

THE GAZETTE OF

CHULALONGKORN UNIVERSITY



P. 3-5// Research by
Chula Professors Presented
at IP EXPO 2013

P. 6// Make Your Own
Advanced Nano-Silver in
Only Five Minutes!

P. 10-11// Fascinating Facts
about “Rod Pop”

//ADVISORY BOARD//

PRESIDENT

Prof. Pirom Kamolratanakul, M.D.

VICE PRESIDENT

Assoc. Prof. Dr. Sittichai Tudsri, D.D.S., M.D.

Assist. Prof. Dr. M.R. Kalaya Tingsabhadh

ASSISTANT TO THE PRESIDENT

Assoc. Prof. Dr. Anongnat Thakoengwit

Assist. Prof. Kriengkrai Boonlert-U-Thai, Ph.D.

//EDITORIAL BOARD//

EDITOR-IN-CHIEF

Assoc. Prof. Dr. Worawan Ongkrutraksa

News Editors

Jutapan Siripan

Robert Bruce Halliday

Editorial Coordinator

Cattleya Tanthmanatham

News Writers

Pimchanok Sirichatchaikul

Supachai Thonghong

Watanya Somphongs

Graphic Designer

Anakkhawee Srisombutphaibun

The Gazette of Chulalongkorn University is produced by Chula International Communication Center (CICC).

Please send comments and ideas to improve the publication to:

Chula International Communication Center (CICC), Chulalongkorn University

254 Phayathai Rd., Pathumwan,

Bangkok, Thailand 10330

Tel : +66 2218 3280

Fax : +66 2218 3281

E-mail : cicc@chula.ac.th

Website : www.chula.ac.th

www.cicc.chula.ac.th

Facebook : www.facebook.com/ChulalongkornUniversity

For international relations enquiries, please contact:

Office of International Affairs

Tel : +66 2218 3331-5

Fax : +66 2216 1299

E-mail : int.off@chula.ac.th

Website : www.inter.chula.ac.th

The Gazette of Chulalongkorn University can be read online at

www.chula.ac.th/cuen/cic/press/gazette/index.htm

COPYRIGHT 2013 CHULA INTERNATIONAL

COMMUNICATION CENTER (CICC)

Circular rack of test tubes in a scientific laboratory (Stock Photography)

COVER



Photo Credit : The Bureau of Royal Household

H.M. King Bhumibol Adulyadej's Birthday and National Day on December 5

December 5 is a very special day in Thailand, since it marks the occasion of the birthday of His Majesty King Bhumibol Adulyadej and is also celebrated as the National Day and the National Father's Day.

His Majesty the King was born in Cambridge, Massachusetts, the United States of America on Monday, December 5, 1927. He is the third and youngest child of their Royal Highnesses Prince and Princess Mahidol of Songkla. Having reigned since June 9, 1946, His Majesty the King is the longest reigning current monarch in the world history.

The Thai people love and revere His Majesty

the King who has dedicated his life to ensuring the well-being of all Thais nationwide. For over 60 years, he has worked hard to guide thousands of "Projects Undertaken Through the Initiative of His Majesty the King" and received the gratitude of the millions of people who have benefitted from them.

On behalf of students, faculty members and staff of Chulalongkorn University, we humbly extend our best wishes to His Majesty the King on this auspicious occasion. Long Live the King.

News Update

CU on Partnership Agreement with CERN

On Thursday, October 10, 2013, Prof. Pirom Kamolratanakul, M.D., President of Chulalongkorn University, Dr. Thaweesak Koanantakool, President of the National Science and Technology Development Agency (NSTDA), Professor Dr. Prasart Suebka, President of Suranaree University of Technology, Professor Dr. Pairach Thajchayapong, Chairman of the Subcommittee for Thai-CERN Collaboration Program in the academic and research field, and Prof. Rolf Dieter Heuer, the General Director of the European Organization for Nuclear Research (CERN), presided at the press conference held at Chulalongkorn University concerning the Partnership Agreement on the application and development of CERN's Worldwide LHC Computing Grid (WLCG).

On the occasion of this MoU signing ceremony partnership, Prof. Rolf Dieter Heuer also gave a special lecture on the topic "The Search of a Deeper Understanding of our Universe at the Large Hadron Collider : the World's Largest Particle Accelerator" to the attending audience.

CERN is one of the world's leading research organizations on particle physics. WLCG is a product



The representatives from CERN and CU present at the press conference for the partnership agreement on the Worldwide LHC Computing Grid (WLCG).

of its collaboration with academic and research institutions in a number of countries through the filing and the processing of data that is collected by the particle stimulator "Large Hadron Collider" (LHC). Chulalongkorn University, NSTDA and Suranaree University of Technology will participate as the computing centers that manage the filing and the processing of the data collected from LHC's simulation and WLCG's analysis. This initiation also marks Thailand as the first country in the Southeast Asia region to join the scientific cooperation network.

Research by Chula Professors Presented at IP EXPO 2013

On Monday 16 September 2013, The Thailand Research Fund (TRF) hosted the Intellectual Property (IP) EXPO 2013 at Queen Sirikit National Convention Center. Taking part in the event were the National Science and Technology Development Agency (NSTDA) and Thailand's top universities, including Chulalongkorn University, Mahidol University, and Kasetsart University. The Chulalongkorn University Intellectual Property Institute (CUIPI) was invited to participate in this presentation, at which several innovations by Chulalongkorn University professors, all judged to be commercially viable, were displayed. Among them were:

Innovative Nanomaterials



Assoc. Prof. Dr. Sanong Egkasit
Sensor Research Unit, Department of Chemistry, Faculty of Science

Innovative Nanomaterials are the synthetic products that exploit the useful properties of nano-materials and are finding widespread application in ways that enhance human well-being.

