

Group counselling for distressed OFWs carried-out



PICE-Qatar BODs and Past Presidents together with POLO-OWWA Officials posed with the distressed OFWs

Editors ...

but each and every engineering professions such as mechanical, electrical, etc.

* * *

The Philippine Institute of Civil Engineers (PICE) is vigorously campaigning against this bill both at the national and international level. An awareness campaign was also launched at facebook dubbed as "Justice for Engineers" which as of March 27, 2015 has garnered 95,000 hits and 4500 likes. We call on all Civil Engineers for support. Visit the page and get informed about this issue.

* * *

Just as I said in the beginning of this article, Architects and Engineers are brothers in profession. We can live together and breath the same air in the professional world where we all thrive.

* * *

The proof of our closeness with Architects? Well most of my

"barkadas" in college are Architects. We are friends still....no offense intended.

There are several of us, Civil Engineers who are married to Architects as well...an excellent proof that we can co-exist! So why put a divide to a harmonious relationship that has been proven through the years?

* * *

No to SB 2623 and HB 5127!!!! This is the cry of the Civil Engineering Community. **Add your voices to this call and Let the whole country hear our cry.**

* * *

In the PICE-Qatar "local" scene, the organization is continuously expanding and improving non-stop with lots of worthwhile educational and training activities being extended to its members. And this is only the first quarter of 2015.

Thanks to Engr. Ronald Nilo and the rest of the tireless BODs and Past Presidents. May your tribe increase.

The annual Outreach Program by PICE-Qatar has been upgraded as a monthly event being carried-out every third (3rd) Thursday which started in the month of February 2015. This was revealed to "The Tektōn" by Engr. Mark Anthony P. Abendan, COPA Chairperson. As the movement of Overseas Filipino Workers is increasing every year, holding the outreach activity every month other than yearly will allow more chances to our less fortunate "kababayans" to be included in the counselling and help being extended by the organization.

The monthly counselling activity held last March 19, 2015 was participated in by the BODs and the Past Presidents of PICE-Qatar as well as active members who took turns in providing pieces of advice, inspirational talks and small things that can be of great value to the distressed OFWs.

The PICE-Qatar COPA headed by Engr. Abendan is also issuing a call to the general membership to participate and share in this noble undertaking. He added that this is an opportunity for each member to show their humane side, inspire others and help in providing the much needed assistance to our compatriots who were not as lucky as most of us.

Engineering Terms To Ponder

By: Engr. Emilio M. Manalo

Geotechnical Engineering—A branch of Civil Engineering concerned with the engineering behavior of earth materials.

Total Unit Weight of Soil—A cumulative weight of solid particles, water and air in the material per unit volume.

Porosity — Ratio of the volume of voids in a soil to the total volume of the soil.

Void Ratio — Is that ratio of the volume of voids to the volume of solid particles in a soil.

Permeability— A measure of the ability of water to flow through the soil.



PICE-Qatar holds two seminars in March



PICE-Qatar members—attendees posed with Professor Arnold Dix during the seminar on "Rail Tunnels—an introduction to construction and operational fire and life safety issues" held at Oryx Rotana Hotel, Doha, Qatar.

PICE-Qatar has achieved a remarkable feat of conducting two separate seminars in one month with foreign experts as resource speakers. This was attained in the month of March 2015 when PICE—Qatar held the seminar billed as "Rail Tunnels—an introduction to construction and operational fire and life

safety issues" with Professor Arnold Dix, an Australian Scientist, Lawyer and Engineering Professor providing lectures and the seminar on "Site Inspection and Defects Management" with Mr. Samer Ghanem as Resource Speaker. The seminars were held on March 13 and 27, 2015

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PICE-Qatar represented in first QTS meeting



Engr. Ronald Nilo, PICE-Qatar President, Engr. Jeffrey Cimagala and Engr. Juvenal Paulino Verano at the QTS Meeting at Intercontinental Hotel in Doha, Qatar on March 16, 2015.

The PICE-Qatar Chapter was represented by Engineer Ronaldo B. Nilo, Engr. Jeffrey P. Cimagala, Engr. Juvenal Paulino M. Verano and Engr. Alfonso Belito C. Betita in the first Qatar Tunneling Society (QTS) Meeting held at Intercontinental Hotel in Doha, State of Qatar last March 16, 2015. This is upon the invitation extended to the organization by Professor Arnold Dix.

This is the first meeting held by QTS—a technical group which

Civil Engineers joined "Pasasalamat kay Amba"

PICE-Qatar joined the Philippine Professional Organization, United Filipino Organizations in Qatar (UFOQ) and the rest of the Filipino community in honoring the outgoing Philippine Ambassador to Qatar, His Excellency Crescente R. Relacion. He was feted with memento as a gesture of appreciation by the Overseas Filipino Workers and their families in a program held on March 6, 2015 at the Philippine International School Qatar (PISQ) grounds, for his exemplary and outstanding performance during his term as Ambassador to the State of Qatar. He is a familiar face in every

(continue on page 13)



His Excellency Ambassador Crescente R. Relacion (right) was honored during the lunch initiated by UFOQ last March 6, 2015.

to-date is in the process of formalizing itself in accordance with the laws of the State of Qatar.

It also seeks to enhance tunneling awareness by pooling and encouraging future members to discuss and share their tunneling experiences.

The group which is composed of individuals interested in tunneling seeks to align itself with the International Tunneling Association thru

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EDITORIAL

SB 2623 & HB 5127: An injustice to Engineering Professions



The Philippine Institute of Civil Engineers (PICE) is voicing out its opposition to the Senate Bill 2623 and House Bill 5127 both entitled “An Act to strengthen the Architecture Profession, amending for the purpose certain provisions of Republic Act 9266”.

The mentioned bills may strengthen the Architecture Profession as the title suggests but on the contrary, it seeks to weaken and emasculate the Engineering Profession. It actually deprives the general engineering practitioners of their rights to practice their professions and threatens their “bread and butter” in the process.

To make matters worst, the House Committee on Civil Service and Professional Regulation did not invite engineer representative during the hearing and so HB 5127 was approved in the committee level without the presence and participation of engineering representatives that includes Philippine Institute of Civil Engineers - the only professional organization of licensed and registered civil engineers accredited by the Professional Regulation Commission (PRC), or the Professional Regulatory Board for Civil Engineers


(PRB-CE). Lack of proper consultations would make the prospective law unconstitutional.

The situation pointed out the facts that the authors of these bills have failed to recognize the well-being of the 137,000 practicing Filipino professional Civil Engineers, not counting the other engineering disciplines and their families who are enormous contributors to the economy and development of the nation.

Currently, several legal measures are being adopted in the national level by the Philippine Institute of Civil Engineers. This includes awareness campaign about Senate Bill 2623 and House Bill 5127 and its effect on the exercise of our professional rights.

