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No. 1



The Project for the Capacity Development of the Faculty of  
Engineering, Science and Technology, the National University  
of Timor-Lorosa'e (Phase II)

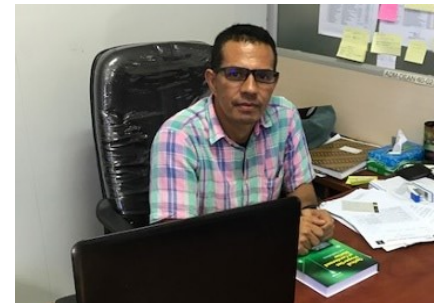


## CADEFEST II NEWS

### MESSAGE FROM CADEFEST PROJECT MANAGER

Welcome to the first issue of our project News letter! It is dedicate to the interest and concern of our project.

In this newsletter, we will focus on issue regarding the progress of the project phase two for the Capacity Development of Faculty of Engineering, Science and Technology, the National University of Timor-Lorosa'e (CADEFEST Project Phase II). The project is a joint technical cooperation that was agreed upon in bilateral deliberation between the government of Japan and government of the Democratic Republic of Timor-Leste in 2016. On Japan side , Japan International Cooperation Agency (JICA) is the implementation agency to support this project, the Faculty of Engineering Science and Technology, the National University of Timor-Lorosa'e is the counterpart institution on Timor-Leste side.



The Newsletter will covers a wide range activities, outputs achieved and insights gained through the project. It is serve to provide information on upcoming events, e.g. Training and special lectures as well as report of recent events and their outcomes. You can see some of the ideas that we are working on and we very much appreciate your comments and feedback for this newsletter. Please enjoy our first issue.

Ruben Jeronimo Freitas, Ph.D.

Project Manager CADEFEST Project

Dean, Faculty of Engineering Science & Technology, UNTL.

#### Special points of interest:

- Message From CADEFEST Project relatives.
- Activities of CADEFEST Project Phase 2.
- Steering Committee Meeting (SCM).
- Joint Coordinating Committee (UCC) Meeting

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# CADEFEST News

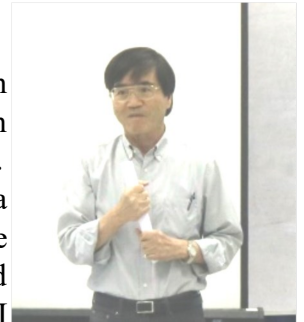
JICA CADEFEST Project Phase II



## Message From Chief Advisor of CADEFEST Project (Phase II)

What are the principal and ultimate objectives of CADEFEST Project II?

What are the principal and ultimate objectives of CADEFEST Project II ? An answer to this question is very simple: To educate bright students who can contribute to developing new technologies in this young country, Timor Lorosa'e. Offering suitable engineering subjects of study to UNTL students, should be a necessary condition to meet this objective. The UNTL lecturers should also be required to keep up with their research activities based on our social and technological needs, leading to providing an excellent education to our students. I think a "Lecture" itself is a collaboration work between students and lecturers. We should move up step-by-step to realize such a powerful collaboration in FoEST, UNTL. The JICA project II would support us to be able to view such a new sunrise here in Hera campus.



Prof. Dr. Koichi Shimakawa

Chief Advisor , CADEFEST Project (Phase II)

## Message From Chairman of Cooperation Unit (CU)



The purpose of the CADEFEST Phase-2 project is to enhance the quality of education and research activities corresponding to social need in Timor-Leste in specifically, and globally as well. To achieve this project purpose, the project coordination committee have agreed and stablished a Cooperation Unit (CU) with the following responsibilities:

- 1). Effective and efficient planning and implementation of cooperation activities
- 2). Coordination of activities with external organizations
- 3). Liaison office for all education and research activities with external organization
- 4). Accumulation of activity record in Faculty.

During the first year of the project period, some achievement of the project design matrix indicators have been reported in the 2<sup>nd</sup> JCC meeting, such as number of research activities conducted by the teaching staffs, networking with external partners, special lectures and seminars are significantly increased. We hope that with the spirit of new year 2018, the CU will make all possible efforts to encourage all faculty members to conduct research more effective and productive. We all will always work together to achieve our faculty's vision to be a center of excellence in engineering field in Timor-Leste.

Cancio Monteiro, Ph.D.

