

Jamaica Institution of Engineers Quarterly Observer

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Newsletter Team	
Andre White	
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To volunteer or contribute to the next newsletter

Email:

jie@cwjamaica.com

by August 16, 2010

Include "Newsletter" in the title of the message

Promoting Continuing Professional Development

JIE & PERB

Undoubtedly the rapid change in technology over the last decade has been unprecedented. This increasing change in technology is driving businesses worldwide to improve operating efficiency as they seek to increase profitability. The result is that more demands are being placed upon professionals to become more competitive and employable. This demand is even greater on Engineers since they operate and work for businesses that are driven by technology. One of the primary avenues that professionals worldwide are currently using to improve their competency and subsequently meet this demand is Continuing Professional Development (CPD).

A glance at how some of the Professional Engineering Institutions worldwide are dealing with CPD related issues

revealed that these institutions are all putting policies in place to make it mandatory for Professional Engineers to acquire a minimum amount of Professional Development Hours (PDH) or in some jurisdictions, points, in order to maintain their Professional Engineering license. Some of the countries that have or are in the process of making this requirement mandatory for Professional Engineers are:

- Barbados
- United Kingdom
- United States of America
- South Africa and
- Canada

These changes that are taking place globally will of course impact our local Engineers. The Jamaica Institution of Engineers (JIE) in collaboration with The Professional Engineers Registration Board (PERB) have recently developed a draft Continuing Engi-

neering Education (CEE) policy document which outlines the framework that will be put in place to make it possible for local Engineers to acquire PDH. The primary objectives and reasons for undergoing this process are:

- To provide/promote opportunities for acquiring PDH
- To encourage both registered and aspiring registered Engineers to pursue these opportunities
- To facilitate the continued professional development of practicing Engineers.
- To allow Engineers to acquire the PDHs that will be necessary to satisfy PERB's CEE requirements.

We should all put our full support behind our local Engineering Institutions as they seek to make and keep the Professional Engineering fraternity in Jamaica relevant in a world that is rapidly changing.

End



Audience listening attentively during an Engineers Week 2009 conference - an example of an opportunity for Continuing Professional Development, organized by the JIE.



NEWS from the Professional Engineers Registration Board (PERB)

PERB Board

The Professional Engineers Registration Board (PERB) takes this opportunity to inform the membership that, on April 13, 2010 the Board elected Engineer Noel O. Whyte as its Chairman for the years 2010 to 2012.



Eng. Whyte is a Registered Professional Engineer, and served in the past as Vice President of the Jamaica Institution of Engineers.

Eng. Whyte's extensive engineering experience in contracting, consulting and project management spans over some 35 years. For the last 28 years, Eng. Whyte has been the Managing Director of the Consulting Engineering firm, N. O. Whyte and Associates Ltd.

The present complement of the Professional Engineer's Registration Board include: Engineers Noel O. Whyte, Donald E. Miller, Robert F. Evans, Desmond Young, Humphrey A. Taylor, Howard M. Chin, L. Garth Kiddoe and Attorney Nicole E.G. Burgher.

Updated PERB Register

The Professional Engineers Registration Board (PERB) takes this opportunity to announce that the PERB Register is up to date as of May 31, 2010. Individuals and organizations wishing to consult the Register may view it at the PERB's Offices, 2 Winchester Road, Kingston 10 between the hours of 9:00 a.m. and 5:00 p.m., Mondays to Fridays.

Towards Regional Engineering Accreditation

Attempts are underway to establish regional system(s) that will accredit the programmes of study for Engineering and Technology Professionals in the Caribbean. In the future, the ability of countries to sell their products and attract foreign investments will increasingly depend on the ability to communicate and demonstrate the quality of their Engineering programmes. The JIE provides input to two organizations so focused: Greater Caribbean Region Engineering Accreditation System (GCREAS) and Caribbean Accreditation Council for Engineering and Technology (CACET). The JIE will be updating its members as work progresses.