What triggered this idea?

- An expectation of developing Thailand's ability to compete in the world market by selling value-added products that use leading-edge technology
- A desire to see current technology extended, to develop production systems, and to be able to broaden knowledge of this technology.

How does this innovation benefit us?

- By enabling the manufacture and development of goods without importing raw materials from other countries.
- By reducing the risk factors that contribute to price volatility and market fluctuations.
- By broadening our know-how in applying this technology to produce a range of products
- By helping to shape and improve the future of Thai labor markets

Examples of Nanosilver-enhanced products:

"Smart" antibacterial wound dressing, antibacterial detergent, silver clay for jewelry work, antibacterial roll-on deodorants, germ-free ambulances with silver nanoparticle coating, etc.

Orchid 80 is a bio-substance to increase the productivity of orchids and other agricultural produce. It boosts productivity and improves the quality of the produce.

What triggered this idea?

- It is based on the fact that by-products of the fishing industry like prawn shells, crab carapaces, and squid pens all contain an exceptionally useful substance called chitosan that acts as a natural stimulant.
- Dr. Rath's initiative was to initiate an entrepreneurship for the production of this substance in collaboration with agriculturists.

How does it function?

- It imitates a natural mechanism by building up stress on plants so that they bear a greater number

of fruits without harming them. It is a form of stress manipulation technology.

How does this innovation benefit us?

- It promotes the more efficient use of bio-renewal resources.
- It curbs imports of pesticides, insecticides and fertilizers from abroad.
- When used, it has no side effects on our skin.



Orchid-80, a bio substance to increase the productivity of orchids

Orchid-80



Asst. Prof. Dr. Rath Pichyangura
Department of Biochemistry, Faculty of Science

Cover Story

The term **Galvaniche coatings** refers to a coating technology that provides steel with a relatively high degree of corrosion resistance, specifically more than twice as much as what is offered by a conventional hot-dip galvanizing technology.

What triggered this idea?

- The tendency of steel to rust and corrode is a critical problem that leads to dangerous and expensive damage to structural components.
- Conventional hot-dip galvanizing technology is unable to meet present requirements in moderate-to-high corrosive environments, including outdoor urban conditions, a saline atmosphere, industrial settings, and acidic soils. On the other hand, other coating technologies that provide high corrosion resistance, such as fluoropolymer coatings, are relatively expensive.

How is it produced?

The fabrication process of Galvaniche Coatings involves surface treatment of steel articles electrochemically followed by hot-dipping in a molten zinc bath. The microstructure of the coatings is engineered for optimum properties.

How does this innovation benefit us?

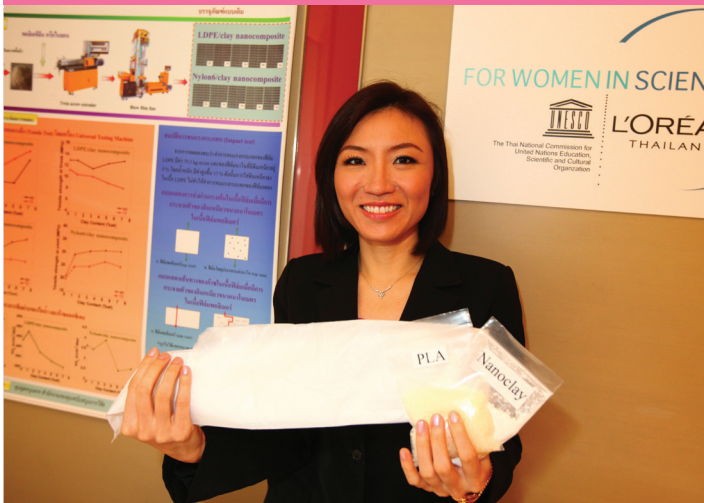
- Galvaniche coatings enable the service life of steel components such as fasteners, pipes, and plates to be prolonged. The relevant applications include transportation and infrastructures, transmission and telecommunication towers, oil drilling rigs, near-seawater construction, and solar panel support structures.
- The high performance of Galvaniche coatings has been validated in the highly saline environment of the Gulf of Thailand.

Galvaniche Coatings : Highly corrosion-resistant coatings for construction applications



Asst. Prof. Dr. Yuttanant Boonyongmaneerat (1st from left) and team
Surface Coating Technology for Metals and Materials Research Unit,
Metallurgy and Materials Science Research Institute (MMRI)

Bio-plastic packaging film for extending the shelf life of vegetables and fruits



Assoc. Prof. Dr. Anongnat Somwangtharaj
Department of Chemical Engineering, Faculty of Engineering

Bio-plastic packaging film serves various practical purposes. For example, it can extend the shelf life of fresh vegetables and fruits such as nam-dok-mai mangoes and straw mushrooms. When formed into packaging it is biodegradable and will break down within two years, with the duration depending on such factors as temperature, humidity and the presence of microorganisms.

What triggered this idea?

