



eScientific News

BULETIN FAKULTI SAINS GUNAAN UiTM CAWANGAN SABAH

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Sila imbas kod QR untuk sebarang
maklumbalas

MENARIK DI ISU INI

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Dan Peradaban (SSP 2022).

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Ekspo Selangkah ke UiTM

18 dan 19 Jun 2022
Dewan Al-Bukhari, UiTM Cawangan Sabah
(Secara Fizikal)

8.30 pagi hingga 5.00 petang



sabah.uitm.edu.my/

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BAKAL MAHASISWA DAN ORANG RAMAI
DIJEMPUT HADIR!



LAPORAN PROGRAM SEMINAR SAINS DAN PERADABAN (SSP 2022)

Disediakan oleh: Sharifah Sari Binti Datu Asal

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SEMILAR
SAINS
PERADABAN
(SSP2022)

"COVID-19 : KESAN DAN CABARAN KETAMADUNAN"

28 MAC 2022 (ISNIN)
8.00 PAGI - 5.00 PETANG (SECARA MAYA)

TARIKH AKHIR PENERIMAAN ABSTRAK: 28 FEBRUARI 2022
TARIKH AKHIR PENGHANTARAN KERTAS KERJA PENUH: 28 MAC 2022
BAHASA: BAHASA MELAYU DAN BAHASA INGERIS
YURAN PENYERTAAN: AHLI AKADEMIK (RM50) DAN PELAJAR (RM25)

Bendahari UiTM Bank Islam
10016010042360

Peserta perlu mengisi SSP2022 pada bahagian "reference" semasa membuat pembayaran.
Peserta perlu menghantar e-mel resit sebagai bukti pembayaran.

Berikut adalah tema-tema yang dicadangkan :
• Sains Tawhidik/Pemikiran Sainsifik
• Sains, Teknologi, Kejuruteraan & Matematik
• Pemuliharaan/Alam sekitar
• Eko-pelancongan/Eko-pendidikan
• Ekonomi/Pengurusan Sumber Alam
• Bioekonomi/Bioprospektif
• ICT/Pengurusan data
• Undang-Undang/Budaya, Bahasa & Sastra
• Pengurusan Sumber Manusia
• Ketetapan & Keterpaksaan Vaksinasi
• Undang-undang & Budaya Norma Baharu

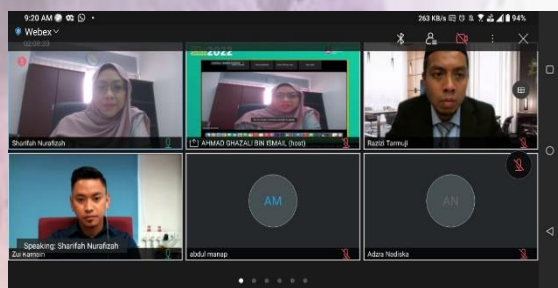
Penghantaran abstrak boleh di hantar ke email berikut:
seminarsainsperadaban2022@gmail.com

Untuk Maklumat Lanjut, sila hubungi pegawai dibawah :
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Razizi Tarmuji (017-254 4108)
Email: seminarsainsperadaban2022@gmail.com

Pada 28 Mac 2022 yang lalu, Fakulti Sains Gunaan dengan Kerjasama Akademi Pengajian Islam Kontemporari (ACIS) UiTM Cawangan Sabah Kampus Kota Kinabalu telah menganjurkan Seminar Sains dan Peradaban (SSP2022) secara atas talian menggunakan aplikasi Webex. Secara umumnya SSP2022 ini dibangunkan sebagai sebuah platform akademik yang mengkhusus kepada perbincangan berkaitan dengan sains dan peradaban. Ianya bertujuan untuk menjadikan UiTM Sabah sebagai salah satu pusat pengajian tinggi yang mengangkat dan memartabatkan perbincangan berkaitan Sains dan Peradaban di rantau Borneo

