ABET Grants CE and EnSE Engineering Accreditation

by Clement F. Faiardo

After extensive preparations and thorough measures, the Engineering Accreditation Commission of ABET, Inc., has accredited two programs of the School of Civil, Environmental and Geological Engineering (SCEGE). SCEGE received a letter of final statement from ABET informing it that, as of August 19, the programs Bachelor of Science in Civil Engineering (CE) and Bachelor of Science in Environmental and Sanitary Engineering (EnSE) have been accredited.

The new name of the school is School of Civil, Environmental and Geological Engineering (SCEGE). Dr. Francis Aldrine A. Uy has been named dean of SCEGE, while professor Marianne V. Fernandez remains the officer-in-charge of DESE.

Initiated by DESE, the merger was a move thought to help strengthen the Institute’s Geology programs for ABET accreditation in the future. With the common good of both the school and the department in mind, CE-EnSE accepted the proposal of DESE.

“Since Geology is very much related to Civil Engineering, the unison between the two will strengthen our competency as a school both in academics and research,” said Dr. Uy.

The academic council covered the merger with Mapúa president and Chief Executive Officer Dr. Reynaldo B. Vea and Executive Vice President for Academic Affairs Dr. Bonifacio T. Doma Jr. arbitrating the discussion. Convening twice every term, the academic council focuses on various discussions regarding matters of accreditation, continuous quality improvement, research, school policies, guidelines, upcoming events, and academic reports.

The new name of the school and logo were presented on August 24 during the academic council meeting. While the new name has already been approved, the logo is still undergoing revisions and subject for approval.

SCEGE’s long-term goals include international accreditation and research collaboration, international faculty and student exchange programs, global engineering mobility for Mapúan engineers, and internationally recognized faculty researchers.

In an interview with The Cardinal Bridge, Dr. Uy said the merger will allow for more efficient operations and use of resources as well as open new opportunities for the new school. "The merging strengthens the academic and research capability of the school. This will open doors for local and international research projects,” he said.

DESE Merges with CE-EnSE

by Ralph Joseph S. Ilano

The School of Civil Engineering and Environmental and Sanitary Engineering (CE-EnSE) has officially merged with the Department of Earth and Science Engineering (DESE) in the first quarter of the School Year 2011–2012. The new school now bears the name School of Civil, Environmental and Geological Engineering (SCEGE).

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Dean Uy Joins International Conference

by Joylyn M. Dela Cruz

In line with Mapúa’s vision to be known globally as a center of excellence in education, the dean of the School of Civil, Environmental and Geological Engineering (SCEGE), Dr. Francis Aldrine A. Uy, participated in the 9th Eastern Asia Society for Transportation Studies (EASTS) Conference held at the International Convention Center Jeju in Korea from June 20 to 23.

During the conference, Dean Uy presented his three research papers dealing with risks involving motorcycles in the Philippines. His papers were titled “A Study on Motorcycle Rider Characteristics and Behavior in Metro Manila,” “Characteristics of Motorcycle Riders at Traffic Control Devices,” and “An Analysis of Crashes Involving Motorcycles.” "The merging strengthens the academic and research capability of the school. This will open doors for local and international research projects,” he said.

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Dr. Senoro Joins SIDA’s Training

by Joylyn M. Dela Cruz

Dr. Delia B. Senoro of the School of Civil, Environmental and Geological Engineering (SCEGE) has been selected as one of the participants in the two training programs of Swedish International Development Cooperation Agency (SIDA).

Dr. Senoro is part of the International Training Program (ITP) 258, or “Strategies for Chemicals Management,” organized by Swedish Chemicals Agency. The first stage of the training took place in Sundbyberg in Sweden from March 6 to 29. The participants will meet again in Bangkok, Thailand from November 14 to 18 for the second stage of their training.

Aside from ITP 258, she is also participating in ITP 257, or the “Education for Sustainable Development in Higher Education” program. The first stage of the training was held in Stockholm and Gothenburg in Sweden from May 2 to 13. The second stage will take place at Tongji University in China from October 24 to November 4.