While several PICE local Chapters have expressed their opposition to the mentioned bills through protest motorcades and dialogue with district representatives, PICE International Chapters have also started a signature drive to voice out its opposition to the said bills.

PICE-Qatar is expecting the full support of its constituents including their families.



The

Tektōn

OFFICIAL NEWSLETTER OF THE PHILIPPINE INSTITUTE OF CIVIL ENGINEERS-QATAR CHAPTER

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EDITOR'S CUT

By: Engr. Alfonso Belito C. Betita

The Civil Engineering and the Architecture are two inseparable professions. Their cooperation since time immemorial has resulted to unparalleled success in modern architecture and engineering projects. Engineering and Architecture are brothers in profession.

In the Philippines however, this relationship is being tested with controversial professional and political issues, the latest being the Senate Bill 2623 and House Bill 5127—both sponsored if not written by persons who may have no Architecture or Engineering background or experience at all.

* * *

Just as brothers have their separate personal properties even if living in the same house, both Architecture and Engineering have their separate territories even if existing in the same construction community that is divided by thin line boundaries called professional “discipline”. However, this separation should not hinder each discipline from having peaceful co-existence and collaboration.

* * *

SB 2623 and HB 5127 empowers the Architectural Profession at the expense of the engineering professions. If it becomes law, not only will it affect the civil engineers

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PICE-Qatar holds ...

respectively at Oryx Rotana Hotel in Doha, Qatar.

During the March 13 seminar on “Rail Tunnels—an introduction to construction and operational fire and life safety issues”, Professor Dix discussed the different aspects of Tunnel Safety and legal responsibilities of the engineers involved in the designing of the Rail Tunnels. Aided by slides, Professor Dix began his lectures by showing accidents that transpired involving different rail tunnels all over the world. He also extended an invitation to interested PICE-Qatar members to participate in the first technical meeting of the newly established Qatar Tunneling Society held on March 16, 2015 at Intercontinental Hotel in Doha, Qatar.

On the other hand, the seminar on “Site Inspection and Defects Management” conducted by Mr. Samer Ghanem has attracted forty seven civil engineers - participants. This seminar was aimed at providing insights and education on the software based inspection, snagging, recording and reporting system. He also discussed the benefits of the electronic system over the conventional and manual mode of site inspection.

Mr. Samer Ghanem is a graduate of Bachelor of Science from the American University of Beirut. He currently manages several construction project accounts for Snag-R in the region, such as Sidra Hospital (QF), The Pearl Qatar, NDIA, and clients such Parsons, Alec, Atkins AND Bouygues construction.

PICE-Qatar represented ...

Prof. Arnold Dix who is a committee chairman in the International Tunneling Association (ITA).

The meeting was highlighted by presentation of Engr. Al Kowski on the attributes of the ongoing Qatar Rail Project. He also talked about the challenges of handling bulk excavated materials and how to deal with the disposal and the traffic problems associated with its handling.

Professor Dix in his presentation talked about issues on Tunnel Disasters and corresponding legal litigations and insurance claims.

QTS is open to all parties and individuals with interest in tunneling. To express your interest, you may e-mail them at info@qts-qa.com.

Birthday Celebrant ...

- DUMANGAS, MARIO Jr. I.

LAGONSON, JOEL C.

UY, FERDINAND D.

VILLAR, SHERWIN JOAN T.

April 18

GILLEGIO, REUEL G.

GUANZON, BENEDICT B.

PAGCU, ARNEL D.

PASIBE, ROMEO O.

PEREZ, DANILO I.

SANVICTORES, RAMSES C.

TALDE, PETER ANTHONY H.

April 19

BASBAS, EMMANUEL C.

CONDE, PAUL A.

MAGHARI, WENIE C.

PEREZ, MICHAEL BENJAMIN S.

April 20

ACOSTA, MARIBEL P.

ARAMI, ASAY M.

BANGGAY, MELUJEAN E.

BELARMA, MA. VICTORIA

CABALLERO, HOLDEN C.

GERALDINO, ROLLIE Jr. I.

TOMAS, ERNESTO Jr. G.

April 21

BALASE, HENRY Jr. L.

SAPANGHARI, ARNIEL

SERIOS, BROMEO A.

TABLIZO, CYR L.

April 22

BAY, RAMONCITO V.

CUNANAN, ARWIN G.

April 23

- MANUEL, FRANCISCO G.

PASCUA, CHRISTOPHER L.

PENDALIDAY, ABUHALIL N.

PERALTA, PAUL E.

QUISORA, JAE P.

VILLARIN, JUNELITO S.

April 24

LIBRANDO, JAMES ALVIN T.

MASTURA, DATUMANDA Q.

MERCADO, TERENCE C.

RIVERA, ROI ANTHONY Q.

TEMLADOR, JOEMAR A.

April 25

ALI, MUAMMAR Z.

BOBADILLA, ENRIQUE M.

CORPORAL, RENEE A.

EUGENIO, JEFFERSON M.

GENERAL, ARNEL C.

April 26

GARCIA, ALEXANDER D.

MAGNO, MARCEL L.

MAY-AS, LOURGEN C.

OLAER, RAMON A.

TABUJARA, JOVEN Y.

VERANO, DICK C.

April 27

ARADA, MELCHOR M.

FABELLA, ROGELIO A.

OSHA, HEINTJE C.

PELAYO, ROMER Q.

VARGAS, MARK FRANCIS M.

April 28

CLAUDIO, APRILENE A.

NEGADO, EUSEBIO Jr. A.

RECUELO, JULIE ANN S.

April 29

- CARPO, LEOPOLDO V.

MEDINA, ROBERT P.

NEVADO, ROLAN E.

PELAYO, JO-DAN S.

SARMIENTO, LEILA D.

April 30

FANLO, EDEN F.

MANGUINAO, NORMAN F.

PADON, PETER S.

PARAGAS, SHEILA ANN

ROSALES, MARIA CECILIA M.

TUGANO, HENRY M.
- Happy Birthday to someone who deserves a truly happy day.

Hope you have the greatest Birthday ever!

HAPPY BIRTHDAY!

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. Again, Happy Birthday!

For errors and corrections relating to the facts above, kindly address your concern to:

BELINDA E. DELA CRUZ

Chairperson
Committee on Membership
PICE - Qatar Chapter

Sporting Events

PICE-Qatar Chapter Inter-Color Basketball

PICE-Qatar jumpstarted the annual



The ladies of the PICE-Qatar Chapter Inter-Color Basketball League showing their colors during the opening ceremonies.

Inter-Color Basketball League at the Al Wakra Secondary School for Boys' Gymnasium, Al Wakra, State of Qatar last March 6 2015, 7:00 AM. The affair was graced by the PICE-Qatar BODs and Past Presidents.

