THE CARDINAL BRIDGE

SCEGE Holds Resource Sustainability Forum

by Ralph Joseph S. Ilano

The School of Civil, Environmental and Geological Engineering (SCEGE) held its first Fund for Engineering Development and Institutional Linkages (FEDIL) forum last January 25 at the seminar room, Mapúa – Intramuros campus.

As part of the week-long celebration of Mapúa founding anniversary, the seminar served as another milestone of the school in terms of delivering its Mission and Vision to the community. The event served as a venue to present various related works to the Cardinal cause. Dr. Delia Senoro presented her lecture on Investi...
T he School of Civil, Environmental and Geological Engineering (SCEGE) professors Engr. Fiber Tan engaged in training on Groundwater Modeling System (GMS) – Model of Groundwater Flow and Transport in Adelaide, Australia last October 4 to 7, 2011. The course provided attendees with the knowledge and tools necessary to solve groundwater modeling problems quickly and efficiently. The software program was developed by Aquaveo. Australia-based Sustainable Industries Resources Training (SIRIT) organized the whole training.

The training is necessary for the effective implementation of the said software in Mapúa – where the software is now part of – related courses in the Institute’s Water Resources and Environmental Engineering programs. The groundwater modeling training is aimed at professionals engaged in the training with similar objectives in mind. Since the event covered the use of SRIT, more attendees came from regions near the training venue.

The training was a hands-on training on Groundwater Flow and Transport using software such as GMS to the students and to other professors as well. According to the organizers, this training may serve a good purpose in the teachings and training. A couple more days were needed to produce graduates that will be competent in the use of the technologies in advance of technology for a more efficient work output. Knowledge in the use of GMS is one example and with the understanding of this software in the related courses, we are more confident that our graduates will be able to deliver efficient results, he said.

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Hall of Glory

Editorial

Be Fruitful and Multiply
Engr. F. J. Tan

Our outcomes-based programs in SCEGE make sure that its graduates are capable and able to practice as successful engineers who promote professionalism for the advancement of our society. This is strengthened by the ABET accreditation of Civil Engineering and Environmental Engineering programs and our Geology and Construction Engineering Management programs are aligned to it.

Students are trained in the school to be fruitful in their chosen field. When an employee asks to design, to manage, or to evaluate and execute a certain project, a Mapian is expected to deliver it in the most efficient way as being a part of a team that will engineer a solution! A Mapian does a fruitful job.

Nevertheless, we are not here on earth perpetually. Who’s going to be the next engineer to build the longest bridge in the world? Engineers should share their knowledge by teaching as we, your professors, do. Another way to impart knowledge to the next generation is by being part of engineering organizations where one can share experiences and recent developments in the field. Continuous education is another venue where you explore your field’s vast store of knowledge, and publish your research outputs and patent new products.

Another exciting way to multiply is to design and make ideas concrete! Translate your capacity into products and services that will give the possibility of exponentially gaining the most out of our talent and skills. That could be possible by having our own firm, not just being a mere employee but the boss of our own consultancy or construction/management consulting company. By this, our talent will be multiplied for our own but for our countrymen as well. Being an entrepreneur in construction or consultancy will definitely create jobs and reinforce our government in building our economy.

Let’s be fruitful in our practice as successful professional engineers and multiply by extending our profession for the advancement of our society.

The Teacher
Engr. Mervin M. Cereno

The teacher must remember that every student is different from any other student. He should not forget that they are seeking degree of intelligence, abilities and temperament. In some instances, even the degree of intelligence is less than what is normally expected in our society. Some may have certain abilities. The structured stage development, emotional stability and moral qualities will greatly differ.

The TEACHER’s challenge is to understand the difference among these students to establish effective learning experiences.

The teacher must understand himself so that he may analyze his own feelings and behavior towards his students. He must have a deep knowledge of his subject. He must have the understanding on how to connect the students and the subject. He must understand how the subject reacts on the subject and understands its habits and actions. Analyzing analyses of these things will help the teacher to apply specific teaching methods and strategies. Besides, the teacher must have determination to teach with distinction and novelty. He must have trust in God and devote to the service to his country. He must understand that teaching is a vocation.

Teaching is not only arrangement. The teacher has to guide his students to learn the right things, and to learn them in the best way so as to win in skill, time and avenue not to waste, and the desired results are obtained. He has to probe his students in every way they study and learn. He has to train their emotions. He has to set distinct standards of work and conduct.

A teacher honestly feels that he motivates his students through words in vector and guides to fulfill the law of desire. No doubt, words can be valuable tools for self-evaluation. However, words are not the only means, which are used for self-evaluation, and the results are not always positively. The teacher must and should inspire his students to work hard but think their motives not to achieve what is expected of them. Others become disillusioned and give up. Many develop reversion and look for ways to acquire against a system that makes themconte and unattractive- likely. When competition is limited upon, cooperation and mutual agreement among students are not easily to develop.

Many teachers believe that they try to motivate the students by encouraging the teachers that are satisfying and pleasing. Teachers, who try to make learning satisfying, use a wide range of tools for recognition and appreciation of work well done. Some teachers shower with more concrete rewards. Marks are treated as symbols of rewards rather than as tools for recognition and appreciation of work well done. Praise is their main forte. Sometimes they shower with more concrete rewards. Marks are treated as symbols of reward rather than as pretexts for teaching.

In many classrooms, students are forced to sit and listen for period after period, except for the teacher’s voice, pace and tempo usually appear the same. Mr. Horn, the words of a stick, the same dull, same talk, talk endlessly and listen little. Classroom are always dominated by this kind of teacher talk. Trying to review by memorizing homework to attempt short and this process. Nevertheless, the learner must see a goal ahead if he is to put forth.