SSP2022 pada tahun ni bertemakan Covid-19: Kesan dan Cabaran Ketamadunan. Pemilihan ini adalah bersesuaian dengan situasi semasa dimana penularan covid-19 telah membawa kepada norma baharu kehidupan dan seterusnya mencetuskan gelombang perubahan yang signifikan dalam pembentukan generasi masa depan. Ianya bukan sahaja memberi impak yang besar kepada kesihatan global tetap turut membadaai keseluruhan peradaban merangkumi ekonomi, sosial, politik, keselamatan dan pendidikan

Seminar ini disempurnakan dengan ucapan pembukaan oleh YBhg. Dr Sharifah Nurafizah Syed Annuar, Timbalan Rektor BPJIM&A UiTM Cawangan Sabah yang bermula pada pukul 8.30 pagi dan berakhir pada pukul 1.00 petang. SSP2022 telah menarik minat peserta bukan sahaja daripada UiTM tetapi juga daripada institusi pengajian tinggi yang lain. Sebanyak 18 kertas kerja telah dibentangkan pada kali ini, dimana 10 kertas kerja adalah berkaitan dengan sains sosial manakala 8 lagi berkaitan dengan sains dan teknologi.



Rajah 1: Antara gambar-gambar semasa program SSP 2022 berlangsung.

Pelbagai intipati maklumat yang dikongsikan bersama seperti SOP solat berjemaah, pengambilan vaksin covid-19 dan pengurusan wabak menurut perspektif al-Quran, hidup lestari dengan SARS-COV 2 dan lain-lain lagi. Di samping itu juga, program ini juga diserikan lagi dengan sesi perkongsian berkaitan dengan Covid-19 dan perubahan paradigma pendidikan dari penceramah YBhg Dr Amin bin Senin yang merupakan Mantan KPPM dan Pengasas Connecting Dot Learning (CDL) Malaysia.

Semoga dengan penganjuran seminar ini akan memberikan manfaat kepada perkembangan pembangunan peradaban di Malaysia terutamanya dalam mengadaptasi norma baharu kehidupan pasca Covid-19 dan menarik minat lebih ramai pengkaji untuk sama-sama berkongsi ilmu dan informasi pada SSP akan datang.

PROFESSOR DR GUILLAUME ECHEVARRIA'S VISIT TO UiTM CAWANGAN SABAH

By: Julenah Ag Nuddin, PhD, MMIC
✉ julen856@uitm.edu.my

Last mid-May, Prof. Echevarria of Econic, France, currently Head of R&D Department, had come to Sabah to discuss future collaboration with UiTM Cawangan Sabah in agromining project. During his last visit in November 2019, as Head of Soils and Environment Laboratory, University of Lorraine, France, an agreement on joint projects and postgraduate supervision had been discussed. At the moment, SIG TANI is monitoring 3 MSc students, namely, Nur Syafiqah Salim, Mohd Fadhil Hisham Rapahi and Nurul Afiqah Adam Nabil.

In this visit, Prof Echevarria had met with the Branch Rector, Prof Madya Datuk Dr Hj Abdul Kadir Hj Rosline, regarding research collaboration with UiTM Cawangan Sabah. Cordially, they have agreed to strengthen the collaboration with a memorandum. In an effort to attract more students to participate in hyperaccumulators research activities, Prof Echevarria gave a talk entitled, 'Farming for Metals: a Nature Based Solution Coming to Reality' to BSc Biology students which was also streamed live in Scienergy Facebook and Google Meet.

"Sharing knowledge is a charity of knowledge that constitutes the ways of a beautiful life"
-Ehsan Sehgal-




Figure 1. Prof. Echevarria with group of students after webinar talk.

In this trip, Prof Echevarria was accompanied by Dr Romane Tisserand, a Researcher at Econic, France who had carried out agromining project at Kg Pahu, Ranau in 2019 and recently graduated from UL. As part of research requirement, they had also met with Dr Gerald Jetony, Secretary of Sabah Biodiversity Council to discuss on acquiring access licence.




Figure 2. Prof. Echevarria (right) and Dr Tisserand (second left) with Datuk Rector and Deputy Rector of Academic, Dr Firdausi Suffian.

It is very much hoped that a positive outcome will be achieved from the visit.