In the opening ceremonies, the six (6) competing teams (red, blue, yellow, maroon, white and black) paraded their beautiful muses and colorful uniforms before the crowd as they bid to win the coveted best muse and best in uniform awards.

Blue team clobbers Maroon 79-53, takes the lead



The Blue Team kept their unblemished record intact by thrashing the Maroon team 79-53 in the fourth day of the PICE-Qatar Chapter Inter-Color Basketball Tourney on March 27, 2015.

The Board of Judges made up of past PICE-Qatar Presidents was tasked to select the winners. After the lengthy evaluation, Ms. Jochelle May Duterte Monteverde of the Blue Team won the Best Muse award while the Red Team got the nod for the Best Uniform award.

The awarding ceremony was immediately followed by the opening match where we have witnessed the Maroon Team overpowering the undermanned Yellow team.

As of this writing and after four (4) days of competition, the team standing is as follows:

PICE-Qatar INTER-COLOR BASKETBALL LEAGUE				
TEAM STANDING				
SN	Team	Win	Loss	
1	Blue	4	0	
2	Black	2	2	
3	Maroon	2	2	
4	Red	2	2	
5	White	2	2	
6	Yellow	0	4	

Banking on The duo of Holden Caballero and Jericho Malabiga who finished with a combined 36 baskets, the Blue team held the Maroons at bay with fast offensives and tight defensive maneuvers.

The scores are:

Blue team: 79

Caballero-21, Malabiga-15, Talde-11, Serrano-6, Leakim-5, Barba-4, Reyes-4, Militante-4, Lamela-3, Locanas-2, Gujilde-2, Patricio—2.

Maroon Team: 53

Espino-15, Sarabia-14, Martinez-8, Diaz-8, Temblador-5, Espina-3

In earlier game, the Red Team outpointed the Black, 68-62 while the White Team crushed the Yellow, 75-66.

Basketball in Action

By: Engr. Alfonso Belito C. Belita



President's Corner



My Dear Fellow Members:

We, as Civil Engineers, are up for a major challenge.

As you may be aware of by now, House Bill No. 5127 was introduced in the House of Representatives by Rep. Susan A. Yap and Rep. Gary C. Alejano on 22 October 2014. Following HB 5127, Senate Bill No. 2623 was introduced by Senator Antonio F. Trillanes IV on 02 February 2015. Once the bill is approved by both House of Representatives and Senate, it will be transmitted to the President of the Philippines for signature. The President may either sign the bill to indicate approval or veto the bill to indicate disapproval. If he chooses to sign, then the bill officially becomes a law.

What does it mean to us Civil Engineers if this bill becomes a law? Let us spend some time analyzing the bills filed by Rep. Susan Yap, Rep. Gary Alejano and Senator Antonio Trillanes IV. The bills are entitled "An act to strengthen the architecture profession, **amending for the purpose certain provisions of Republic Act No. 9266**, otherwise known as the Architecture Act of 2004". In addition to the amended

"Section 43. Act Not Affecting Other Professionals

R.A. No. 9266 shall not be construed to affect or prevent the practice of any other legally recognized profession."

The above provision gives other professionals equal protection of the law. However, HB5127/SB2623 seeks to repeal the above provision.

provisions, a repealing clause was also introduced in Section 6 of HB 5127 and Section 5 of SB 2623 stating "SEC. 43 of Republic Act 9266 is hereby repealed. All laws, decrees, executive orders, agreements, rules and regulations or parts thereof inconsistent with the provisions of this Act are hereby repealed or modified accordingly."

Interestingly, Section 43 of Republic Act No. 9266 states that "R.A. No. 9266 shall not be construed to affect or prevent the practice of any other legally recognized profession." By repealing this section, we Civil Engineers (or other professionals) will lose our right to equal protection of the law and will now be prevented to practice our legally recognized profession? The repealing clause further states that all laws (including Republic Act No. 544 otherwise known as Civil Engineering Law) or parts thereof inconsistent with the provisions of R.A. 9266 are hereby repealed or modified accordingly. In effect, R.A. 544 will be repealed or modified accordingly to suit the requirements of the Architectural Law. Practically, any other laws will now be at the mercy of the architectural law in that they can modify RA 9266 as they want and anything that contradicts with it will be repealed or modified accordingly. This is where we see a clear injustice to us civil engineers. While the Act

purports to strengthen the architecture profession, in reality, it deprives the rights of civil engineers to practice their legally recognized profession rightfully accorded to them since June 1950

by virtue of Republic Act No. 544.

I appeal to you my dear fellow members. Let us join hands in opposing this act of injustice to our profession. PICE-National already passed a Board Resolution vehemently opposing House Bill No. 5127. Let us support this move by participating in the signature campaign which has been launched by our organization. We will send copies of our signature of opposition to HB 5127 and SB 2623 to PICE-National, House of Representatives and Senate. Please let the voices of the more than 137,000 civil engineers plus their families be heard in the 16th Congress of the Philippines!

SAY NO TO HB5127 & SB2623!

Always proud to be a member,

Ronald Nilo

PICE-QATAR AT A GLANCE AS OF 31 MARCH 2015	
New members in 2015	137
Total members to date	2157
Reactivated members in 2015 (inactive for 5 years or more)	32
LM applicants	11
Specialist applicants	3
ACPER applicants (pending technical panel interview)	7
APEC Engineer applicants	1
ASEAN Engineer applicants	2
SPLBE reviewees	88
Seminars	4
Seminar attendance	231
Weekly meet-up attendance (every Wednesday at FCC)	375
Outreach Program	2

Feature Section

Letter of Intent – A Common Cause of Dispute

By: Asuncion V. Lopez

Would you mobilize in a project with a simple Letter of Intent?

Most of the time, due to commercial urgency, initiating a work before the agreement and execution of the Contract is a common situation in the construction industry, which often creates a major problem. Just like in sports, the rules have to be set first before the game starts.

However, if this cannot be avoided, it is important to have a written agreement on common issues such as insurance coverage, liability (including indemnification), termination procedures, damages, delays, claims, change order procedures, allocation of risks and responsibilities, warranties, fees and payment procedures (including proper invoicing, retention, timing, schedule of values), dispute resolution mechanisms, risk of loss, and scheduling.

The Contractor has no guarantee if he will be paid for the work that he has done and if he will be compensated, will it be based on the contract rates on his bid or on quantum merit.

In various cases it was held that when a work is conducted by the contractor but no formal agreement is made then the contractor can be provided with the payment for the work done on the basis of quantum merit.

A Letter of Intent (LOI) is a document expressing the intention of the parties to enter a contract at a future date.

