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Preface

After our first ever success in publishing Chemistry Internship Infographics last year (2017), this year, we are once again carrying on this soon-to-be tradition. Why are we doing this? Well, in today's working world, there is a mismatch between the demand and supply of graduates, with employers reporting that graduates lack the requisite knowledge, skills and attitudes. As we enter the 4th Industrial Revolution, it gets tougher and tougher to resolve this mismatch as technological disruptions are constantly reshaping job markets and altering the types of careers. In line with that, UTM is preparing the students to navigate this uncertain future, which not only requires instilling them with transferrable skills and sound ethical foundations, but also the resilience and enterprising spirit to forge new opportunities for themselves and the others.

For ease of reference, this is the compilation of the Infographics prepared by the final year students of SSCA and SSCC, whom recently just completed their Industrial & Research Training during the short semester of 2018.

Foreword by the Director, Dept. of Chemistry

congratulations to all 3rd year students who had successfully underwent the industrial/research training for 10 weeks during last short semester break. Hopefully all of you had able to enhance your knowledge and technical skills that you had learned in university and also had gained valuable work experience. Industrial training is where you have the opportunity to practice your communication and teamwork skills besides to practice good qualities of integrity, responsibility and self-confidence in real working environment. The work experience are surely different from one student to the other but surely there are lots of lesson learned during the 10 weeks

period. Keep on improving yourselves and never give up. Hold to the positive thought and attitudes!!! Always ask what and how I can contribute. May you all be successful in your study and self-development.

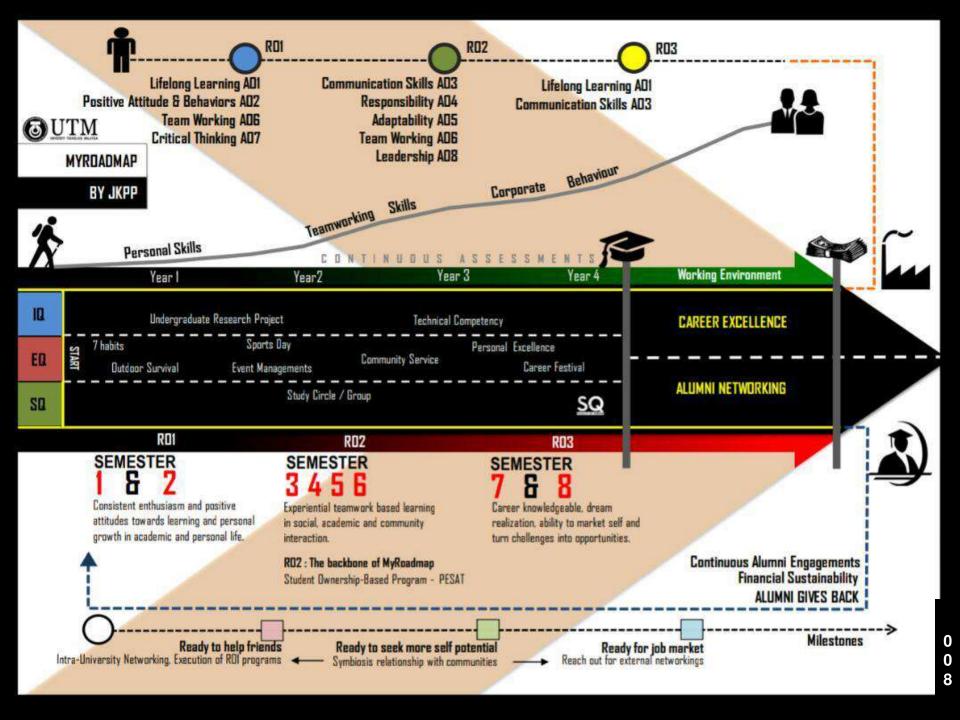
Associate Professor Dr. Shajarahtunnur Jamil
Director, Department of Chemistry

JKPP

We wish to produce graduates with relevant disciplinary knowledge and skills, ethics and morals, as well as the appropriate behaviours, mind sets, cultural and civilizational literacy, to advance them to a higher level of personal well-being. Our chemistry graduates will be ready and willing to contribute to the betterment of the family, society, nation, and global community. Such holistic, entrepreneurial, and balanced graduates are a natural extension of achieving the goal of the Malaysian basic education system, which is to ultimately develop values-driven Malaysians.



