

Volume III April 2018

## ITEE HIGHLIGHTS



## THE PULSE OF THE MEMBERS -IIEE 1<sup>st</sup> MEMBERSHIP CHAPTER CONVERGENCE

Ramil R. Tan, Executive Director

Torrijos, MARINDUQUE - A lot has been said about the how the national office of the Institute of Integrated Electrical Engineers of the Philippines, Inc. (IIEE) may be able to address the needs, requirements, and wants of its members. A lot of programs have also been introduced and implemented. But at the end of the day, are all these activities, programs and projects indeed answered the members requirements? In a nutshell, it is indeed imperative to know who is setting the bar for whom?

Taking note of these concepts of providing what the members want and knowing personally what they require – the IIEE Executive Committee extended their services beyond the usual. The national officers indeed wished to see, hear and discuss personally with the personalities involved on what they want their organization to be, what are their thoughts and finally what must be the programs that IIEE can implement *Continue on p3* 



IIEE ONLINE PAYMENT SERVICE PROVIDER Sylvester John Gregorio IT Officer

Today, we are living in a modern world where communication is only a grasp

of hand, one touch anytime, anywhere using the online platform, we can shop, order meals or even pay bills in our own comfort.

Recalling my very first attendance to the Regional Conference, I personally witnessed the uneasiness of members





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### EXECUTIVE COMMITTEE'S CHAPTER VISIT AND TECHNICAL SEMINAR IN THE HEART OF THE PHILIPPINES

John Paul Madero Head Marketing Department

Torrijos, Marinduque – The Institute of Integrated Electrical Engineers of the Philippines, Inc. organized last April 7, 2018 its very first Chapter Conference held at Matuyatuya National High School, Torrijos, Marinduque. It was attended by an overwhelming 300 delegates across the island. The event was led by the young and dynamic Chapter President, Engr. Mikhael Sajul in collaboration with IIEE's Executive Director, Ramil R. Tan together with the support of IIEE National Secretariat.

Technical seminars were conducted by

the Executive Committee, sharing their expertise and knowledge in the field of electrical engineering. Likewise, the Executive Director shed light on the Continuing Professional Development and other related details. The program was then concluded by a sumptuous dinner and joyous fellowship night.

With this successful activity, IIEE is geared to cruise the ocean waves, fly high and drive to greater heights to rally its commitment in strengthening membership engagement all the way to the Chapters.

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## PULSE OF THE MEMBERS...

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that will directly hit the "pulse of the members" and move forward not only with enthusiasm and joy but more so, with satisfaction and realization of the value of the institute to their life and their profession.

Thus, on April 6, 2018, the Executive Committee went all the way to the Province of Marinduque - to meet and converge with the considered 'small" chapter in the island province. But lo and behold - the unexpected happened. The convergence and ExCom visitation was jam packed with more than 300 delegations of electrical practitioners (Registered Electrical Engineers, Registered Master Electricians and even electricians) coming in full force from all over the province. That was unprecedented, that was un-expected but certainly - spectacular for an organization whose main focus is essentially to make the members feel that IIEE is there for them. The halls of Matuyatuya National High School's Multi-Purpose Center in the middle of rice fields were jam-packed with people; unmindful of the heat - all ecstatic to see the national officers, hear their lectures and converge with them.

The topics provided during the technical sessions were all from the members based on what they want, what they need and what is basically applicable to them in Marinduque viz:

- Academic Preparedness in Relation to Industry Requirements - Dr. Crilo C. Calijo, National Vice-President, Internal Affairs
- **EE Laws** Engr. Noel T. Fernandez, National President
- Renewable Energy Engr.
  Eugenio Araullo, National Treasurer
- **CPD and Related Details** Mr. Ramil R. Tan, Executive Director
- **Basic Circuit Sizing** Engr. Noel T. Fernandez, National President
- **Design Analysis** Engr. Florencion Berenguel, National Vice-President, External Affairs

After the full day of information and technical discussions, the group further discussed the much awaited concern on the issues about electrical practice in various municipalities of the Province purportedly with intent to reconcile with the programs and practices of the Office of the Building Officials of the municipalities of Marinduque. The National Officers headed by National President Engr. Noel YT. Fernandez, with the Hon. Alfredo Rosales of the Local Government of the Municipality of Torrijos, Marinduque, sits as panel during the discussions facilitated by Executive Director Ramil Tan.

