; but still I am one I cannot do everything, but still I can do something; I will not refuse to do something I can do.

- Helen Keller

Story #1: All the Difference in the World

While walking along a beach one Friday morning, I saw someone in the distance leaning down, picking something up and throwing it into the ocean. As I got closer, I noticed that the figure was that of a young boy, picking up starfish one by one and tossing each one back into the water.

As I came closer still and called out, "Good morning! May I ask what it is that you are doing?"

The young boy paused, looked up and replied, "Throwing starfish back into the ocean."

I smiled and said, "I must ask then, why are you throwing starfish back into the ocean?"

To this, the young boy replied, "The sun is up and the tide is going out. If I don't throw them in, they will die."

Upon hearing this, I commented, "But, young boy, do you not realize that there are miles and miles of beach and there are starfish all along every mile? You can't possibly make a difference!"

The young boy listened politely. Then he bent down, picked up another starfish, threw it back into the ocean past the breaking waves and said, "It made a difference for that one."

We often think we are too insignificant or too unimportant to make a difference. We couldn't be further from the truth. So, can I encourage you to take the time to do something that will make a difference to someone else's life and it doesn't have to be much and they don't need to know. Just take a moment, do something special, the universe will know and that's enough.

The moral: You can change the world – maybe not all at once, but one person, one animal, and one good deed at a time. Wake up every morning and pretend like what you do make a difference. It does.

X-BOX

Russel Flores

GAMER'S MIND

Dream Team

I love sports and have always enjoyed watching it. Be it individual sports, combat sports, racing and most of all – team sports. I am always fascinated by the dynamics of individual moving as one for a common goal – WINNING.

As a child, I grew up to be frail and admittedly besets with agility and eye-to-hand coordination. However, my love for sports never diminished so I focused on another facet – coaching. Although I am very fascinated with Jordan soaring for a shot or Curry hitting a trey with relative ease, I took more interest on how the Bulls dominated the 90's or how the game evolved through the years.

For the record, I have already three championships as a coach in PICE-Qatar basketball events. My strength as a coach is the ability to scout my opponent as well as knowing my players better. The game plan I used in each game always depend on how my players play and how my opponents run their game. By now you might be asking yourself, this article will focus on who will comprise my PICE-Qatar selection (in case we are to enter an inter-organization tournament). Well, let's get started.

First, I want my team to be balanced – where each player fits my game plan perfectly well. I want a team who will always play their hearts out each game and does not settle for anything less than a win. I do not want a team who is composed of superstars, a kind of player who is always present in photo ops. I would rather choose a player who is efficient and works silently.

I will not choose a veteran just because he was a constant member of winning teams. I will have to check if this veteran was valuable to his teams or was he just a bench warmer who flash the winning smile only during awarding. I would gamble for a rookie or a bit player who can contribute to the team better than an ever silent veteran.

My team must have leaders who are not just gifted players but someone who commands respect. I want someone to lead my team by example and one who has vision also for the team. Although my team will be filled with roles players, I want some of them to stand up for the team and calm the team should any tension builds up.

Before I end this column, may I remind everyone that the time to choose our future leaders is near. We will have the same chance to choose our "DREAM TEAM". Remember a rock and a seed may start the same, but one has the ability to soar high while the other remains unchanged with the passage of time. In choosing our leaders, we can either opt for a winning combination or settle for mediocrity – **the choice is yours**!

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SPORTS

GAMEBOY'S *(Russel Flores)*

Alaskadors take control

After a close fight in the opening game, the battle of the hoops continues on who will reign supreme in the 3rd President's Cup.

Drawing the first blood, the Yellow Tanders gained more confidence coming into the Game 2 with a valuable addition. Towering center – Engr. John Mark Bunagan finally suits up for the Tanders thereby negating the Alaskador's height advantage that was evident in Game 1. However, the Alaskadors still hurting from the Game 1 loss proved to be determined to pull the rug under the Tanders. The Paradero-Tejedo-Nevado triumvirate kept the Tanders at bay - the Alaskadors heft and height against the run and gun play of the Tanders. The first half ended with the score of 17 against 16, with the Alaskadors holding on to a 1-point lead. The second half proved to be the same with no team giving a breather over the other with the highest lead held by the Alskadors at 6 points. This margin proved to be enough as the Gray team evened the series with a win in game 2.

Game 3 showed a new combo from the Gray team with most of the second stringers starting the game. It's a daring move by the Gray tactician in coming up with a small lineup. The yellows were off to a hot start and capitalized on the Alaskadors gamble. The tanders lead by as high as 12 points before the starting lineup took a breather and ended the half enjoying a 9-point lead. For the second half, Alaskadors twin Towers – JM Tejedo and Bong Nevado controls the board on both ends of the court. With timely shots from surprise package – Arman Tolentino and steady hands of Alaskador captain Arnold Paradero, the Gray inched closer to trim down the Tanders lead to five. However, as the Gray team again lost steam, the speedy IPP Allen Nacario left the Alaskadors biting the dust with fast break plays. Moreover, 3-point shots rained by high flying Johnson Sanchez helped the Tander to a convincing win in game 3 with a score of 70 against 58.

With the backs against the wall, the Alaskadors started Game 4 undermanned with only nine players suiting up against a confident yellow team. The game started slower than usual with the Alaskadors controlling the pace and setting up their half-court offense. The Alaskadors took advantage of the absence of Yellow slotman – JM Bunagan with second-chance points and defensive rebounds. The Yellow team had an ace on their sleeves with Engr. Ed Domingcil combining with Nacario-Templonuevo combo to keep the Tander within striking distance. As in the previous games, Game 4 is a tooth and nail battle with no team giving a breathing space to the other. Exhaustion is slowly catching up with the Alaskadors and the Tanders capitalizes on every loose ball. The late arrival of Emil Manalo gave the Alaskadors a glimmer of hope and fresh legs. With a little over 2-minutes remaining, the Yellow team still enjoys a 2-point lead. As the game enters the homestretch, Alaskador power forward – Bong Nevado catches fire and unleashed his signature "toro" moves. This turned the game around and gave the Alaskador a 59 to 55 win.

The series is turning out to be a see-saw battle between the 2 teams. Game 5 will be a turning point in the series with the winner moving closer to the coveted crown. The Gray started off with how game 4 ended. Alaskadors opened a peculiar starting unit with their bench tactician – Engr. Russel Flores starting as small forward. A perfectly executed play resulted to a jump shot from the near the free throw line by their Gray's playing coach to open the scoring. New Alaskador – Anthony Patino, quickly fitted in Gray's rotation and found a role as the key enforcer. He was able to collar important rebounds and made key stops everytime the Yellow Tanders make a rally.

The gray team were all business and seemed to finally solve the Yellow riddle. They have shot down the Tanders running game whilst shooting with relative ease. The Yellow team was taking a dose of their own medicine with the Alaskadors own fast break plays to take the lead at halftime with a 30 to 20 lead. The relentless Alaskadors continued to show mastery of the Yellow game leaving them helpless in both defense and in their offense. The lead ballooned to 20 points with the gray team still energized for more. With the game well beyond Yellow's reach, the Alaskadors finally allowed it supporting team finished the game. The Gray team took game 5 with a 58 to 50 lead.

Will the Alaskadors end the series in game 6 or will the Yellow Tanders force a rubber match?