In *British Steel Corporation vs. Cleveland Bridge & Engineering Co Ltd*, it was held that a letter of intent can be considered as a contract and the same varies as

per the circumstances of every individual case. While in a leading case of *Apco Amusement Company, Inc. vs. Wilkins Family Restaurants of America, Inc.*, it was held that a letter can be regarded as a contract.

However, in a leading case of *Kleinwort Benson v. Birmingham City Council*, it was held that when no intention is realized as per the circumstances of the case, then the letter is not regarded as a binding contract.

In order to enable the works to commence ahead of the formal signature of the building contract and to safeguard the employer's interest, a Letter of Intent may be issued to the Contractor with the following considerations to avoid leading it to disputes later:

The LOI must clearly identify the scope of works as described in the tender documents.

The issues that need to be resolved prior to entering the contract shall be clearly identified such as insurance coverage, liability (including indemnification), termination procedures, damages, delays, claims, change order procedures, allocation of risks and responsibilities, warranties, fees and payment procedures (including proper invoicing, retention, timing, schedule of values), dispute resolution mechanisms, risk of loss, and scheduling.

Following the above list of issues that needs to be resolved, the LOI shall make it clear that once these matters are agreed it is the intention of both parties that they will be contained in a formal written contract and LOI is intended only as an interim agreement pending the negotiation of the main contract and that neither party intends to be bound by the main contract until the written document is executed by both parties.

Make a provision in the LOI stating

that the Client promises to pay the Contractor's reasonably incurred expenditure up to a maximum limit of amount. In the event that the Client should not conclude a contract with the Contractor, the Contractor's entitlement will be limited to the proven cost incurred in accordance with the authority given by the LOI.

The LOI must state that the contractor is not entitled to any further payment by way of quantum merit or other else to prevent a parallel claim in respect of reasonable remuneration for goods supplied or services rendered in addition to the amount in the Letter of Intent and to avoid a double recovery by the Contractor.

The LOI has to make it clear that once the intended contract is concluded it will apply retrospectively, and that any payments made under the LOI will be treated as payments against obligations under the main contract once this comes into force.

In the case that the parties fail to execute the final contract, the LOI should contain the agreement on how to compensate the Contractor.

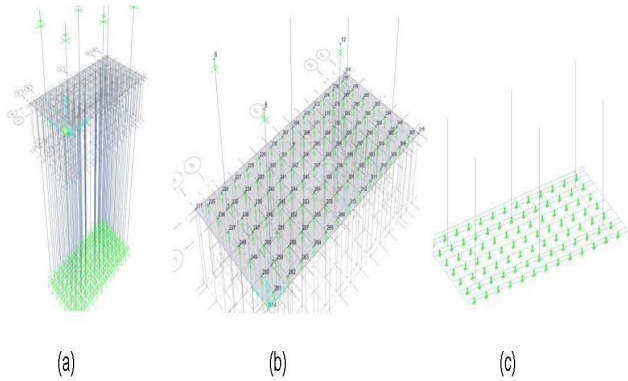
The sum to be quoted in the LOI must be clear whether it is inclusive or exclusive of VAT to avoid dispute on this matter.

The authority given in the Letter of Intent shall last for a limited period only, say around 10 to 12 weeks, which is the Client's estimated time of conclusion of the contract documents. The contractual relationship has to be legally formalized before the expiration of the LOI. The parties should always be reminded that LOI must not be taken as a substitute to a properly drafted and signed contract.

(continue on page 12)

The engineers ...

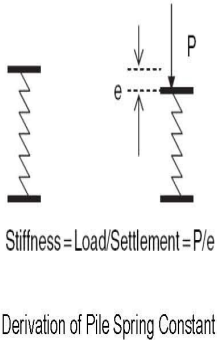
Support Conditions



a. SAFE Model showing piles modelled with proper stiffness; b. SAFE Model showing piles modelled as spring stiffness; and c. STAAD Model showing piles as spring stiffness

Procedures for Modelling the Piles as Spring Constant

As mentioned above, this method is based on the relationship between the maximum allowable axial stress and maximum allowable settlement for any given pile (usually given by the Geotechnical Engineer). BS Code¹ states that, the average compressive stress of piles under working load should not exceed 25% of the specified works cube strength at 28days. For the estimated settlement, an equivalent to 1 percent of the pile diameter will be used. Hence, the stiffness of the pile shall be calculated as follows:



$$k_y = \frac{f_c A_p}{\Delta_{all}} = \frac{0.25 f_{cu} \frac{\pi}{4} d_p^2}{\frac{1}{100} d_p} = 19.63 f_{cu} d_p \text{ [Eq 1]}$$

In the foregoing example, the following spring stiffness has been used:

$$k_y = 19.63 f_{cu} d_p = 19.63(30)(300) = 176,670 \frac{N}{mm}$$

¹BS 8004:1986 Code of Practice for Foundations; ²CSI SAFE for Slab Analysis; ³STAAD ProV8i

Results

TABLE: SAFE ² Maximum Nodal Reactions for Pile with Stiffness									
Node	Point	OutputCase	CaseType	Fx	Fy	Fz	Mx	My	Mz
Text	Text	Text	Text	kN	kN	kN	kN-m	kN-m	kN-m
19	19	ULS	Combination	-0.192	0.016	496.315	-0.0819	-0.9618	-0.00001587
27	27	ULS	Combination	-0.192	-0.016	496.315	0.0819	-0.9618	0.00001587
203	203	ULS	Combination	0.192	0.016	496.315	-0.0819	0.9618	0.00001587
219	219	ULS	Combination	0.192	-0.016	496.315	0.0819	0.9618	-0.00001587

TABLE: SAFE Maximum Nodal Reactions Pile Modelled as Spring									
Node	Point	OutputCase	CaseType	Fx	Fy	Fz	Mx	My	Mz
Text	Text	Text	Text	kN	kN	kN	kN-m	kN-m	kN-m
236	236	ULS	Combination	0	0	480.837	0	0	0
260	260	ULS	Combination	0	0	480.837	0	0	0
279	279	ULS	Combination	0	0	480.837	0	0	0
306	306	ULS	Combination	0	0	480.837	0	0	0

TABLE: STAAD ³ Maximum Nodal Reactions for Pile Modelled as Spring							
Node	LIC	Force-X kN	Force-Y kN	Force-Z kN	Moment-X kNm	Moment-Y kNm	Moment-Z kNm
35	7	0	487.131	0	0	0	0
48	7	0	487.131	0	0	0	0
99	7	0	487.174	0	0	0	0
112	7	0	487.174	0	0	0	0

TABLE: STAAD Maximum Deformation of Piles Modelled as Spring							
Node	LIC	X-Trans mm	Y-Trans mm	Z-Trans mm	Absolute mm	X-Rotan rad	Y-Rotan rad
35	6	0	-1.822	0	1.822	0	0
48	6	0	-1.822	0	1.822	0	0
99	6	0	-1.822	0	1.822	0	0
112	6	0	-1.822	0	1.822	0	0

Conclusion: From the above results, a difference of 3.10% can be considered acceptable. Hence, it can be inferred that modelling the piles as spring supports may be used in lieu of modelling the actual stiffness. This will enable the analysis of the superstructure faster. For complicated structures, this will also be beneficial for faster modelling. In addition, the settlements of the springs correlate well with the assumption (less than 1% of diameter).

