

WHAT'S TRENDING?



Messages...

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In behalf of the whole Committee on Publications and Information (COPI) and the Newsletter Team, we would like to take this opportunity to give thanks to all the contributors and readers, who finds time to get involved in our Newsletter.

We do hope that you got something in addition to your stored know-how and get aware of our chapter activities and events.

Do participate more in our chapter's plans and programs not only for professional development, but most importantly for the camaraderie that molds as one family.

We will see you next year for the continuation of our Newsletter.

Happy Holidays!

Felipe Davila Catino

COPI Chairman
Editor In Chief



PHILIPPINE INSTITUTE OF CIVIL ENGINEERS
QATAR CHAPTER

International Charter No. I-03
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(continued from December Celebrants)

DELOS SANTOS, DANTE T.
JAMIH, JERNALYN B.
LLANILLO, FERGIE A.
OBENZA, BERNARD P.
RICO, REY ANTHONY T.

December 20
AGBAYANI, MELCHOR NOEL N.
AGLIPAY, JETT D.
AGUEDAN, WINSCLAIRE RAM T.
CORRO, JESSE C.
DE GRACIA, JESSEL O.
ESPINA, JOSELITO A.
ESTILLORE, NOEL D.
FLORES, LARRY C.
JAROPOJOP, CATALINO A.
MANZANO, JEREMIAH E.
SANTOS, RENGEL M.

December 21
CABANILLA, MELSON C.
ESPINA, RODERICK M.

December 22
ANONUEVO, DANILO B.
ARNAIZ, MARY CHRIS F.
BALADAD, JENNY P.
DEPERA, PABLO R.
DEL ROSARIO, PAULO D.
FLORES, RUSSEL F.
MENDOZA, JOHN BRYAN P.
NOR, RAKMA C.

December 23
BLANCO, CHRISTIAN MERVIN R.
HAPA, DANILO E.
LOPERA, GENE O.
OLOFERNES, EDWIN P.
PELLE, HAROLD L.
TAGHOY, NILO R.
VILLANUEVA, NESTIE D.

December 24
ANOK, BASIR M.
BALDOY, FABIAN B.
BOCETA, EMMANUEL GERMAN V.
DEMAVIVAS, FLOREEN JOY P.
MANLUNAS, JOSEPH JESS A.
PALMA, PIO JR. T.
RAMOSO, LUZVIMINDA D.
RAYTOS, HADJI C.

December 25
AMORES, CHRISTOPHER A.
DANLAG, RAFAEL JR. R.
ESCABARTE, ALMA A.
LOPEZ, JOSE PORFERIO E.
MANAGUELLO, GERALDO T.
MORI, JESSIELLOIDA B.
SINON, KRISTINE V.
TAN, MICHAEL STEPHANIE D.
VINDUA, JESUS V.

December 26
APOSTOL, PETER JOHN C.
BORJA, JACKSON D.
DUMAOP, ERICKSON P.
LAZARTE, ROMMEL S.
MAQUILING, JESUSITO C.
USMAN, HABIB M.

VIRTUDES, ERNESTO JR. G.
December 27
ANGELES, CHARLES IRVING E.
DANO-OG, GINA MAY B.
MANECLANG, JERRY G.
MOSQUEDA, JOSE ERIC A.
OCHOA, JOBEL P.
PASCUAL, GLENEROSO C.
POLIWOS, JOEL A.
REBANAL, CHRISTOPHER R.

December 28
EVA, JAY R.
FALLORAN, RONNIE M.
MENDOZA, RENE L.

December 29
ALBALATE, MICHAEL SJ.
ANAMI, FRAZER U.
BONARES, REYMUND B.
DUA, PETER A.
MACAPINLAC, JOHN PAUL S.
MACASPAC, REYNOSO P.
MENDOZA, LONAR M.
PARAYNO, REYNALDO F.
REYES, RUEL N.
ROSAURO, JACKY ELEAZAR N.
SALINAS, RAFAEL G.
SARIP, JAFAR L.
SORO, O'DONNELLO N.

December 30
ABERGAS, RAINER A.
ALDEMITA, GILBERT M.
BAYOT, ERWIN B.
CALONGE, CHARLES WILLIAM A.
DE CASTRO, RIZALITO C.
IGNACIO, JOERIZ M.
MANSILONGAN, MARLON G.
PINEDA, JOHN MARK R.
TUDLASAN, JOEL R.

December 31
ABIANG, STEVEN S.
BASILAN, RHODNEY P.
DIOSAN, CHRISTINE D.
FERNANDEZ, DOUGLAS ANTHONY J.
HERNANDEZ, JUBER C.
PANGAN, RAMESES A.

Note:

For those members who are celebrating this month which are not listed above, our apology because we are now updating the records but we wish you another year of blessings. Like the song says: Live your life with arms wide open, Today is where your book begins. The rest is still unwritten. Happy Birthday!
For errors and corrections relating to the facts above, kindly address your concern to:

BELINDA E. DELA CRUZ
COME Chairman 2017
Committee on
Membership PICE - Qatar
Chapter



Decade of existence of PICE Qatar Chapter

Felipe Catino

An engineer usually becomes competitive only after a decade of continuous work and experience. PICE Qatar may have reached the peak of excellence, as it has existed in Qatar for ten (10) long years. Through the years, many accomplishments had been realized through strong leadership that persisted. It was in the year 2007, that the chapter has been molded by 25 Civil Engineers headed by Engr. Roy Baquiran. The creation of the chapter in Qatar truly helps our fellow civil engineers in advancing its technical capabilities in order to be globally competitive.