Jawatan Kuasa Pembangunan Pelajar invites all SSCA & SSCC students to join MY ROADMAP®



Without #myROADMAP, you can still be a graduate, But with #myROADMAP, you will definitely be an excellent graduate:

Your graduation will be a celebration for employers and community.





DISCLAIMER

All students of SSCA & SSCC were given the freedom to express their own creativity and ideas in words, pictures and graphics, obtained from various sources that may or may not include resources from the internet. There is no restriction on the presentation ideas; editing is very minimal. This compilation of internship infographic is solely meant for learning purposes.



Personal detail

- ⇒ Name:Mohd Solihim Bin Johari
- ⇒ Program:3 SSCC
- ⇒ Matric no: A15SC0089
- ⇒ Sv faculty:Dr Sharidan Shafie

Job scope

Department Lab

SECTION WATER

- Do physical and chemical test on waste and drinking water
- Test paramenter: pH, COD Turbidity, Chlorine total



PHARMACEUTICAL SDN BHD

Introduction

- DXN was founded by Dato' Dr. Lim Siow Jin.
- Food supplement contain Ganoderma or Lingzhi
- product lines: supplements, food and beverages, personal care products,

Experiences

- Working in organizational
 - Learned to be on time at work place
 - Learned to be discipline
 - Learned to accept instruction from manager
 - Increase skill on handle instrument



Company detail

- Name: DXN PHARMACEUTICAL SDN BHD
- Contact no:04-7723388
- Allowance:Yes
- SV Industry:KHOO HWA CHUAN



Instruments



- HACH DR6000
- pH meter
- Turbidity meter
 - Uv-Vis





The Department of Chemistry
Malaysia consists of a network of
laboratories around the country that
provides analysis, investigations and
scientific consultancy to government
agencies. It is aimed to support
enforcement of the law along with
the implementation of programs that
relate to the safety of water, food,
the environment and industrial
products to protect and advance
public health and safety to the
larger public, and protect consumers
interest as well as health and safety
in the work place.

Instrumentation: HPLC GCMS FTIR UV-Vis Examination of erased identification number

Examination of vehicles involved in traffic accident

Training Scope Forensic analysis of paint

Analysis of schedule poison in medicinal Preparation



The Criminalistics Section deals largely with examination of physical evidence related to criminal cases, covering areas such as firearms examination, vehicle examination, trace evidence, pirated optical discs etc. Services are also provided for scene investigation of fire/arson, explosion and accident cases.

Industrial Contact No: 04-7357001



Industrial Supervisor: Madam Haslinda Bt Ismail

Faculty's Supervisor: Assoc. Prof. Dr. Sharidan Shafie

Noorfainnas Bin Noorazman 3SSCA

0 1 4





INTRODUCTION

- This organization had established in 2013 (subsidiary of DXN Groups) has started to operate testing laboratory providing testing service to internal DXN Group companies and external clients.
- The laboratories are located at Main Branch at Jitra, Kedah, the other three branches are at Northern Region Lab (Penang), Central Region Lab (Petaling Jaya) and Southern Region Lab (Johor Bahru)





BIO SYNERGY LABORATORIES SDN BHD (UNDER DXN HOLDINGS BERHAD)

JOB SCOPE

Gas chromatography:

- Determination of pesticides in foods and screening oils
- Determination of phthalates in foods and oils
- Determination of 2,3-MCPD Esters and Glycidol Esters
- Determination of 3-MCPD in Foods

ADDRESS

BIO SYNERGY LABORATORIES SDN BHD

Address ; Lot 1109, Mukim Malau, Daerah Kubang Pasu, 06000 Jitra, Kedah Darul Aman.

No tel : +604-9161288/2688 Fax no : +604-9173610/1698 Email : www.biosynergy.com.my

EXPERIENCES

- Able to learn about the instruments used in this section
- Learn on how to handle the testing on samples
- enable to explore and experience on real life of working environment.
- Has been visited around the DXN Factory such as pharmaceutical building, cosmetics building.
- Learn on how to manage time wisely and discipline.