Disclaimer: This article is intended for reference only. Engineer is advised to consult other references.

Civil Engineers...

PICE-Qatar's General Assembly, Oath-taking and other important events during the past six (6) years – a show of strong support to the activities of PICE-Qatar signified by the award of Certificate of Recognition to PICE-Qatar as a registered Filipino Professional Organization under the Philippine Embassy on March 12, 2010.

His Excellency Crescente R. Relacion, is an Ambassador Extraordinary and Plenipotentiary - a diplomatic official of the highest rank, sent by the Philippine Government to the State of Qatar as its resident representative who served from August 2009 to March 31, 2015. He is a Certified Public Accountant and Lawyer by profession who was confirmed by the Commission of Appointments

as Chief of Mission II in 2014.

His end of tenure as Ambassador to the State of Qatar is a great loss to the Filipino community considering his honest and exemplary performance as Ambassador which resulted to greater unification of different organizations, worthwhile programs and advocacy of transparency in Foreign Service.

The Quality ...

or ineffectively implemented.

Should the employees be blamed for this? Absolutely not, but oftentimes they are mistakenly castigated for the absence of it. Some even lost their job for this reason.

Who is the culprit then? I wish I could point my finger at the quality management system but I just cannot, for it is just a mere tool that provides a good outcome when used correctly; or bad, if absent or ineffective.

Frankly, the main culprits are the people responsible for its creation. Guess who are they? They are the ones who sit at the top of organizational hierarchy-Top Management.

As the leader of the organization, their job is to establish, develop, implement, monitor, control and improve a quality management system as the means to achieve organizational goals. For the system to work successfully, top management must demonstrate commitment by determining the necessary processes, providing appropriate work procedures, standards, organizational practices, resources (Yes, the system needs employees to run it), tools and

equipment, trainings, and other things that help build the system. Not only that; they must also clearly define responsibilities and authority of the employees then communicate it using the corporate language throughout the organization (That is one way of solving QA-QC function confusion). How many times did we go through a lot of conflicts and arguments due to overlapping responsibilities and authorities?

Unfortunately, most of them up there expect employees to act the way they think employees should act without providing the means to do things the way they want it done. When something goes wrong, they are quick to yell: "You are supposed to do this or do that!"

What I am trying to point out here is; First Thing First. Put the system in place first; make it operational and known to everyone. After that, you have all the right to penalize those who deliberately ignored it. Without a guide on running the business effectively, definitely, one spends all his time solving problems that never cease. That is dealing with crisis instead. How come big bosses cannot see this logic?

To keep everyone on the same page, top management must share organizational goals and should

lead by example in realizing the quality management system through coaching employees how should it be done and explain the benefits of it. Aside from that, what works and does not work for the employees must be identified so that necessary actions can be made.

Knowing your responsibility is a right thing to do but it's always good to know what to expect from the top management. So check out your boss' job description. It is now your turn to evaluate their performance.

There you go folks; top management is responsible for creating the quality management system, not you. Does this mean that it is not your concern? Not so fast! Your job as an employee is to abide with the system and contribute to its improvement. After all, collective effort is necessary to achieve the organizational goals.

I mentioned quality management system a lot of times. I think it is a good idea to know more about it in the next issue.

Mark Lepiten is a practicing quality professional who champions quality initiatives. He is a registered Civil Engineer, a Project Management Professional (PMP) and a certified Manager of Quality/Organizational Excellence (CMQ/OE). He can be reached through qualityaficionado@yahoo.com.

Letter of Intent...

However, if before this date, the contract is still not finalized, an agreed extension of the Letter of Intent shall be issued in writing.

Be sure that the LOI has been signed by both parties.

With the above long list of items that needs consideration in drafting the Letter of Intent to become

binding, the Client might argue that there may be no sufficient time to document all of these. However, it is not advisable to allow a contractor to commence work on site without a full agreement of the contractual terms.

In summary, in order for the Letter of Intent to be binding until the main contract is executed, the following criteria must be met:

Certainty as to key terms

There must be consideration

Both parties must have a mutual intention to enter into a binding legal contract

A great care must be taken into consideration to ensure that the LOI contains all the necessary terms agreed between the two parties to adequately reflect the true intentions of the parties. In this way the Letter of Intent leading to a dispute could be avoided.

PICE Toastmasters ...

TM Sheila was unanimously declared by the distinguished and experienced Judges to represent Area 52 to the Division Q Contest –

CommuniQ on the 24th of April 2015 at Radisson Blu Hotel. Come let's cheer in unison with our Engineers.

What are you waiting for ENGINEERS? Be a Toastmaster now!

"Seminar on Construction Insurance, Bonds, Procurement & Tendering"

RESOURCE SPEAKER: Rimmond Nojadera, BScCE, MPICQS, MRICS

April 10, 2015, Friday

Oryx Rotana Hotel - Doha, Qatar

Feature Section

HIGH PERFORMANCE BUILDINGS

DESIGNING BEYOND CODE – Part 1

By: Juvenal Paulino M. Verano¹

ABSTRACT

Disaster after disasters building designers have been reminded that design of building must be carried out holistically beyond code requirements and outside common practice. This paper explains what a high performance building is and the key concepts of high performance design. Resiliency and its role in achieving high performance design are discussed. The challenges of today's buildings designers against the very demanding performance requirements of building design, including suggestions for the design process are also discussed.

Key words: service life, sustainability, high performance, life-cycle, resiliency

INTRODUCTION

Over the last decade building designers have been pushed to design buildings based on new and more stringent codes. Another challenge for designers today is the concept of high performance buildings – designing beyond code requirements but it doesn't necessarily mean a conservative design. High performance buildings are more than just sustainable buildings, they are defined as buildings that integrate and optimize all relevant high performance attributes on a life-cycle basis. **The high performance concept includes, but surpasses the goals and attributes of sustainability.** A key component of this definition is a challenge to optimize ALL relevant attributes for a given project. This moves us towards better analysis of the interaction of different materials and systems. It challenges designers to find the sometimes overlooked value in design decisions.

High performance building designs are becoming essential to meet new code requirements, as well as the

expectations of funding entities, owners, and developers. State-of-the-art building designs require high performance building materials and building systems (e.g. structural and services). High performance materials must be efficient and versatile in use and in operation, as well as durable, resilient, and capable of protecting buildings and building occupants from weather extremes, natural and man-made hazards, and environmental concerns.