- It stems from the fact that despite the convenience that conventional plastic gives us, it can take 400-500 years to decompose.
- For about a decade, there has been a consuming interest in developing bio-plastic, as there are an increasing number of manufacturers at the industrial level who could become potential customers. Another factor is the advent of innovative packaging designs that employ forms of the film that have been modified to improve quality.
- Since the price of bio-plastic is slightly higher than that of petrochemical based types, it is marketed as a specialized product focusing on satisfying specific market needs.

How does this innovation benefit us?

- The ability to extend the shelf life of fruits and vegetables is of course an important benefit.
- It helps to reduce the amount of carbon dioxide released into the atmosphere and increases the sustainability of natural resources.

Nano Precipitated Calcium Carbonate : NPCC



Dr. Krisana Siraleartmukul
Metallurgy and Materials Science Research Institute (MMRI)

NPCC is calcium carbonate (CaCO_3) which is subjected to a precipitation reaction which yields a controlled particle size of less than 100 nm.

What triggered this idea?

- As Dr. Krisana Siraleartmukul is strongly interested in synthesizing useful substances, her development of NPCC was triggered by her personal interest in the idea.

How does this innovation benefit us?

- This specific surface area gives considerably higher bioavailability as it helps enhance utilization and absorption.
- The extremely high surface area results in higher reactivity since it accelerates aqueous dissolution.
- It can help reduce import costs.

Samples of NPCC-enhanced products:

Nano abrasives (which help remove dental plaque from teeth and clean dental veneers), moisture controllers in products such as sunscreen, and high-quality inkjets.

CU - VGH Polycentric Knee Joint

is a mechanism that help amputee to walk more naturally.

What triggered this idea?

- The Biomechanical Design and Manufacturing Laboratory at the Mechanical Engineering Department of Chulalongkorn University became interested in developing a knee joint mechanism for amputees. To accomplish this goal, in 2007 seniors at the department were assigned to undertake a project to create such a joint. The idea was extended as a thesis topic for the graduates, and the joint that could be put into practical use was presented in 2013.

- The Polycentric Knee Joint is a mechanism which requires just a few parts and which can be easily produced and maintained.

How does this innovation benefit us?

- It can be used effectively by amputees
- As it requires few parts, this mechanical knee joint can be produced at a cost four times lower than that of imported prostheses, reducing cost in the public sector.
- It enables disabled people who require prosthetic legs to enjoy a better quality of life.
- It can be disassembled easily, a great advantage for maintenance and repair.

CU-VGH Polycentric Knee Joint



Dr. Pairat Tangpornprasert
Department of Mechanical Engineering, Faculty of Engineering

Make Your Own Advanced Nano-Silver in Only Five Minutes!



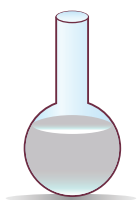
Assoc. Prof. Dr. Sanong Egkasit
Department of Chemistry, Faculty of Science

Nano technology, with the remarkable effectiveness in destroying bacteria, offers us a great range of benefits. It can, for example, minimize undesired odors caused by bacteria. For those who are interested in experimenting on their own with nano technology, **Assoc. Prof. Dr. Sanong Egkasit** of the Department of Chemistry, Faculty of Science, is ready to explain how to create your own **advanced nano-silver** in only five minutes.

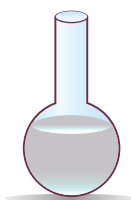
The method is not as complicated as you might think and there are not too many steps to follow, but some of the necessary chemicals must be prepared in advance. Here is a minimal **"D.I.Y. workshop for your own advanced nano-silver in five minutes"**

D.I.Y. workshop for your own advanced nano-silver in five minutes

Prepare the reducing agent (500 mL of NaBH_4 in 2% (w/v) soluble starch), Ag^+ stabilizer (500 mL of AgNO_3 in 2% (w/v) soluble starch)



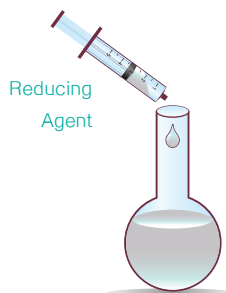
500 mL of NaBH_4 in
2% (w/v) soluble starch



500 mL of AgNO_3 in
2% (w/v) soluble starch

1

Inject 2mL/s of the reducing agent into Ag^+ stabilizer



Ag^+ stabilizer

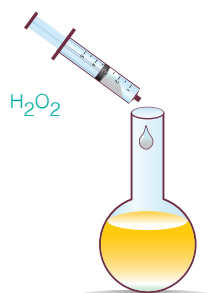
2

Stir until it becomes yellow



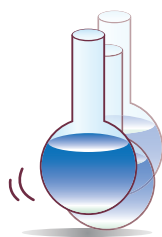
3

Drop H_2O_2 in 50 mL from the syringe and stir it vigorously



4

You can tint it to the color of your choice - orange, violet, pink, light blue or dark blue.



Choosing your favorite color!

5

These are easy steps to take. You can see that it is quite a cinch to make your own advanced nano-silver. However, this technology has become a part of our daily lives since everyday products such as soap, detergent, toothpaste and even cosmetics include nano-silver.

The Sensor Research Unit (SRU) led by Dr. Sanong has made it easier for us to produce this eco-friendly innovation. The unit focuses on using simple substances like nano-silver to perform valuable services like killing unwanted bacteria. So now don't hesitate to make a batch of your own nano-silver by following our simple instructions!