“In this globalization stage, we need to have a higher training. We need to constantly update and keep abreast with other countries. To be competitive enough, we could get those technologies and bring it here to uplift the Institute and the country,” Dr. Senoro said.

Dr. Senoro has also been chosen as the country’s representative to Asian Network Environment Research and Energy in Incheon, South Korea. SIDA is Sweden’s government agency that aims to fight world poverty. SIDA’s goal is to contribute to making it possible for poor people to improve their living conditions. Its training programs are designed to provide capacity and institutional development to participants from developing countries in several thematic areas, including environment and natural resources.

Dealing with Road Crashes Involving Motorcycles in Metro Manila and Other Selected Cities in the Philippines,” and “Study on the Vulnerability of Motorcycle Riders to Various Road Environmental Factors.”

More than 600 delegates from different countries attended the conference. Dean Uy’s participation has shown that Mapúa is one of the finest research-conducting engineering schools in the Philippines.

EASTS’ biennial conference serves as a global symposium for the exchange of expertise and information on various issues regarding transportation. The event also aims to promote research activities and cooperation among researchers, engineers and government officials.

From Page 1

Support our very own Dean FRANCIS ALDRINE A. UY, PH.D., nominee in the 2012 PICE National Board of Directors Election for the Academic Sector to promote outcomes-based education towards global engineering mobility! Viva Mapúa!
Bachelor of Science in Environmental and Sanitary Engineering (EnSE) have been granted accreditation by the organization.

**The Accreditation**

Dr. Stephen Shelton and the late Dr. Larry Esvelt, the ABET accreditation evaluators for CE and EnSE programs, respectively, lauded the programs offered by the school during their visit.

Dr. Shelton was happy about the students’ eagerness to learn, and commended not only the academic advising but also the peer advising of the Institute. Moreover, he was impressed by Mapúa’s CE program, praising its highly competitive environment, excellent field laboratories and high-technology advancements.

For the EnSE program, Dr. Esvelt praised its faculty and on-the-job training (OJT) programs, which all contributed greatly to the students’ growth and development.

**Preparations for the Accreditation**

Prior to the visit of the evaluators, SCEGE made sure that its CE and EnSE programs met all the requirements for ABET accreditation. The accreditation criteria include Students, Program Educational Outcomes, Program Outcomes, Continuous Improvement, Curriculum, Faculty, Facilities, Support, and Program. SCEGE dean Dr. Francis Aldrine A. Uy, Dr. Delia B. Senoro and Engr. Fibor J. Tan were actively involved to ensure that the school complied with the requirements.

“I’d like to congratulate the school for a job well done because both programs are now ABET accredited, and I would want to commend the faculty, students, and the administrators of the school for pushing through with the accreditation. Congratulations, team Mapúa!” said Engr. Conrado V. Navalta, director of the Continuous Quality Improvement Office.

**Improvements in the Programs**

In line with the continuous quality improvement of the two programs, SCEGE has strengthened its Program Outcomes assessment and evaluation by using a computerized grading system. Under this system, professors will not only use the students’ grades as a basis of their learning and improvement, but also their performance in the courses’ outcomes to gauge their understanding of the lessons discussed. The faculty, grouped in clusters based on their fields of expertise, carries out Focused Group Discussions (FGD) wherein each member will share and find techniques in improving his/her respective course.

Moreover, SCEGE possesses the most advanced and updated equipment used in today’s industries as it continuously updates itself with new technologies.

“In 10 years, we will become a global player. Both the faculty and students would be seen presenting their researches on an international level. Through ABET, we want our Filipino engineers to be competitive in the market. One cannot confine themselves in a single country. It’s all about engineering mobility,” said Dean Uy.

Special thanks to Drs. Juancho and Rodelene Tan and Family

Dr. Juancho C. Tan is a Cardiologist of Philippine Heart Center (PHC)

Contact#: (02) 925 2401 loc. 3612
(0917) 242 1588

## Ivan Marquez Tops CE Board Exam

*by Andrew Serrano*

A Civil Engineering (CE) graduate has made it to the top 10 of the May 2011 Civil Engineering Licensure Examination, another feat that brought honor to Mapúa. Engr. Ivan Dela Llana Marquez placed eighth in the exam, with a rating of 92.80%, the School of Civil, Environmental and Geological Engineering (SCEGE) has announced.