In each year, milestones after milestones were recorded as follows;

2007-2008 - Founded PICE Qatar Chapter. Started to conduct Seminars, Membership, Beach Cleanup, Blood Donation and Newsletter (Balitang PICE).

2008-2009 - Launched the Website, SPLE Review, PPO

(Pioneer), Outreach Program, Bowling Tournament and Tree Planting.

2010 - Started the Basketball Tournament and Plant Visit.

2011 - Started to conduct Seminars in a five (5) star Hotel and distributed Membership Manual.

2012 - Created a venue for Filipino Civil Engineers to showcase their professional skills and talents internationally by conceptualizing the PICE International Technical Conference (ITC) and successfully hosting the 1st PICE ITC. Initiated a project with social impact on education and environment by funding PICE Qatar's 1st School Building Project.

2013 - Facilitate the construction of 1st School Building. Funding & completion of 2nd School Building. Founded PICE Qatar Toastmaster Club. PPO Basketball Tourney. Collaboration with International Organizations (CIHT, ICE, CSC and MIDAS TI).

Route to chartership workshop. PICE Qatar website upgrade. Media exposure through GulfTimes and Qatar Tribune.

2014 - Awareness campaign for MMUP, AER and ACPE registration. Construction of 2nd School Building. Partial funding for 3rd School Building.

2015 - Approval/Conferment of PICE Qatar 1st Batch ASEAN, ACPE and APEC Engineers. Newsletter award documentation. Monthly Outreach Program. Funding completion of 3rd School Building.

2016 - Mid Year Technical Convention. ASEAN Engineer Conferment. MME Review. Funding for 4th School Building. Tree Planting in Partnership with Qatar Foundation.

2017 - 1st Math Whiz. Sustainability workshop. Scholarship. APEC Writeshop. CPD

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EDITORIAL

PICE Qatar at 2018



As the Term of the PICE Qatar 2017 Board of Directors comes to end officially in the midnight of December 31, 2017, it couldn't be helped but think about what will be in store for our beloved organization in this coming year with the newly elected set of Board of Directors 2018 at the helm. The fact that the year 2017 has been a success for the organization, with numerous project put into motion and completed under the leadership of now Past President Allen L. Nacario, cannot be denied. It is the kind of accomplishments that is worth emulating and really made us members, proud of being a part of.

Truly, PICE Qatar has now become an epitome of every professional

organization. What made us successful is the camaraderie and support given by members and most importantly is the honesty and the will to serve without waiting for something in return attitude that our leader possesses – this is the very foundation of PICE Qatar and the same words of no less than the founder – Engr. Roy Baquiran that was inculcated in the mind of the BOD members and those who are seeking a position in the organization.

To those who wonder what tomorrow will bring to the organization? Wonder no more. The BOD 2018 members came from the very same breed of professional civil engineers who guided the organization from the time of its

conception in May 2007.

A huge challenge was given and accepted by the BOD 2018 and under the leadership of current President Aileen A. Buenaflor we can't expect anything less but better. We will surely rise and conquer any mission put in the way with the general membership's participation and support.

Decade...

Continued from Page 1...

Program approval. Tennis Tourney. Construction of 3rd and 4th School Building. 5th School Building Project.

This year's theme "A decade of global excellence through global recognition", pushes more members to be competitive and reach their goals.



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PICE Qatar Executive Committee Members Messages

A decades life with PICE Qatar is a legacy to live on....

Founding President Roy Baquiran

Let us continue to be together!
For us to continue to a make a difference!

Past President Del De Leon

When you and I are far apart
Can sorrow break our tender hearts
I really love, yes I do
Sleep is sweet, when I dream of you
All you are is blooming rose
Night is here, so I must close
With care, read the first word in each line
You will there, a question find

Past President Eric Garcia

May the blessings of our savior Lord Jesus Christ be upon us this season of Christmas. Have a wonderful, meaningful and blessed Christmas and a Happy New Year too to all of us...

Business Manager Arman & Beth Tolentino Family

Merry Christmas and a happy new year!

Treasurer Medel Dalida

Faith makes all things possible
Hope makes all things work
Love makes all things beautiful
May you have all the three for this Christmas.
Merry Christmas!

Auditor Mic Arev

May the Christmas season bring us good health, inner peace and more success.

It's the perfect time to thank God for all the blessings we have received and to celebrate the success of our organization under the able leadership of our 2017 President – Engr. Allen Nacario. It is also a good time to rest and spend quality time with family and friends. After all the hard works, everyone deserves a good break – from the pressures of work, from commitments, from organizations, from everything! It's the best time to "re-set" or "re-boot" our system, so that when the new year starts, we are fresh, rejuvenated and again ready to face whatever challenges 2018 may have in store for us. Let's celebrate and make this day a truly joyful one!

Amidst all the celebrations, parties and festivities, let us not forget the essence of the holiday season, which is the birth of our Lord and Saviour Jesus Christ. After all, this is called Christmas which etymologically means festival for Christ. Therefore, it is truly right and just that Jesus should be the center of our celebration. Whatever is our congregation or denomination, we are one in believing in the birth of Jesus Christ, and this season is one way of celebrating His birth.

As the Holy Bible says: "For God so loved the world that He gave His only begotten Son; that whosoever believeth in Him should not perish, but have everlasting life", I think that the true spirit of Christmas is love. God loved us first and it is our duty as Christians to share this love with our fellowmen. PICE-Qatar once again celebrated the holiday season with the spirit of sharing during the Year-end Outreach Program for our Distressed Kababayans at POLO-OWWA on 21 December 2017. Thank you for your support in this endeavor of our organization.

