UNIVERSITI TEKNOLOGI MARA
Cawangan Perak
Kampus Tapah

INSPIREd Virtual Ipoh International Summit on Professionalism, Research and Education 2022

ASRIC APPLIED SCIENCE RESEARCH INTERNATIONAL CONFERENCE

PROGRAMME BOOK

2ND Applied Science Research International Conference 2022

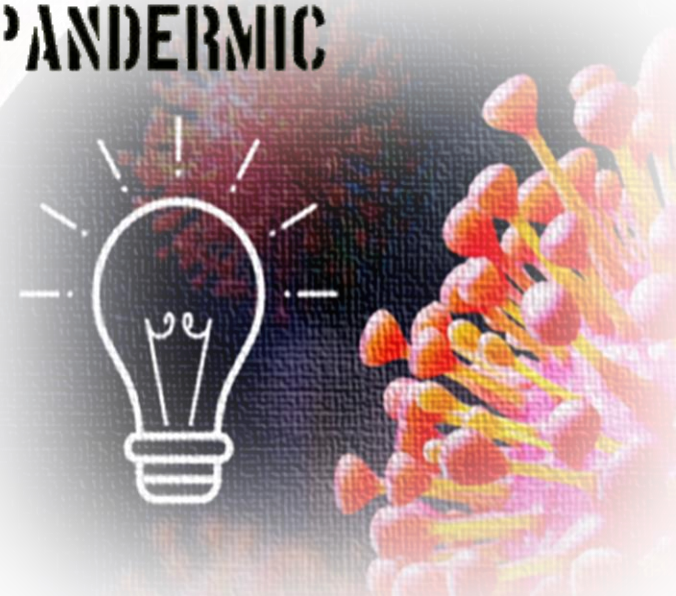
2ND ASRIC 2022

In conjuction with

Ipoh International Summit on Professonalism, Research and Education (INSPIREd) 2022

APPLIED SCIENCE
KEY AND CURRENT CHALLENGES
BEYOND THE PANDERMIC

21st September 2022
Virtual conference



Message from the

RECTOR UiTM PERAK

It gives me great pleasure to welcome all participants to the 2nd Applied Science Research International Conference 2022 (2nd ASRIC 2022) organized by Universiti Teknologi MARA (UiTM) Perak, Tapah branch in conjunction with Ipoh international summit on professionalism, Research, and Education (INSPIRED 2022),

Universiti Teknologi MARA has been actively doing and promoting scientific technological innovation, design and conferences in various field. Parallel to this, UiTM has organized many such events to broaden the mind of our young researchers and scientist, allowing them to extend their perspective and visions towards the development of new technologies and theories. Therefore, it is a great delight that UiTM Perak, Tapah Branch is organizing this event. This is a follow up even to similar event in 2019. Hence, it is expected that ASRIC 2022 will continue to provide another excellence platform for the mutual exchange of creative ideas, knowledge and information between the institutions and individuals.

ASRIC 2022 is part of UiTM Perak pursuit to disseminate the culture of knowledge excellence. It aims to bring together researchers and professionals in the context of multi and inter-disciplinary field. The event will provide excellent opportunities of knowledge sharing and research ideas exchanges in the field of science, technology and engineering for a better quality of life to meet future challenges.

This event has come at a time when current advancement in technology is immeasurable and I do hope that all participants will benefit from this virtual gathering of professionals not only in terms of getting touch with others in their field, but also taking chance to exchange and share ideas and opinions. It is our hope that this event will succeed in generating many new academic innovations, research findings and ideas in the near future.

Professor Ts. Sr. Dr. Md Yusof Hamid, *PMP, AMP*

Rector,

Universiti Teknologi MARA (UiTM Perak).

WELCOME AND SELAMAT DATANG

Warm Welcome to all of you to 2ND APPLIED SCIENCE RESEARCH INTERNATIONAL CONFERENCE 2022 (2ND ASRIC2022) which organized by the Faculty of Applied Sciences, Universiti Teknologi MARA Perak Branch, Tapah Campus in conjunction with the Ipoh International Summit on Professionalism, Research, and Education (InSPIREd 2022).

With the theme **"Applied Science: Key & Current Challenges beyond the Pandemic"**, this one-day conference will be run virtually, comprising three major tracks which are applied Biology, applied Chemistry and applied Physics but not limited to the following areas. We are welcoming multidisciplinary research. This conference will serve as a platform for international researchers, industries, academicians and students to share and exchange their findings in applied science research as well as promoting networking and collaboration.

The COVID-19 pandemic has affected a variety of researchers, students and academicians. As institutions of higher education have limited in-person activities, research and training have been disrupted. Many graduate students have faced new barriers as a result. With this theme, we hope we can provide an international forum to discuss topics and developing new knowledge relevant to the key and current challenge beyond the pandemic.

ASRIC2022 features two fabulous keynote lectures by Professor Dr. Nor Ashikin Mohamed Noor Khan (Faculty of Medicine, Universiti Teknologi MARA Malaysia) and Professor Dr. Hadi Nur (Center of Advanced Materials for Renewable Energy (CAMRY) Universitas Negeri Malang (UM) and three invited speakers by Assoc. Prof. ChM Dr. Zainiharyati Mohd Zain (School of Chemistry & Environment Universiti Teknologi MARA Malaysia),Dr Vipul Agarwal (University of New South Wales (UNSW) and Dr. Mohd Hafiz bin Mohd Zin (Advanced Medical and Dental Institute, Universiti Sains Malaysia).

I especially want to welcome all keynote speakers, invited speakers and participants. We received 173 oral presentations from all over Malaysia and also from Philippine. I am very pleased that you accepted our invitation. Thanks for the participation! All accepted full paper will be submitted for consideration for publication in Scopus/Mycite Indexed Journals.

Last but not least, Congratulations and thanks again to all keynote speakers, participants, co-organizers and committee members of ASRIC2022 for your effort and time. We look forward for your active participation.

Conference Chair,

Dr Nurul Izza Binti Taib

KEYNOTE SPEAKERS

Keynote Speakers

Professor Dr. Nor Ashikin Mohamed Noor Khan

A Professor of Physiology with Universiti Teknologi MARA (UiTM), Nor Ashikin Mohamed Noor Khan has taught biology and physiology to students across multiple faculties in UiTM, since the beginning of her academic career in 2000. Currently attached to the Faculty of Medicine, she is an external examiner for Physiology at several public and private universities. Nor Ashikin's research passion is in Reproductive Biology and Early Embryology. She heads the Maternofoetal and Embryo Research Interest Group (MatE), and is actively supervising MSc and PhD candidates in the area. A firm advocate of multidisciplinary research and public engagement, Nor Ashikin also mentors researchers from diverse backgrounds, in collaboration with industrial partners and non-profit organizations.