Potential Benefits:

- ⇒ Develops a better qualified engineering and technical workforce
- ⇒ Facilitates mobility of both people and work and the possibilities for much higher cross-border activities
- ⇒ Attracts the engagement of international companies
- ⇒ Enhances the ability to attract foreign investment
- ⇒ Improves quality, relevance, depth, economic and social impact, recognition, attraction and influence of Engineering and Technology Programmes
- ⇒ Increases the likelihood of acceptance of graduates to academic graduate-level programmes of study
- ⇒ Fosters innovation and encourage more sophistication and originality
- ⇒ Assists industry, academia, government and licensing bodies in making purposeful decisions on hiring, recognition and licensing of professionals who have graduated from such programmes
- ⇒ Assists graduates in securing more desirable assignments and employment

In 1989 an international agreement called "The Washington Accord" was signed to recognize the substantial equivalency of member accreditation systems and the level of graduates of programmes accredited by national bodies.

Visit <http://www.washingtonaccord.org/>.

In Memoriam: Engineer Richard Edward Isaac Nevers, FJIE, Past President

June 13, 1929 - April 18, 2010

Excerpts from the eulogy given by Eng. Alfrico Adams at his Thanksgiving Service

Eng. Richard Nevers first gained an interest in Engineering while attending high school in Jamaica. As a young man, he worked with the Ministry of Health and the Ministry of Housing, always pursuing his interest in building and Engineering. In the 1950's he relocated to England to pursue further studies at Brixton School of Building (later called the Polytechnic of the South Bank). His period in England was formative in many ways, having gained, not only education and a new perspective on professionalism, but also many friendships, many of which he maintained for the rest of his life. After his return to Jamaica in 1964, he worked with some of the established firms and agencies before going on to form his private practice, R.E Nevers & Associates. Throughout all this he embarked on service to the Jamaica Institution of Engineers. Among the things Ted Nevers regarded with pride were:- "House on the Hill" the Matalon House on Beverly Hills, Presidency of the Jamaica Institution of Engineers 1982-83, Elevation to the position of Fellow of the Jamaica Institution of Engineers. This expert motor-cyclist, lover of cricket, tennis, classical and jazz music, was also an avid reader. He served his Church, his community and his profession with diligence. In acting as a deacon, Chairman of School Boards, President of J.I.E., he indeed served his beloved country. Until his passing, Ted was the patriarch of a large and growing family, with six children, fourteen grandchildren and eight great grand children. He will be missed by all. May his soul rest in peace.

The JIE Representing You

In representing the interests of Engineers, the JIE...

...**Has** raised concerns and formally lodged complaints to the Professional Engineers Registration Board (PERB) against those who operate contrary to the Professional Engineers Registration Act. PERB is duly authorized to take disciplinary action following investigation.

...**Is** collaborating with PERB to launch a media campaign to educate the public about the regulations set out in the Act and the importance of utilizing Registered Professional Engineers.

...**Continues** to express positions and opinions to Government agencies, in particular surrounding the mandatory requirement for registered Professional Engineers to conduct Engineering designs.

...**Will** be reviewing and updating the Small Building Code, to ensure continued protection of the public, and to ensure safety in engineering design by those qualified, registered and licensed to do so.

The Haiti Recovery

The JIE has been involved in several meetings and discussions with other organizations such as the Office of the Prime Minister, Office of Disaster Preparedness and Emergency Management, HEART Trust/NTA and the Incorporated Master-builders Association of Jamaica to collaborate efforts and keep the communication channels open.

A visit to Haiti proposed for August 2010, will potentially include a JIE representative to:

- (1) promote the adaptation and use of the Jamaica National Building Code
- (2) explore opportunities for Jamaican Engineers

to contribute to the rebuilding efforts.

Several Members were recently nominated to represent the JIE at:

- Office of Disaster Preparedness and Emergency Management (ODPEM) Model Earthquake Contingency Plan Workshop
- Bureau of Standards Jamaica (BSJ)'s Cement Technical Committee to review the sections of JS 301: 2008 Jamaican Standard Specification for Blended Hydraulic Cements and JS 32: 2008 Jamaican Standard Specification for Portland Cement Ordinary and Rapid-Hardening
- Kingston and St. Andrew Corporation Symposium for the Review/Update of the KSAC Sustainable Development Plan 2005-2025
- National Housing Trust's Dry Valley, Trelawny Housing Development Design Competition Judging Panel
- Construction Industry Council (CIC) planning committee to celebrate its 50 years of existence and honour professionals including