We are indeed very lucky that in Qatar, a country in the Middle East, we are allowed to practice our beliefs and religious celebrations. This is not possible in other Arab countries. I know that many of you have attended simbang gabi and have rejuvenated your faith through this 9-night mass celebration...and I am sure you have enjoyed the food after the mass – the kakanin, lugaw, palabok, puto bumbong etc. Kumpleto rin ang Pasko sa Qatar.

Again, I wish you all a very merry Christmas and I hope you and your family will have a prosperous New Year ahead.

Past President Ronald Nilo



CHRISTMAS
CHRIST My Almighty Saviour.
In Him we live.
Our labor is not in vain.
Have a blessed Christmas and a prosperous New Year

COPA Chairman Emil Manalo

Peace on earth...
Goodwill to mankind...
Joyeux Noel!

COLSA Chairman Eman Boceta & Family

May the joy and peace of Christmas be with you all through the year.
Wishing you a season of blessings from heaven above.
Merry Christmas!

COME Chairman Belinda

Christmas is the season of joy, giving and forgiveness...
Merry Christmas to all!

Secretary Luisito Carlos

Continued to next page...

PICE QATAR ACTIVITIES

Red Team Trounces Blue, Lifted the Crown

Alfonso Belito Betita

The Red team overcame an early rout with a come from behind win over the Blues 48 – 37 to grab the crown in the seventh and final game of the just concluded PICE President's Cup basketball tourney held at the Arab International Academy Gymnasium in Al Saad, Doha, Qatar on December 8, 2017.

The Reds who has taken the back seat early on the game and on the verge of collapse with an 8-point deficit at the end of the second half, 14 – 22 has found a new lease of life in the third quarter with strong defense and sustain attacks to the board. Johnson Sanchez dominated with back to back offensive rebounds while sweet shooting Emil Manalo provides precise scoring in and out of the shaded area. Newcesar Templonuevo and Hilario Amoguis help out the Reds with fast offensive maneuvers and sporadic attacks on the basket.

It was a heart-breaking and humbling yet a good experience for the Blue Team who got all their wins in the tour-nament in a dominating fashion including the 6th game which was played just a few weeks prior to the championships. The Blues nevertheless vows to avenge their loss in the second conference which will be held soon.



Photo by: Susan Nacario

Outreach Program Photos...

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Seminar Photos...

From Page 7...



Photo by: Henrik Gal De Ocampo

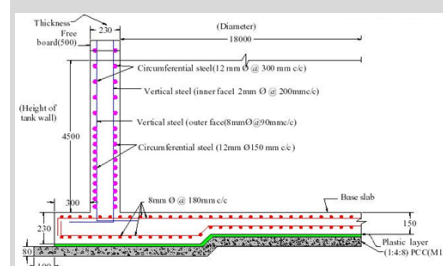
Meet-up Photo at Asian Chef, Mansourah...



Designing...

Continued from Page 8...

dependent on the distance of reinforcement bars to the concrete surface. The farther the bars, the larger the anticipated cracks and vice versa. On the other hand, if the wall height is significant enough that warrants the vertical rebars to be located at the outer layer, then reinforcements need to be detailed in such a way that the member capacity is designed to resist the corresponding stresses due to the applied loads. One advantage of having the horizontal bars installed at the outer layer is its constructability. At the end of the



day, whatever the designer deems appropriate for the structure will be implemented according to the principles of internationally accepted codes and standards. The author wishes to inform the readers that the above Q&A are based on standards as well as published literatures. While it has been the intent to eliminate errors and omissions, it will be greatly appreciated if it can be brought to the author's attention. Further, it is strongly advised to refer to the following references for further readings; BS 8007 code of practice for design of concrete structures for retaining aqueous liquids, The Structural Engineer Concrete Design Guide, CIRIA 660, ACI 350 and 200 Q & A on Practical Civil Engineering Works (Chu).

THE PRESIDENT'S LOUNGE

The President's Report

Allen Nacario

CEng, ACPEng, PMCE, M.ASEP, MMUP Grade A



The 2017 tenure is so exhausting. However, it was trounced by fulfillment. The remarkable achievements of PICE Qatar Chapter have been manifested by the strong commitment to service and valuable contributions of the Executive Committee in unity with the full support of the 867 active members.

Congratulations and a big thanks to all of you!

The successful accomplishments were as follows:

Programs for the benefits of Filipino students both in Qatar and Philippines:

1st Math Whiz Contest

1st Workshop on Sustainability focusing on Climate change

Initiation of PICE Scholarship Program by providing assistance to two (2) qualified 3rd year Civil Engineering Students.

Donation of toy kits for a toy library in the Philippines to keep off children from streets, and for play, creativity and imagination, and meaningful social interaction.

School Building Projects

Rehabilitation of 1-classroom school building affected by typhoon Nina in the Philippines. The project benefits and will benefit grade school students.

Construction of two (2) school buildings in the Philippines.

Participation in PICE Chapter awards for two (2) categories:

Best Newsletter Award

Community Service Award

Professional Advancement

Acquired approvals of Continuing Professional Development (CPD) programs by finalization of the requirements to comply the documentations provided by the Professional Regulation Commission (PRC).

Conducted the 1st APEC Application Writeshop (Batch 1 and Batch 2).

Conducted 13 seminars/trainings.

Conducted Ministry of Municipality and Environment, MME (formerly MMUP) review for examination. 68 successful examinees have been recorded for the year 2017.

Conducted four (4) major events namely; Induction of the newly elected officers, Foundation day celebration, 2nd Special Conferment Ceremony and 11th General Assembly.