CU Develops Flood Risk Evaluation System to Cope with Thailand's Flood Crisis

On 11 October, 2013, at Chamchuri 4 building, Chulalongkorn University held a press conference on the subject, "Flood Watch Thailand 2013: Will the history of 2011 repeat itself?" The attending speakers were Assoc. Prof. Dr. Sittichai Tudsri, Vice President, Prof. Dr. Mongkol Techakumphu, Vice President, Assoc. Prof. Dr. Sucharit Koontanakulvong, Head of the Department of Water Resources Engineering, Faculty of Engineering, and Mr. Sak Sakulthai, Head of the informatics section of the Water Resources System Research Unit, Faculty of Engineering. The event was reported by a number of media to help spread knowledge about Flood REST, a software developed in collaboration with the Ministry of Information and Communication Technology (ICT) and Thai software developers for coping with Thailand's flood problems.

Faculty members offered assurance that flooding would not be as widespread this year as in 2011, with the severely affected areas limited to three provinces: Prachinburi, Chachoengsao and Ayutthaya. However, it will still be necessary to keep an eye on the flooding situation in southern provinces, especially Prachuap Khiri Khan, Chumphon and Nakhon Sri Thammarat.

A major problem associated with the flood

crisis in Thailand is the public's confusion and lack of information concerning flood warnings and the impact that flooding has when it occurs. Chulalongkorn University, as an academic institution which is a source of knowledge and a reference resource for society, brought together faculty members and specialists to provide information on the new software tool that can provide practical assistance in dealing with floods.



(From left) Mr. Sak Sakulthai, Head of the informatics section of the Water Resources System Research Unit, Assoc. Prof. Dr. Sucharit Koontanakulvong, and Assoc. Prof. Dr. Sittichai Tudsri

"Flood Rest" is a part of the Flood Risk Evaluation System that has been developed from existing government database units such as the one covering Bangkok. The software is an online map that informs people of the flood risk in their geographical location and helps estimate the water level that could cause flooding in the area.

The user can view information on flood estimation from reliable sources, insert the data into the software interface and receive the specific flood risk estimation for their location.

In addition, the current flooding situation can be followed on the website <http://thaicrisis.chula.ac.th>, while the software can be downloaded for free from iTunes by searching for "Flood Rest Thailand".



Assoc. Prof. Dr. Sucharit Koontanakulvong indicates which provinces in Thailand are at risk from floods.

Award & Honor

CU Academics Win Gold Award at the Thailand Research Expo 2013

On August 23-27, 2013, the National Research Council of Thailand organized the annual Thailand Research Expo 2013 at Centara Grand Hotel and Bangkok Convention Center, Central World, Ratchaprasong, Bangkok. Chulalongkorn University submitted research results on the subject, "Bioresources and their Inspiration on the New Era of Innovation", led by Professor Somsak Panha, Ph.D., from the Faculty of Science, along with his fellow faculty members.

Since the theme this year was "Research for the Sustainable Development of the Quality of Life, Economics, and Society", the Chula representatives came in top and won the Gold Award along with a trophy that was presented by the Prime Minister, a 20,000 baht cash prize, and a certificate of recognition for their research topic. The Chula Academics



team included Professor Suchinda Malaivijitnond, Ph.D., Professor Suwabun Chirachanchai, Ph.D., Associate Professor Prasert Pawasan, Associate Professor Sanong Ekgasit, and Associate Professor Artiwan Shotipruk.



The victory trophy along with the plaque of recognition

The winning CU academics receives the first place prize

CU Dentistry Students Win Research Competition



CU students Rathapong Theyyou and Wanvipa Chanmitkul, both from the Faculty of Dentistry, set an admirable example for all Chula students when they were awarded first place in the Joseph Lister Awards in Oral Disease Prevention for the SEA Division and Asia-Pacific Region for their presentation on the topic, "Casein phosphopeptide-amorphous calcium phosphate and glass ionomer show distinct effects in the remineralization of proximal artificial caries lesion in situ."

Rathapong Theyyou receives the first place in the Joseph Lister Awards.

The research competition was a part of the annual International Association for Dental Research - Asia Pacific Region that took place at the Plaza Athenee Hotel in central Bangkok this past August. Dr. Chutima Trairatvorakul, a former winner of the Lion Research Award at the 95th Scientific Meeting of Dental Association of Thailand, was their advisor.

And the Winner of the "Jr. Investigator Travel Award" Goes to...

Vudhiporn Limprasutr, a doctoral student from the Faculty of Veterinary majoring in Veterinary Physiology at the Department of Physiology recently received the Jr. Investigator Travel Award from the Safety Pharmacology Society at their 12th Annual Meeting in Phoenix, Arizona. Her winning work was a presentation of her research on "Assessment of Electromechanical Window in the Anesthetized Rabbit Model of Short QT and Long QT syndromes" with Anusak Kijawornrat, D.V.M., Ph.D. as her advisor.

Vudhiporn Limprasutr (center) smiles brightly at the Safety Pharmacology Society event in Phoenix, Arizona.



CU Science Girls Rule, Winning First Place in FoSTAT-Nestle Quiz Bowl 2013

Four of our outstanding Bachelor's of Science students from the Department of Food Technology won the FoSTAT- Nestle Quiz Bowl 2013. Prae Charoenwoodhipong, Patlapa Nagao, Suporn Laosappermpoon, and Sathinee Thirasupa, with Dr. Kanitha Thananuwoong as their advisor, teamed up to take on the Food Science and Technology Association of Thailand-Nestle Quiz Bowl 2013, where participants from 63 universities nationwide joined in to take part in the event. The competition was held at the BITEC Convention Center, Bangkok on June 15th, 2013 and has been organized every year by FoSTAT in cooperation with Nestle Thailand since 2003.