GreenRg Management LLC demonstrated several LED lighting solutions at PCI Auditorium on June 17, 2010. Visit <http://greenrgmanagement.com/>

Visit the JIE website <http://www.jiejamaica.org/>

A Little Guidance Can Go a Long Way

JIE on Campus

The JIE accepted the invitation of the Faculty of Engineering and Computing of UTECH to participate in their Faculty Day Expo on March 12, 2010, which was held under the theme "Sustain, Innovate and the Way Forward". Engineer Gary Walters and Ms. Pollyanna Mitchell represented JIE, fielding queries from the continuous flow of interested students at the JIE booth. It was an excellent opportunity to sensitize the future generation of Engineers of their role and potential impact on society, as well as to inform them of the activities and benefits of the JIE. There will be renewed focus on strengthening the bond between JIE and the University of Technology Association of Student Engineers (UTASE). These efforts are anticipated to result in an increase in the student membership of JIE, the formation of a JIE student chapter, launch of a mentorship programme and several opportunities for students to better prepare themselves to enter the World of Work.



Engineering Degree Introduced at UWI, Mona

- A pilot project was launched in 2009, for the B.Sc. Electronics Engineering 3-year programme at the University of the West Indies, Mona.
- The programme was fully advertised and launched this year, with a target to enroll 50 students in September 2010 from over 400 applicants.
- Administered by the Faculty of Pure & Applied Sciences, Mona, full support is given by the Faculty of Engineering, St. Augustine especially for approval and oversight of courses, many of which are similar in content to the B.Sc. Electrical and Computer Engineering (St. Augustine).
- Ongoing consultations with industry players have been useful in identifying the specific requirements of the future graduates and tailoring the courses to meet those needs.
- The vibrant practice of Engineering across the region has justified this and future expansions of programme offerings by UWI.

Congratulations

Professor Clement Sankat, Pro Vice Chancellor of The University of the West Indies (UWI) and Principal of the St Augustine Campus, received the Award of 'Career of Excellence in Engineering' from the Association of Professional Engineers of Trinidad and Tobago (APETT) in June 2010. Mr. Richard Saunders, APETT's President commented that "Engineers must strive to enforce the significance of our profession and make our work more understandable to the society. We must also take advantage of the enormous wealth of engineering knowledge and through the interdisciplinary character of our membership, provide a foundation for growth in the art and practice of engineering in all forms."

Source: <http://www.caribbeandailynews.com/?p=12936>

JIE Engineering Mentorship Programme

Following up on former JIE Council Member Eng. Benny Yip's proposal for the JIE Engineering Mentorship Programme, the JIE is working on launching a pilot programme in September 2010. Extracts from the proposal are provided below. All JIE members will be given ample opportunity to participate.

CONTEXT: Having gone through the transition from UWI-St. Augustine to the working world himself in Jamaica, he highlighted the need for connectivity between the professional world and the academic world. Ideally, students in such practical fields as Engineering should be exposed to the working world as much as possible, under the coaching and mentorship of a pool of seasoned Professional Engineers. This is a key strategy of succession planning to ensure the continuity of growth and relevancy of the JIE.

VISION: In the next 10 to 20 years, a generation of visionary Engineering professionals and entrepreneurs will emerge, as the significant and influential driving force to advance the nation building initiatives in Jamaica.

MISSION & PURPOSE: At JIE, we demonstrate our stewardship in our commitment to build the nation for a better tomorrow, including investment in the succeeding generations of Engineers. As part of our succession planning effort, the mentorship programme is developed to ensure the most seamless transfer of knowledge and experience from the established professionals to the emerging ones, resulting in the continuity of a solid yet inspired Engineering body that will serve the society with competence and confidence in the years to come.

GOALS & OBJECTIVES: The mentorship programme aims to form the bridge between Professional and the student Engineers that facilitates empowering relationships to be built on personal levels.