Vice Dean of Cooperation Unit Affairs

Chairman of Cooperation Unit, Faculty of Engineering, Science and Technology, UNTL



# Cooperation Unit Activities

## Seminar (Project supported seminar)



### Civil Engineering Joint Seminar

On 16<sup>th</sup> January 2018 Civil Department, Faculty of Engineering Science and Technology, UNTL was realized annual joint seminar. The theme of the seminar is ***“Desenvolvimentu iha Departamentu Enjeñaria Sivil ba loron ohin no ba futuru”***.



The event was conducted all of Civil Departments Alumni and Students. In addition, the seminar also has presentation from best final thesis project of senior students in Civil department.

## Seminar (Project supported seminar)

### Seminar of Electrical and Electronics Engineering Department



On 21<sup>st</sup> October 2017, Electrical & Electronics Engineering Department, Faculty of Engineering Science & Technology, UNTL was held a seminar for Alumni. The theme is ***“Liu Husi Sorumotu Alumni & Satekeholders, Hamutuk Halibur Kbi’it hodi Hametin Papel Enjiñeiru Eléktrika Iha Dezenvolvimentu Nasional”***.

The aim of the workshop is to gather all alumni in Electrical & Electronics Engineering Department, UNTL which discuss the statute law for Alumni students.



# Cooperation Unit Activities

Seminar (Project supported seminar)



## Seminar of Mechanical Engineering Department

On 26-27 January 2018, Department of Mechanical Engineering, Faculty of Engineering, Science and Technology (FoEST), National University of Timor Lorosa'e (UNTL) organized the seminar for mechanical engineering alumni and stakeholders :



“Sorumutu Departamentu Engeraria Mekanika, Alumni No Stakeholder Sira” to strengthen the network between

mechanical engineering department and mechanical fields industries through their alumni.



## The 2nd Joint Coordination Committee (JCC)

On 15<sup>th</sup> September, 2017, the second Joint Coordinating Committee (JCC) Meeting for “ the Project of Capacity Development of the Faculty of Engineering, Science and Technology, the National University of Timor-Lorosa'e ,Phase 2 (CADEFEST phase 2)” was held in JL Villa Hotel in Dili.

Mr. Alfred de Araujo, National Director for Policy Planning and Cooperation (PPC) Ministry of Education, Mr. Masafumi Nagaishi Chief Representative, JICA Timor-Leste, Professor Doutor Eduardo Aniceto Serrão, Pro-Rector for Cooperation, UNTL made opening speeches.

The progress of first year and the target activity indicators were presented by Dr.Cancio Monteiro, Vice Dean of FoEST, UNTL. In second section, Prof. Dr. Koichi Shimakawa Chief Advisor, CADEFEST project 2 made presentation for working plan for project second year. Participants have exchange their views and discussed the issues to improve the faculty management and the expected outcomes. The suggested target indicators and the working plan are approved by participants.

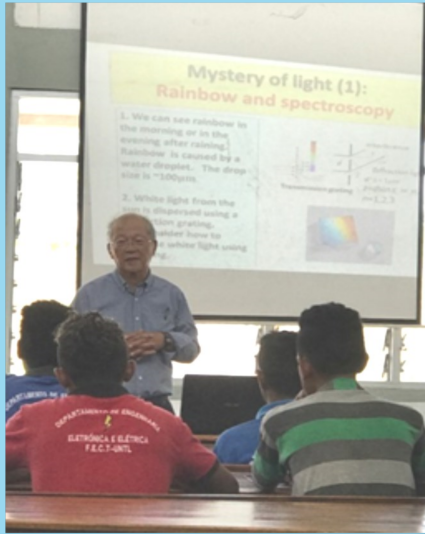


# Cooperation Unit Activities



## Special Lectures

### Professor Yamaga



On September, 25<sup>th</sup> 2017, Department of Electrical & Electronics Engineering, Faculty of Engineering Science and Technology (FoEST), National University of Timor-Lorosa'e (UNTL) had a special lecture by Japanese Emeritus Professor Mitsuo Yamaga from Gifu University, Japan.

The theme for this special lecturer is “Mysterious lights and Optical Technology”.

The lectures and students participated in the lecture which Professor Yamaga talked several mysterious and interesting phenomena of lights our surroundings and demonstrated some optical experiments.

Furthermore, he introduced the optical technology applications, such as the liquid crystal television and optical fiber communication with mysterious lights. It was first time for some students to learn the nature of lights with optical prism and filters.