Mapúa scored well in the May 2011 board examination, achieving a high 52.74% passing rate. The CE board’s national passing rate was 38.34%.

With a goal of achieving a rating of 100% in the exam, Engr. Marquez prepared himself by solving 90 to 350 problems a day for six months. In an interview with The Cardinal Bridge, he stated the importance of practicing problem solving and focusing on one’s goal.

“Even if you are not in the top of the class, you can still stand out in the board examination. It just depends on how strong your will is. [You have to have] focus. Disregard what the pessimists say,” he shared.

Engr. Marquez, who is now part of Mapúa’s long list of topnotchers, is currently a faculty member of SCEGE. He said he joined SCEGE because he wants to share his knowledge with his fellow Mapúans.

## ABET Grants...

Ivan Marquez Tops CE Board Exam
Power Speak

Communication is the key to every successful endeavor. A smart handshake is as powerful as an extensive discussion of a business plan. Any form of communication serves great deal of purpose. But what if the vessel of thought falls on deaf ears?

The professional field provides an endless supply of opportunities that may either bring success or failure in any endeavor. You may find yourself quarreling over petty things or bigger matters if communication is inexistent. On the contrary, its presence provides endless possibilities. You could build bridge beyond the norm. You can make a world of a difference. The whole system may well improve your total being.

Academia also houses a wide array of communication ties that strengthen any school. Teachers seem more potent when exchange of ideas is spread through every room. On the other hand, students should share their insights when it is needed. The professional field provides an endless supply of opportunities that may either bring success or failure in any endeavor. You may find yourself quarreling over petty things or bigger matters if communication is inexistent. On the contrary, its presence provides endless possibilities. You could build bridge beyond the norm. You can make a world of a difference. The whole system may well improve your total being.

The worst thing in communication is assuming something of a business plan. Any form of communication serves great deal of purpose. But what if the vessel of thought falls on deaf ears?

The professional field provides an endless supply of opportunities that may either bring success or failure in any endeavor. You may find yourself quarreling over petty things or bigger matters if communication is inexistent. On the contrary, its presence provides endless possibilities. You could build bridge beyond the norm. You can make a world of a difference. The whole system may well improve your total being.

There are various ways of making a world of difference through communication. Oral activities bring the reality out of the mind. Visual reactions come forth from sensual pictures of truth and love. Sometimes, the power of the subconscious and the unseen becomes stronger than any other communicative tools. Distance, knowledge level, race and age are irrelevant. What matters are the thought process and the motive.

Communication all boils down to one — start from self. Since communication is a two-way street, it is necessary to be there when the crossing of the road to elegance is ongoing. Otherwise, major plans of improvement will be null and void and the purpose is defeated.

Words or no words, your mind will speak for yourself. Are you ready to speak your mind out?
MESSAGE FROM THE OFFICE OF THE PRESIDENT

I wish to congratulate the School of Civil, Environmental and Geotechnical Engineering (SCEGE) for conceptualizing and actualizing the publication of The Cardinal Bridge (TCB). I share with you the joy of being able to come out with a maiden issue.

The sharing of information about the School and the Institute by means of such a publication is surely for the good of everyone. TCB will be an empowering and unifying medium for all concerned. I hope that everyone will be active in supporting it.

Mabuhay!

Reynaldo B. Vea, Ph.D.
President

MESSAGE FROM THE OFFICE OF THE DEAN OF SCEGE

What the school offers is analogous to a bridge. A bridge provides passage for development. It offers hope for a progressive future. It links and unites lands and its people. It provides access towards new knowledge and wisdom. A bridge has its different forms but its purpose is essential. Our programs, its curriculum, are strong like the foundations of a bridge. The bridge deck, the battle field is like the school grounds and laboratory facilities. The trusses together with the foundation carry the loads and can be liken to our competent faculty members taking good care of their teaching loads.