MUTUAL BENEFITS:

- ✦ Making their academic subjects and curriculum come to life with the wider practical considerations.
- ✦ Identifying the strengths and interests of the young engineers from an early stage, hence channelling their energy and creativity even beyond their existing academic platform.
- ✦ Encouraging cross-disciplinary functionality and training them to think more interdependently and holistically.
- ✦ Embedding from the formative stage of their development the ethical values and vigorous culture for the Engineering standards and practices that will eventually become the core value of stewardship to the nation.
- ✦ Encouraging them to continue subscribing to JIE, not because membership is just something nice-to-have, but because this has become part of who they are as Engineers; collectively a forum for mutual support, sharing ideas and resources, and ultimately sharing vision, goals and ownership of the Engineering fraternity in the nation. *End*

JAMAICA NATIONAL BUILDING CODE UPDATE

Legislation The specially formed committee, chaired by JIE Past President Noel daCosta, is working full speed ahead for the National Building Code to be enacted into law. In May 2010, the Policy Framework was approved and the draft submitted to Chief Parliamentary Council who will be engaging the requisite legal support. The intensive and multifarious process is aimed at having the Jamaica National Building Code Bill gazetted by June 2012.

The Train the Trainer Programme took place between April 20 and June 29, 2010. Over 40 representatives from the Bureau of Standards Jamaica (BSJ), HEART Trust/NTA, Jamaica Institution of Engineers (JIE) and University of Technology, Jamaica (UTECH) were trained as trainers in the Jamaica National Building Code. Engineers Hermon Edmondson and Noel daCosta were the JIE representatives. The Programme will be put to swift use as the upcoming **Jamaica National Building Code Training** organized by UTECH will take place in July 2010. Contact Ms. Sheryll Thomas at (876) 512-2256 or shthomas@utech.edu.jm for more information. Cost \$35,000 per module.

Why a Registered Professional Engineer Should Design Your Building

Building plans can be obtained for as little as 25% of the costs typically quoted by Engineers. The question as to why one should pay the more 'expensive' rate is therefore understandable. Some persons take the time to investigate the benefits of this higher-priced service, while many are inclined to make the choice solely based on the immediate effects on their pockets. For an individual to make an educated and well-calculated decision, he/she must at least have a basic appreciation of what Civil and Structural Engineers do and how buildings function.

The concepts and techniques involved in structural design and construction are quite intricate and require years of study and practice to acquire a competent level of understanding. One of the fundamental principles however can be described briefly using a synopsis with a typical reinforced concrete two-storey building. Structural elements such as floor slabs should ideally support all possible loads from items that add weight to them. These loads may come from people, furniture and appliances, floor tiles, partition walls and stored material, to name a few. The slab must be designed to withstand the combined weight of these items.

Steel reinforcement bars are placed in the concrete for a few reasons. These steel bars help to hold the concrete together, prevent breaking or cracking of the concrete and tie the floor slab to the walls or beams while transferring the loads to these support elements. It is therefore important to include a sufficient amount of steel bars without being excessive, as too much steel may increase construction costs and also have negative structural effects. The loads from the upper floor slab and the roof are normally transferred to concrete beams that are directly supported by walls or columns. The foundation acts as the final support elements for the total weight of the building and its contents. Also critical is the connection of these structural elements to avoid overstressing of the joint and separation of the members. Structural designs are required to determine appropriate sizes of these structural elements, the amount of reinforcement and the most suitable details for the connections. Naturally, for more complicated structures such as bridges, multi-storey buildings and those

with complex architecture or unconventional construction techniques, the Engineering design and detailing activities become more involved and therefore requires a more advanced and thorough approach.

Civil and Structural Engineers are trained to predict the type and magnitude of loads expected to act on a structure throughout its life span based on the site conditions and intended use of the structure. These specialists are also trained to analyze how the loads will affect the structure and hence determine the most suitable and economical type of building system to use; then perform design calculations to determine the sizes and properties of elements required, as well as the connections between these elements. The application of these Engineering principles ensures strength and durability of the structure, providing safety for the occupants while optimizing costs.

There are local and international regulatory standards and codes that Engineers are trained to follow and adherence to these regulations produce work of a the requisite quality that complies with proven standards and practices. Furthermore, the governing body of Engineers grants professional licenses to those considered qualified and competent to practice in the field. Only engineering work prepared or approved by Professional Engineers is considered acceptable by law.