During the discussions, Hon. Rosales of the LGU-Torrijos, provided an assurance that he will look into the details of these problems and accordingly introduced Resolution to the Local Government in the interest of recognizing the contributions and efforts of the electrical practitioners in the locality.

The entire day seems to be full for all the IIEE delegates – while the officers attend to the discussions and lecture, the staffs were busy facilitating membership renewals and updating. Merchandise brought in to the venue and were sold like pancakes – overtaking the sales record of the recently concluded regional conferences to the delight of the team.

The heat of the sun in the jam-packed hall did not deter the determination and interest of all participants to hear and discuss on all issues that besets electrical practice. And yet, while they were there during the sunrise – the attendees, mostly from far areas of different municipalities, stayed until the sun set proving one thing – they are all bonded together to be heard, to participate and to become part of their very own organization they long to feel.



## MARINDUQUE CHAPTER CONFERENCE



### COAL SHARE IN POWER GENERATION INCHES CLOSER TO 50% NATIONWIDE

Myrna M. Velasco (Manila Bulletin) April 10, 2018

Coal-fired power plants have been reinforcing their foothold in the country's generation mix with share inching up to 49.6-percent as of end last year, based on data culled from the Department of Energy.

These facilities' share in electricity generation nationwide effectively dwarfed the share of natural gas at 21.8-percent; and that of renewables at 24.6-percent

combined for conventional and the emerging technologies.

Such manifest dominance of coal in Philippine power generation then may serve as another fodder to the endless 'RE versus fossil fuels' debate which had grown to be a wild diversion of some players in the industry.

For oil-based power plants, their generation share had been at 4.0-percent last year, with marked downtrend compared to 2016 level, according to the department.

On the RE resources, conventional technologies like geothermal and hydro still cornered the lion's share at 10.9-percent and 10.2-percent, respectively; while the fraction of biomass, solar and wind remained fledgling at 1.5-percent; 1.3-percent and 0.7-percent. It could also be gleaned that coal plants' installed capacity had gone up by 630 megawatts last year to 8,049 megawatts (MW) from 7, 419MW in 2016.

For renewable energy, capacity addition was relatively lean in 2017 at just 121MW to 7,079MW from 6,958MW in 2016, with the capacity shoring up mainly coming from hydro and the non-conventional RE technologies.

Natural gas installed capacity reckoning was relatively stable at 3,447MW last year from the previous year's 3,431MW; while for oil-fired power facilities, installed capacity climbed to 4,153 megawatts from 3,616MW in 2016.

Overall, the country's installed power capacity on nationwide basis had expanded by 1,305 megawatts last year to 22,728MW from the 2016 level of 21,423 megawatts.

In terms of dependable capacity, the energy department placed it at 20,515MW nationwide in 2017 from the year-ago level of 19,097MW.





#### COMMUNICATION: A KEY TO PERSONAL AND CAREER SUCCESS

Yhella N. Miraran Human Resource Officer

Consistent with the Institute's thrust of providing an avenue for professional growth and career development, the Human Resource and Development Department provide held an onsite on "Effective seminar Business Communication" last April 4, 2018 at IIEE National Office, Cubao, Quezon City. It was attended by probationary and regular employees who are eager to acquire relevant knowledge and information on business communication, particularly in writing letters and memos that are part of their everyday undertakings.

Apart from the interactive discussion during the seminar, the speaker provided workshops to employees to apply the knowledge they have just acquired from the seminar; likewise the application of their learning to become productive and to effectively serve the members and stakeholders. Among the workshops are: domino effect in business writing (group) and most common business usage errors (individual).

Behind this successful seminar is Dr. Ronald M. Henson, a Communication Consultant, book writer, education and Professor at the University of the Philippines-Manila and Polytechnic University of the Philippines-Sta. Mesa.



Mandurriao, Iloilo City - The 19th Western Visayas Regional Conference held last 27-28 April 2018 at Iloilo Convention Center. It was headed by Western Visayas Regional Governor Andrew Zepeda. Present in the conference were delegates from the provinces of Aklan, Antique, Capiz, Guimaras, Iloilo and Negros Occidental.

The event was started by an astounding doxology followed by the national anthem and the IIEE hymn. It also gives an excitement to all delegates to witness the Dinagyang festival during the event. The total number of delegates reached 339.