Let us welcome a new bridge, the Cardinal Bridge! Our way to communicate and tell the world of the Filipino ingenuity that is bridged by Mapuan excellence towards a progressive and sustainable future.

To TCB staff, thank you for the incomparable dedication and hard work! Viva Mapua! Viva Cardinal Bridge!

Francis Aldrine A. Uy, Ph.D.
Dean, School of Civil, Sanitary and Geologic Engineering

MESSAGE FROM THE OFFICE OF THE EVPAA

Greetings!

I would like to congratulate the School of Civil, Environmental, and Geotechnical Engineering for the maiden issue of this newsletter. Recently, the School’s programs, Civil Engineering (CE) and Environmental and Sanitary Engineering (EnSE), have been granted accreditation by ABET, the US-based accreditation board for Engineering, Technology, and Applied Science. The core requirement of this accreditation system is the successful implementation of an outcomes-based educational (OBE) system, which assesses and evaluates student outcomes. I believe that the driver for an effective implementation of OBE is effective communication among constituents: the need to communicate the program’s OBE framework, outcomes, performance indicators, assessment and evaluation plans, and the school plans and activities to students, faculty, and alumni is not only rudimentary, but crucial. It is in this regard that I find this newsletter not only as a tool, but a link.

Congratulations!

Bonifacio T. Doma, Jr., Ph.D.
Executive Vice President for Academic Affairs

MESSAGE FROM THE ADVISER OF THE CARDINAL BRIDGE

The Cardinal Bridge (TCB) is intended to paint SCEGE’s bridge RED. One of its objectives is to Remind the students, faculty and alumni of our glorious history, dynamic present, and bright future - thanks to the Mapúa Administration headed by President R.B. Vea, for their determination to put us at par with international standards through ABET. TCB is aimed to Encourage everyone to be involved and to be a contributor to our School’s success stories. The paper will Drive our students and faculty to do their best and be in the headline with their medals and trophies!

TCB will never come to reality without the voluntary initiative of the pioneer TCB staff whose names are worth to be mentioned again and again – Venz, Arriane, Clem, RJ, Joylyn, Andrew, and Sir Edgar. Thank you.

Special thanks are due to the Corporate Communications office of Mapúa headed by Ms. Arlyn Onte for their unwavering support and guidance.

Fibor J. Tan
Adviser, The Cardinal Bridge
Earth Steward

The earth does not belong to man; man belongs to the earth. This we know. All things are connected, like the blood which unites one family. All things are connected. — Anonymous

I am Earth’s mighty land steward. The soil beneath my feet speaks of the past, the present and the future. Earthworks serve as my key to finding its hidden treasures. My energy serves as the foundation of structures. Nothing will arise without the materials I provide, nor will please any woman without the glory of my precious stones. Earth will be a much simpler place to live in with me, the Geologists, by your side.

These land stewards live mostly amidst the vast area of the Earth, searching for pathfinder minerals which lead him to the most precious elements found here on the planet. He feeds on the Analysis of Geological Structures along with Geophysics and Geochemistry to find these precious stones. Day to day, these masters of the Earth study this planet’s Tectonics, Geological Setting and Rock Compositions in order to understand every land’s historical make-up and evolution.

From the earliest beginnings of the Green Planet to the Cretaceous age of the Philippines, the range of knowledge these geologic professionals is one of the greatest tools that guide engineers in their field of expertise. Similarly, the choice of strata to build a structure and technical advice on land evaluation are the Geologist’s brain child. He may even make a way for planned skyscrapers to stand on shaky grounds by using his unique methods. Moreover, he does not just find minerals to mine and buildings to build. He knows how to take care of his Earth. When man has made another earthly mistake, he calls the Earth Stewards to aid the cause.

Wind Bender

A great wind is blowing, and that gives you either imagination or a headache. — Catherine the Great

Roads and pathways are worthless if there is no destination. Roads, buildings and skyscrapers cannot be built without proper supervision. It is up to you to rise to the skies and stretch across the horizon. You blow the horns of the ship and you control where the wind takes you. You are the Construction Engineering Manager.