Construction in our local industry is dominated by practices handed down through generations of contractors, skilled workmen and laborers, commonly reflective of a prototype used regardless of the variations in structural arrangement and loading conditions. Numerous forms of malpractice result from this approach. Unawareness or misconceptions regarding the geotechnical aspects of construction is one of the most prevalent matters of concern within the industry, as many are oblivious to the implications of different soil types and how they influence the foundation type. The implication of this oversight is typically differential settlement normally accompanied by significant cracks and/or a noticeable shift in

Continued on Page 6

Deepwater Horizon

Oil and gas continue to leak into the Gulf of Mexico from the failed blow-out protector (BOP) of the Deepwater Horizon oil drilling rig which sunk, following a catastrophic explosion and fire on April 20, 2010.

While approximately 438,000 barrels of oil have been recovered so far, scientists now estimate that 20,000—30,000 barrels per day have been spewing into the Gulf. While subsea and surface containment and control measures are in progress, the ultimate solution to stop the leak is expected to come in the form of two relief wells which are slated for completion in August 2010.

Eleven lives were lost, and while this event is being quoted as the most severe environmental disaster in the history of the United States, the impact on the economy cannot be understated. See how this incident compares with the most significant ones in history. 

Why a Registered Professional Engineer Should Design Your Building. *Continued from Page 5*

alignment of adjacent elements in a building. This is just one of the many problems found in our construction industry, and others include: placement of elements at the upper floor level without sufficient support below; specification of steel reinforcement in slabs, beams and columns without performing designs; improper reinforcement at connections; incorrect placement of bar splices; omission of required horizontal bars in walls. All of these considerations can have detrimental effects on the stability of the structure. Cracking, deflection and failure of structural elements are examples of the possible consequences of poor detailing and specification or improper placement of steel reinforcement bars. Another scenario that many persons can relate to is one side of a building sinking slightly and leaving distinct cracks as that section breaks away from the rest of the structure. The repercussions of faulty design and construction can be severe or even fatal, especially in events of natural disasters such as earthquakes, hurricanes and floods.

Civil and Structural Engineers are often called to duty in cases where construction has been proposed or completed without proper designs and questions are subsequently raised. Some clients are fortunate enough to have these concerns raised in the approval stage, while some encounter difficulties during construction when it becomes necessary to improvise and make adjustments. This usually leads to variations in the costs of the project as well as delays in the construction time, and it often turns out far more costly than if an Engineer was used from the onset. In the extreme cases (which are also quite common), problems develop a few years after construction and only then is it discovered that many shortcuts were taken and the building is not structurally sound. The decrease in upfront cost is therefore accompanied by a lower quality product that inevitably turns out costing much more for maintenance and repairs. These clients are generally frustrated and perturbed by the expenses incurred to carry out all the necessary repairs and modifications to bring the structure to an acceptable state of stability and safety.

We are slowly achieving an increased level of awareness of the relevance of Engineers based on these experiences as well as the recent insistence of parish councils that Engineering details must be prepared or approved by registered Engineers. The increased concern regarding earthquake threat has also awoken the general public to the prudence of building safety and structural stability, and has stirred a considerable amount of discussions about proper implementation of local building codes and construction practices. It is subsequently becoming clearer to the general public that Engineers provide safety, value for money and peace of mind.

Contributed by Eng Ecce Allen

Ten Worst Oil Spills Worldwide Source: <http://www.forbes.com/2010/04/29/worst-oil-spills-business-energy-oil-spills.html>