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Wacana Sains Gunaan @ FSG
Webinar Series 2022/3



SPEAKER

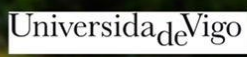

Dr Celestino Quintela Sabaris
Universidade de Vigo, Spain
Recipient of the prestigious
Marie Skłodowska-Curie Actions
*Title: Exploration of the Soil Biota associated
to Casuarinaceae Trees in Tropical Ultramafic
Soil of Sabah*

CASUABIOTA

18th April 2022
Monday
10:00 – 11:15 AM

Moderator:
Mr. Elden Zoumin

<https://meet.google.com/cpt-sfpm-kpa>
Scienergy UiTM Cawangan Sabah Kampus Kota Kinabalu



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Kampus Kota Kinabalu



Wacana Sains Gunaan @ FSG
Webinar Series 2022/4



SPEAKER

Professor Guillaume Echevarria
*Title: Farming for metals: a Nature
based solution coming to reality!*

AGROMINING

13th May 2022
Friday
2:00 – 3:30 PM

Moderator:
Mr. Elden Zoumin

<https://meet.google.com/afp-krdx-wmv>
Scienergy UiTM Cawangan Sabah Kampus Kota Kinabalu




GETTING INTO THE RHYTHM

By: Julenah Ag Nuddin, PhD, MMIC

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After two years of forced hiatus due to the Covid-19 pandemic, we are back to working at the office trying to conduct classes virtually and carry out scientific experiments physically at the laboratory while abiding to the stipulated standard operating procedures. Personally, I am trying my best to get into the rhythm which at times seemed to be jerky.

After a slow start in March and April, May was suddenly a hectic month. It began with Raya celebration, a visit from an international collaborator in the middle and topped with an international program which was organised by Sabah Parks. The 2nd Asian Park Congress was chaired and co-organised with IUCN World Commission on Protected Areas and held on 25th to 29th of May. UiTM Sabah Branch was one of the State Level Management Committee Members represented by Dr Viduriati Sumin from FPA, Dr Tania Maria Tangit from FHTM and Dr Aziz Lai Mohd Fikri Lai from FBM. I, myself, was involved in the organisation of Youth Forum together with colleagues from SEEN, RDC, JHL, JPNS and others.



Figure 1. Press conference after opening ceremony on 25th May 2022.
Datuk Dr. Jeffrey Kitingan had attended to officiate.

By a stroke of luck, as many as 55 UiTM Sabah Branch students from various faculties were sponsored by the State Ministry of Youth & Sports as participants in the Youth Forum. Another 30 and more students were registered as volunteers. Without missing a beat, our students had shown great spirit and energy by engaging as participants in Youth Forum and volunteers in various capacities. They were even part of the discussion group for the formation of Asia Youth Network for Protected Areas mooted by Korea National Parks Service (KNPS). The congress was a great experience for them where they were exposed to current information in protected areas and other issues regarding biodiversity. It also gave them a chance to express their ideas and concerns for consideration by those in management and power. But of course, meeting and conversing with foreign participants proved to be fascinating revelations.



Figure 2. (Top) Part of volunteers' team responsible for Youth Forum. (Bottom) The elated faces of Youth Forum participants after Roundtable Discussion activity.



Figure 3. (Left) The students of FAS made connections with Korean delegates. 안녕하세요 (annyeonghaseyo). (Right) I attended the welcome dinner with Diploma in Science students.



Figure 4. The Sun Bear Research Team led by Madam Siti Sarayati Hj Abdul Mawah participated in the Main Exhibition. Their booth had received a lot of interest. Thumbs up!

Certainly, the UiTM delegate would not be complete without the lecturers. The Faculty of Applied Sciences had set up a booth in the Main Exhibition Hall showcasing findings from the Sun Bear Study carried out by Madam Siti Sarayati Hj Abdul Mawah and Elden X. Also in attendance were FAS Head of Study Centre, Madam Farnidah Jasnie, and the Postgraduate Studies Centre Research Coordinator, Dr Lo Chor Wai. Besides that, I presented a paper on traditional plants of Sabah on the third day of congress in the Working Group 1 (WG1) session: Natural Based Solutions for Health & Wellbeing.

On the final day, the congress closed on a serious note by the announcement of the Kota Kinabalu Declaration which concluded the outcomes of each Working Groups and Youth Forum. Needless to say, we, the Sabahans were not accustomed to such a solemn atmosphere, thus, ended the program in a merrier note of cultural exchange performance.