CEM is practically a fun mix of technical study on structures and a diverse take on construction management. Squires and apprentices who graduate from this degree are on the front line with their knowledge on the fundamentals of Structural and Construction Engineering Design and Analysis. Brandishing their basics on Material Testing, Quality Assurance and Building Systems, they send great improvements on Construction Technologies but still demonstrate deep understanding of Management Principles and its applications.

Water Bearer

Water is the driver of Nature. — Leonardo da Vinci

Soothing, Refreshing, Depleting. One abundant elements in this planet is on an erratic roll with the emergence of industrialization and global ideas that the environment will always be on auto-heal. Mother Earth is SICK, and she needs major medication! Bring in the Water Bearers, the green works are laid out for implementation with them at the helm. At guard, they are environmental Engineers. The green works are on the run to mend Gaea’s wings; they develop a project plan, a project budget, a project schedule. With their knowledge, they are theesters and estimators who ensure the project is completed within the specified time. They are the supervisors who ensure the project is completed within the budget.

Restoration and Rehabilitation are on the agenda. They are the environmental Engineers. They are the project managers who ensure the project is completed within the specified time. They are the supervisors who ensure the project is completed within the budget.
Fire Starter

*Man is the only creature that dares to light a fire and live with it. The reason? Because he alone has learned to put it out.* — Henry Jackson Vandyke, Jr.

Imagine yourself stuck in a desert island. You’re all alone with nothing by your side but a barren palm tree. What is the first thing you opt to do? I say build a shelter. Then build a fire. (Then a coconut companion if you’re starting to feel crazy). It is in these endeavors that give meaning to the world of the civilized. Pack it in and let the Civil Engineers come marching in.

So why is Civil Engineering called “Civil” in the first place? The name itself boasts of the incorporation of the development of life and the evolution of human environment, which all together gives the “C” to “CE.” Fire is life. It symbolizes the ever-growing civilization of man. So is Civil Engineering. Can you imagine a structure without the understanding of different theories of structural analysis, the backbone of reinforced concrete designs, and the power of strength of materials? Will the busy life of man be hindered under transportation engineering, obstructed in the absence of fluid mechanics and endangered without safety engineering?

Civil Engineering unveils a diverse stretch in the professional field. Designers are on the evolution train as they theoretically plan or practically bend steel, concrete, and raw materials to produce the best results to satisfy clients. Safety engineers and quality assurance/control engineers keep the standards at par for everyone’s safety deserves. Be that as it may, Fire Starters will forever be under constant knowledge in the development of improved structural systems, keeping the fire burning in the civilized world we call our own.

Water Bearer

*Water is the driver of Nature.* — Leonardo da Vinci

Soothing. Refreshing. Depleting. One of the most abundant elements in this planet is on an erratic roll with the emergence of industrialization and globalization. Wash the idea that the environment will always be on auto-heal. Mother Earth is SICK, and she needs major medication! Bring in the meds crew and put that bandage on. Environmental engineers are running to mend Gaea’s wings.

The healers of the engineering world blend with the ecosystem of globalization to push through with their objective of providing social development and environmental stability in a larger scale. They safeguard our Green Rock with the guidelines of environmental impact assessment. With quantitative and baseline data output (within a boundary system), the balance of communal and environmental ideologies are assured. Put in capstone courses (i.e. design courses, projects, thesis or dissertation), and they have themselves a slot on the driver’s seat.

Restoration and rehabilitation are on the top of the list of environmental engineers. The green works are laid out for implementation with them at the helm. At guard, they prepare every change of outlook, development of thinking, transformation of attitude, and adjustment of cost, production and consumption in earthly resources. These water bearers are geared up to face the challenges of the future.