Pandemic Adaptations in Physiology Pedagogy: Turning challenges into novel opportunities

Traditionally, students of human Physiology were exposed to didactic lectures, followed by the opportunity to observe, explore and appreciate normal human function in laboratory sessions. This long-practiced pedagogy was disrupted when the Covid-19 pandemic hit. The Movement Control Order necessary for public safety, caused shutdowns of in-person teaching, with little or no access to laboratory facilities. Academic institutions worldwide had to rapidly make the transition into emergency remote teaching for students. These changes saw an adaptation to the "new normal" for Physiology, with the introduction of online lectures, as well as practical classes. Adjustments to teaching and learning methodologies posed significant challenges to both academicians and students. Academicians were faced with the challenge of learning new online teaching skills fast, and incorporating new online teaching modalities into the curriculum. Students were challenged with learning in isolation, reduced peer interaction, and studying in less conducive environments. On the flip side, the pandemic has indeed driven the use of online platforms, which allowed for greater geographical accessibility, as well as synchronous/asynchronous learning and assessment. The utilisation of remote teaching and learning modalities will pose an advantage in the future, by creating opportunities for better education delivery through blended or flipped learning.

Professor Dr. Hadi Nur

Professor Dr. Hadi from Center of Advanced Materials for Renewable Energy (CAMRY), Universitas Negeri Malang, Indonesia who is expert in Material Chemistry and Heterogeneous Catalyst. His research activities involve the integration of materials science, heterogeneous catalysis, fuel cell science and engineering in order to develop and characterize new materials for use in emerging technologies. He is currently the member of Perhimpunan Periset Indonesia, Associate Member of Pertubuhan Akademi Profesor Malaysia and Life Member of Malaysian Analytical Sciences Society

Structure–physical properties–photocatalytic activity relationship: An extent perspective using density-functional theory and fuzzy logic graph

Photocatalysis is currently used in a large variety of products across a broad range of research areas. Titanium dioxide (TiO2) has recently been the most commonly studied and suitable for industrial use among the many different photocatalysts because TiO2 has the highest photo-activity and the lowest cost. Although there are many publications about the enhancement of TiO2's photocatalytic activity, the relationship between the structural and physical properties with the photocatalytic activity of TiO2 is still not clearly understood. Carbon doped TiO2 (C-doped TiO2) was chosen as the photocatalyst model to explain the structure-photocatalytic relationship of TiO2. Carbon doping is a promising way to modify the properties of TiO2 for the enhancement of TiO2's photocatalytic performance. In this study, a new approach has been proposed to evaluate the structure-photocatalytic activity relationship to understand better the dominant properties that determine the photocatalytic activities of C-doped TiO2. The fuzzy logic graph has been used as a new approach in determining the dominant factor for the structure-photocatalytic activity relationship of C-doped TiO2. This study demonstrated that the combination of photocatalytic experiment, density functional theory (DFT) and fuzzy logic graph analysis could be used to predict the structure-photocatalytic activity relationship in TiO2 photocatalytic systems.

Invited Speaker

Assoc. Prof. ChM. Dr. Zainiharyati Mohd Zain

Dedicated and experienced University Associate Professor with over twenty years of experience serving as a Lecturer in the School of Chemistry and Environment, Faculty of Applied Sciences Universiti Teknologi MARA (UiTM) Shah Alam, Malaysia. Head of Electrochemical Material and Sensor (EMaS) UiTM and an active researcher in analytical chemistry bringing forth knowledge from a variety of sensor research. Adept in creating powerful curriculum in the fields of Analytical Chemistry. A committed faculty member, passionate about working to further enhance the educational offerings of an institution. Knowledgeable and experienced scientist in various chemical, electrochemical and optical sensor work. Great skill in writing research publications, grant proposal and product pitching.

Strategies and Challenges in the Pre-commercialization of SARS-coV-2 Nanobiosensor

Electrochemical nano biosensor for nucleic acids of COVID-19 detection in real nasopharyngeal samples offers an alternative detection of rapid and point of care detection to RTPCR. The developed COVID-19 sensor was able to significantly differentiate positive and negative samples using differential pulse voltammetry technique. Strategies in the success of COVID-19 sensor deployment begins from the planning and framework of this project. The project consists of six subprojects that focuses on the development of; (i) sensor fabrication and sensor surface characterization, (ii) DNA biosensor and LAMP reagent (iii) biological sample handling, extraction process and clinical testing, (iv) microfluidic channel system, (v) portable signal processing unit (portable potentiostat) and (vi) machine learning and internet of things module. Each project is carried out concurrently and fortnightly research presentations were compulsory for continuous monitoring of the research progress in achieving clear objectives laid earlier. There are many hurdles in doing clinical research in resource limiting setting. The delivering of unique reagents like extraction reagents were delayed from overseas was still a common problem in resource limited setting. Close collaboration with Standard Clinical Laboratory practices namely Institute of Medical Research (IMR), Ministry of Health Malaysia seems able to alleviate the challenges in clinical study. In this way, a culture of laboratory quality especially in new diagnostic method development is promoted and seen as valuable to everyone involved in clinical research of a COVID-19 biosensor development.

Controlling Polymer/Reduced Graphene Oxide Nanocomposite Properties Using Emulsion-based Approaches

Graphene-based polymer nanocomposites continue to draw considerable research interest due to their versatility in terms of physicochemical, mechanical and electrical properties for a variety of applications. However, many significant challenges still remain pertaining primarily to the restacking of graphene or reduced graphene oxide (rGO) sheets within the polymer matrix. The restacking of the rGO sheets compromises the final properties (especially electrical conductivity) of the nanocomposite. To mitigate the impact of restacking, rGO loading is traditionally increased in the nanocomposite. However, the intrinsic challenge of restacking of rGO sheets within the nanocomposite remains.1 We have developed synthetic strategies based on emulsion polymerisation using GO as a surfactant to fabricate polymer particles decorated with GO sheets (Figure 1). The obtained polymer/GO nanocomposite latexes can be easily moulded to prepare two-dimensional (2D) films at ambient temperature and 3D foams. The developed approach allowed us to tailor the physicochemical, electrical and mechanical properties of both 2D and 3D nanocomposites on demand.2-4 We will demonstrate that simple adjustments in synthetic strategy and reaction conditions can fundamentally change the orientation and arrangement of GO sheets within the 2D and 3D nanocomposites, leading to significant control over the nanocomposite properties. In addition, the potential applications of these polymer/rGO nanocomposites will also be highlighted.

Dr Vipul Agarwal

Dr Vipul Agarwal is a lecturer and University of New South Wales (UNSW) Research Fellow. He joined UNSW in 2018 on a prestigious Australian National Health and Medical Research Council (NHMRC) Research Fellow in the School of Chemical Engineering. Prior to this, he was awarded SERB-DST National Postdoctoral Fellowship to undertake postdoctoral training at the Indian Institute of Science, India. Dr Agarwal graduated with a PhD in Nanobiotechnology from The University of Western Australia, Australia in 2015, MApplSc in Chemistry from University of Tasmania, Australia in 2010, and BSc (Hons) in Chemistry from the University of Delhi, India in 2005. Dr Agarwal's current research interest is in materials chemistry focusing on development synthetic and fabrication strategies towards two- and three-dimensional scaffolds for tissue engineering including neuronal and bone regeneration.

Dr Mohd Hafiz Mohd Zin

Dr Hafiz received his first degree and subsequently his master's degree in medical physics at the University Sains Malaysia (USM) in 2006. He obtained his PhD in radiotherapy physics from the Joint Physics Department, Institute of Cancer Research London and the Royal Marsden Hospital UK. During his PhD, he was involved in developing prototype CMOS image sensors for real-time radiotherapy treatment verification. The work was part of a multi-institutional and multi-disciplinary research consortium funded by the Engineering and Physical Sciences Research Council (EPSRC UK) involving various universities and institution in the UK including University College London and Rutherford Appleton Laboratory, Oxford. In 2012, he returned to Malaysia to join the Advanced Medical & Dental Institute (AMDI) of USM, where he became a Senior Lecturer in Medical Physics at the institute.