LONG-TERM SERVICE LIFE

Service life refers to the period of time in which a structure can exist and function with only routine maintenance. While it is noteworthy today that often the functional life of a structure expires long before its service life, one goal of sustainably is to maximize the service life of what is built.

A main contributor to service life is the durability of the materials used in a structure.

Durability refers to a material's ability to last and perform in a given routine environment. Understanding materials inherent durability and how

materials will interact in systems is important to creating a durable structure. For example, concrete is a very durable material by nature. It is inherently a very durable material and can be designed for a service life of 100 or more years.

"High performance buildings are more than just sustainable buildings, they are defined as buildings that integrate and optimize all relevant high performance attributes on a life-cycle basis."

RESILIENCY

A newer concept that is gaining traction in the built environment is resiliency.

Resiliency is different from durability in the sense that it refers to the extreme, not routine, natural and man-made environmental events that a structure may be subjected to.

These include natural events such as earthquakes, typhoons, extreme storms, and man-made events, such as explosions and terrorist attacks. – **To be continued in the next Tekton issue**

¹ Principal Structural Engineer – Ramboll Middle East
CPEng, MASCE, MIPENZ, MASEP

Birthday Celebrants

PICE-Qatar Family would like to express our warmest greetings to the following, who are celebrating their Birthdays this month of **APRIL!!!**

APRIL

- * Active and dynamic
- * Decisive and hateful but tends to regret
- * Attractive and affectionate to oneself
- * Strong mentality
- * Loves attention
- * Diplomatic
- * Consoling
- * Friendly and solves people's problems
- * Brave and fearless
- * Adventurous
- * Loving and caring
- * Suave and generous
- * Emotional
- * Revengeful
- * Aggressive
- * Hasty
- * Good memory
- * Moving
- * Motivate oneself and the others
- * Sickness usually of the head and chest
- * Easily get too jealous

Birthdays are filled with yesterday's memories, today's joys, and tomorrow's dreams.

Your birthday is the first day of another 365-day journey. Be the shining thread in the beautiful tapestry of the cosmos to make this year be your best ever. Enjoy the trip!

Another year is added, but also another opportunity for growth and experience.

Let happiness reach your eyes, enthusiasm reach your smile and resilience reach the temples of your face every time you look at someone. May you pass on your love and joy to everyone around you. Wishing you the best birthday ever.

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

May this year bring with it all the success and fulfillment your heart desires.

May your special day be filled with memories and flowers, friendship and happy hours.

Don't count the years, count the blessings.

Life is great at any age so enjoy yours.

Have a wonderful day and fabulous year.

April 1

AGUSTIN, AIAN MARC B.
ESCABOSA, ELMER L.
MASAJO, MARJORIE AHLEN C.
MONTEHERMOSO, EDZEL M.
SANCHEZ, RAQUEL V.

April 2

ALBIS, MARIO T.
BOLANTE, MARA DULCE A.
CALANTAS, JULIUS Q.
CRUZ, EMIL Jr. J.
HALLARSIS, JESSE RIGOR D.
SALTIVAN, FRANCIS A.
SAMUEL, MICHELLE A.

April 3

ALCALA-CANTOR, AISA E.
DAGONOS, CHESTER L.
MANGROBANG, LANCELOT S.
MONTANTE, MARY GRACE M.
PITULAN, JUDY MAE V.
ROJAS, RODELO R.
YRABONO, URBICIO BON A.
ZOSIMA, RICARDO B.

April 4

LAGUMBAY, FIDEL B.
LOCANAS, EDWARD M.
TINSAY, ELMER B.

April 5

CALPITO, ALLAN PAUL C.
CIFRA, RUEL R.
HUBILLA, ALFREDO Jr. C.
MARANAN, GLECYCA C.
RONGCALES, JEFFREY D.
SORIAO, ALDRIN D.

April 6

ESTOLANO, GUILLER
ORONGAN, ALEXANDER
PAYRA, RYAN A.
REYES, ANTONNETTO R.

April 7

ABELLA, DONALD DICK C.
AGUILAR, LORINA B.
AGUSTIN, JUDIE B.
ALMERO, CESAR P.
CORTEZ, MICHAEL Y.

FLORA, JOSEPH T.
GUNTANG, ROGELIO T.
PILOTON, RUNOLFO M.
PRISTIN, DORIE B.

April 8

LUALHATI, JIMMY R.

April 9

BELARMINO, RENCITO R.
MAMOKO, OMAR C.
NATAD, GERALDINE O.
REYES, EDWIN MELANIO Jr. D.
SANGCOPAN, HASNOR D.

April 10

BAESA, REDAN J.
BAQUIRAN, ROY L.
PUY, ARNOLD M.
SAMUDIO, RONALDO M.

April 11

BLANCO, SALVADOR Jr. A.
DE GUZMAN, REGINA C.
GARCIA, SALVADOR Jr. L.
PINEDA, FELIPE Y.
QUEBRADO, EXCELDEO G.
TAMAYO, LARRY S.

April 12

ANTONIO, GIAN CARLO D.
BULLO, HERNANDO O.
DELA CRUZ, MARY GRACE R.
ENCARQUEZ, RYAN CHRIS C.
IGUICO, ROMEO D.
LEYCO, ROBERTO P.
PONIO, PATRICK S.
QUINTO, RONALDO M.

April 13

HIDALGO, LUIS ALBERTO S.
MANALANG, MARCELINO C.

April 14

EMPIG, DIOSCORO L.
FABIAN, GALILEO N.
GUDA, RENE P.
MASILANG, JEROME E.
SOMBILLA, ARTEMIS Jr. S.

April 15

CEBREROS, LLOYD E.
DELGADO, APRILE JOY Q.
FABAY, LEO V.
GEPITULAN, LIMUEL Y.
GUEVARRA, REYNALDO C.
KAMID, USMAN J.
MARCOS, FERDINAND B.
TENORIO, ARTURO G.

April 16

ELPEDES, ANDREW
VALDEZ, JAMES Jr. B.

April 17

ABAS, ALDWIN D.
BANTACULO, ALDRIN D.
DE CHAVEZ, RENATO S.

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BAS



CIVIL DEFENSE



FCIA



FM



LEED



eBMP Training in STI,
New Jersey, USA



Firestop Instructional Training in STI,
New Jersey, USA



FM Global Research Campus Visit
in Rhode Island, USA



FM Global Laboratory Orientation
in Rhode Island, USA



Mafrag Hospital



Cleveland Clinic Abu Dhabi



Through Penetration, MEP Penetration,
Joint Firestop Application



Joints Firestop Application



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SPLBE CORNER

PICE –QATAR ADOPTED A NEW HOME FOR SPLBE REVIEW



Engr. Jeffrey Cimagala (pictured above) serves as the lead instructor in the SPLBE. He is a CE Board Placer back in 2008 and the lone Summa Cum Laude that the University of the East ever produced to-date for BSCE with an average grade of 1.0.