The four students also recently competed in the ASEAN Food Quiz Bowl 2013 on September 10th, 2013 and came in 1st place after taking on representatives from other ASEAN countries. That event was organized by the Singapore Institute of Food Science & Technology (SIFST) in cooperation with the ASEAN-Committee on Science & Technology (ASEAN-COST) and the Federation of the Institute of Food Science and Technology in ASEAN (FIFSTA).



The winning team receives the award at the FoSTAT- Nestle Quiz Bowl 2013.

(Photo by FoodTechChula.com)

Robot design by CU's Engineering student takes top



Saowanat Suriyawongpaisarn (1st from right), a 2nd year Chula's engineering student and her "Tha Ruea Klong-Toei" teammates

Chula's Sophomore Mechanical Engineering Student, Saowanat Suriyawongpaisarn and her team "Tha Ruea Klong-Toei" (Klong-Toei Pier) grabbed first place at Thailand's 6th Robot Design Contest 2013 on May 23, 2013. The event took place at Pantip Plaza and was co-organized by Chulalongkorn University, the National Science and Technology Development Agency, the Ministry of Science and Technology (National Metal and Materials Technology Center, Chiang Mai University, Suranaree University of Technology, and Prince of Songkla University.

Saowanat Suriyawongpaisarn and her "Tha Ruea Klong-Toei" teammates from Suranaree University of Technology, Prince of Songkla University, and King Mongkut's Institute of Technology continued on their journey as representatives from Thailand to join the International Design Contest Robocon 2013 at the University of Sao Paulo, Brazil.

Another Achievement for BBA Students at ABCC 2013

A team of students of Chula's Bachelor of Business Administration or BBA International Program joined the Asian Business Case Competition 2013 held by the Business Solutions, Nanyang Technological University this past September in Singapore.

The ABCC 2013 was a business case solution competition in which universities from around the world competed. This year the teams matched skills in finding the most efficient solution for the Mercy Relief, a Singapore-based non-profit organization.



The BBA team toasts their proudly presented solution.

Four of our BBA Chula ladies did an outstanding job passing the first round, and made it to first place as the winners in the grand final round.

Arpaporn Tangkrisanakajorn, Chanikarn Wongtada, Sunnadda Vanaphongsai, and Thanistha Setthaphongwanit gathered a winning compilation of research for their presentation and were judged based on their ability to create the best solution for the Mercy Relief organization. Queensland University of Technology came in as the 1st runner-up and University of Alberta was the 2nd runner up.

Fascinating Facts about “Rod Pop” (CU Shuttle Bus)



This environmentally friendly pink shuttle bus is Chula students' best friend.

Why has this little pink transportation system become so popular among CU students? There is no doubt that the “Rod Pop” is familiar to every CU student on campus. And if you don't know or haven't heard of the pink shuttle bus, then we just might have to tell you that you are a little lost on this campus.

The Rod Pop is a public transportation system for students, staff, and visitors at Chulalongkorn University. It makes specific stops on the way to and from campus at various locations within and outside the school grounds, making it a great way to get around the campus. But why is it so significant? Let us tell you, not only is the Rod Pop free of charge, it is also non-polluting and environmentally friendly. The buses seat more than 20 people.

This environmental friendly shuttle bus switched from combustion engines to electric power back in 2007. The electrical system was developed by the Energy for Environment Co., Ltd., which called this project the Harmony Innovative Bus. The clean energy vehicle was created to fit with an environmentally friendly theme, as the university supports the “Green University” campaign. Not only does it reduce pollution from traffic, it helps the economy as well, as expenses connected with high oil prices will be somewhat reduced. This innovative technology may provide the answer you are looking for as you search for a vehicle that is environmentally friendly and saves you

money at the same time. The buses run on batteries with help from an electric motor system proudly developed by Thai engineers. This system has been powering the Rod Pop for quite some time and has yet to fail us.



Araya Arayawuth (Darling), Junior at the Faculty of Arts and Thailand's rising star.

Today, we have a special guest who will take us on a Rod Pop tour to places you should not miss when you visit CU's campus. As part of the tour, she will show you the different routes you can take to get around the campus so you'll know what number to take the next time you catch a Rod Pop.

Our special guest guide for the Rod Pop tour

is **Arada Arayawuth** or **Darling**. She is a former Sugar Eyes (a Thai girl band) member who now works as a DJ at MET 107, and is a fresh new face on Thailand's television series. Darling, a junior at the Faculty of Arts (International Program), is currently minoring in Chinese. Even though she has a handful of jobs in the media industry, she doesn't fail to work hard in her studies. She's a great role model for the new generation.

Hi! Darling here everyone. It is my pleasure to take all of you on a tour of the different places around Chula where the Rod Pop can take us. First, I'd like to introduce you to the four different routes Rod Pop services so you don't get confused.

Rod Pop #1 runs within the main campus and runs outside to pick up students and staff from Siam Square.

Rod Pop #2 runs only between the two sides of Phayathai Road.