In fast tracking the registration and renewal of its member, the organization tapped the QR Code facilities of Digital Global Software Inc. (DGSI). Also, the latter introduces the Exhibitors' Mobile Application as a tool to digital business matching.









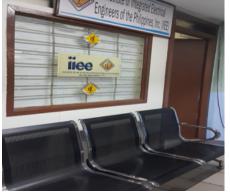




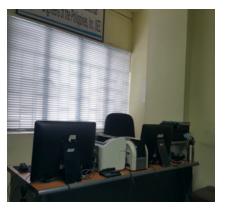
#### REFURBISHMENT OF THE IIEE MANILA SATELLITE OFFICE

Ramil R. Tan Executive Director

Manila – to provide a better office environment and experience to the general membership transacting and doing business in the IIEE Manila Satellite Office in Morayta, Sampaloc, Manila, IIEE effected the improvement and refurbishment of the said office. Finally, the once cramped space was turned into a visible IIEE Office with a more functional and leg room to accommodate members transacting therewith.







#### DOE MAY SNATCH ERC'S "LICENSING ROLE" ON RETAIL POWER SUPPLIERS

Myrna M. Velasco (Manila Bulletin) April 12, 2018

With the never-ending dilemmas that the Energy Regulatory Commission (ERC) had been getting enmeshed with, the Department of Energy (DOE) is now intending to take hold of the former's role as a licensing entity for retail electricity suppliers (RES) that shall be servicing the needs of contestable customers or those end-users that can already exercise power of choice on their electricity service preference.

"The Secretary (Alfonso G. Cusi) has already ordered our legal team to look into the law, we can no longer wait for the other agencies. No agency, no company can further delay this," Energy Undersecretary Felix William B. Fuentebella stressed.

He added "trust me, our lawyers are already looking at it," when asked by the

media if such assumption of licensing task for the RES will require amendments in the law.

Fuentebella indicated the initial target of the DOE will be to spearhead RES licensing for retail suppliers under the Green Energy Option Program (GEOP) of the renewable energy (RE) sector, but such could also cover the conventional technologies just to centralize all RES licensing processes in just one government agency.

He stressed "we're looking at the situation right now... we're looking at the law," emphasizing that legal remedies are being studied so the DOE can already dip its hands into this prospective obligation. Some players in the power industry have indicated that RES licensing is a function duly vested upon ERC as could be gleaned under Section 29 of the Electric Power Industry Reform Act. In that particular provision, it was clearly stipulated that "all suppliers of electricity in the contestable market shall require a license from the ERC."

Under the GEOP of the RE sector, however, a customer need not be in the prescribed threshold of customer contestability to be served by retail suppliers, hence, that is the legal opening that the DOE has been basing its forward action on the RES licensing proposition. Industry stakeholders further deem that this latest bout of "role snatching" is just one in the series of tricky matters that have been widening the gap between the chiefs of ERC and the energy department – as both have been wrestling each other out in their tussle over expansion of territories.

Retail electricity licensing in the conventional technology domain had been temporarily snagged because of a temporary restraining order (TRO) previously rendered by the Supreme Court against the Retail Competition and Open Access (RCOA) policy in the industry.

That effectively hampered power retail competition at the 1.0-megawatt threshold level on voluntary basis, because the proposed capacity lowering to 750 kilowatts had likewise been restrained in the high court's order.

That further tied the hands of the ERC in issuing new RES licenses, and while impeded, the DOE issued a Circular intending to "cure the defects" of the ERC rules on the RCOA policy in the sector.

On its initiative to rewrite the power retail competition rules, the DOE somehow gained fortified resolve to take on the RES licensing function and this is a proposal it is keenly advancing now.

EUROPEAN CHAMBER OF COMMERCE IN THE PHILIPPINES AND THE IIEE -PARTNERSHIP IN THE MAKING Ramil R. Tan Executive Director

Makati City, Metro Manila - Despite information that this year 2018 may not be a good year to link-up the European Chamber of Commerce in the Philippines (ECCP) with the Institute of Integrated Electrical Engineers of the Philippines, Inc. as it is already "late" - However, IIEE through the Director of the Exhibit Bureau Engr. Florencio, National Vice-President for External Affairs, is determined to move forward amidst the adverse information. Accordingly, in April 25, 2018, the European Chamber of Commerce in the Philippines (EECP) accommodated the IIEE delegation in their office in Makati City to hear and discussed with the IIEE the details of potential engagement and the parameters of possible partnerships with their group.