### Professor Ito



On September, 12<sup>th</sup> 2017, Department of Informatics Engineering had a special lecture by Japanese Emeritus Professor, Akira Ito for Gifu University, Japan who was dispatched as JICA short term expert for JICA CADEFEST Project Phase II.

The title of this lecture is “Making a Robot mind-An approach from cognitive Science”. The lectures and students attended this special lecture.

This Special lecture was conducted a part of the seminar for Students Association Anniversary in Informatics Department. The department expected that the students would open their eyes and receive the knowledge for the functional mind through the special lecture.

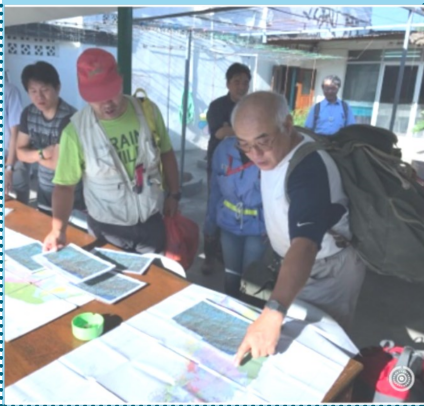


# Cooperation Unit Activities



## Special Lectures

### Professor Maeda



On August, 28<sup>th</sup> 2017, Department of Geology and Petroleum had a special lecture by Japanese Professor Haruyoshi Maeda from Kyushu University, Japan.

The theme for this special lecturer is

“Invitation to Taphonomy –How were Fossils made?-”.

He introduced the mechanisms how fossils were created. It was a good opportunity to learn Taphonomy.

During his stay, he conducted research survey and the samples are under investigation in Kyushu University.

### Professor Nonomura



On October, 25<sup>th</sup> 2017, Department of Electrical and Electronics Engineering had a special lecture by Japanese Professor, Shuichi Nonomura from Gifu University. He is the dean of faculty of engineering, Gifu University who was dispatched as JICA short term expert for JICA CADEFEST Project Phase II.

The title of this lecture is “Making a Robot mind-An approach from cognitive Science”. The lectures and students attended this special lecture.

His special lecture explained the hydrogen to electric power and the projects of power system by Gifu University and Fraunhofer. Furthermore, “Fuel Cell Vehicle” and concept of “HyGrid Energy System” were discussed.

His another purpose to visit Timor-Leste is to attend the Commencement Ceremony of Dr. Ruben Jerónimo Freitas Doctoral Degree conferred by Gifu University, at Japanese Embassy in Timor-Leste to hand over Ph.D Certificate.



# Cooperation Unit Activities

## Site Visit

### HEINEKEN Factory Visit



On Friday 07 July, 2017, Department of Civil Engineering, Faculty of Engineering Science and Technology, National University of Timor Lorosa'e (UNTL) held the students to the factory of HEINEKEN, Hera-Metinaro.

The Manager of HEINEKEN, a Lecturer of Civil Engineering Department joined this visit. The manager explained the operation of the factory. The students are expected to gain some idea of application for water treatment which they learned in their class.



### COMORO BRIDGE Construction Project



On July, 5<sup>th</sup> 2017, Department of Civil Engineering, Faculty of Engineering Science & Technology, National University of Timor Lorosa'e (UNTL) sent nine (9) students to The Project for Construction of Upriver Comoro Bridge.

The Chief of Public Works, Dean and a Lecture of Faculty Engineering Science and Technology, UNTL and Advisor of JICA "CADEFEST Phase 2" also joined the meeting which the staff from INGEROSEC CORPORATION (Consultant for Comoro Bridge Project) and TOBISHIMA CORPORATION (Contractor for Comoro Bridge Project) explained how to conduct internship activities and their regulations to internship students. This internship program is a part of curriculum for Department of Civil Engineering, UNTL and the duration is for two (2) months. The students are expected to become skilled civil engineers in Timor-Leste.



## Research Survey



## Research Field Survey

On September 2017, Department of Civil Engineering, lecturers and Japanese Professor Masahiko Sekine from Yamaguchi University, Japan had a field survey in Caicoli. They survey water quality in Dili Municipality which cover Caicoli, Bidau, Comoro and Tasi Tolu.



## Research Survey



Department of Geology and Petroleum, lecturers and Japanese Professors from Kyushu University, Japan had Research Survey for Paleontology in Bobonaro, Maubeshi, Suai in September 2017.