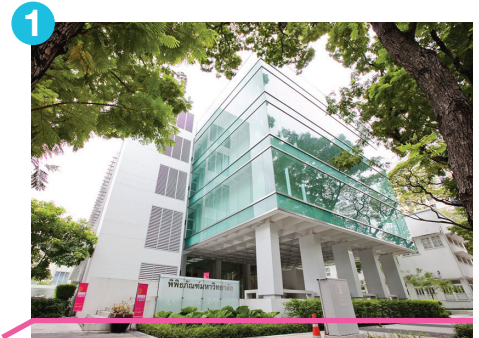
Rod Pop #3 runs on the Henry Dunant side of the campus where the Faculty of Medicine is situated.

Rod Pop #4 runs from both sides of Phayathai Road, around to the Siam Square and Sam Yan area.





If you take the BTS Skytrain, you can catch Rod Pop #1 at the bus stop in front of the Lido theatre. The Rod Pop will then take you past the Faculty of Architecture where I would like to recommend that you to stop for a visit to the **CU Museum**, located between the Faculty of Architecture and the Faculty of Fine and Applied Arts. The Museum is a gateway to the history of the University, which is presented through modern and narrative techniques using cutting-edge multimedia technology.



CU Museum

2



Maha Chulalongkorn Building

After your visit to the CU Museum, you can hop right back onto the Rod Pop. It will take you to my faculty, the Faculty of Arts. There I would like to proudly present to you Chula's original, and oldest building called **"Maha Chulalongkorn"**. A significant feature of this building is the traditional Thai style architecture. The building dates back more than 100 years.

Hopping back on the Rod Pop, the next stop is **Sala Phra Kieo**, a central point for CU students where the Chula Bookstore and Student Corner are located. This store has almost everything a student would need for class, whether it be a uniform, school supplies, any of the over 300,000 books, or even Chula souvenirs. On the second floor is a hall where many activities are hosted. Sala Phra Kieo is also the center of the Rod Pop stops, a place where we get on and off the bus to change routes.

Switching the Rod Pop to Number 2, we can continue on our tour to visit the other side of Phayathai Road, stopping at the Faculty of Education. From there you can take a brief walk to the **Office of Academic Resources**, the main library of Chulalongkorn University where many thousands of books can be found. The Central Library is especially busy during exam periods as it stays open until midnight. At these times the Rod Pop also runs on an extended schedule. Quiet and peaceful, the CU Central Library is the perfect spot to settle into if you need to study hard or work on a research paper. Moreover, the 7th floor is an art center with exhibitions all year round. So don't forget to visit!



Sala Phra Kieo

4



Office of Academic Resources

Last on our tour, I would like to invite you to the **CU Sports Complex**. Within walking distance from the CU Central Library, the CU Sports Complex offers a variety of options for students to work out with friends and stay in shape while having fun. This newly-built sports center has a nice clean swimming pool, a gym equipped with a variety of exercise machines, badminton courts, and much more. I would definitely recommend you come here, as it is free for all of our students.



Darling invites everyone to go green and take the little pink bus to get around campus.

5



CU Sports Complex



Well, that ends our Rod Pop tour. I hope everyone will get a chance to explore the campus with the Harmony Innovation Bus and then use it regularly to get to and from the campus and the BTS skytrain. It will help reduce pollution and traffic while also helping you save time and money! Most of all, I hope you have enjoyed my little tour, and that it will be helpful for you during your next visit to Chulalongkorn University.

Saving Marine Lives at Samed



The polluted Ao Phrao beach after the oil spill in July, 2013.

Since 27 July, 2013, the leakage of fifty thousand liters of crude oil over Ao Phrao beach on Samed Island, Rayong Province, has polluted the shore and caused harm to marine animals and the ecological system around the area. Bearing in mind this concern, the rescue team from Chulalongkorn University, comprising marine veterinarians and ten student volunteers, organized a trip to the island to investigate the damage and lend a helping hand to save the affected animals. The team members from the Faculty of Veterinary Science, including staff from the Veterinary Medical Aquatic Animal Research Center (VMARC), was lead by Assoc. Prof. Dr. Nantarika Chansue, Head of the center and Assistant Dean for Public Affairs of the faculty.

Even though the investigation on board saw no immediate signs of death or injury of marine animals around the island, it is necessary to keep track of the impact of the oil pollution on their health and habitats for at least three months, when the affects become more detectable. This is because the accumulation of toxic substances through respiration or consumption may not result in immediate death, especially in marine turtles, in which the toxic accumulation can exist for a relatively long period of time before signs of illness become evident.

The most obvious damage was seen in the fish raised off-shore in a cage system because they could not swim away from the polluted area. The local people reported that a number of groupers and striped basses in cages were lost together with the oysters which were raised around the western shore. Upon their arrival, the team of veterinarians from Chulalongkorn University helped provide treatment for the remaining fish in the cages, most of which were the breeders of their species, by injecting antibiotics and curing infectious conditions. The fish were given vitamins and tonics that strengthen their livers and kidneys to increase their ability to excrete the toxic substances in their bodies and become healthy again. In addition, the team provided the local people with medicine to coat the fishes' alimentary tracts to decrease the absorption of toxins, and supplied them with the herbs with anti-toxic properties to mix with fish feed. At the same time, the team collaborated with staff from PTT Public Company Limited to set up a shelter for sick animals where people can report on animals being found or bring them for further treatment.