Sports

Conducted the 1st Tennis Tournament.

Conducted the 1st Bowling tournament for longer season; previously done in one-day only.

Conducted the 1st President's Basketball Cup.

Participation in the 6th International Technical Conference with 28 Delegates from the Chapter; Second most numbers next to the host country, Singapore.

COPI

Issuance of monthly newsletter including special issues.

Contributed articles to PICE National.

Contributed articles to local newspapers in Qatar.

Conducted workshop on journalism.

Continued to next page...

PICE NATIONAL UPDATES

2018 National Officers and Board of Directors

Luisito Carlos



No.	Name	Chapter	Position	Sector
1	Maria Catalina E. Cabral	Batanes	President	National Government
2	Robert S. Licup	Quezon City	1st Vice President	Consulting / Private Practitioner
3	Dimas S. Soguilon	Makati	2nd Vice President	National Government
4	April Frances Agatha G. Flores	Bataan	Secretary	Consulting / Private Practitioner
5	Lea N. Delfinado	Negros Occidental	Treasurer	National Government
6	Ronnel M. Tan	Quezon Province	Business Manager	National Government
7	Daisy B. Toledo	Cebu	P.R.O.	National Government
8	Albert A. Perfecto	Quezon City	Auditor	Government Corporation
9	Ixoperio R. Bonzon	Angeles City	Director	Educator / Academe
10	Evelyn B. Cayat	Baguio	Director	Local Government
11	Bernardo C. De Guzman	Cabanatuan, Nueva Ecija	Director	Local Government
12	Isaac S. David	East Metro Manila	Director	Private Sector - Construction Industry
13	Edgardo A. Ong	Iligan City	Director	Consulting / Private Practitioner
14	Melchor L. Peralta	UAE	Director	Private Sector - Construction Industry
15	Angle T. Torrejon	Davao City	Director	Private Sector - Construction Industry

The President... Continued from Page 3..	an assistance from the organi- zation.	“better” instead of being the “best”. Because being “better” will always have room for improvement. In the next year 2018, let us continue to support our beloved organization and maintain the unity under the leadership of our new and first female President-Elect Aileen Abejero-Buenafior.
COHOPLE Conducted review classes with 154 enrollees.	COLSA Produces 13 new ASEAN Engineers; 5 new ACPE.	
Produced 21 New Civil Engineers (out of 130 examinees) through SPLE program.	COME Produces about 300 new members and 22 Life members.	
COPA Benefited about 800 adults and 34 babies head counts in the conduct of ten (10) outreach programs.	COWME Added eight (8) new items. The proceeds were increased by 35% of last year.	<i>Special thanks to the following:</i> My Wife Susana, President-Elect Ai, 1VP-Elect Alden, 2VP-Elect Lui, Past President Del, Auditor- Elect Sheila and Founding President Roy.
Six (6) in need members received	I prefer PICE Qatar to be	

Feature

“A look back into our history”



Florencio Hernando Jr.
SPLE Board Passer
November 2017

It is a great honour to do this write up for our Newsletter; to think that I am just an ordinary member of the organization and by far less experienced, for me this chance exercise’s freedom of expression regardless of which class you are in the organization, to my fellow PICE members I seek your patience as I am still a novice in the field. Nevertheless, I thank PICE Qatar and our chapter President Engr. Allen Nacario for giving me this once in lifetime opportunity. This article is about our foundation, it is non-technical and intended to give appreciation to our history and motivation to all members. Let me start with this quote:

“He who does not know how to look back at where he came from will never get to his destination.”

Sounds familiar? Yes, from our national hero, Dr. Jose Rizal. To look back is to give appreciation to people who sacrificed and have greatly contributed of who we are today, this as I have understood from my parents as “lumingon tayo sa ating pinanggalingan”. Having said, I am taking this chance to give my respect and thanks to our beloved organization by recalling its history, as follows;

Philippine Institute of Civil Engineers (PICE) was born on the 11th December 1973; this is a result of the unification of founding Civil Engineering Organizations in the Philippines namely Philippine Society of Civil Engineers (PSCE, 1920) and Philippine Association of Civil Engineers (PACE, 1937).

The objectives of both organizations were similar with each other in which both of them wants to: "Elevate the standards of the profession, encourage research and engineering knowledge and technology, foster fellowship among members, and promote interrelation with other technological and scientific societies” (Source: www.prc.gov.ph)

In other words, despite the difference between the two organizations, but due to having a common objective, this resulted in alliance and became PICE. This would not have been successful without the dedication, unity, hard work and heart from our founding engineers from both organization namely; Engr. Marcial Kasilag, Engr. Enrique Sto.Tomas Cortes, Engr. Alberto Guevarra and Engr. Cesar A. Caliwara and all other participating professionals, and on August 13, 1975, the Professional Regulation Commission (PRC) recognized the PICE as the only official organization of civil engineers in the Philippines.

Then, as years pass and more Filipino Engineers started to migrate and work internationally, our beloved PICE Qatar chapter was established in 25th May 2007 by twenty-five Filipino Civil Engineers. The 25 Founding Members are hailed from different regions of the Philippines and were employed by various engineering and construction companies involved in various aspects of civil engineering and construction activities in the development of State of Qatar. (Source: www.piceqatar.com)

Our Chapter's founding members are Engr. Roy Baquiran (Founding President), Engr. Frederick Garcia, Engr. Hilario Salaysay, Engr. Sherwin Salcedo, Engr. Jose Eric Mosqueda, Engr. Arnaldo Paradero, Engr. Vito Quirog, Engr. Elias Giron, Engr. Mario Camacho, Engr. Romarico Abenojar, Engr. Cidemar, Ajijul, Engr. Antonia Asinas, Engr. Rodel Bongat, Engr. Medel Dalida, Engr. Mohammad Saud Daudie, Engr. Noel Jumawan, Engr. Surtalicio Liquido, Engr. Jeremy Lopez, Engr. Jonathan Manzano, Engr. Elimelech Maranion, Engr. Rolly

Pimentel, Engr. Richard Santisteban, Engr. Newcesar Templonuevo, Engr. Bernadetta Veloso, Engr. Sherwin Villar.