Medical physics practice during the pandemic: remote and automated quality assurance of radiotherapy treatment

Medical physics is a branch of applied physics that uses physics principles, methods and techniques in clinical practice and research for the prevention, treatment and diagnosis of human disorders, illnesses and disabilities to improve human health and well-being. There are several areas of the fields including radiation oncology, medical imaging, nuclear medicine and radiation protection.

The talk will cover the roles of medical physicists in the hospital applying physics principles in the quality control of radiation equipment to ensure the safety of cancer treatment using radiation therapy. The talk will focus on the basis of quality assurance (QA) in medical physics practice and the implementation of QA remotely and automatically using computer algorithms developed for the purpose.

TENTATIVE AND ORAL PRESENTATION SCHEDULE

TENTATIVE AND ORAL PRESENTATION SCHEDULE

Date: 21st SEPTEMBER 2022 (WEDNESDAY)

Time: 10.50 am – 5.00 pm

Time									
8:00 – 8:30	**Registration**								
8:30 – 8:35	**Opening ceremony** (Link: https://uitm.webex.com/uitm/j.php?MTID=mc1252bdfb17f31eb3de1b59c26c45ac6) ***Emcee: Dr Nurul Ilham binti Adam*** ***Du'a' Recital: Ustaz Mohd Syukri Mohd Noor***								
8:35 – 8:40	**Welcoming Address by** ***Ts. Farieshа Farha Binti Ramli*** ***Head of Faculty*** ***Faculty of Applied Sciences, Universiti Teknologi MARA Perak Branch, Tapah Campus***								
8:40 – 8:50	**Opening Remark by** ***Profesor Sr. Dr. Md Yusof Hamid, PMP, AMP*** ***Rector UiTM Perak Branch***								
9:00 – 9:50	**KEYNOTE LECTURE** **Moderator:** ***Dr Nurul Ilham binti Adam***			**Professor Dr. Hadi Nur** *Center of Advanced Materials for Renewable Energy (CAMRY), Universitas Negeri Malang, Indonesia* ***Title: Structure–physical properties–photocatalytic activity relationship: An extent perspective using density-functional theory and fuzzy logic graph***					
9:50 – 10:40				**Professor Dr. Nor Ashikin Mohamed Noor Khan** ***Head Maternofetal and Embryo Research Group (MatE)*** *Faculty of Medicine, Universiti Teknologi MARA (UiTM), Malaysia* ***Title: Pandemic Adaptations in Physiology Pedagogy: Turning challenges into novel opportunities***					
10:40 – 10:50	**Break**								
Time	**INVITED SPEAKER** **Assoc. Prof. ChM. Dr. Zainiharyati Mohd Zain** ***Strategies and Challenges in the pre-commercialization of SARS-CoV-2 Nanobiosensor*** Link: https://meet.google.com/vwq-tmxv-wca Moderator:**Dr Fathiah Abdullah**			**INVITED SPEAKER** **Dr. Vipul Agarwal** ***Controlling Polymer/Reduced Graphene Oxide Nanocomposite Properties Using Emulsion-based Approache*** Link: https://meet.google.com/xkd-wuna-ovw Moderator:**Dr. Low Kim Fatt**				**INVITED SEPAKER** **Dr. Mohd Hafiz bin Mohd Zin** ***Medical physics practice during the pandemic: remote and automated quality assurance of radiotherapy treatment*** Link: https://meet.google.com/rep-bzih-ihq Moderator:**Mrs Rabiatul Adawiyah binti Abdul Wahab**	
10:50 – 11:30	**APPLIED BIOLOGY 1** **Room 1** https://meet.google.com/vwq-tmxv-wca Chairperson:**Mrs Tavasuria A/P Elangovan** Co-Chairperson: **Mrs. Saiyidah Nafisah binti Hashim**	**APPLIED BIOLOGY 2** **Room 2** https://meet.google.com/awm-cfnq-ofh Chairperson: **AP Ts Dr Indah Binti Mohd Amin** Co-Chairperson: **Mrs. Yanti Yaacob**	**APPLIED BIOLOGY 3** **Room 3** https://meet.google.com/yah-saqn-vbw Chairperson: **Dr Farizan binti Aris** Co-Chairperson: **Mrs. Suwaibah binti Mohamed**	**APPLIED CHEMISTRY** **Room 4** https://meet.google.com/xkd-wuna-ovw Chairperson: **ChM. Dr. Norliza Dzakaria** Co-Chairperson: **Mrs. Norsakina Zurina binti Zulkifli**	**APPLIED CHEMISTRY** **Room 5** https://meet.google.com/euw-xcdk-rsb Chairperson: **ChM. Dr. Suhaidi bin Ariffin** Co-Chairperson: **Mrs. Nunshaimah binti Salleh**	**APPLIED CHEMISTRY** **Room 6** https://meet.google.com/tcj-fsrq-vfk Chairperson: **Mr. Mohamad Hafiz bin Ahmad Tajudin** Co-Chairperson: **Mrs. Zildawarni Irwan**	**APPLIED CHEMISTRY** **Room 7** https://meet.google.com/ffh-uare-tan Chairperson: **Mrs Fazni Susila binti Abdul Ghani** Co-Chairperson: **Mrs Adibatul Husna Fadzil**	**APPLIED PHYSICS 1** **Room 8** https://meet.google.com/rep-bzih-ihq Chairperson: **PM. Ts. Dr. Nur Helmi@Nur Jannah bt Azman** Co-Chairperson: **Mr Muhammad Najib Harif**	**APPLIED PHYSICS 2** **Room 9** https://meet.google.com/xmr-ackk-eiw Chairperson: **Mrs Siti Sumaiyah bt Sheikh Abdul Aziz** Co-Chairperson: **Mrs Mazlini Binti Mazlan**