The team of veterinarians from Chulalongkorn University helped provide treatment for the remaining fish in the cages, most of which were the breeders of their species, by injecting antibiotics and curing infectious conditions.



The rescue and cleaning mission draw enthusiastic participation by government agents, volunteers and local people.



The team of veterinarians from CU are ready to help rescue the petroleum-affected marine animals on Samed Island.

As for the preparation of marine animal rescue in long term, the Veterinary Medical Aquatic animal Research Center (VMARC) and the Marine and Coastal Resources Research and Development Center of Rayong Province will arrange training in animal first aid so that local people will be equipped with better

knowledge about the preliminary treatments of marine animals. The target groups of the training are the three communities which are affected by the oil spill: local people and fishermen on Samed Island, Baan Pak Klong Glang fishing boat community and Mae Rumphueng Beach coastal community. Each of these training programs aims to enroll thirty participants who will acquire basic knowledge and put it to practice in the caring for aquatic animals and other rare marine species, helping to ensure sustainable protection of the environment.

In order to take precautions against further environmental damage and keep track of marine animal rescue plans, the team is cooperating with the groups of aquanauts and hotel entrepreneurs on Samed Island who agree to give reports on found animals or damage to the coral reef around the island. This tackles the key problem connected with continuing to provide help following the oil leakage incident, in which collaboration between individuals and organizations are vital. With such multi-party discussions and reviews of the situation of marine life, it will be possible for the rescue plans to be carried out to achieve quicker and more effective results.

CU Helps in Search for New Homes for Abandoned Cats

From 20 through 22 September 2013, The Office of Property Management, Chulalongkorn University, together with the Faculty of Veterinary, the Save Our Strays Association, the Society for the Promotion of Animal Welfare under Royal Patronage, and the Cat Lovers Society held an event under the project "CU Helps Find Homes for Abandoned Cats" at the activity corner in front of MBK Shopping Center.

Assoc. Prof. Permyot Kosolbhand, MD, Vice President of Chulalongkorn University, presided over the opening session, with the welcoming speech being given by Mr. Sakchai Kengkijkosol, Senior Executive and Vice President of the MBK Public Company Limited. The aim of the project was to help relieve



The abandoned kittens at the event wait to find caring homes.



Assoc. Prof. Gr. Cpt. Permyot Kosolbhand, M.D. (2nd from left), Mr. Sakchai Kengkijkosol (2nd from right) and Thai celebrities pose for a group photograph at the cat rescue mission.



The fashion show to call for the public's awareness of the problem of abandoned cats.

the problem of stray cats on the university grounds and the surrounding area, particularly Soi Chula 2, 4, 6 and 14, and to set up a temporary living space for cats in Soi Chula 6. The animals would be given a health check, medical treatment, vaccination, and would be sterilized. Adopters would be sought for the healthy cats which were ready to be received into new homes.

Thanks to the collaboration of a number of organizations and individuals, the event met with success in a festive and entertaining atmosphere.

The variety of activities ranged from a talk about responsible pet care with celebrities such as Kemmanij Jamikorn, Butsakon Tantiphana and Thanathorn Sawatkorn, a fashion show by CU's cheerleading team, performances by the Youth Center of Pathumwan District and musical performance by CU's students. In addition, there were booths where cats were given health checks and vaccinations and could be registered for free cat sterilization, as well as games and activities for the participants to enjoy and win prizes.

Event

US Congresswoman Ladda Tammy Duckworth Gives Special Lecture at Chula



Lieutenant Colonel Ladda Tammy Duckworth (center) smiles among the enthusiastic Chula students.

On Thursday 29th August 2013, at the Faculty of Political Science, Chulalongkorn University, Lieutenant Colonel Ladda Tammy Duckworth, the U.S. Representative for Illinois's 8th congressional district, was invited by Chulalongkorn University's Institute of Security and International Studies (ISIS) and the Ministry of Foreign Affairs in collaboration with the American Studies Program to give a special lecture and to answer to open questions from students and the interested public on "US Foreign Policy in Congresswoman Tammy Duckworth's Perspective." The forum was run by Assoc. Prof. Dr. Thitinan Pongsudhirak, Faculty of Political Science, on the occasion of Lieutenant Colonel Duckworth's courtesy

visit to Thailand during 28 August - 3 September 2013 after the invitation of the Royal Thai Embassy in Washington, DC.

At the session, US Congresswoman Tammy Duckworth clearly expressed her opinions on various political issues and administrative policies. She also filled the seminar with a friendly and inspiring atmosphere by telling her personal stories about her childhood in Thailand, the relocations with her family to foreign countries, her experiences in military missions, and, finally, her political career path. The lecture was received with great enthusiasm by attending students and participants.

Get to Know the Thai-Born US Congresswoman "Ladda Tammy Duckworth"

Lieutenant Colonel Ladda Tammy Duckworth was a Thai-American war veteran who joined the United State Army in 1992 as a helicopter co-pilot under the Illinois National Army Guard. In the year 2004 during her participation in the Iraq War, the UH 60 Black Hawk on which she served as a co-pilot was attacked on patrol, causing her to lose both legs and destroying her right arm.

Not being able to pursue her military career on the battlefield, Lieutenant Colonel Duckworth started charity work for war veterans in the United States and decided to begin a career in politics as a member of the Democrat Party. In 2012, she was elected the representative for Illinois's 8th congressional district, which marks her the first Thai-born member of Congress in history.