Headed by the National Vice-President for External Affairs Engr. Berenguel, accompanied by the IIEE Executive Director Ramil Tan and the Head of the



From the Left : JP Madero, Head of IIEE Marketing, Bong Berenguel, IIEE VP-External Affairs, Ramil R. Tan, IIEE Executive Director, Gerry Constantino, ECCP Director – Projects, Events and Training and Archie Diaz, Manager, ECCP Projects and Partnerships.

IIEE Marketing Department JP Madero, IIEE discussed all details of the IIEE to the ECCP – highlighting for the purposes the potential advantages of the purported partnership with the ECCP. ECCP was represented by Mr. Gerry D. Constantino, Director for Project, Events and Training and Mr. Archie H. Diaz, Manager, Projects and Partnerships.

The partnership will showcase the European products and services to the IIEE's 3E Exposition and even the conventions and such other details of engagement which the European products and services may be required. After various exchanges of ideas and principle, the two parties agreed on the mutual beneficial results the partnership will provide thus approving in principle the necessity to have a formal partnership between ECCP and IIEE. Pending the signing of a formal Memorandum of Agreement which was approved in principle – ECCP provided an assurance to work and support the 3E XPO of IIEE come November, 2018. And to bring in European Exhibitors to the 2018 expo of the IIEE.

#### NGCP SECURES MORE ANCILLARY SERVICES WITH GENCOS

Danesa Rivera (The Philippine Star) April 2, 2018

MANILA, Philippines — The National Grid Corp. of the Philippines (NGCP) has secured more ancillary services to ensure power supply in the Luzon and Mindanao power grids until 2022.

The Energy Regulatory Commission (ERC) has granted provisional authorities (PAs) on NGCP's ancillary services procurement agreements (ASPA) with several power generators.

Ancillary services (AS) are necessary to support the transmission capacity, maintaining reliable operation of the transmission system and electricity supply in the grid.

In Luzon, the ERC approved NGCP's applications with First Gen Hydro Power Corp. to ensure the reliability of the Luzon grid. The grid operator's AS with First Gen will be sourced from the two-unit Pantabangan hydroelectric power plant (HEPP) which has a total rated capacity of 120.8 megawatts (MW).

The deal covers up to 45 MW each unit of regulating reserve (RR) rate at P3 per kilowatt-hour (kwh), up to 45 MW contingency reserve (CR) at P2.25 per kwh rate, and up to 60 MW each unit of dispatchable reserve (DR) amounting to P1.25 per kwh.

RR is the capacity allocated to cover inter and intra-hour variations in demand. CR refers to the capacity allocated to cover the loss or failure of a generating unit or a transmission line in order to maintain balance between generation and load. DR refers to the generating capacity that are readily available for dispatch in order to replenish the contingency reserve service whenever a generating unit trips or a loss of a single transmission interconnection occurs

Meanwhile, the power regulator has also cleared NGCP's two ASPAs with Therma Marine Inc. (TMI), which operate two power barges called Mobile 1 and 2, each with a rated capacity of 100.33 MW in Maco, Compostella Valley and Nasipit, Agusan del Norte.

Under the deal, TMI will provide ancillary service of up to 48 MW each from both Mobile 1 and 2.

The deals will ensure secure power supply and competitive electricity prices in the Mindanao grid until 2022.

Based on the ERC approvals, the applicable rates for the ASPA would be P2.25 per kwh for the CR and P1.25 per kwh for the DR.





## APRIL 2018 NEW BOARD PASSERS

Marc S. Mabingnay Senior Membership Staff

Manila, Philippines – A month long celebration calls for all the successful board passers: Professional Electrical Engineers (PEE), Registered Electrical Engineers (REE) and Registered Master Electricians (RME).

Our very own incumbent Regional Governor Engr. Marie Sanita Fuertes of Western Mindanao passed the technical evaluation for the upgrade to Professional Electrical Engineers.

The Board examinations were conducted nationwide last April 17 & 18, 2018 for the REE and April 19, 2018 for RME, with the total number of 1,315 passers out of 2,523 examinees, an equivalent to a passing rate of 52.12%.