ABOUT ME

Name : Siti Nor Amalina Binti Mohd Akhir

No Matric : A15SC0266

Course : Industrial Chemistry (3SSCC)

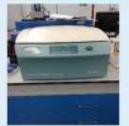
· Supervisor :-

(Faculty) : Assoc. Prof. Dr. Sharidan Shafie

(Industrial): Mr Khoo Hwa Chuan (Senior Manager)

Shahrul Fatin Izzati Binti Adnan (Head Section Of Chromatography)

INSTRUMENTS



Centrifuge machine



GC-MS/MS (triple quadrupole)



GC-MS

CONTACT

NAME: MR KHOO HWA CHUAN EMAIL: hckhoo@dxn2u.com

: hckhoo@biosynergy.com.my

VARANYA A/P VJRAK 388CC

KITTI

- ☐ Official opening of Kedah Branch in 2007
- Forensic Division provides independent and
 - impartial forensic science services to government agencies
 - □ Narcotics
 - □ Criminalistics
 - □ Toxicology

- ☐ Job Scopes at Toxicology Lab
 - □ Performs analysis of scheduled poisons in medicinal preparations
 - □ Example Scheduled poisons:Dexamethasone, Betamethasone, Ibuprofen Chlorpheniramine, Lignocaine





- □ Address of Organization: Jalan Suka Menanti, Kedah, 05150 Alor Setar
- □ Apply through website: http://www.kimia.gov.my



Time management

30%

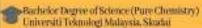
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M. MONISHA DEVI

AT FORD DRIVER DIES





PGEO Edible Oils 8dn. Bhd 2009. Tingkat Perusahaan Tiga, Prai Industrial Complex, 15000 Prai. Pennani

Main Services

Refining crude oil into edible oil

Industry Supervisor.

Faculty Supervisor.

LOVIDOND METER

MR SEEN BENG HONG

Plant Manager, POEO Eable Oils Site. Blsd. 2M DR. WAN MUHAMMAD SAKIDAN

Lecture is Physics, Department of Physics, Faculty of Science







Eurofins NM Laboratory Sdn. Bhd

INTRODUCTION:

It is a certified laboratories providing various analytical testing services.

Example: pharmaceutical, food, environmental and consumer products industries and to governments.

JOB SCOPE:

- Hq .l
- 2. Oil & Grease
- 3. Suspended solids
- 4. Turbidity
- Calorimetric method

(UV-Vis Spectrophotometer)

TRAINING& EXPERIENCES:

- Safety training
- 5S training
- Washing training
- Quality control
- Competency test

INSTRUMENTS:

- 1. Eutech pH 2700
- 2. HACH 2100Q (Turbidimeter)
- 3. HACH DR6000

(UV-vis spectrophotometer)







SUPERVISOR DETAILS:

Industry: Mr. Shaun Tan Chow Khim (Laboratory Manager)

Faculty: Prof. Madya Dr. Wan Muhamad Saridan bin Wan Hassan

CONTACT:

- Address: 78 & 80, Lorong Perda Selatan 1, Bandar Perda,14000 Bukit Mertajam, Penang.
- Phone:+604 538 8086
- Email: enquiryenml.bm@eurofins.com

Name: Ng Jia Ya Course: 3SSCC Matric No: A15SC0115

CHUAN SIN SDN BHD





EZIAN AMELYA BINTI ABDUL MALEK

SPRITZER

Dr Hang See Pheng (UTM)

Mrs Ilyani Adnan

(SPRITZER)

juliaooi@spritzer.com.my HR/AD Executive Manager

Mrs Nur Hidayah Ibrahim

(SPRITZER)

Test run on packaging material



l'ake in process sample



Verified instrument



Able and willing to acquire new hard skills and an openmindedness to new tasks and new challenges

Understanding and cooperation in the multicultural workplace

Able to do the given tasks beyond the internship job description

Exposed on process and common defect on preform

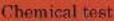
> Bearn on how to use measuring tool

Exposed production of bottled water

In lab

Incoming Quality Control

Swab test



Personal Details



Nur Atikah Binti Abdullah 3SSCC (A15SC0159) Industrial SV: Ms. Chung Yoke Tying

Quality Control

Stringent quality control is practiced and enforced throughout the process from approval and checking of raw materials and in-process controls to final analysis of finished products using highly sophisticated and complex instruments.