A teacher, who mechanically assigns each hour’s work without guiding learners to see the larger sequence of which it is a part, can soon discover and will rarely have a chance to assess the students. He deprivates students of opportunity to carry their existing motivations into the classroom in ways that could help their learning.

Good teaching should enable students to develop emotional stability. To this, the students are made effective. It is not the goal of the school to acquire an atmosphere of efficiency. It is the principal task of the home. However, whatever the role of the home, the school should also contribute to it. Taking the student into confidence that in the school, they enjoy their due place and identity. Teaching is the art of a teacher to make the student greatest. He has to make the student to feel that he is the partner of the teacher, and the teacher is his supporter against many cold objects which with has to struggle.

The students feel the sense of security out of the friendly atmosphere. It should not be rest- assured that friendliness means inefficiency. Neither too much upon-friendliness and familiarity is the ideal. If teaching is founded on the principle of friendliness, it considers the students to be by first and second. He is not so important to write himself and bear about things. He becomes bored-brinded and outspoken. He is willing to share his experiences without any qualms.

The teacher must understand the pressure onto his head. He becomes for the living essence to his students. A reflection of the well being of the teacher reflects the image he will have on the future of the students. He will be remembered on the ways he act and how his literacy affects his styles.

In reality, the teacher must act as a model to his students. He must learn the philosophy between learning and guidance. He must believe that effective learning depends on how he communicates to the student the subject, connect the subject to him, and connect him to idea himself. With that, he becomes a teacher.

The School of Civil, Environmental and Geological Engineering (SCEGE) has chosen to respond through the establishment of its research arm, the Sustainable Development Research Office (SDRO). Its ultimate aim is to seek and apply knowledge and wisdom for the achievement of a sustainability-oriented earth. Currently we have experts in the area of Transportation Engineering, Water Resources Engineering, Sustainable Construction and Environmental Engineering.

SDRO is open for sponsors or donations for the conduct of high impact research and development activities in the area of sustainable development. We seek your valuable support and encourage you to join SDRO in responding to this great commission and let sustainability be our binding thread.

Thank you and God bless!
I had a lot of support from my family and friends. More abstract type of drawings. And during that time, it took some time. I usually draw when I get depressed. Over him? Four years is really a long time. How did you get 5 months. It was around July 2011. It lasted for 4 years and I'm single at the moment. My last relationship was with him. Any comments? Looks like you've really had a lot of experience. Anyways, let's move on. What about you? Tell people about the things you love to do. Anyhow? Why was that? Late na kasi ako sumali. Then one morning, my mom just came up to me and told me to meet Joylyn dela Cruz (SCGE President) for the photo-shoot. Evidently, I was surprised. You're mom's really sweet. Did you join any other pageants? Yes, I joined the Binbining Bulacan and placed 1st then the La Bulaqueña and was a finalist in CEGE Night. I wasn't supposed to be able to compete. Really?! Why was that? By one of SCEGE's faculty who was also a student leader at that time, Engr. Daniel Balmori, who took the initiative of bringing up the PICE-MITSC. They have recognized the fact that since PICE is the national organization that bonds all Civil Engineers around the country, it should be introduced as early as a student to promote the association of Civil Engineering students with members of Civil Engineering profession, through PICE professional chapters. One of these chapters is the PICE-Lungsod ng Maynila Chapter, through which the aspiring PICE-MITSC coordinated with in order to be recognized. This pursuit was guided by engineer Virgilio "Bong" Santos, who was their faculty adviser when the PICE-MITSC was founded.
Recognizing that the Philippines is a naturally hazard prone area, the Philippine Senate passed a bill institutionalizing disaster management and mitigation in the country. An initial, yet crucial step in adhering to the said bill is the conduct of geohazards assessment and mapping, giving priority to 5th class municipalities, one being the Masbate City and its vicinity. This paper presents the geohazards situation in Masbate City, focusing on landslide, ground shaking and ground rupture. Landslide inventory has resulted to the identification of thirty five (35) landslides, five (5) of which are considered to be old or inactive. Remarkably, most of the landslides (notably rockfall) occur in areas overlain by limestone of the Lanang Formation as well as those with moderate to steep (22.5°-45°) slope gradient. These results are integrated in the GIS-based landslide susceptibility map generated using weight index approach.

Field observations and interpretation of remote sensing images also suggest the presence of faults, the Masbate Fault being the most prominent, which appear to be analogous to the NW-SE orientation of the Philippine Fault Zone. Adopting the deterministic approach of estimating the peak ground acceleration (PGA) values using Fukushima and Tanaka (1990) attenuation relation, an amplified PGA map is presented using the Masbate Fault (with Ms=7.2) as reference. The said map indicates that Masbate City and surrounding areas will experience different levels of intensities. The Masbate City proper will experience intensity IX, making it susceptible to landslide, liquefaction and infrastructure collapse and even death of a number of people. In view of these hazards, it is suggested that the province devise and implement an effective Disaster Preparedness Program to prevent and minimize losses in case of earthquake occurrence.
This photo was taken last January 25 during the opening of the Foundation week. The humidity outside was painstakingly unbearable that it almost reached 33 degree celsius.

The Auto Principi II carshow was really an eye candy! I never encountered so many cool cars in one vicinity. This was a very awesome way to culminate the Foundation week, not to mention it ended with a BANG as fireworks trailed the night sky afterwards.

This pic was really unexpected. I was holding my phone with the camera active, then accidentally hit the shutter button. The focus, lighting and perspective were so well-timed, my friend thought this was taken with a DSLR camera.

All pics were taken from my HTC Radar powered by Windows Phone 7.5 "Mango".

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