Their commitment led to its recognition on 17 June 2007 by the Philippine Embassy in Qatar, through H.E. Ambassador Isaias F. Begonia, as a non-profit organization of Filipino Civil Engineers working in the State of Qatar.

The organization continued to grow due to the efforts of our past and present officers and members, though I am still new, I have already witnessed the sacrifices and exceptional dedication they have contributed to the profession, this deeply encourages all of us to be proud of whom we are today, yes we are Civil Engineers, but more than our profession, for me what is more important is our foundation built under the camaraderie of all PICE Members.

All of their sacrifices and efforts bring success to each and every individual of the organization. In fact, with their motivation, assistance and guidance; I am now a fully pledged Licensed Civil Engineer. After years of my journey in the Construction field, when I joined PICE Qatar in 2015, this is the only time that I truly realize the purpose of fellowship and motivation of such a prestigious organization, this also justifies how the objectives were passed on from the founding organization to the present.

Due to our organization’s spirit, my career’s direction has been enlightened, though I am working as a Quantity Surveyor, but inside of me is a heart of a Civil Engineer that will never forget where it all started. May this write up inspire us all through fellowship and unity in helping each other to achieve our goals, and shall not hesitate to move on forward; for the reason to trust that there is a strong foundation behind the organization that supports each of its members to be successful in life.

True it is, learn to look back where you came from and you will reach your destination.

STRUCTURAL ENGINEERING

Designing Water – Retaining Structures

Jeffrey Cimagala

In the last issue of the PICE Newsletter, the author highlighted some of the most common questions we encounter during our day-to-day activities. In this issue, similar interesting questions will be highlighted. The author wishes to emphasize that the provided answers were adapted from published references (including codes) coupled with relevant industry experience for easy reference to the readers. The author will focus on water-retaining structures (WRS), in particular, made up of reinforced concrete. Unlike regular RC elements (building components), a WRS is required to resist hydrostatic pressures and water-tight characteristics are very important in the design phase.

Q: Jointed or joint-less construction – are movement joints necessary?

A: The answer largely depends on the designer's assumptions in conjunction with the end-user's requirements. There are many parameters that dictate the need of movement joints. If the structure has a relatively large foundation area, the probability of having variable soil stiffness is also relatively high. For this reason, the behavior of the structure when loaded might not be uniform. Furthermore, due to thermal variations, the elements tend to expand and contract which in turn will induce thermal stresses. However, concrete is considered incapable of resisting tensile stresses. Consequently, designers employ necessary mitigating measures to resist these additional forces. Two principal methods of arresting the effects of thermal variations is by the use of movement joints for a jointed construction and using closely spaced reinforcements. When choosing

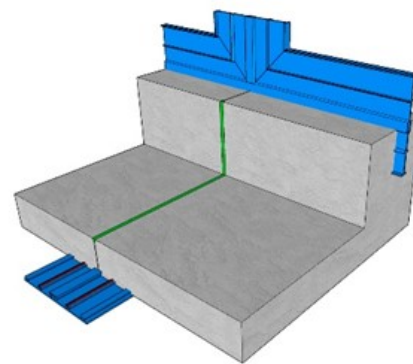
to adopt the second method, it is always advisable to use smaller sized reinforcements not only for economical reasons but also its constructability, i.e. the larger the bar diameter the more difficult it is to be bent and installed. Due to the stringent criteria of WRSs with crack widths being limited to 0.20mm (from BS 8007), it is almost always a better choice to incorporate movement joints to avoid heavily reinforced concrete sections.



Q: What is the importance of limiting the crack widths to 0.20mm?

A: BS 8007 specifies a limiting crack width of 0.20mm for severe to very severe exposure conditions. This equates to approximately 30% of the steel yield strength ($f_s = 130\text{MPa}$ for deformed grade 460MPa bars). In comparison, ACI 350 limits the steel stress to approximately 33% or 0.10mm which is more stringent. The primary reason for this is the prevention of water ingress into the core of the concrete element thereby posing a threat of rebar corrosion. Another reason is that cracks are potential weak points that may lead to water leakages, hence, most WRSs are given additional protection through external membranes and water stops at joints. The third reason is that limiting cracks up to a certain extent helps the concrete to "seal" itself by way of autogenous healing. According to CIRIA 660, while there has been additional research on autogenous healing and the mechanisms by which flow rate decreases are now better understood (Gerard et al, 1997, Khushefati, 2004), the earlier recommendations which suggests that cracks 0.2 mm or less in width tend to seal themselves have not changed substantially

(Clear, 1985, BS8007, 1985). By these remarks, it is predominantly assumed and accepted that the mechanism of autogenous healing occurs wherein the crack is "self-sealing" and consequently will not be detrimental to the reinforcements and the structure as a whole. The process of "self-sealing" occurs in the presence of water. The scientific reason, according to studies, is that calcium hydroxide in concrete cement reacts with carbon dioxide in the atmosphere, resulting in the formation of calcium carbonate crystals. As it grows, the crystalline formation forms a bond that eventually seals the cracks. However, it can only seal up to a limited gap, hence the 0.20mm crack width was recommended. Further, this mechanism can only occur during contact with stagnant water (flooding or curing) as



flowing water tends to remove the by-product of the hydration of tri-calcium silicate and di-calcium silicate.