Project

 Comparison Of The Antioxidant Activity Of D-Alpha Tocopherol and Palm TRF in Fried Peanuts and The Cooking Oil Used.









 Comparison Of The Antioxidant Activity Of D-Alpha Tocopherol and Palm TRF in Fried Dough and The Cooking Oil Used.











UTM

ExcelVite



Lot 56442, 7½ Mile, Jalan Ipoh/Chemor 31200 Chemor Perak

Introduction of Company

ExcelVite Sdn. Bhd is a relatively new company incorporated in Malaysia on August 2013. ExcelVite's proprietary production process enables it to extract palm nutraceutical products such as tocotrienol(Vitamin E) and mixed-carotene from virgin crude red palm oil through a molecular distillation technology. It is integrated state-of-theart process which enableas the processing of crude palm oil to produce a number of phytonutrient products and oleochemica / biodiesel as well as glycerine as co-products.

Extraction Process



- Dietary Supolements
- Food & Orink
- Cosmetic, Personal Care Products

QC Department Staff





Contact

Mrs. Rahma Jamiah bt Abdul Rahman hr@excelvite.com

driventoperform

COMPANY BACKGROUND

The Toyo Tire Malaysia Sdn Bhd, was established in Taiping, Perak on 12 April 2011 following the acquisition of Silverstone Berhad. The construction of Toyo Tire Malaysia is divided to three phases.



On 5 May 2013, Toyo Tire & Rubber Co., Ltd. Chairman, Mr Kenji Nakakura officiated the First Phase Factory Completion Ceremony of Toyo Tire Malaysia. The factory was built on a 148-acre site and it produces high quality tree for passenger car, MPV and SUV tree. The facility is equipped is latest manufacturing equipment and uses Toyo Tires' most advanced technologies - T mode and Advanced Tire Operation Module (A.T.O.M.), a highly flexible and automated production system. Toyo Tire Malaysia is currently headed by its managing director, Mike Toh and is primed to be the largest outside Japan for Toyo Tires when all phases are completed. The factory produces about 5 million tires annually and exported to Southeast Asian countries, Middle East, Europe and U.S.

SUPERVISORS:

- 1) GUAN NG LAI
- NURUL SYAFIKA BT ABU

PERSONAL INFO



Sumitra a/p Venugopal B.Sc.Chemistry

TASK I PERFORMED IN TTM





REBOUND TEST



IODINE ADSORBTION TEST

Raw Material Tests

TENSILE TEST



VISCOELASTICITY

MOR TEST



CTA









During my industrial training, I was assigned to a couple of major engagements and had the opportunity to put my knowledge into practice.

I am in the Regulatory Affair team under the Quality Assurance department. We assist companies performing quality assurance to review documentation that substantiates quality activities by matching the facts to the eligibility requirements of countries and specifications

Some of it is I was tasked to draft out;

- 1.specific components of reports
- 2.prepare the instruction for use,
- 3. Declaration of conformity
- 4.and Letter of Declaration undertaken

Including how and why these meet the eligibility requirements. I have also exposed with the production of gloves, the chemical and material used and the function of every line.



In this department, I also got to sit in many important meetings and had first-hand experience on how meetings are conducted amongst top level management and perform actual audit procedures

Special Project

Two weeks in, I got involved in the project as a supporting QA in planning a revised Instruction For Use,

IFU is the information provided by the manufacturer to Inform the device user of the medical device's intended purpose and proper use and of any precautions to be taken.

Let me give you a scenario where the Medical devices can be SO complex and may require users to understand specific information about storage, use, disposal, or reprocessing.

Safety is another critical factor to consider, this product guidelines contain important safety information that helps purchasers avoid personal injury and property damage



JOB SCOPE



Top Glove Corporation Bhd is the world's largest manufacturer of gloves, with operations spanning across Malaysia, Thailand, China, US and Europe.

> It is also aggressively expanding its business scope and on the lookout for opportunities in similar and related industries.

Overview of Internship

Gloves manufactured by Top Glove are associated with quality and efficient low cost and meet internationally recognized standards such ASTM, EN and ISO





Challenges Experienced

Being in the Quality Assurance department, I handled specialized legislation which demanded skill sets which are totally foreign to a science undergraduate. Hence, this was challenging at times.