11:30	**KHAIRUL ANUAR BIN MAT AMIN (ABP01)** EVALUATION OF IN-VIVO STUDY OF KELCOGEL INCORPORATED HONEY AS WOUND DRESSING	**NURUL NABILA HUDA BINTI BAHARUDIN (ABP107)** ENHANCED BIOTRANSFORMATION OF STARCH TO *β*-CYCLODEXTRIN BY USING HIGH VIABILITY OF IMMOBILIZED *ESCHERICHIA COLI* ON HOLLOW FIBRE MEMBRANE AS WHOLE CELL BIOCATALYST	**NURUL AZYLA BINTI AZMI (ABP149)** MICROBIOLOGICAL QUALITY AND ANTIMICROBIAL SUSCEPTIBILITY PROFILE OF THE ISOLATES FROM BEVERAGES SOLD AT RAMADAN BAZAAR IN KUCHING, SARAWAK	**ZAFIRAH BINTI ZENOL ABIDIN (ACP05)** LACTIC ACID PRODUCTION FROM POTATO WASTE USING RESPONSE SURFACE METHODOLOGY (RSM)	**SHAFINAS BINTI ABDULLAH (ACP76)** PHYTOCHEMICAL SCREENING OF *ALLIUM SATIVUM* EXTRACTS AND ITS POTENTIAL AS ANTIBACTERIAL ADDITIVE IN HANDWASHING SOAP FORMULATION	**LOH SAW HONG (ACP82)** MEASUREMENT UNCERTAINTY OF MAGNETIC MOLECULARLY IMPRINTED POLYMER-BASED MICRO-SOLID-PHASE EXTRACTION OF SELECTED POLYCYCLIC AROMATIC HYDROCARBONS IN WATER	**MUHAMMAD ASYRAAF BIN MOHD RAZALI (ACP89)** EFFECT OF CATALYST SUPPORTS ON THE PHYSICOCHEMICAL PROPERTIES OF Cu BASED CATALYST	**SITI AISYAH BINTI SHAMSUDIN (APP14)** ENCAPSULATED ORTHOSIPHON STAMINEUS (OS) IN STABLE NANOEMULSION SYSTEM	**NURUL EHSAN BIN RAMLI (APP22)** CONFUSION MATRIX ANALYSIS OF PERFORMANCE MEASURES FOR CORNER DETECTION ALGORITHM
11:45	**NUR HIDAYATUL FATIHAH BINTI JOHARI (ABP06)** A REVIEW ON: SUGAR PROFILES AND ORGANIC ACID ON QUALITY OF POSTHARVEST	**WAN SURIYANI FALIQ ADEEBA WAN IBRAHIM (ABP103)** PHYTOCONSTITUENTS ANALYSIS AND IN VITRO ANTIPROLIFERATIVE ACTIVITY OF *ABRUS PRECATORIUS* LEAVES ON CANCER CELLS	**SITI NOR ANI AZAMAN (ABP153)** TRANSCRIPTOMIC ANALYSIS OF ACCLIMATORY RESPONSES TO LIGHT STRESS IN *C. SOROKINIANA*	**RUBIA IDRIS (ACP08)** OPTIMISATION OF MICROWAVE-INDUCED CO-PYROLYSIS OF WASTE ENGINE OIL WITH PALM KERNEL SHELL FOR THE SYNTHESIS OF DIESEL-LIKE FUEL USING RSM	**ROSMAWATI BINTI ABDUL AZIZ (ACP20)** PHYTOCHEMICAL SCREENING AND ANTIBACTERIAL ACTIVITY OF *PIMELODENDRON GRIFFITHIANUM* EXTRACTS	**NORDIANA SUHADA BINTI MOHMAD TAHIRUDDIN (ACP41)** OPTIMISATION OPERATING PARAMETERS OF PALM FROND SILICA-BASED DISPERSIVE SOLID PHASE EXTRACTION FOR DETERMINATION ORGANOCHLORINE PESTICIDES.	**KHAIRIL JUHANNI BINTI ABD KARIM (ACP86)** DEPOLYMERIZATION OF POLY(ETHYLENE TEREPHTALATE) BY GLYCOLYSIS IN TRIFLOUROACETIC ACID WITH IONIC LIQUID AS CATALYST	**NURUL HUDA BT MOHD NOOR (APP143)** EFFECT OF ANNEALING TEMPERATURE ON THE STRUCTURAL PROPERTIES OF Cr-DOPED TiO_2 NANOPARTICLES PREPARED BY SOL-GEL METHOD	**FARAH DIANA MUHAMMAD (APP16)** DUAL-PUMP PASSIVELY Q-SWITCHED THULIUM-DOPED FIBER LASER USING CARBON NANOTUBES AS SATURABLE ABSORBER
12:00	**NUR FARIZA BINTI M. SHAIPULAH (ABP62)** TEMPORAL VARIATION IN FLORAL NECTAR VOLUME AND CONCENTRATION FROM FEMALE INFLORESCENCE OF OIL PALM	**CHOWDHURY FORHADUL KARIM (ABP110)** ANTI-TUMOR EFFECT OF METFORMIN HCl ORAL TABLETS ON HUMAN CERVICAL ADINO CARCINOMA CELL LINE (HELA).	**NUR HUSNINA IFFAH BINTI BAKAR (ABP160)** *HIBISCUS ROSA SINENSIS* EXTRACT AS ACTIVE ANTIOXIDANT AGENT IN LIPSTICK FORMULATION	**SALINA BT MAT RADZI (ACP59)** OPTIMIZATION OF THE BIODIESEL PRODUCTION VIA TRANSESTERIFICATION REACTION OF PALM OIL USING RESPONSE SURFACE METHODOLOGY (RSM): A REVIEW	**SUMATHY A/P RAGHAVAN (ACP120)** EFFECT OF SAMPLE PREPARATION AND DISTILLATION TIME ON THE YIELD AND CHEMICAL COMPOSITION OF THE ESSENTIAL OIL OF *PLECTRANTHUS AMBOINICUS* LEAVES	**NUGGUNDHA RAOOV (ACP44)** *β*-CYCLODEXTRIN CROSSLINKED-2,4-TOLUENE DIISOCYANATE ENCAPSULATED IN CELLULOSE BASED MEMBRANE PROTECTED-*μ*-SOLID-PHASE EXTRACTION DEVICE FOR ENHANCING THE SEPARATION AND PRECONCENTRATION OF AROMATIC AMINES IN ENVIRONMENTAL WATER SAMPLES	**NURUL JANNAH BINTI ABD RAHMAN (ACP26)** ULTRASOUND-ASSISTED 3rd GENERATION BIODIESEL PRODUCTION USING Bi_2O_3/ZrO_2 HETEROGENEOUS CATALYST	**HASLINAWATI BINTI MOHD MUSTAPHA (APP49)** THE EFFECT OF GROWTH TIME ON GRAPHENE FORMATION USING PLASMA ENHANCED CVD	**MOHAMAD FARID BIN MOHD HAYATI (APP31)** MALAY DIALECT IDENTIFICATION USING GOOGLE SPEECH-TO-TEXT AND GPT MODELS
12:15	**ZATUL IFFAH BTE MOHD ARSHAD (ABP47)** APPLICATION OF TWO-LEVEL FULL FACTORIAL DESIGN FOR THE EXTRACTION OF ANTIOXIDANT ACTIVITIES *FROM DECAPTERUS MARUADSI* (IKAN SELAYANG) WASTE BY WET RENDERING METHOD	**NORHAFIZA MOHD ARSHAD (ABP105)** GREEN SYNTHESIS OF COPPER OXIDE NANOPARTICLES FROM *CAMELLIA SINENSIS* EXTRACT AND ITS TOXICITY EFFECTS ON CANCER CELLS	**MOHD NAZRI ABDUL RAHMAN (ABP19)** DEVELOPMENT OF KOMBUCHA HERBAL TEA MIXED WITH BLACK JELLY MUSHROOMS (*AURICULARIA POLYTRICHA*)	**AEMI SYAZWANI ABDUL KEYON (ACP13)** ARDUINO-BASED CONTINUOUS WATER QUALITY MONITORISG DEVICE FOR TOTAL DISSOLVED SOLIDS AND TURBIDITY LEVEL IN TASIK ILMU UNIVERSITI TEKNOLOGI MALAYSIA	**NORLYIANA BINTI N.R.AZMEE (ACP56)** THE PHYTOCHEMICAL PROFILE OF LIVERWORTS FROM CAMERON HIGHLAND, PAHANG, MALAYSIA	**NORIZAT BIN YAA'KUB (ACP65)** DEVELOPMENT OF ONLINE-SOLID PHASE EXTRACTION METHOD FOR SIMULTANEOUSLY DETERMINATION OF SELECTED NON-STEROIDAL ANTI INFLAMMATORY AND TETRACYCLINES IN WATER SAMPLE USING LIQUID CHROMATOGRAPHY ANALYSIS	**SITI KAMILAH BINTI CHE SOH (ACP42)** CATALYTIC STUDY OF 4-BROMOACETOPHENONE IN THE SUZUKI-MIYAURA CROSS-COUPLING REACTION BY CONTROLLABLE-EFFECTIVE AND REUSABLE MAGNETIC SUPPORTED PALLADIUM(II)-N_2O_2 CATALYST	**CHEONG WEI MUN (APP133)** DEVELOPMENT OF REDDISH-ORANGE EMISSION OF EUROPIUM DOPED WILLEMITE FOR THE POTENTIAL PHOSPHOR HOST MATERIAL	**NURUL FATHINAH BINTI AZRISHAM (APP144)** BISTABILITY ANALYSIS OF THERMAL AND RING RADIUS EFFECTS IN NONLINEAR MICRORESONATOR WAVEGUIDE
12:30	**SHARIFAH MASIT'AH BT SYED ESA (ABP53)** TEMPORAL REGULATION OF ESTRAGOLE EMISSION IN *ELAEIS GUINEENSIS* FLOWERS	**NUR JULIANI SHAFIE (ABP61)** PREVALENCE OF PATHOGENIC *LEPTOSPIRA SPP.* IN SMALL MAMMALS FROM DUNGUN, TERENGGANU.	**MST LAILA NAHER (ABP52)** GREY OYSTER MUSHROOM (*PLEUROTUS SAJOR CAJU*) SPAWN PRODUCTION USING LOCAL GRAIN	**FARIHAHUSNAH HUSSIN (ACP84)** POROUS CARBON PELLET DERIVED FROM PLASTIC WASTE AS AN EFFECTIVE ADSORBENT FOR CARBON DIOXIDE ADSORPTION	**NUR AZRA BINTI ZULKEPLI (ACP38)** ANTIOXIDANT ACTIVITY OF SPRAY DRIED EDIBLE BIRD'S NEST HYDROLYSATE	**NUR NADHIRAH MOHAMAD ZAIN (ACP39)** DETERMINATION OF PESTICIDES RESIDUES IN FOOD MATRIX USING DEEP EUTECTIC SOLVENT BASED LIQUID-LIQUID EXTRACTION	**KOH JUNG HUNG (ACP12)** COOLING CAPACITY AND ENERGY EFFICIENCY STUDIES COMPARING COMMERCIAL GRADE AND REFRIGERANT GRADE PROPANE (C_3H_8) USED AS "DROP-IN" REFRIGERANT IN A "SPLIT TYPE" AIR-CONDITIONER	**LOH ZHI WEI (APP134)** SYNTHESIS OF FLUORIDE-CONTAINING GLASS-CERAMICS DERIVED FROM WASTE RESOURCE AS CANDIDATE MATERIALS FOR DENTAL APPLICATION	**MOHAMMAD AMIRUL HAIROL AMAN (APP23)** IMPROVEMENT OF CARRIER CONFINEMENT FOR ALGAN-BASED DUV-LED WITH OPTIMIZED WEDGE-SHAPED ELECTRON BLOCKING LAYER
12:45	**NUR ATHIRAH BINTI ZARIMAN (ABP63)** EVALUATION OF POLLEN VIABILITY BY COLORIMETRIC ANALYSIS OF GUAVA CULTIVARS	**KHAIRUNNISA BINTI AHMAD (ABP32)** THE EVALUATION OF GENDER EFFECT FOR DETERMINING THE PREVALENCE OF Q FEVER IN SAANEN DAIRY GOATS AT UniSZA PASIR AKAR FARM	**NORMAWATY MOHAMMAD-NOOR (ABP02)** A STUDY ON ALLELOPATHY EFFECTS OF *DINOFLAGELLATE MARGALEFIDINIUM (COCHLODINIUM) POLYKRIKOIDES* ON TOXIC *PYRODINIUM BAHAMENSE*	**SITI NURUL AIN BINTI MD. JAMIL (ACP119)** SYNTHESIS OF HYPERCROSSLINKED POLYACRYLONITRILE FOR THE ADSORPTION OF PHARMACEUTICALS FROM AQUEOUS SOLUTION	**ASNUZILAWATI ASARI (ACP79)** SYNTHESIS, CHARACTERIZATION AND ANTIAMOEBIC PROPERTIES OF EUGENOL DERIVATIVES AGAINST *ACANTHAMOEBA CASTELLANII*	**FARAHNAZ BINTI MOHAMMAD ANWAR (ACP68)** EXPERIMENTAL DESIGN FOR THE OPTIMIZATION OF DISPERSIVE MICRO SOLID PHASE EXTRACTION OF PHENANTHRENE AND FLUORENE IN BEVERAGES USING LIQUID CHROMATOGRAPHY ANALYSIS	**NURUL AMNI BINTI ABDULLAH (ACP118)** EFFECT OF HYDROPHOBIC MODIFICATION ON EGGSHELL MICROPARTICLES FOR THIN FILM COMPOSITE MEMBRANE	**NOR ASMIRA BINTI AMARAN (APP154)** STRUCTURAL AND MORPHOLOGY OF $Pr_{0.7}Ba_{0.3}MnO_3$	**SITI SARAH SAFAAI (APP130)** FLUCTUATION ANALYSIS OF ELECTROMYOGRAPHY (EMG) SIGNAL
	Break/Lunch (13:00 – 14:30)								
14:30	**NURUL ALIA BINTI OMAR (ABP64)** DISTRIBUTION OF INSECT IN ORGANIC GUAVA (*PSIDIUM GUAJAVA*) ORCHARD AT LANCHANG, PAHANG	**NURUL IZZAH BINTI ANUAR (ABP33)** THE RELATIONSHIP OF PRE-WEANING GROWTH, LITTER SIZE AND SURVIVAL RATE OF SAANEN GOAT KIDS AT UniSZA PASIR AKAR FARM	**NADIATUL AZIMAH BINTI MOHD RAZALI (ABP111)** A REVIEW OF SOIL ORGANIC CARBON IN SOUTHEAST ASIAN MANGROVE ECOSYSTEMS	**NURUL AISYAH BINTI MOHD ADZMAN (ACP93)** IMPACT OF RECYCLED OLEOPHILIC POLYURETHANE FOAMS ENFOLDED WITH ACTIVATED CARBON AND SILICA ENRICHED-PALM OIL BIOMASS FOR OIL REMOVAL	**NUR AIMAN NAJWA BT KAMARUL BAHARIN (ACP57)** SYNTHESIS, CHARACTERIZATION AND ANTIBACTERIAL STUDY OF 2-(4-CHLOROPHENYL)BENZIMIDAZOLE: DISC DIFFUSION AND DFT STUDIES	**ROSSURIATI DOL HAMID (ACP92)** A COMPARATIVE ACCURACY STUDY FOR QUANTIFICATION OF DICLOFENAC SODIUM IN ENTERIC-COATED TABLET BRANDS USING THREE STANDARD CALIBRATION METHODS	**NURUL HAKIMAH BINTI MOHD LAZIM (ACP46)** THERMAL AGING RESISTANCE AND ZETA POTENTIAL PROPERTIES FOR IRRADIATED NATURAL RUBBER LATEX BASED BLEND	**NUR 'AIN HAMDAN (APP51)** INFLUENCE OF 'A' SITE DOPED SUBSTITUTION ON STRUCTURAL, MAGNETIC AND ELECTRIC PROPERTIES IN La-BASED MANGANITES	**NIK AHMAD FARIS BIN NIK ABDULLAH (APP141)** CONTACTLESS SMART GATE WITH AUTOMATIC TEMPERATURE DETECTION AND TOUCHLESS SANITIZER DISPENSER