Q: Which rebar arrangement is more suitable for walls – vertical layer in the outside or horizontal?

A: The answer to this question largely depend on the configuration of the WRS. If the wall has short vertical and long horizontal dimensions, chances are the effects of thermal variation will become more substantial in the horizontal direction. From the first principles of mechanics of materials, the element elongation and contraction is directly proportional to the length. In this case, the horizontal reinforcements are placed on the outer layer. Crack control is largely

Continued to page 10...

PICE QATAR UPDATES

PICE Qatar Successfully conducted 10th Outreach Program!

Aileen Abejero-Buenaflor

The Committee on PICE Qatar Affairs conducted the last outreach for year 2017 last December 21. With the usual support of the PICE Qatar Board of Directors, Members with their family and friends, it was indeed conducted successfully at the POLO OWWA old office, Doha State of Qatar, which sheltered our distressed "kababayan". A total of 163 wards and 4 babies were blessed with groceries, used clothes, food, and words of encouragement from PICE-Q BODs, members and donors.

The PICE Qatar Board of Directors in its message to the general membership express their appreciation to the very supportive and generous PICE Qatar general membership and for the love and compassion shared to our distressed "Kababayan" in their times of needs. As they say "Never get tired of doing little things for others, sometimes those little things occupy the biggest parts of their hearts".

Engr. Aileen A. Buenaflor, the incoming PICE Q President 2018, calls on our fellow engineers and friends to please continue to support and be part of this inspiring endeavor by sharing their blessings and tell their inspiring and life changing stories in our future outreach program for year 2018 to inspire others. (Photos on Page 10)

Year End Party for PICE-Q EXECOMM and Families Held

Alfonso Belito Betita

The Executive Committee of PICE Qatar and their families celebrated the successful year of 2017 with a bang on December 8, 2017 at the Hilton Hotel in Doha, Qatar from 7:00 PM to 12:00 MN.

PICE Q Conducts Online Survey for Seminar Topics and Call for Speakers

Alfonso Belito Betita

PICE Qatar has conducted an online survey for Seminar Topic and Call for Seminar Speakers through its yahoo group e-mail. The survey runs from December 21 to December 22, 2017.

With the purpose of knowing the members interest, the survey focuses on construction management, energy and environmental, geotechnical, water engineering, structural engineering, transport engineering and professional practice and ethics. There were a total of fifty five (55) respondents.

Construction Management and Structural Engineering garnered the highest votes with 37 and 33 Very Interested registrants respectively. The survey results are as follows:

1. Construction Management

Very Interested = 37

Interested = 16

Not Interested = 2

2. Energy and Environmental

Very Interested = 6

Interested = 37

Not Interested = 12

3. Geotechnical Engineering

Very Interested = 15

Interested = 27

Not Interested = 13

4. Water Engineering

Very Interested = 6

Interested = 38

Not Interested = 11

5. Structural Engineering

Very Interested = 33

Interested = 14

Not Interested = 8

6. Transport Engineering

Very Interested = 12

Interested = 35

Not Interested = 8

7. Professional Practice and Ethics

Very Interested = 20

Interested = 31

Not Interested = 4

The year-end party was also attended by selected guests and active committee members of PICE Qatar.

Aside from the foods and beverages, the attendees were also treated to different set of parlor games wherein prizes awaits the winners.

The event was highlighted by the traditional exchange gift and gift giving activity participated in by PICE Qatar incumbent and newly elected Board of Directors, Committee Members, selected guests and children.

During the said event, each of the attendees were given a chance to air their holiday messages.

Engr. Allen L. Nacario, PICE-Q President 2017 expressed his gratitude towards the officers, board members, Past Presidents and members for making the year 2017, a significant, fruitful and successful for PICE Qatar and its members. He personally thanked the team for their unwavering support to the organization.

MEMBERS’ PAGE

Membership Watch

Belinda Dela Cruz

As of 30 December 2017, our last issued Chapter Membership ID No. was 3178 with a cumulative total of 350 new members for 2017. Indeed, PICE Qatar membership is constantly active and growing.

We hope that everybody can participate in the activities and affairs of the organization this coming 2018.



PICE Qatar Family would like to convey our warmest greetings to the following, who are celebrating their Birthday this month of DECEMBER!!!

December Characteristics:

- ⇒ · Loyal and Generous
- ⇒ · Patriotic
- ⇒ · Active in games & interactions
- ⇒ · Impatient and hasty
- ⇒ · Ambitious
- ⇒ · Influential in organizations
- ⇒ · Fun to be with
- ⇒ · Loves to socialize
- ⇒ · Loves praises
- ⇒ · Loves attention
- ⇒ · Loves to be loved
- ⇒ · Honest and Trustworthy
- ⇒ · Not pretending
- ⇒ · Short Tempered
- ⇒ · Changing personality
- ⇒ · Not Egoistic
- ⇒ · Takes high pride in oneself
- ⇒ · Hates restrictions
- ⇒ · Loves to joke
- ⇒ · Good sense of humor
- ⇒ · Good logic
- ⇒ · December Gemstone: Blue Topaz, Turquoise
- ⇒ · December Birthstone Color: Blue

A simple celebration, a gathering of friends; here is wishing you great happiness, a joy that never ends.

Wishing you all the great things in life, hope this day will bring you an extra share of all that makes you happiest.