As I was a less technical person, it was a lot for me, but with the help from my mentor and other QA specialists, it went really smoothly. However, I was really glad to be given this opportunity as it gave me the chance to develop myself through the various challenges presented to me

What Was Learned From the Experience



I have learned how a private sector operates, who oversees what, and how to network with the different departments I've been exposed to.

The most valuable experience has been the hands on work I've been exposed to. I've been able to able the information learned in university courses to real life problems and truly understand the programs and tools that aid in the professional world.

Though industrial training provides students with work experience that prepares them for the work place, but the major advantage is that it helps students discover their areas of career interests which they are most likely to pursue.

0



MACFOOD SERVICES (M) SDN BHD

Supervisor Details

Mr. Gopinath Chinasamy (Production Manager) Industry Supervisor

Mr. Hashim Bin Baharin (Faculty Supervisor)

Things Learned

- Process of making from the very beginning to the end
- Ingredients used

Introduction

- ✓ One of the facilities in Malaysia under Marfrig group and Keystone Foods
- ✓ Animal protein and fresh produce producer







Job Scope

- Data keeping
- Trials and Data collecting
- HHP practice

Priceless Experience

- ➤ The experience
- ➤ The knowledge
- ➤ The people

Allowance Provided!

Daashna Suppiah
3SSCC
012-3174007

INFOGRAPHIC OF INTERSHIP

99CU3915

Short Semester / Session 2017/2018



Analysis and Test Method (Training Scope)

Identification of Tobacco Leaves and Cloves by Gas Chromatography-Mass Spectrometer (GC-MS) and Microscopic Examine

Detection of surfactant in sample.

Identification of surfactants:

- Weatherburn test
- Van Der Hoeve Test

Qualitative Chemical test for sugars by Paper Chromatography

Determination of ash in sample and identification of inorganic pigments by Scanning Electron Microscope (SEM)

Determination of non-volatile matter in sample and identification of the binder by Fourier Transform-Infrared (FT-IR) spectroscopy



Introduction

My industrial training was completed in **Department of Chemistry Malaysia (Petaling Jaya)**.

Iwas placed in the **Classification Tariff Section's Laboratory** in **Center of Analysis for Industry and Custom Tariff**. Every analysis and test methods conducted to prove that samples shallbe:

- Classified as they consisted of the materials or component which gives them their essential character.
- Determined according to the terms of the headings and subheading.
- Determine the composition of goods for tariff code classification.
- Purposes for collecting government revenues.



Instrumentations



Experiences and memorisable moments ©



SUPERVISOR (DEPARTMENT OF CHEMISTRY MALAYSIA)

Dr. Shailini Ashoka
Head of Tariff Classification Section
Center of Analysis for Industry and Custom Tariff
Department of Chemistry Malaysia, Petaling Jaya

SUPERVISOR (FACULTY OF SCIENCE)

En. Hashim Baharin Lecturer in Department of Chemistry Faculty of science University Technology of Malaysia

How to conto

No. Tel: 603 7985 38 No. Faka: 603 7985 38

norfarizan@kimia.gov 6

SIME DARBY RESEARCH SDN BHD

LIYANA AQILAH BINTI ABD KARIM SSCC

R&D CENTRE CAREY ISLAND

ABOUT COMPANY

Sime Darby Plantation is the largest producer of Malaysian Sustainable Palm Oil (MSPO) and the parent company of Sime Darby Research Sdn Bhd. Here, they committed towards developing, applying and transferring relevant knowledge, research findings and technologies to improve the plantation yields, milling processes and customize the downstream products. I was assigned to Food Safety Lab that was managed under lab services department.