Incident	Quantity, Location, Year	Incident Overview
Gulf War Oil Spill	10.3 million barrels Persian Gulf, Kuwait, 1991	Iraqi forces opened valves and emptied tankers, mostly at Kuwait's Sea Island terminal, with the intention, in part, of thwarting a landing by U.S. Marines arriving.
Ixtoc I Oil Well	3.3 million barrels Gulf of Mexico, Mexico, 1980	Blowout on an exploratory well which took 9 months to plug.
Atlantic Empress	2.1 million barrels Trinidad & Tobago, 1979	Tanker collided with another tanker, the Aegean Captain. Continued leaking while being towed. Sank in deepwater.
Fergana Valley	2 million barrels Uzbekistan, 1992	The largest ever spill from an inland oilfield. Struck heavily populated industrial area.
Nowrux Oil Field	1.9 million barrels Persian Gulf, Iran, 1983	A tanker ran into an oil production platform. Spilled 1,500 barrels per day for more than a year.
ABT Summer Tanker	1.9 million barrels 700 miles off Angola, 1983	Tanker caught fire carrying crude from Iran to Rotterdam. Five persons died.
Castillo de Bellver Tanker	1.8 million barrels Saldanha Bay, South Africa, 1983	Fire on tanker led to ship breaking in two off the coast of Cape Town. Winds pushed the oil slick out to sea, preventing environmental damage onshore.
Amoco Cadiz Tanker	1.6 million barrels Brittany, France, 1978	Tanker ran ashore after losing rudder control during a fierce storm. Broke in two and sank.
Amoco Haven Tanker	1.1 million barrels Mediterranean, near Genoa, Italy, 1991	Tanker caught fire and sank. Six crew killed. Some of the oil sank to the seafloor where it continued to leak into the sea for a decade.
Odyssey Tanker	1 million barrels 700 miles off Nova Scotia, Canada, 1988	Leaking tanker caught fire and sank. Much of the oil was burned. One person killed.

On June 12, 2010 JIE members got the opportunity to partake in a presentation on the Kingston Metropolitan Area (KMA) Water Supply Project, and also to tour the various sites and facilities in St. Catherine. The project is quoted as **“the biggest and most critical water supply intervention undertaken in Jamaica and the region”**



New members were specially welcomed at the **JIE Games Night & Social held on June 11, 2010.**

Whether one came for the food, the drinks, the games (which turned out to be quite competitive), to see who's knew or to catch up with colleagues, this event had it all. Looking forward to the next one.



LOOK OUT FOR...

MARK THE DATE!!

Come out , be informed and participate in presentations and panel-led discussions on topics affecting Engineers in Jamaica and the Region

- * **Engineering Ethics** - Professor Jonathan F. K. Earle, PhD., P.E.
- * **Greater Caribbean Region Engineering Accreditation System** - Eng. Garth Kiddoe

Listen out for additional topics relevant in particular to ACMIE division members

Upcoming Seminar
July 19

ENGINEERS' WEEK 2010
September 19 - 26

- ◆ Sunday Sept. 19
 - ◇ Church Service
- ◆ Monday Sept. 20
 - ◇ IStructE/JIE Caribbean Bridge Conference
 - ◇ Engineers' Week Opening Ceremony
- ◆ Tuesday Sept. 21
 - ◇ IStructE/JIE Caribbean Bridge Conference
- ◆ Wednesday Sept. 22
 - ◇ Carib. Cement /JIE Concrete Conference
 - ◇ "Engineers in the Arts" - An Evening of Visual Arts, Music, Poetry, Wines
- ◆ Thursday Sept. 23
 - ◇ Energy & Petroleum Conference
- ◆ Friday Sept. 24
 - ◇ Site Visit to Falmouth Pier
 - ◇ Social & Games Night
- ◆ Sunday Sept. 26
 - ◇ JIE/NPF 5K Race for Hope

This jam-packed week promises to showcase advancements in engineering and technology, promote discussions on a wide range of current issues, offer excellent learning and networking opportunities, raise the profile of the Engineering Profession and much much more

Stay tuned to the JIE Website for more details as Engineers Week 2010 draws near !!

THE JAMAICA INSTITUTION OF ENGINEERS & THE NATURE PRESERVATION FOUNDATION PRESENTS THEIR...

3rd Annual

RACE FOR HOPE

5K Run/Walk Road Race

At the Hope Botanical Gardens

OPEN TO ALL FITNESS LEVELS!

- Individuals
- Corporate Teams
- Running Clubs
- Friends of the Zoo

7:00am Sunday September 26 2010

Contribution \$500 (Students with valid id) \$1,000 (All Others)

REGISTER ONLINE AT WWW.RACEFORHOPE.COM.JM

Proceeds in Aid of Hope Gardens & Zoo

<http://www.jie-jamaica.org/>

JIE Visits Tank-Weld Rio Bueno Port

The Tank-Weld Group extended an open invitation to the JIE to visit their Rio Bueno Port Facility, in Trelawny. On Saturday April 17, 2010, forty (40) persons took up the offer. While exposing Engineers to current methods in dock design and construction the perfect opportunity was created for interaction of Engineers from all across the island.