They say you lose your memory as you grow older. I say forget about the past and live life to the fullest today.

December Celebrants

<p>December 1</p> <p>ABEJERO, AILEEN L. DE BELEN, MARINELLA Q. CANTILLANA, ARTHUR S. EDEZA, MARTSON T. ENRIQUEZ, RESTIE C. FLORES, ANDROE S. GONZALES, JOJIE S. LAURON, RICHARD G. LINGAN, RONALYN U. PORTE, JOEMAR D. TORRES, JAYCEL B.</p> <p>December 2</p> <p>ARCEÑO, CLAUDETTE C. CALMA, RICHARD R. GUINTIBANO, ALAN J. JAVIER, MICHAEL B. MORONG, JOSEPH M. TANAEL, ARTURO Jr. A. VILLAMIL, RAMIL A.</p> <p>December 3</p> <p>BONGCO, FRANCISCO R. CASTRO, MEDELLE C. CLEMEN, MARIA ROWENA RAQUEL D. GARLANDO, HILBERT C. GUAINA, ZAIDEN U. MALUNGOCOT, MARILOU L.</p> <p>December 4</p> <p>AMBAT, RODNEY A. BOBIS, ERWIN O. CARDINES, MELECIO P. DAVID, RONALDO G. DE ASIS, ALBERTO FRANCISCO B. DELA CRUZ, MELENCIO B. PAJO, CESAR V. TELEN, URVIE O.</p> <p>December 5</p> <p>ALFONSO, ALLAN S. AMITA, FRANK LLYOD G. GARDE, FRISCO Jr. D. LEGASPI, HENRY M. MAMBIL, MARK JAYSON L. MERCADO, LEOPOLDO J. PADAYAO, MARIA BELLA V. UMALI, RICHARD H.</p> <p>December 6</p> <p>ARTICULO, RANDOLPH A. AUDIJE, RAYMOND A. BALACDAO, CARLO S. CABERTO, ALEMAR E. CALPITO, PABLITO C. CASAS, ORLANDO M. CERDEÑA, JULIUS IAN S. EVANGELISTA, RONALD R. FATALLA, JEOVENIL S. SORIANO, JOSE III C. VIVAR, JAYWARDSON V.</p> <p>December 7</p> <p>ARENAS, JEROME D. CACCAM, NESTOR R. CADUCO, DANNY Q. CAPUA, JOHN RENAN L. DIESTA, SEBASTIAN F. DOLLISEN, OLIVER D.</p>	<p>FLOTILDES, MARK RYAN P. FRANCISCO, DANILO M. MAJADILLAS, CHRISTOPHER L. MATUTINA, GEORGE II B. MENDOZA, DENNIS A. OLAR, KEVIN JAKE G. UMPAD, CONCEPCION B.</p> <p>December 8</p> <p>BALOCATING, PEDRO Jr. C. DEVERA, GEORGE N. GARCIA, AMY P. GENSON, LYNES C. JAVILLONAR, CONCEPCION L. MACABANGKIT, JOHAR A. MARCOS, MAMERTO Jr. B. PERALTA, JOHN R. REGIO, DANILO O. REYES, RAMMEL A. QUI-QUI, EUSTAQUIO A. SENEO, CHUCKY NEIL F. SOLIGUEN, EDRIAN I.</p> <p>December 9</p> <p>ADOREMOS, KENT M. BRUCAL, RENE C. BUNATON, KRISTINE DIAHNN B. JIMENEZ, RICARDO C. JUSTO, RUBELYN A. MARASIGAN, ROLANDO G. PANGAPALAN, EUFREPS Jr. E. PINGCA, EDWIN B. RAÑOLA, REY D. TADULAN, EDGAR E.</p> <p>December 10</p> <p>ABELLANOSA, DEISY MARIE L. ABENOJAR, ROMARICO P. DE GUIA, ABIGAIL C. LINDO, MARK LESTER D. MAYONA, PETER M. PABELICO, PAULITO R. PENARAN, JULIE RAY V. TERRIBLE, CLARICEL S.</p> <p>December 11</p> <p>BARRANCO, MA. DENGIE B. CASINSINAN, ROUMEL M. DELA CRUZ, PABLISMER M. ESCLANDA, JOHN CROMWELL A. FIGURACION, ELMO F. FORBES, ROBERT PETER M. MAGTIBAY, CHARLENE L. MASBUD, ALBERT A.</p> <p>December 12</p> <p>ABAS, SADDAM A. ACEBU, REY C. AGBAYANI, EMMANUEL G. ALPAZ, JOSE BRYAN E. ASUNCION, EDWIN C. BONGO, RHAEL O. BREBONIA, RICHARD A. CABRERA, SALVADOR B. ENCISA, JOSEL Jr. B. GASPAY, ALFREDO D. GOROSPE, OWEN B. METANTE, JURISPRUDENCE M. PAPA, JON-LYNN R.</p>	<p>SALISE, RESUREXIT VINCENT Jr. N. TAMAYO, LEDAN JOSEF R.</p> <p>December 13</p> <p>ABINES, MARIA SUZETTE T. ANISLAG, NOEL O. DE CHAVEZ, ARISTEO P. MURILLO, REY C. NACARIO, ROMERICO C. PABALAN, ALBERT Jr. J. SALAZAR, EDWIN T. UNGUI, NILO Jr. A. VERANO, JUVENAL PAULINO M. YAP, DENNIS B.</p> <p>December 14</p> <p>ALMAZAN, SILVESTRE Jr. P. BONDOC, ALBERT L. MOLINA, EFREN R. RAGASA, ROGELIO R. REYES, THERESA WILMA B. SANCHEZ, JOHNSON A. TAGTAG, NIDA A.</p> <p>December 15</p> <p>ABIDIN, JULJIRIN II J. AGAS, JESUS Jr. T. BORCE, GEORGE A. CAINGCOY, ROMEO Jr. T. GARRIDO, RICHARD T. ISAAC, SANTIAGO Jr. B. PANANDIGAN, ASGAR M. RICAFORT, DIANE C. ROMERO, DENIS G. SAZON, ANTONIO T.</p> <p>December 16</p> <p>ALANO, SHERWIN M. ALVARAN, OLIVER S. ANTONIO, MELCHOR V. BUENVENIDA, CATHLEEN A. CALATRAVA, ARIEL G. CALERA, ADONIS V. CARANTO, CHRISTOPHER ACE D. JACOB, EXEQUIL C. ULBATA, CHRISTOPHER D. MODILLAS, SHERELLE B.</p> <p>December 17</p> <p>ALOTA, JOMAR G. GIRAY, RAYMUNDO J. MAGADIA, ROLANDO R. MARQUEZ, PAUL RYAN S. PAJARILLAGA, FREDERICK C. SERENADO, BEN HUR A.</p> <p>December 18</p> <p>ICO, RODOLFO B. LAVARIAS, AMADEO A. MALINAO, NESTOR Jr. C. RAMILE, GEORGE Jr. L. REODIQUE, MARIA VICTORIA C. SEE, ANDREI NOEL A. TARONGOY, RENE B. ZUÑIGA, JARAMIE S.</p> <p>December 19</p> <p>AGANON, NELSON F. ALMERO, NEMESIO DANTE P. CANTOS, LEONEL A. CUNANAN, JAY L.</p>
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PICE QATAR ACTIVITIES