SPLBE Review now at home

The on-going Special Licensure Board Examination (SPLBE) Review classes for 2015 may have finally found its home at Royale Taste Food Restaurant located at Salwa Road, beside Safari Hypermart, Doha, Qatar. This was announced by PICE President, Engr. Ronald B. Nilo.

Accordingly, the space allocated for the SPLBE Review at the said restaurant caters to the requirements of the reviewing members which is primarily centered on ample space that is conducive to learning. Moreover, the restaurant serves quality food that is vital to the nourishment of the reviewees and replenishment of the energy that they used for the rigorous review tasks.

In another development, a remedial review classes to be held every Wednesday at Filipino Cultural Center from 7:30 to 9:30 PM has started last March 11, 2015. Designed to augment the

regular review classes held every Friday, this special classes are being conducted by Engineer – Instructors from the Association of Structural Engineers of the Philippines (ASEP) – Qatar Regional Committee headed by its Chairman and PICE-Qatar Chapter 1st Vice President, Engr. Gilbert Lorenzano.

Aimed at the development of the general civil engineering constituency here in the State of Qatar, this is only one of the many areas and activities where these two civil engineering associations have forged cooperation and jointly supported each other to conduct a noble undertaking.

The review classes are currently focuses on Soil Mechanics.

Meanwhile, the Professional Regulation Commission (PRC) has announced through Resolution No. 2015-898 that the SPLBE in the Middle East Regions will be held on September 24, 25 & 26, 2015 (Thursday, Friday, Saturday) coinciding with the Islamic Holiday of Eid Al Adha.

PICE-Qatar rocks at Area 52 Toastmasters Contests



The road to the World Championship of Public Speaking in Caesars Palace Hotel and Casino in Las Vegas, Nevada on August 12-15, 2015 is now widely open to welcome our young, energetic PICE Qatar Toastmasters Club in the global arena of Leaders.

Where Leaders Are Made... Toastmasters International Mission to empower individuals to become more effective communicators and leaders. Our club embraces this mission statement and indeed we are on the right track. Nineteen-month old club as we are; neophyte in the field of public speaking have already shown excellence in our desire to propel our PICE Qatar Chapter at the helm of competitiveness globally.

The recently concluded maiden Area 52, Division Q Toastmasters contest held on March 6, 2015 at the Ooredoo Tower, West Bay, Doha Qatar, and our very own club bagged the three out of four coveted championship trophies. Toastmaster Asuncion Lopez grabbed the award against the more experienced and advanced contestants in the Evaluation Speech category. Toastmaster Arnel Punsalan's "Insufficient Memory" hilariously adjudged as the Champion in the Humorous Speech category of which for the second year in a row acquired the title of Area Level Humorous Speech Champion. The sought-after finale, the International Speech Category is now safely kept in the hands of the shy and beautiful Toastmaster Sheila Medel with her winning prepared speech title, "The Skill of Confidence".

(continue on page 12)

THE ENGINEER'S GUIDE

By: Jeffrey P Cimagala

Effects of Modelling in the Analysis of Pile-Supported Foundations: Often times, Structural Engineers face the dilemma of how to properly model the elements in a certain structure in order to capture a more realistic behavior once subjected to applied loadings. To facilitate a discussion, the author has chosen a theoretical scenario wherein a raft slab will be supported by a series or group of piles carrying dead and live loads from columns supporting the superstructure. This article focuses on two methods described as follows:

1. The piles have been modelled including the stiffness
2. And the other, a representative spring constant derived from the relationship between the maximum allowable axial stress and maximum allowable settlement for any given pile (usually given by the Geotechnical Engineer)

The following are the assumed foundation geometry; 5x10m rectangular mat footing, thickness of 750mm, column spacing is 4m centers along the x-axis, 3m along the y-axis, column height of 5m, pile diameter of 300mm, pile spacing of 2.50D (750mm) and pile length of 15m. Applied loads shall be as follows:

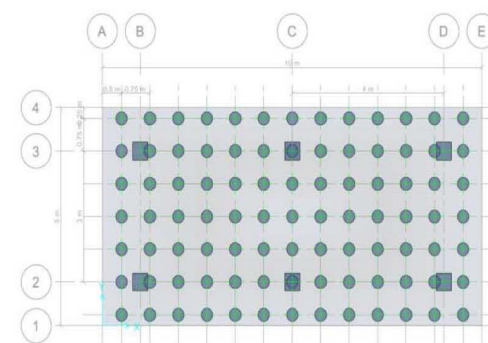
SDL	20kPa (surface loads)
LL	15kPa (surface loads)
Point Loads	DL = 1000kN
Point Loads	LL = 1500kN

Note that uplift hydrostatic force is not considered.

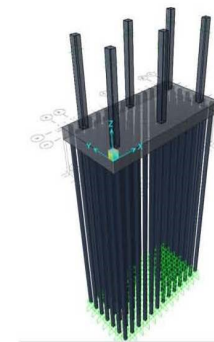
Load Combinations

SLS	1.0D + 1.0SDL + 1.0L
ULS	1.4D + 1.4SDL + 1.6L

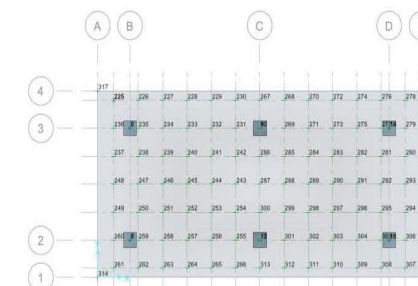
Foundation Plan



3-Dimensional Perspective View

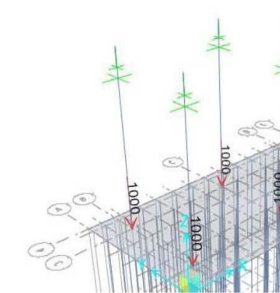


Nodes

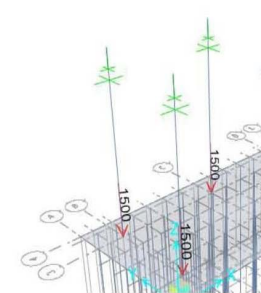


Applied Loads

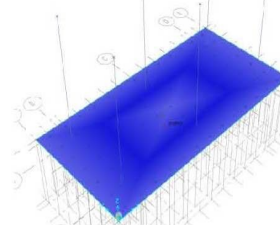
A. Point Load – Superimposed Dead



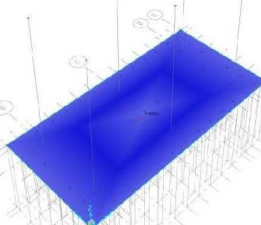
B. Point Load – Live



C. Surface Loads – SDL



D. Surface Loads – Live



(continue on page 13)

The Quality Management Job

The Role of Top Management in Quality Management

By: Engr. Mark Lepiten

As I mentioned in my earlier article, I am going to explain why QA function is confused with QC. Well, this is not surprising at all. I am sure you agree with me that this is not new to construction industry. In reality, such confusion is only a part of the bigger problem. Although it is just a simple terminology misunderstanding, something dwells behind it that

we should be more concerned about.