The construction of the pier and warehouse and main offices, was part of Tank-Weld’s thrust to expand their business to allow for improved importation and distribution of steel, cement and lumber. With Tank-Weld being both the client and contractor, the business focus was never lost, and served as the main driver during all project phases. Dr. Wayne Reid, presented the main design features as Jentech Consultants were the local designers, while Engineers Arnold Aiken and John Greeves representing Tank-Weld, enlightened the group on the dynamic construction and project management experiences.

Conceptualized in 2006, Mott MacDonald (of England), was engaged for the feasibility study to convert the existing Old Grain Silo Facility to a new docking facility . The study revealed that the site would be suitable for constructing the dock but all Engineering feats, no matter how simple, will have some degree of problems and this project was no exception. One of the potential problems was scouring on-shore because the Rio Bueno comes down regularly. The use of sheet piles to protect the shoreline eliminated the possibility for scour. In addition the piles some > 220ft long had the tendency to be shifted out of position due to wind and wave action. The solution to this problem was to fill the piles with sand up to 3m below the top of the pile after they were driven. Time will not allow me to mention all the other challenges that were encountered but needless to say solutions were found for all of them which resulted in the project being completed within the scheduled timeframe.

Tours of the facilities demonstrated the highly efficient operations, during which fruitful discussions ranging from recent advances in corrosion protection, to emergency response and environmental impact took place. We all benefited from wonderful hospitality - “Nuff Respec” due to the chefs.

Project Highlights

- Start Date: September 2007
- First Shipment: August 2008
- Pier Dimensions: 160m x 18 m
- Pier Supports: 160 piles, each 610mm dia
- Design Live Load: 2 tons/m²
- Draft and Freeboard: 11m ; 3m
- No. of employees from Rio Bueno: 100
- Amount reintroduced into the community per week: J\$1million



A Special Welcome to our New Members
Elected April - June 2010

David Foster, Affiliate Member (Civil)	Paul Kitson , Member (Civil)
Elisabeth Mondon, Member (Civil)	David Muir, Member (Electrical)

Visit and Join the Facebook Group: Get In Gear!!
<http://www.facebook.com/group.php?gid=17193037307>



Jamaica Institution of Engineers

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Your Comments and Suggestions are Always Welcome

Include “Newsletter” in the subject of your email and submit to: jie@cwjamaica.com

NOMINATIONS

JAMAICA INSTITUTION OF ENGINEERS

Dear Members,

In accordance with the Institution's Bye-Laws numbered 44 to 54 we hereby invite your nominations for the following officers:-

-President Elect -Three (3) Vice Presidents -Honorary Secretary -Honorary Treasurer -Four (4) Ordinary Members

The Nomination Form (on the following page) should be completed and returned to the Hon. Secretary no later than **July 15, 2010**