# Students Exchange

## Jenesys Visiting

### Japanese Student Visiting to Hera Campus

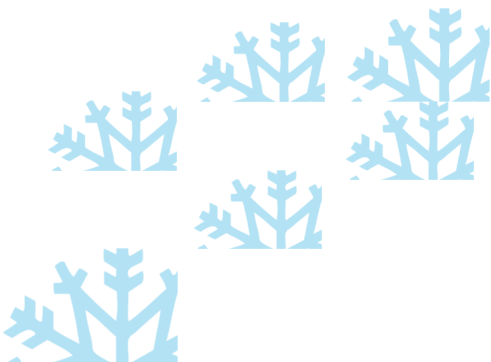


On November, 7<sup>th</sup> 2017, Japanese university students visited the project for capacity development of the faculty of engineering, science and technology, the national university of Timor-Lorosa'e phase 2 (CADEFEST Phase2) Hera Campus under Japan-East Asia Network of exchange for students and Youths (JENESYS 2017).

Through the presentation by Professor Dr. Koichi Shimakawa, the student have learned the long history of cooperation between JICA and UNTL and noticeable

outcomes in order to develop the faculty of Engineering, Science and Technology, UNTL.

It was good opportunity for Japanese students to understand the overview of university in Timor-Leste. They also enjoyed students exchange program in UNTL main Campus.



## Short Term Training in Japan

The project is providing the short term training for lecturers and technicians in Japan.

One of examples, two technicians received the training in Nagaoka University of Technology in Japan. They studied *Drilling, Internal Cutting by using machining tools*, supervised by Japanese staff



## Noticeable Outcomes

Mr. Ruben Jerónimo Freitas, Dean of the Faculty, lecturer of Department of Electrical and Electronics Engineering, FoEST, UNTL passed Ph.D defense in Engineering from Gifu University in Japan (27 July 2017) through support by the project.

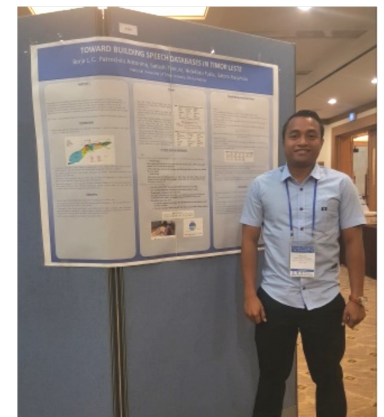


Mr. Carlito Pinto, Lecturer, Department of Informatics Engineering Faculty of Engineering, Science and Technology, UNTL. participated in International Conference on Advanced Informatics; Concepts, Theory and Applications, in Bali (16-18 August, 2017) and his research was awarded as “Best Paper” in the conference.



Mr. Borja Loedaci Cauthe Patrocinio Antonino, M.Cs, Lecturer of Informatics Engineering Department made poster-presentation his research “*Development of Tetum text and Speech Corpora in Cloud database and their application*” in The 20th

Oriental COCOSDA Conference in Korea.



On November 09<sup>th</sup> 2017, Mr. Domingos de Sousa Freitas, M.Eng, Lecturer of Mechanical Engineering Department has presented his paper of research “*Study and Analize the production of local Beverage (Pone Wine to Tua Sabu) with traditional Method for Improvement Livelihood; A case study in sub-district Laclubar, District Manatuto*” in International Conference in “The 10th AUN/SEED-Net Regional Conference on Energy Engineering, November 9-11, 2017, Yangon, Myanmar.





## Noticeable Outcomes



The Embassy of Japan in Timor-Leste hosted the Commencement Ceremony of Dr. Ruben Jerónimo Freitas Doctoral Degree conferred by Gifu University, Japan on Friday, October 27th, 2017 at Ambassador's Residence. The Doctoral Degree diploma was handed over to Dr. Ruben by Prof. Dr. Shuichi Nonomura, Dean of the Engineering Faculty, Gifu University



## Up Coming Events



JICA CADEFEST Project Phase II  
Rua de Hera, Metinaro  
Hera-Campus  
UNTL

Tel: 77922856  
E-mail: [jica.cadefest.project@gmail.com](mailto:jica.cadefest.project@gmail.com)

16th February 2018 :

The 5th Civil Engineering Seminar at Jl Villa Hotel

20th February 2018 :

Groundbreaking Ceremony for New Building  
Construction in Hera Campus



FACULTY OF ENGINEERING SCIENCE AND TECHNOLOGY-UNTL UNDER COOPERATION JICA CADEFEST PHASE 2



Edited by: Carme & Afonso (Project Assistants)