POSTER PRESENTATION SCHEDULE

14:45	**HEERAVATHY RAMACHANDRAN (ABP97)** ANTIOXIDANT ANALYSIS OF PROTEIN FROM FRESH AND DRY LEAF OF *ORTHOSIPHON STAMINEUS*	**NOOR FATIHAH NAJIHAH BINTI ARAZMI (ABP100)** DIETARY ANALYSIS OF HOUSE-FARMED SWIFTLET *(AVES, APODIDAE, AERODRAMUS SP.)* IN AGRICULTURAL LAND OF PENINSULAR MALAYSIA USING HIGH-THROUGHPUT SEQUENCING	**NADZIFAH BINTI YAAKUB (ABP151)** THE EFFECTIVENESS OF EFFECTIVE MICROORGANISMS (EM) MUDBALL IN IMPROVING CHINI LAKE'S WATER QUALITY	**NOORLIN BINTI MOHAMAD (ACP122)** PRESENCE OF AIRBORNE MICROPLASTICS IN UNIVERSITI MALAYSIA TERENGGANU, TERENGGANU	**SAHLINAH BINTI ABDUL RAKMAN (ACP73)** *SHOREA STENOPTERA* AND *SHOREA PINANGA* SEEDS AND OILS: ELUCIDATION OF PROXIMATE, MINERAL, ANTI-NUTRITIVE FACTORS, FATTY ACID PROFILE AND ANTIOXIDANT ACTIVITY	**HAFIZA BINTI MOHAMED ZUKI (ACP87)** *N*-METHYL-D-ASPATIC ACID (NMDA) AS A RECEPTOR FOR DETECTION OF DOMOIC ACID IN SELECTED SHELLFISH USING ENZYME-LINKED IMMUNOSORBENT ASSAY (ELISA) TECHNIQUES.	**NAZWA BINTI JON (ACP77)** SYNTHESIS AND CHARACTERIZATION OF Ag/TiO_2 NANOPARTICLES USING *OROXYLUM INDICUM* EXTRACT	**MUHAMMAD AFIQ IKHWAN BIN ZAINUDDIN (APP155)** CHARACTERIZATION AND CRYSTAL STRUCTURE OF $La_{0.7}Pb_{0.3}MnO_3$ PEROVSKITE MANGANITE	**NIK AHMAD FARIS BIN NIK ABDULLAH (APP161)** EFFECT OF ELECTRON BEAM IRRADIATION IN THE PRESENCE OF TMPTA AND TPGDA AS AN INITIATOR ON MECHANICAL PROPERTIES OF LLDPE/CY BIOCOMPOSITES
15:00	**ROHAIDA BINTI CHE MAN (ABP21)** EFFECT OF PROCESS PARAMETERS ON IMMOBILIZATION OF RECOMBINANT *ESCHERICHIA COLI* ON PINEAPPLE PEEL	**ANIS SITI NOORZULAIKHA BINTI SUDIN (ABP94)** ISOLATION AND ANTIMICROBIAL ACTIVITIES OF *ACTINOMYCETES* ISOLATED FROM RAFFLESIA AREA IN HULU SLIM, PERAK	**NORASMAH BASARI (ABP99)** THE EFFECT OF FOOD REWARD AND DISTANCE ON FORAGING STINGLESS BEE, *HETEROTRIGONA ITAMA*	**NAWAL BINTI MOHD NORDIN (ACP60)** A REVIEW ON APPLICATION OF IMMOBILIZED PEROXIDASE TECHNOLOGIES IN WASTEWATER TREATMENT	**SITI SOFO ISMAIL (ACP55)** MICROBIAL PHOSPHOLIPID FATTY ACIDS DISTRIBUTION AT ACTIVE DECAY ASSOCIATED WITH DECOMPOSITION OF CADAVER BURIED IN NAMI SERIES SOIL OF BUKIT KOR MARANG	**SYARIFAH NURSYIMI AZLINA BINTI SYED ISMAIL (ACP90)** OPTIMIZATION STUDIES OF COAL ORGANIC SULFUR REMOVAL WITH POTASSIUM CARBONATE AND ETHYLENE GLYCOL AS A DEEP EUTECTIC SOLVENT	**MOHAMMED ALHAJI MOHAMMED (ACP10)** THE EFFECT OF ACID HYDROLYSIS PARAMETERS ON THE PROPERTIES OF NANOCELLULOSE EXTRACTED FROM ALMOND SHELLS	**FAZLINASHATUL SUHAIDAH BINTI ZAHID (APP142)** A RECENT PROGRESS OF GRAPHENE OXIDE/METAL OXIDE COMPOSITE FOR HUMIDITY SENSOR APPLICATIONS	**NORATIQAH BINTI YUSOP (APP167)** LARGE MAGNETIC ENERGY PRODUCT IN BILAYER OF BARIUM HEXAFERRITE /YIG THIN FILM
15:15	**NUR AQILAH BINTI JAMAL ABDUL NASIR (ABP101)** BIOTECHNOLOGICAL PRODUCTION OF BIOFLAVORS USING YEAST: A REVIEW	**NABILL AFIFF BIN ABDUL SAMAD (ABP98)** IDENTIFICATION OF ANTHOCYANIN IN *HIBISCUS SABDARIFFA LINN.* EXTRACT AND ITS ANTIOXIDANT ACTIVITY	**PEACE ONAS SOMDARE (ABP163)** POTENTIAL EFFECTS OF DIETARY PINEAPPLE EXTRACTS AS FEED ADDITIVE ON THE GROWTH, BODY INDICES AND SURVIVAL OF RED CLAW CRAYFISH, *CHERAX QUADRICARINATUS*	**AINA ARIFAH BINTI KHALID (ACP115)** THE OCCURRENCE OF MICROPLASTIC IN SEDIMENT OF SELECTED BEACHES IN TERENGGANU	**NUR IZZATI BINTI ABD RAZAK (ACP114)** MICROPLASTICS IN ASEAN FRESHWATER SEDIMENTS: A REVIEW OF METHODOLOGIES, OCCURRENCE LEVELS AND EFFECTS ON AQUATIC ORGANISMS.	**SHARIFAH SHAHIRA BINTI SYED PUTRA (ACP43)** AN IMPROVED IMMOBILIZED ENZYMATIC INDIRECT METHOD OF 3-MCPD ESTERS IN OLIVE OILS USING DEEP EUTECTIC SOLVENTS (DESS) AND NANOCELLULOSE	**FARHANINI BINTI YUSOFF (ACP69)** THE PHYSICAL AND ELECTROCHEMICAL CHARACTERIZATION OF SILVER NANOPARTICLES INCORPORATED WITH MAGNETITE/REDUCED GRAPHENE OXIDE AS POTENTIAL CATALYST FOR ELECTROCHEMICAL SENSOR APPLICATION	**NORSYAHIDAH BINTI MOHD HIDZIR (APP136)** GAMMA IRRADIATION-INITIATED GRAFT POLYMERISATION OF ePTFE FUNCTIONING AS pH-THERMO RESPONSIVE COPOLYMER	**NURSYAHIRAH BINTI MASDAN (APP137)** EFFECTS OF LASER ANNEALING ON THE PROPERTIES OF ITO/Ag/ITO MULTILAYER FILMS FOR OLED APPLICATIONS