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“North Luzon and the Philippine Sea Plate motion model: Insights following paleomagnetic, structural, and age-dating investigations”

Karlo L. Queño, Jason R. Ali, John Milsom, Jonathan C. Aitchison, and Manuel Pubellier

We all know that the entire world started about 4.5 billion years ago as one supercontinent called Pangaea. However, since the Philippines is located at the Pacific Ring of Fire, it is tremendously difficult to provide a reliable history of the islands. Dr. Karlo L. Queño’s research discusses the results of one of the most comprehensive paleomagnetic and supporting geological programs ever conducted on North Luzon, Philippines.

For decades, various workers modeled the Luzon and Philippine Sea Plate evolution in quite different ways. This freedom is very likely a result of the limited information available for northern Philippines. Thus, a major investigation was carried out on rocks from Northern Luzon to provide information that might be used to constrain the models for the tectonic development of South East Asia, particularly the Cenozoic motion of the history of the Philippine Sea Plate.

Paleomagnetism, a geophysical tool that utilizes remnant magnetization of magnetic minerals, was used to give information on where Luzon block formed relative to the equator and Luzon’s possible rotation. It suggested that Luzon occupied low, subequatorial latitudes for a reasonable portion of the early Cenozoic. Starting from the late Oligocene to early Miocene, Luzon moved northward by 10 - 15°, concluding that Luzon’s motion history closely resembles that of the Philippine Sea Plate. This, along with geological data, suggests that Northern Luzon and other neighboring regions of the Philippine archipelago were evolving with the plate during most of Cenozoic.

With a Philippine Sea Plate origin, this study considers arc development for Luzon as being attributed to a “permanent” east directed subduction. This contrasts with the long-held view of an “arc polarity reversal” origin for Luzon.

“Water Level Assessment of Napindan Channel Relative to Laguna Lake Watershed Rainfall Intensity Using Hec-Ras”

Sheryll A. Cordero, Anielou P. Paras, Venz Jan P. Salvador and Engr. Fibor J. Tan
Published September 2010

Extreme cases of rainfall and storm water runoff have always been global concerns. Together with the water levels of different bodies of water around the globe, the hydrological relationship of precipitation and existing water bodies poses a bigger environmental, economic and social threat.

In 2009, typhoon Ondoy posed such threat with its heightened rainfall intensity on a very critical body of water in the Philippines – the Laguna Lake. As such, the typhoon’s effect on the Napindan Channel, the only outlet of the lake towards Pasig River, has brought alarm to surrounding communities. During the height of the storm, water level of the tributary rose to about 14.5 meters, and may well have gone higher until the end of the year, according to the Laguna Lake Development Authority.

This study presented the degree of water level rise hazard at Napindan Channel relative to direct rainfall intensity. The recent typhoons, which caused flooding and afflicted major damages in properties and lives in Metro Manila, Pasig and Marikina, brought to concern the flood control and drainage system within the aforementioned area. The Napindan Channel is the only major outlet of the Laguna Lake watershed where the bulk of this watershed’s precipitation is discharged. As such, this study aims to assess the variation in the water level along Napindan Channel with respect to the various peak precipitation rates.

Furthermore, it is important to determine the extent of hazards of inundation due to high levels of direct run-off from high intensity precipitation. The water level in the Napindan Channel relative to rainfall intensity is determined using the steady flow simulation in HEC-RAS applying normal depth boundary condition. Flow profiles are established using peak discharge rates from Snyder’s Unit Hydrograph for a single event and RIDF for Q5, 10, 25, 50 and 100. Simulation shows water levels exceeding the boundaries of the channel even for the assumed channel design discharge of 500cms.
You may not live a thousand years but always aim to live a thousand years worth of accomplishments.”
- Dr. Francis Aldrine A. Uy

Open-minded. Creative. Innovative. The captain sets course towards the seas of globalization as he holds the helm of the School of Civil, Environmental and Geological Engineering (SCEGE). Violent storms could not stop him, and raging waves could not crush his spirit. So bring down the sail, raise the anchors, and get ready to take a ride onboard the world-wide Engineering express.

The Cardinal Pearl
With an impressionable stern look and rigorous disposition, Dr. Francis Aldrine Uy is the epitome of academic perseverance and administrative integrity. His wild ride to the top position sent him through a ravage of wide-ranged challenges. All these he learned to manage with the stability of his upbringing during his humble beginnings.