When people inappropriately use and invent their own terminologies, clueless on what approaches to employ, copy colleagues' way of doing things when in fact, are also faulty, or do things on their own preference, we should raise the red

flag. These are indications of a dysfunctional organization.

An organization suffers from this chaotic state because one important system is missing – a quality management system. Perhaps it does exist but defective

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2015



PHILIPPINE INSTITUTE OF CIVIL ENGINEERS - QATAR CHAPTER

CALENDAR OF ACTIVITIES AND EVENTS

Date	Description	Location/Remarks
1/2/15	1st BOD meeting / Launching of "The Tekton" / Orientation for SPLBE Review	FCC
1/7/15	1st Weekly Meet-Up & Members' Consultation (every Wednesday)	FCC
1/9/15	Start of SPLBE CE Review	FCC
1/16/15	SPLBE CE Review / Seminar on Contracts Management by Gregorio Garcia	FCC/Oryx
1/23/15	SPLBE CE Review / Seminar on Contracts Management by Gregorio Garcia	FCC/Oryx
1/30/15	Induction of 2015 BODs, New Civil Engineers & New Members / Tekton Issue 2	Wyndham Grand Regency
2/6/15	2nd BOD meeting / SPLBE CE Review (New venue)	FCC/GQPHotel
2/13/15	SPLBE CE Review	GQPHotel
2/20/15	SPLBE CE Review / ASEP Seismic Summit 2015 / UFOQ Gen. Assy	GQPHotel/Oryx/PE
2/26/15	CoPA Monthly Outreach & Counselling Program for Distressed OFWs	POLO/OWWA
2/27/15	SPLBE CE Review / Seminar on FIDIC Suite of Contracts by Engr. Azon Lopez	GQPHotel/Oryx
3/6/15	3rd BOD meeting Tekton Issue 3 / SPLBE CE Review / Pasasalamat kay Amba	FCC/Royal Taste/PE
	Start of Sports Festival - InterColor Basketball League	Wakrah Ind. School
3/13/15	SPLBE CE Review / Seminar on Rail Tunnels by Prof. Arnold Dix	Royal Taste/Oryx
3/19/15	CoPA Monthly Outreach & Counselling Program for Distressed OFWs	POLO/OWWA
3/20/15	SPLBE CE Review	Royal Taste
3/27/15	SPLBE CE Review / Site Inspection & Defects Management System (SnagR) by Samer Ghanem	Royal Taste / Oryx
4/1/15	Tekton Issue 4	FCC
4/10/15	4th BOD meeting/SPLBE Review/Seminar on Const. Insurance, Procurement & Tendering	Oryx/Royal Taste/Oryx
4/16/15	CoPA Monthly Outreach & Counselling Program for Distressed OFWs	POLO/OWWA
4/17/15	SPLBE CE Review	Royal Taste
4/24/15	SPLBE CE Review / Construction Safety Seminar	Royal Taste/Oryx
5/1/15	5th BOD meeting/ SPLBE CE Review	FCC/Royal Taste
5/8/15	SPLBE CE Review	Royal Taste
5/15/15	SPLBE CE Review	Royal Taste
5/22/2015	FOUNDATION ANNIVERSARY CELEBRATION / End of Sports Festival	QBC
5/29/15	SPLBE CE Review / Technical Seminar	Royal Taste/Oryx
6/5/15	6th BOD meeting / SPLBE CE Review / Technical Seminar	FCC/Royal Taste/Oryx
6/12/15	SPLBE CE Review / Independence Day	Royal Taste/Sheraton
6/19/15	SPLBE CE Review	Royal Taste
6/26/15	SPLBE CE Review / Technical Seminar	Royal Taste / Oryx
7/3/15	7th BOD meeting / SPLBE CE Review / Technical Seminar	FCC/Royal Taste/Oryx
7/10/15	SPLBE CE Review / Technical Seminar	Royal Taste/Oryx
7/17/15	SPLBE CE Review / Technical Seminar	Royal Taste/Oryx
7/24/15	SPLBE CE Review	Royal Taste
7/31/15	SPLBE CE Review	Royal Taste
8/7/15	8th BOD meeting / SPLBE CE Review / Technical Seminar	FCC/Royal Taste/Oryx
8/14/15	SPLBE CE Review	Royal Taste
8/21/15	SPLBE CE Review / Technical Seminar	Royal Taste/Oryx
8/28/15	SPLBE CE Review	Royal Taste
9/4/15	9th BOD meeting / SPLBE CE Review / Technical Seminar	FCC/Royal Taste/Oryx
9/11/15	SPLBE CE Review	Royal Taste
9/18/15	SPLBE CE Review / Technical Seminar/Workshop	Royal Taste / Oryx
9/24/15	Board Exam Day 1 (To be finalized by PPO)	TBA
9/25/15	4th PICE International Technical Conference	Al-Khobar, KSA
9/26/15	4th PICE International Technical Conference	Al-Khobar, KSA
10/2/15	10th BOD meeting / Technical Seminar/Workshop	TBA
10/30/15	Beach Clean-Up	TBA
11/6/15	11th BOD meeting / Technical Seminar/Workshop	TBA
11/27/15	Annual General Assembly & Election	TBA
12/4/15	12th BOD meeting / Technical Seminar/Workshop	TBA
12/15/15	Christmas Party with Distressed OFWs	POLO/OWWA

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Regular meet-ups:

- Weekly members' gathering every Wednesday, 7PM
52 Wednesdays are allotted each year for members' consultation on anything related to membership, ACPER/APEC/ASEAN/MMUP, seminars, upgrade, community services etc.
- BOD meetings every first Friday of the month, 10AM
- CE Review every Friday starting 09Jan2015 to 18Sept2015
- CoPA Counselling Program to Distressed OFWs every 3rd Thursday of the month
- Supplementary SPLBE Review Classes every Wednesday started on 11March2015.
- Basketball Tournament - 06March2015 to 15May2015

Notes:

- This is a LIVE DOCUMENT.
- Committees are enjoined to update this schedule every month before the BOD meeting to reflect their proposed activities.
- Activities and events are subject to change depending on availability of venues & facilitators.
- Other activities like plant visits, site visits, construction-related visits in Doha or in the Middle East will be advised from time to time.