15:30	**THILAHGAVANI NAGAPPAN (ABP150)** DISCOVERING THE POTENTIALS OF *ZINGIBERACEAE* VOLATILES AGAINST RICE WEEVIL *(SITOPHILUS ORYZAE L.)*	**SITI HAJAR BINTI SADIRAN (ABP07)** EPIGENETIC MODIFIERS AS TOOLS FOR THE STUDY OF SECONDARY METABOLITES PRODUCTION OF *ASPERGILLUS LONGIVESICA* SHSF	**NOOR WINI BINTI MAZLAN (ABP104)** PYRROLOPYRAZINE, IS AN INDUCED METABOLITE FROM A CO-CULTURE BETWEEN *STREPTOMYCES SP.* AND *FUSARIUM SP.*	**NUR AMIRA SOLEHAH BINTI PUNGUT (ACP74)** A TURN ON FLUORESCENT SENSOR FOR DETECTING Al^{3+} AND COLORIMETRIC DETECTION FOR Cu^{2+}: SYNTHESIS, CYTOTOXICITY AND ON-SITE ASSAY KIT	**INTAN DIANA MAT AZMI (ACP80)** ATORVASTATIN LOADED GLYCOLIPID-BASED NON-LAMELLAR LIQUID CRYSTALLINE NANOPARTICLES: FORMULATIONS, CHARACTERIZATION AND ITS BINDING INTERACTION WITH HMG-CoA REDUCTASE VIA IN-SILICO MOLECULAR DOCKING	**MOHD AZLAN BIN KASSIM (ACP81)** EVALUATION OF CHOLINE HYDROXIDE-BASED DEEP EUTECTIC SOLVENT AQUEOUS SOLUTION SYSTEM AS SOLVENT FOR ABSORPTION OF CARBON DIOXIDE	**AZRILAWANI AHMAD (ACP88)** FUN COMIC STRIP FOR BETTER UNDERSTANDING IN ELECTROCHEMISTRY SUBJECT	**HUSNIYAH ALIYAH BINTI LUTPI (APP139)** INFLUENCE OF THERMAL SHOCK CYCLE ON THE THERMAL SHOCK RESISTANCE PROPERTIES OF LAS GLASS-CERAMIC	**NUR SYUKRIAH AB RAHMAN (APP146)** PRELIMINARY STUDY ON THE SELECTION OF SELF-HEATING ELEMENTS IN SELF-HEATING PAD FOR TUNA PACKAGING
15:45	**IZWAN BHARUDIN (ABP17)** THE POTENTIAL OF *STREPTOMYCES SP.* AS BIOLOGICAL CONTROL FOR OIL PALM PATHOGEN	**JOYCE CYNTHIA BINTI JALANI (ABP96)** MESOPHILE PLA-DEGRADING BACTERIA ISOLATED FROM PEKAN, PAHANG, MALAYSIA LANDFILL SOIL	**SALWA BINTI SHAHIMI (ABP102)** THE DIVERSITY OF *RHIZOPHORACEAE* SPECIES IN MALAYSIAN MANGROVE	**TUAN MOHAMAD FAUZAN TUAN OMAR (ACP75)** OCCURRENCE AND DISTRIBUTION OF BISPHENOL A (BPA) AND 17B-ESTRADIOL (E2) IN THE SURFACE WATER OF IBAI RIVER, TERENGGANU, MALAYSIA	**JAMUNAA A/P RAVINDRAN (ACP126)** IN SILICO STRUCTURE PREDICTION AND MOLECULAR DOCKING STUDIES OF DGAT1-2 PROTEIN FROM *ELAEIS GUINEENSIS* WITH OLEOYL-CoA	**NADRAHTUL HUDA BINTI MISRAL (ACP28)** FLUORESCENCE OPTICAL SENSOR BASED ON BIS-INDOLYLMETHANE DERIVATIVE FOR DETECTION OF Pb(II) ION	**NURUL IZZATI BINTI SHAHARIMAN (ACP157)** THE EFFECT OF POLYMERIZATION POTENTIAL ON THE PROPERTIES OF PEDOT/SPCE	**AHMAD NADZIMUDDIN BIN NAZMI (APP135)** DOPANT CONCENTRATION ANALYSIS ON ENERGY BAND AND RATE OF RECOMBINATION OF LED CHIP	
16:00	**PAVETHRA A/P SIVANESAN (ABP34)** PARAMETRIC SCREENING OF FERMENTATION CONDITIONS FOR PROTEASE PRODUCTION FROM PINEAPPLE WASTE	**WAN SYAIDATUL AQMA WAN MOHD NOOR (ABP04)** EVALUATION OF POLYETHYLENE TEREPHTHALATE (PET) PLASTIC DEGRADING BACTERIA	**DR PRISCILLA DAS (ABP35)** ASSOCIATION BETWEEN ENDOTHELIAL PROGENITOR CELLS AND INFLAMMATORY CELLS (MACROPHAGES) IN ASTROCYTIC GLIOMA		**MAISARAH BINTI JAAFAR (ACP117)** PHYTOEXTRACTION OF POTENTIALLY TOXIC ELEMENTS USING REPLANTED *RHIZOPHORA* SPECIES IN ECOCARE, KERTIH	**JAHWARHAR IZUAN BIN ABDUL RASHID (ACP123)** ULTRASENSITIVE NON-ENZYMATIC URIC ACID ELECTROCHEMICAL SENSOR BASED ON SILICON NANOWIRES (SiNWs) MODIFIED SCREEN-PRINTED CARBON ELECTRODE (SPCE)	**MOHAMMAD AZIMUDDIN BIN IZANI (ACP83)** VALIDATION OF ANALYTICAL METHOD FOR TESTING THE LEVELS OF ILLICIT DRUGS IN MUNICIPAL WASTEWATER INFLUENT SAMPLES		
CLOSING CEREMONY (16:15) Link: https://uitm.webex.com/uitm/j.php?MTID=mc1252bdfb17f31eb3de1b59c26c45ac6									