Yours truly,

JAMAICA INSTITUTION OF ENGINEERS

Chairman

Nominations Committee

EXTRACT FROM THE CONSTITUTION AND BYE-LAWS 44 TO 54

44. Not later than the May meeting of each year, the Council shall appoint a Nominating Committee consisting of three (3) Corporate Members, one of whom shall be Chairman, and one (1) Associate Member, who are all Ordinary Members of Council. The Associate Member on the Committee shall be responsible solely for the nominations of Associate Members for the two (2) posts on Council.
45. The Committee shall submit to the Council its recommendations for President, President-Elect, Vice-Presidents, Honorary Secretary, Honorary Treasurer and Ordinary Members of Council.
46. The Institution in selecting nominees to fill vacancies on the Council each year, shall follow a procedure which will ensure that as far as possible, the broad categories of engineering interests within the Institution are reflected in the composition of the Council.
47. Not later than the 15th day of July in each year, each member eligible to vote may nominate according to Bye-Law 48, any other duly qualified person to fill any of the vacancies specified in Bye-Law 45 by delivering such nomination in writing to the Honorary Secretary together with the written consent of such person to accept office if elected.
48. Any ten (10) Corporate Members of the Institution may nominate candidates for President subject to Bye-Law 49. Any ten (10) Corporate Members may nominate Candidates for President-Elect according to Bye-Law 50. Any five (5) Corporate Members may nominate candidates for Vice-Presidents according to Bye-Law 51. Any two (2) Corporate Members may nominate candidates for Honorary Secretary, Honorary Treasurer and other Ordinary Members of Council according to Bye-Laws 52, 53, 54. Any two (2) Graduate Members may nominate candidates for the post of Ordinary Members of Council to be filled by Graduate Members.
49. The President shall hold office for one (1) year and shall be succeeded by the President-Elect.
50. The President-Elect shall be nominated from those Corporate Members with at least one (1) year's service on Council and at least fifty percent (50%) attendance at Council meetings in that year, the period of service to be within the five (5) years immediately preceding the year of his nomination as President-Elect. He shall hold office for one year and shall assume the office of President when the President demits office. If the office of the President becomes vacant before the expiry of the term of office, a Vice-President shall be elected by Council to fill the vacancy for the remainder of the term of office.
51. The Vice-Presidents shall be nominated from those Corporate Members with at least one (1) year of satisfactory service on Council and at least fifty percent (50%) attendance at Council meetings during that year. Each Vice-President shall hold office for one (1) year and shall be eligible for immediate re-election for the succeeding year, but thereafter shall not again be eligible for election as Vice-President until an interval of one (1) year.
52. The Honorary Secretary shall be a Corporate Member. He shall hold office for a period of one (1) year, and shall be eligible for immediate re-election to the same or any other office in which he is qualified to serve.
53. The Honorary Treasurer shall be a Corporate Member. He shall hold office in that capacity for one (1) year only, but shall be eligible for immediate re-election to the same or any other office in which he is qualified to serve.
54. Ordinary Members of Council shall be nominated from among the Corporate Members and Associate Members, with two (2) posts to be filled by Associate Members. The Associate Members on Council shall be entitled to participate in all the deliberations of Council but shall be non-voting members. The period of office of any Ordinary Member shall be one (1) year and he shall be eligible for immediate re-election. No Ordinary Member of Council shall hold office for more than two consecutive years. In the event of no Associate Members being elected, Council shall deal with the resulting vacancies as casual vacancies and shall fill these in accordance with Bye-Law 60.

OFFICE: PRESIDENT-ELECT

PROPOSED CANDIDATE: _____
PROPOSERS AND SUPPORTERS

NAME	SIGNATURE		NAME	SIGNATURE
1.			6.	
2.			7.	
3.			8.	
4.			9.	
5.			10.	

OFFICE: VICE-PRESIDENT

PROPOSED CANDIDATE: _____
PROPOSERS AND SUPPORTERS

NAME	SIGNATURE		NAME	SIGNATURE
1.			4.	
2.			5.	
3.			6.	

OFFICE: HON. SECRETARY

PROPOSED CANDIDATE: _____
PROPOSER AND SUPPORTER

NAME	SIGNATURE		NAME	SIGNATURE
1.			2.	

OFFICE: HON. TREASURER

PROPOSED CANDIDATE: _____
PROPOSER AND SUPPORTER

NAME	SIGNATURE		NAME	SIGNATURE
1.			2.	

OFFICE: ORD. MEMBER

PROPOSED CANDIDATE: _____
PROPOSER AND SUPPORTER

NAME	SIGNATURE		NAME	SIGNATURE
1.			2.	

OFFICE: ORD. MEMBER

PROPOSED CANDIDATE: _____
PROPOSER AND SUPPORTER

NAME	SIGNATURE		NAME	SIGNATURE
1.			2.	

OFFICE: ORD. MEMBER

PROPOSED CANDIDATE: _____
PROPOSER AND SUPPORTER

NAME	SIGNATURE		NAME	SIGNATURE
1.			2.	

OFFICE: ORD. MEMBER

PROPOSED CANDIDATE: _____
PROPOSER AND SUPPORTER

NAME	SIGNATURE		NAME	SIGNATURE
1.			2.	