The board topnotchers of April 2018 REE licensure exams is from the University of the Philippines – Los Baños, Engr. Kevin Restubog Relleve garnering the average of 92.75% while the Bohol Island State University–Tagbilaran topped the RME licensure exam, Jayson Butad Bonajos with the average rating of 93.00%. Likewise, it is with great pride and honor to claim that officers of IIEE – Council of Student Chapters placed in the 9th Engr. Sena Marie Anota Kuzhuppilly and 10th place, Engr. Kiesha Pamelle Aledro Cebuano for the REE examinations.

The passers are set to take oath on May 19, 2018 at the Philippine International Convention Center (PICC), Pasay City while the registration proper of IIEE and Professional Regulation Commission's (PRC) will run from April 30, 2018 to May 09, 2018.



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#### EFFECTIVE INTERNAL AUDITING TO ISO 9001:2015

Kristine Bernadette J. Llamas Paralegal

One of the most important objectives of an internal quality audit is measuring the effectiveness of an organization's quality management system. For this to happen, a strong and effective internal auditing skill is a must for the management to converge in maintaining a system regarding quality policy, goals, resources, processes and effective performance – including monitoring and measuring the system's effectiveness and efficiency.

Engr. Romeo M. Ramirez, PEE, IIEE member and ISO Consultant spearheaded the training on Effective Internal Auditing to ISO 9001:2015 last April 11-12 at the IIEE National office. The training was attended by all Department Heads, ISO Team and process owners whose skills in internal audit was honed by a comprehensive theoretical discussion and workshop on mock auditing and internal audit report writing. The training combines the ISO 9001:2015 requirements and implementing rules. It also provided an indepth understanding of the standard and the best practice methods to implement within IIEE.

## IIEE HOLDS SEMINARS FOR MEMBERS

Mary Ann B. Guillen PI & MIS Department Head

In support of IIEE members need for trainings and seminars, the IIEE Professional Training & Development Committee (PTDC) scheduled 2018 seminar programs in line with RA 10912(CPD Law) to be conducted at at the IIEE National Office.

On April 13 to 14, 2018 a seminar entitled Applied Short-Circuit Analysis in Commercial and Industrial Power System, with Engr. Vincent E. Jimenez as resource speaker, was attended by 26 electrical professional participants.

Also, on April 14 & 21, 2018, Hon. Jaime V. Mendoza, BEE Member, shared his expertise to the 29 attendees of Electrical Grounding and Bonding based on PEC 1 2017. "How we treat electricity determines how safe it is," where the challenging words from Hon. Mendoza not only to the seminar attendees but also to all electrical practitioners



Engr. Vincent E. Jimenez conducting the "Applied Short-Circuit Analysis in Commercial and Industrial Power System" seminar



Engr. Jaime V. Mendoza conducting the "Electrical Grounding and Bonding" seminar



#### IIEE ONLINE SERVICE PROVIDER...

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braving the long lines for registration, renewal and payment of fees.

True to the saying that "Our Members Convenience and Satisfaction is What We Provide" which is also thrust of IIEE's vision and mission, the IIEE members, IIEE leaders from different Committees in its commitment to provide better services partake to take the leap to address the long overdue problem by adopting the digital form of payment.

Addressing these concerns, IIEE formalized its partnership with DragonPay and Bayad Center providing for the purpose an online payment system and mechanism that is not only comprehensive but also convinient for all.

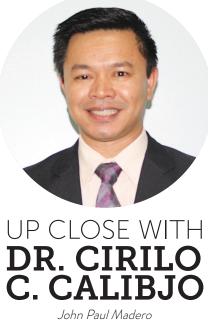
Now, we provide convenience and easier way to our members to pay registration fees, membership renewal, request of COGS and etc. thru our Online Payment Provider Dragon Pay and Bayad Center.

Dragonpay provides an alternative channel for purchasing goods or services from the Internet. Our online payment solution allows member and participants to conduct e-commerce without the use of traditional credit cards or PayPal, which have very low penetration in developing countries such as the Philippines.

Instead, participants can pay for their fees through the following means:

#### Online Banking Over-the-Counter (OTC) Banking Over-the-Counter (OTC) Non-Banks

With our partnership with Dragon Pay and Bayad Center, payment transaction will much be easier and hassle free! Come join us, participate and support our online payment solution.