POSTER PRESENTATION SCHEDULE

APPLIED CHEMISTRY

RADIN SITI FAZLINA NAZRAH HIRZIN (ACP27) THE HYDROXYLATION OF RESIDUAL FRYING COOKING OIL BASED POLYOL AS POLYURETHANE PRECURSOR	NURUL ILHAM ADAM (ACP37) A METHODOLOGY FOR DEVELOPING MODIFIED POLYURETHANE FILM FROM THREE MONOMERS	NOOR MAIZURA ISMAIL (ACP40) EFFECT OF HALLOYSITE NANOTUBES LOADINGS ON THE MORPHOLOGICAL AND MECHANICAL PROPERTIES OF POLYSULFONE MIXED MATRIX MEMBRANES FOR GAS SEPARATION	LAILATUN NAZIRAH OZAIR (ACP45) SYNTHESIS AND CHARACTERIZATION OF PALLADIUM (II) COMPLEX WITH VARIOUS TYPES OF AMMONIUM SALTS, PALLADIUM SALTS AND ORGANIC SOLVENTS BY THE NON-TEMPLATE METHOD	NOR AZWIN BINTI AHAD (ACP58) THE EFFECTS OF SEASHELLS AS FILLER IN EPOXY COMPOSITES	ROPISAH BINTI ME (ACP66) CHARACTERIZATION OF AgNPS-Ei SYNTHESIZED USING ELEUSINE INDICA EXTRACT AND ITS BIOLOGICAL ACTIVITY	NURUL IZZA TAIB (ACP70) SYNTHESIS AND CHARACTERIZATION OF THE MAGNETICALLY SEPARABLE COMPOSITE OF IRON OXIDE AND GRAPHITIC CARBON NITRIDE
ZAINATHUL AKHMAR SALIM ABDUL SALIM (ACP85) POTENTIAL BIO-FILLER CELLULOSE DERIVED FROM CUCUMBER POMACE FILLED NATURAL RUBBER LATEX FILMS	ERNEE NORYANA MUHAMAD (ACP121) EFFECT OF PREPARATION METHOD ON THE BIODIESEL PRODUCTION FROM COOKING OIL CATALYZED BY NiO/CaO CATALYST	MUZAKKIR BIN MOHAMMAD ZAINOL (ACP124) PRETREATMENT OF EMPTY FRUIT BUNCH USING VARIOUS OF CHOLINE CHLORIDE-BASED ACIDIC DEEP EUTECTIC SOLVENT	SABRINA M YAHAYA (ACP147) CHARACTERIZATION AND IMPEDANCE STUDIES OF PANI AND PANI/PMAP COATINGS FOR CORROSION PROTECTION OF MILD STEEL	NOORZALILA MUHAMMAD NIZA (ACP78) ELECTROCOAGULATION WITH VIBRATION-INDUCED ELECTRODES: ASSESSMENT OF PLATE RESISTANCE AND FLOCCULATION BEHAVIOUR	NURUL FASIHA BINTI MOHAMAD ISA (ACP67) METHODS FOR GELATIN AUTHENTICATION IN PHARMACEUTICAL PRODUCTS	

APPLIED BIOLOGY

MOHD NAZRI ABDUL RAHMAN (ABP18) DEVELOPMENT OF CANNED TAUSI FISH MIXED WITH BLACK JELLY MUSHROOM	KHAIRUL AZREENA BINTI BAKAR (ABP36) INTERACTIONS BETWEEN MITRAGYNINE AND HUMAN TRANSPORT PROTEINS BY SPECTROSCOPIC AND MOLECULAR SIMULATION STUDIES	SITI MAZLEENA MOHAMED (ABP54) BIOLOGICAL ACTIVITY OF GARCINIA ATROVIRIDIS (ASAM GELUGOR) STEM BARK EXTRACT	BALKIS BALLINA UKHRA BINTI YUNUS (ABP95) INTESTINAL PARASITIC CONTAMINATION IN COMMONLY CONSUMED VEGETABLES FROM WET MARKETS IN PULAU PINANG: A SHORT STUDY	AISHAH BINTI ELIAS (ABP106) DETECTION AND IDENTIFICATION OF SALMONELLA SPP. FROM CHICKEN PROCESSING PLANT BY POLYMERASE CHAIN REACTION (PCR).	MUHAMMAD SYUKRI BIN NOOR AZMAN (ABP108) LACTOBACILLUS PLANTARUM LAB12 MEDIATED CROSSTALK BETWEEN ENS AND CNS THROUGH MODULATION OF NEUROTRANSMITTERS, NEUROPEPTIDES, GUT HORMONES AND MITOCHONDRIAL FUNCTION OF ANTIBIOTIC- AND LPS-CHALLENGED RATS	NUR AIN NAJIHA RIDZUAN (ABP109) PRELIMINARY OBSERVATION OF BIFIDOBACTERIUM BIFIDUM MORPHOLOGY
NUR SYAFIKA BINTI KAMARUDIN (ABP112) ANTIOXIDANT POTENTIAL OF ULTRAFILTRATION-PURIFIED BROMELAIN ENZYME FROM MD2 HYBRID PINEAPPLE CORE	NUR ATHIQAH MD YUSOF (ABP148) SEASONAL ABUNDANCE OF FLIES ASSOCIATED WITH COW DUNG COLLECTED IN BESUT, TERENGGANU	NURULHUDA BINTI ZAKARIA (ABP158) DIVERSITY OF AMPHIBIANS AND REPTILES AT SUNGAI KERTEH, KEMAMAN, TERENGGANU	NUR ATIRAH HASMI (ABP162) ABUNDANCE OF AQUATIC INSECTS IN SPATIAL VARIATION OF SEVEN SAMPLING SITES AT SUNGAI SAT, TAMAN NEGARA PAHANG			

APPLIED PHYSICS

SITI SHAFIQAH BINTI AHMAD SHAHARUDDIN (APP24) FACILE SYNTHESIS OF SILVER NANOPARTICLES FOR ANTIBACTERIAL PROPERTIES	NOR SHAMIMI BINTI SHAARI @ MD NOH (APP29) EFFECT OF DRYING TIME ON THE PERMEABILITY AND COMPRESSION STRENGTH OF GREEN SAND MOLD	MAHFUZAH BINTI ZAINUDIN (APP30) OPTIMIZATION OF GREEN SHEAR STRENGTH OF SAND-CASTING AT ROOM TEMPERATURE WITH DIFFERENT HOLDING TIME	SITI NUR AMALINA MOHD HALIDI (APP50) PARAMETRIC EFFECTS STUDY FOR A MOBILE SOLAR DEHYDRATOR	SURAYA AHMAD KAMIL (APP72) DIFFUSE REFLECTANCE SPECTROSCOPIC ANALYSIS OF PURE AND ADULTERATED TUALANG, MANUKA, ROYAL AND KELULUT HONEY	NOR SUHADA BINTI ABDULLAH (APP128) MUSHROOM SUBSTRATE BAGGING PROCESS EVALUATION	FADHLINA CHE ROS (APP131) THE BULK PROPERTIES AND THE EQUIVALENT CIRCUIT OF CaTa4O11 AND SOLID SOLUTIONS
AMIRAH SAAMIHAH BINTI HAMDAN (APP127) A REVIEW: EFFECT OF POURING TEMPERATURE AND STIRRING SPEED ONTO MECHANICAL BEHAVIOR AL-METAL MATRIX COMPOSITES (MMCs)	SHAH CHRISTIRANI AZHAR (APP138) CLASSIFICATION OF RIVER WATER QUALITY USING THE ARTIFICIAL NEURAL NETWORK	SHARIFAH NABIHAH BINTI SYED JAAFAR (APP145) OXIDATION OF REGENERATED CARBON BLACK	ZAKIAH MOHAMED (APP156) STRUCTURAL PROPERTIES ANALYSIS USING RIETVELD REFINEMENT METHOD AND FOURIER-TRANSFORM INFRARED SPECTROSCOPY OF 2% SAMARIUM DOPED La0.5Ca0.3MnO3			

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