Native of the Metro and a home-grown of the North, Sir Francis was your average Cardinal student. Lecture-break-lecture was his everyday mental map. House-school-House was his daily route. With his low profile and vice-free routine, he managed to live up to the standards of his Alma Mater.

In spite of his stringent schedule, he also managed to join non-academic organizations, even coming up with his very own musical group and enjoying a few cervesa sessions with his close-knitted family. Nevertheless, his hard work, innate technical skills and discipline lead him to the coveted Cardinal diploma on October 2000.

His rollercoaster ride did not end with the finality of his GWA. Just like any other fresh graduate of engineering, he started rallying his guts in preparation for the board examination. A series of fortunate events started rolling out during his preparations and later eventually brought an unexpected surprise — a budding love from a Cardinal. Balancing the art of love and the challenges of academics, he pushed through with flying colors, garnering the 19th place in the May 2001 CE board exams, and strengthening the bonds with not only the love of his life, but also his foundations in Civil Engineering. These keystones of his individuality paved the way to his path towards professional undertakings.

Viva el Hombre en Baúl
Trudging the ranks of the underlings, he bore witness to the complexities of professional life. His success in the board exams launched his career to an abrupt term in a family-led bridge construction project. However, the life of the academic kept knocking on his treasure chest, and on November of 2011, he returned to his Cardinal Nest and took the role of a mentor to other aspiring engineers.

Handling Strength of Materials, Surveying and Fluid Mechanics, Sir Francis proved to the community that even in the academia, age doesn’t matter. His creative outlook and innovative approach on things led him to impose effectively unique teaching tools. His “Everyday Strength” and trademark quizzes gave him the brand that epitomizes subject-matter know-how.

His stay in the teaching world may still be in its early stages, but it is definitely on a roll. His performance led him to become the department’s Fluids Laboratory Head. Handling the steering wheel, he constituted major improvements in the course, especially in the laboratory guidelines. Eventually, he became the Officer-in-Charge of the then CE-EnSE Department, and now as the Dean of SCEGE.

At World’s Reach
Everything will be well within your reach if you put your mind into it. Add in a twist of creativity and innovation, you got yourself an endless horizon of possibilities. And Dean Uy definitely held onto this ideology with great vigor.

Three years in as the Dean, he has laid out various international collaboration and accreditations, and achievements. He has also launched various local endeavors that have sent waves of victory for the department. As such, the success of the PACUCOA Level IV and ABET Accreditation will always be under his belt of contributions to the Mapúan community.

As part of his commitment to the Institute, his future plans will further expand the reach of the School in international and local fields. More collaborations with universities abroad, faculty exchange deels and international OJTs are all lined up. In addition, further development of faculty profile is on the works to ensure the provision of quality education for students.

Sailing through unknown waters is definitely a challenge, especially through jagged rocks and hidden riptides. Despite these obstacles, he takes all these tasks upon himself in the realization of his hopes for future supremacy. “Our aim is for Global Engineering Opportunity through Global Engineering Mobility,” he said. So as long as the objectives are set, the seas will definitely part for the captain on deck.
Khan Shatyr is the largest structure that rely only on tension of wires (A Tensile Structure) to support its roofing.

Diamonds can now be made in laboratories.

The Salar De Uyuni is the largest salt bed in the world. In the rainy season, it becomes the world’s largest mirror.

The Burj Al Arab was built to resemble the sail of a dhow, a type of Arabian vessel.

Over 100 pesticide ingredients are suspected to cause birth defects, cancer, and gene mutations.

Some environment-friendly wind turbing blades are designed to mimic the flippers of whales.
“IDENTITY” CRISIS!
Some professors had their faces swapped!
But can you recognize them?

HOW TO WIN?
1. Write the name of the professor that you recognize.
2. Submit it to RJ (+639266559694)

The winner gets a chance to have his/her face featured on The Cardinal Bridge!

Disclaimer: These photos were used with the permission of the professors involved. This section serves for the entertainment of the students and not to ridicule the people involved.

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