So, that is how the semester is progressing. A little awkward at first but looking and feeling more confident in each step we are taking. Hopefully, the rhythm will be more enticing and the choreography more coordinated. Of course, the more the merrier.

*To read Kota Kinabalu Declaration for 2nd APC 2022, please visit this link [HERE](#).

TEACHING COLLABORATION IN THE SPECIAL TOPIC OF BIOLOGY

By: Ajis Lepit, PhD

 ajis@uitm.edu.my

In the action plan for the 5th Open and Distance learning lecture (ODL 5.0), Academic circular 02 (2022) recommends that the empowerment of culture and the current teaching and learning (TnL) techniques be implemented creatively. In response to the recommendations, the Center for Innovative Delivery and Learning Development (CIDL) has designed the 21st century of TnL through collaborative teaching (CT). The BIO631 code has initiated a challenge and taken this opportunity to execute CT for a special topic in biology starting the October 2021 session.

In order to empower student self-learning, CT, which is also referred to as cooperative teaching or team teaching, comprises of instructional strategies that may involve subject matter experts from different disciplines as well as industrial practitioners who work together to instruct, mentor, guide, and train groups of students. The method of teaching collaboration includes aspects of content development and assessments in addition to the aspect of delivery.

Teaching collaboration can be classified into a number of methods, including delivery, evaluation, and material exchange (sharing & producing). Based on this, the CT project with model 2 (Delivery) began with the BIO631: Special Topics in Biology course where it highlights current and emerging trends in biology. In October 2021 session, the topics of chapters 2 (Genomes and Society) and chapter 4 (Immunology) were delivered thru CT respectively. One strategy for sharing expertise and knowledge is to bring guest lecturers from regional and international universities. The first guest speaker was Associate Prof. Dr Neoh Hui Min from the Medical Molecular Biology Institute (UMBI), UKM, who lectured on the topic of identifying pathogens with antibiotic resistance (AMR) on 2nd Nov 2021. The lecturer in charge of the topic, Dr Lo Chor covered the major topic in Genomes and Society.

The next guest lecturer was Assistant Professor Dr. Faizatul Isyraqiah Ahmad Muhammad from Manipal University College Malaysia (MUCM), Melaka. She is also our alumnus of AS201 UiTM Sabah Branch who presented a lecture on immunotherapy for stomach cancer, which was moderated by Pn. Farnidah Jasnie via Google Meet on November 30, 2021. The following semester, March 2022 session, guest lecturers, Prof. Dr. Aris Doyan and Prof. Dr. Susilawati from the University of Mataram (UNRAM), Indonesia were invited to deliver a topic in chapter 6: radiation and its effect. At first, on June 14, 2022, a special topic on biological effects of radiation and nuclear accidents & their implications was given by both professors with background in physics education. Later on, June 21, 2022, they gave a lecture on current and emerging trends in radiation science which focus on advantages and disadvantages of medical devices and instrumentation in detection and treatment of diseases.



Figure 1: Guest lecturers from left to right: Associate Prof. Dr. Neoh Hui Min (UKM), Assistant Professor Dr. Faizatul Isyraqiah Ahmad Muhammad (MUCM), Prof. Dr. Aris Doyan and Prof. Dr. Susilawati (UNRAM).

Beginning the semester, of March 2022, a number of subject codes have been registered as CT, including code PHY351: Material Science under Nor Faranaz Shamin with model 1 (Content) which focuses on teaching delivery and material development. Meanwhile code FSG301: Laboratory Management as well as SULAM code under lecture in charge Mohd Ruzaleh Nurdik adapting Model 6 (Delivery & Assessment) which focus on teaching delivery and assessment.

By utilising knowledge from outside the campus or faculty, the CT has formed brings inspiration and innovation in TnL uniquely. Certificates of collaboration will be presented at the end of the semester that are approved by CIDL. In addition, approved CT project innovation can be documented in the MYATP teaching & learning innovation section.



Figure 2: Poster of Collaborating Teaching for both sessions.



“Smart people replace fear of radiation with understanding the radiation “

–Steven Magee–