Congresswoman Duckworth (center) with the Illinois' 8th district constituents (Photo Credit : U.S. Embassy Bangkok)

A Big Step Forward in Consolidating the ASEAN Community

On Tuesday, October 22, 2013 at the Mahitaladhibesra Building, the 8th National Conference of Economists was held by Chulalongkorn University's Faculty of Economics. At the conference, Dr. Prasarn Trairatvorakul, the Governor of Bank of Thailand, and Dr. Sumet Tantivejkul, the Secretary-General of the Chaipattana Foundation, gave a lecture on "Adjusting Thailand under the Context of Global Economic Changes." Assoc. Prof. Dr.

Supawat Rungsuriyawiboon, the winner of the 2013 Puey Ungphakorn Award for distinguished economists, delivered another lecture on "Investigating Agricultural Performance in Asia".

The objectives of the conference were to bring awareness to the economic, political and social problems in Thailand and suggest possible solutions for the situation. The occasion also provided a platform for further economic research to be conducted and publicized, contributing much

to the teaching and learning process, sustainable research development, and, ultimately, the country's economic administration. The conference offered an opportunity for constructive exchanges of knowledge among economists from different fields and institutions, while simultaneously informing the public of the advancement in economic studies in relation to the social well-being of Thailand, interconnected as it is to the global economy.



CU Inter Games 2013

An Activity to Light Up CU Students' Spirit



Each rose represents one point for the College Star Contest at the opening of the CU Inter Games 2013.

It was just a little while ago that the CU Inter Games 2013, with their slogan, "Ignite, Strive, Unite" came to an end. Although the games are finished, the sense of unity among the freshmen is still as strong as ever. This activity is designed to form and strengthen the bonds not only among freshmen from different faculties, but also between the freshmen and their seniors.

The opening ceremony took place on Friday, 11 October 2013. Then, between 7 October and 30 November, the games took place in the CU Sports Complex, including basketball, futsal, and the chair ball matches. Below are the highlight and some impressions from the participants :

Speaking of CU Inter Games of this year, how does it feel to join these activities?

Onti : I'm very excited to be taking part, because I'm excited to see many people, to watch the games, and just to have fun.



The College Star Contest, one of the CU Inter Games 2013's highlights.

Cindy : I'm very happy to join in because I'm just came out of high school. It was different there. We never had activities like this in high school so it's new to me, but I'm enjoying it very much. There's a feeling of unity, with the faculties and the whole university coming together.

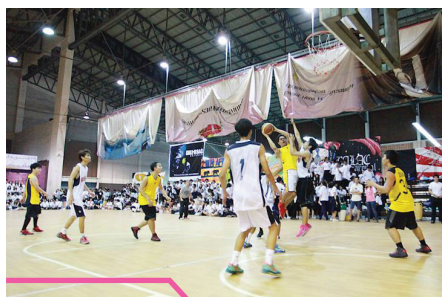
Magnus : I feel very good to be a part of this, especially for BBA (Bachelor of Business Administration Program) representation.

What activities are you participating in?

Onti : I join in and try to play futsal. I think futsal is very exciting and if there are chair ball or basketball matches, I'd like to cheer for ISE (International School of Engineering).

Cindy : Dancing in the show, a funny show. I joined in with some colleagues.

Magnus : I actually participated in the football game between the Faculty of Commerce and Accountancy and the Faculty of Engineering. Unfortunately, we lost 4-1.



The exiting basketball match between the Faculty of Economics and the Faculty of Architecture

What impresses you about this event?

Onti : I meet a lot of people from different faculties and, for all of us, I think the organization of this event is very good because it is going smoothly and everybody knows the schedule. And the most important thing is that this activity creates a good bond between students.

Cindy : So many people came. I didn't think people would come on Friday night. I'm happy that people came and that there is a lot of support in this event.

Magnus : Might be that everybody put such a great effort into it.



Dr. Sumet Tantivejkul (right), one of the conference's speakers, receives a souvenir from Prof. Pirom Kamolratanakul, M.D., CU's president.

<<

Onti, from Botswana
Faculty of Engineering
(ISE Program)

>>

Cindy Johansson,
from Sweden
Faculty of
Communication Arts

<<

Magnus Karnehm,
from Germany
Faculty of Commerce
and Accountancy
(BBA Program)

Snapshots



Happy New Year 2014!



**We wish you a New Year filled with
Prosperity and Contentment and
a Blessed Holiday Season!**



Photo Credit : Krid Chokkijchai

Thailand Revolution: A Turning Point to New Future

Date: 13 November 2013

Host : The Master of Science in Finance, Faculty of Commerce and Accountancy

Tel: (66) 2218 5674-5

First International Conference of the Asia-Pacific Society for Agricultural and Food Ethics

Date : 28-30 November 2013

Host : The Center for Ethics of Science and Technology, Faculty of Arts and the Office of the Commission on Agricultural Resource Education (OCARE)

Tel : (66) 2218 9832

Transformative Social Sciences for Sustainability and Social Justice

Date: 9-23 December 2013

Host : Chulalongkorn Social Research Institute

Tel: (66) 2218 7359

Contact: saya21@yahoo.com

International Symposium on Conducting Cross-Cultural, Cross-National Research in International Settings

Date : 15-17 January 2014

Host : Faculty of Education

Tel : (66) 2218 2402

Contact: www.cscr2014.com, E-mail: intered@chula.ac.th

Calendar of Events