John Paul Madero Head, Marketing Department

True to its dictum, the difference between possible and impossible lies in a man's determination.

Coming from a less privileged family, with no father to depend on, Dr. Calibjo never imagined himself becoming an engineer one day. After finishing high school, he aspired to pursue Accountancy, thereafter learning that his first-choice of course is not included in the government program Study Now Pay Later (SNPL), he then decided to apply in BS Civil Engineering. Influences matter, knowing that one of his neighbours in his humble community is into Electrical Engineering; he decided to pursue Electrical Engineering. Through grant and scholarships, he finished his university degree and finished cum laude.

For him, having a University degree never stand alone, it must involve continuing. So he decided to study further and took Masters of Science in Electrical Engineering and Doctor of Philosophy in Electrical Engineering at University of the Philippines Diliman.

Dr. Calibjo worked in various universities. He has been a faculty member of the Electrical Engineering Department of Central Philippine University, Iloilo City, Chairman of the Software Engineering Department, Dean, College of Computer Studies and currently as Dean of the College of Engineering and Architecture, Angeles University Foundation, Angeles City. He also serves as a consultant in different institutions and companies and Design and Project Engineer in various projects in his field of practice.

#### As IIEE National Vice-President for Internal Affairs

As National Vice-President for Internal Affairs, he always thinks of the welfare of the IIEE Members. He never stops on thinking on how things be done in convenient way. Even when he was the National Treasurer, he introduced different innovations to fast track all the transaction in the National Office.

He also focused in the promotion and upliftment of the qualification of every Master Electrician and Electrical Engineering professionals gearing towards internationalization. For him, it is the right of every member to be updated of the activities and initiatives of the Institute.

The latest transformation of the IIEE national office, the membership friendly policies and programs, were all brainchilfren of the ever dedicated Dr. Cirilo Calibjo.

#### Preparation for Annual National Convention...

Being Chairman of the Convention Bureau is not an easy task for him. Different preparations are needed towards the completion of the Annual National Convention. As the "Calibjo trademark" of perfection, timeliness, innovation and decorum extensively affects the way how the IIEE national office moves. This year's Convention preparation is way ahead of the schedule. Direction is clearly defined, details are clearly emphasized and attended to with dispatch providing for the purpose an avenue of clarity, cohesiveness, practical and technically well prepared – another feat defining how and what is IIEE is today.

This year's holding of the convention is setting another bar for the IIEE. The 43rd Annual National Convention will be more technologically savvy than previous ones as the registration will be made purely online. With the advent of the IIEE's newest online payments innovations through its partner DGSI – Dr. Calibjo makes it a point that everything is calculated, every act are deemed beneficial to all the members, and that at the end of the day, members are all served with a smile and with the best experience possible.



Volume III April 2018

## ITEE HIGHLIGHTS





# THE MANGO ISLAND CAPITAL

Ramil R. Tan Executive Director

Buenavista, Guimaras – Finding some time during the Western Visayas Regional Conference in Iloilo City, we went to the Island Province of Guimaras, mainly to visit and see the San Lorenzo Wind Mill Farm where some of the IIEE Officers were involved. With the pristine beauty of the island albeit under developed as expected, our hearts were captured by the uniqueness and beauty of the island.

Guimaras is an island province in the Philippines located in the region of Western Visayas. Among the smallest provinces, its capital is Jordan. The province is situated in the Panay Gulf, between the islands of Panay and Negros. To the northwest is the province of Iloilo and to the southeast is Negros Occidental. The whole island is part of the Metro Iloilo-Guimaras, one of the twelve metropolitan areas of the Philippines. The province consist primarily of Guimaras Island, and also includes Inampalungan, Guiwanon (or Guiuanon), Panobolon, Natinga, Nadulao and many surrounding islets. Geologists have concluded that the island once formed one landmass with Panay.

Guimaras, formerly known as Himal-us, was a sub-province of Iloilo until it was made an independent province in May 22, 1992. (*Wikipedia*)

Guimaras is not only known for its magnificent beaches and camp sites, the province is also very popular with its Mangoes, touted as the sweetest Mangoes in the planet.

From the mainland of Panay in Iloilo City, we took a big pump boat to the island via the Buenavista pier. It took us a little over 15 minutes to cross over Panay Gulf from the Iloilo pier to Buenavista, Guimaras.





Photo From : The Philippines.com