PICE Q Donates to Toy Library

Alfonso Belito Betita

Philippine Institute of Civil Engineers – Qatar Chapter (PICE-Q) through its Committee on PICE Qatar Affairs (COPA) headed by Engr. Emilio Manalo donates two kits worth PHP 10,000.00 to the Toy Library for kindergarten students of Dulong Bayan Elementary School, San Mateo, Rizal, Philippines.

The proponent of the four room toy library is the Dona Aurora High School Batch 80 represented by one of our very own, Engr. Ric Silvestre – a former member of the PICE-Q Board of Directors.

In his facebook message on December 9, 2017, Engr. Silvestre thank PICE-Q and other donors including ASEP RCC Qatar, CSGER Construction, Engr. Alden P. Cayaga – PICE-Q’s 2nd VP, and other personalities for making the project a reality.



A joint pose of the teachers, pupils and PICE Qatar representative, Engr. Ric Silvestre (front—1st right)

(Photos taken by the Elementary School Staff)



The toys donated for kindergarten students of Dulong Bayan Elementary School, San Mateo, Rizal, Philippines

(Photos taken by the Elementary School Staff)

PICE Qatar Conducts Seminar on Estimation and Cost Control

Alfonso Belito Betita

PICE Qatar’s Seminar on Estimation and Cost Control through Engr. Delfino De Leon held last December 15, 2017 is a “blockbuster” with seventy nine (79) attendees including some of the organization’s Board of Directors. This is a PRC-accredited seminar designed for Continuing Professional Development (CPD).

The seminar introduces the different Estimating Methods and processes from Project Review to Cash Flow Projections and Budgeting for a construction project. In addition, the course highlights the importance of controlling costs and how to monitor project cash flow. The course will also tackle the Estimating Team structure and an overview of Forms of Contract.

This is the first time in as many years that PICE Qatar hosted this type of seminar and with a well-able veteran professional civil engineer cum contract manager as a resource speaker in the person of our very own Past President, Engr. De Leon.

Engr. De Leon is a 30 year veteran in the field of Civil Engineering wherein 12 year professional stint in Qatar. He is responsible in carrying out structural design, estimates, quantity surveying, cost control, contract administration and project management duties on a wide range of projects. He has excellent analytical skill and can identify discrepancies to make sure that their accuracies are verified. He is also an excellent speaker being and active member of Toastmasters International and former president of PICE Toastmaster’s Club.

Meanwhile, a similarly PRC accredited seminar on “Physical Object-Based Modelling and Design of Building Structures” using Design Software, Etabs, was also held on December 1, 8 and 22 with Engr. Alfredo M. Pagulayan.

PICE Qatar announced its scheduled seminar and other activities through their yahoo group e-mails where active members can easily access it and register. (Photos on page 10)

Two out of Five PICE Qatar Members Civil Engineers attends ACPE Conferment

Emmanuel German Boceta

Engr. Newcesar T. Templonuevo, and Engr. Helario S. Amoguis were among the 26 ASEAN Chartered Professional Engineers who were conferred and awarded Certificate of Registration in ACPE, ACPE ID and ACPE Pin on December 1, 2017 at AG New World Manila Bay Hotel, Pedro Gil cor. M.H. Del Pilar St. Manila, Philippines

Hon. Teofilo S. Pilando, Chairman Professional Regulation Commission (PRC), Hon. Patricia B. Licuanan, Chairperson Commission on Higher Education (CHED), and Engr. Federico A. Monsada, President Philippine Technological Council (PTC) were the Guest Speakers of the event.



Newcesar Templonuevo (standing rear—1st left) and Helario Amoguis (standing rear—1st right) joins the group photo of the conferment attendees

Photo courtesy of the event organiser



ASEAN
Chartered Professional Engineering
Coordinating Committee