THINGS LEARNED

Hands-on practice on handling instruments
 Exposed to the method used for testing
 Know the Lab management system
 Explored on the production of oil and other products produced

CONTACT DETAILS

T: +(603) 31202311 ext 299

E: nurlila.samad@simedarbyplantation.com

Food Safety Laboratory



JOB TRAINING SCOPE

• Analysis of Glyphosate in Pure Poison

Analysis of Paraquat in Edible OilAnalysis of Organochlorines compoud in water

•Training on Laboratory Integrated Management System (LIMS)





INSTRUMENTATION









Prepared by: MOHAMAD SYAZWAN BIN SAFARUDIN (SSCC)





INTERNSHIP INFOGRAPHIC JABATAN KIMIA MALAYSIA PJ





















ADDRESS:

Jalan Sultan, Pjs 52, 46200 Petaling Jaya, Selangor

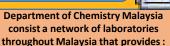
OPERATION HOUR

MON-FRI:7.30AM-5.30PM SAT, SUN, PUBLIC HOLIDAY: CLOSED NO.PHONE: 03-7985 3000





BACKGROUND



- 1) analytical, investigatory, consultancy and advisory services to government agencies.
- 2) This department provide law enforcement and regulation and the implementation of the programs related to public health in the areas of food and water safety, environment quality, public order and security, consumer protection and occupational safety and health.
- 3) provides technical expertise for the evaluation of supplies for government contracts, the classification of tariff and administration of justices.

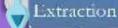




METHODOLOGY

EXTRACTION & PURIFICATION STEPS

- Wente annote:
- Earner with Miss St. Laborated values.
- · Bur fice 3 hes



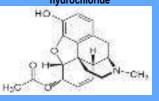
Liltration

- Epper leven where: cowder obtained.
- · Pilinge concentration 1/3 volume by return емрения Кеера. exercight accedeller.
- White peopler decision over 100 °C for Thes. alter me white crystals. and mix with the powder



MINI PROJECT

TITLE: The extraction and purification of monoacetyl morphine hydrochloride



Yield







 Add a few drops of AgNO3 solution to the sample

CHLORIDE TEST



FTIR-ATR Mount sample in a sample holder and perform measurement



 Dissolve sample in a MeOH (1 mg/g) and analyse using GC/MS

GC-MS





PURITY ASSESMENT











KARL-FISCHER



GC-FID

Purity Assesment Steps



Freeze-dried the purified MAM for 3 days to enhance the substance stabilization.

Perform packaging using Quantos; 50 mg per bottle.



Perform homogeneity studies; dissolve 15 mg of MAM in MeOH (1 mg/g), transfer to GC vials and analyze using GC-FID.



Perform Karl-Fischer analysis to determine the water content in the purified MAM

RESULTS





FREEZE-DRIER

GC-MS chromatogram



GC-FID Chromatogram



CHLORIDE TEST

To test whether solution containing chloride ions using silver nitrate solution. Result: White precipitate AgCl is formed

SUPERVISOR



DR.SITI NUR NAZATHUL SHIMA BT HASHIM



ACHIEVEMENT

I manage to obtain 115 bottle of pure 6-MAM that going to be distributed to the participant



Prepared by: MUHAMMAD HILMAN BIN HAMZAH (SSCC)

ALUMAC INDUSTRIES SDN. BHD. LOT 8463, KAMPUNG JAYA INDUSTRIAL AREA 47000 SUNGAI BULOH **SELANGOR**



- -Established in October 1994
- Specialized in customized aluminium extrusion manufacture
- Currently certified by ISO 9001:2008, quality management system.
- -Marketing local and global.





1) Calibration

- obj : to ensure all tools work perfectly and according to standard requirement

WHATIHAVE LEARNT?

- description 1 checking calibration schedule
 - update record, schedule and master form
 - perform calibration according S.O.P.
 - calibration sticker
 - documentation
- obsolete case : broken, missing , tear tools have to be replaced and recorded.

EQUIPMENT CODE

CODE	MATRIMETER
¢	Vernier Caliper
н	Hardness Rester
HG	Height Gauge
1	ion 700 Series Bench Top Meter
t.	LSquare
M	Measuring Tape
MM	Micrometer
	Protractor
PH	PH Tester
T	Coating Thickness Gauge
w	Weight Scale

DEMO ON WASTE MANAGEMENT



ISO INTERNAL QUALITY AUDIT

 Monitor and learn the audit process conducted by my supervisor, Mr. Jimmy while auditing Planning and Extrusion department.

CARING PROJECT

Monthly interactive game were conducted by trainee for Alumac worker.



VIDEO MEASUREMENT



PROFILE PROJECTOR

2) Inspection

- obj : checking the quality of profile and record of inspection required by customer.
- description : random sampling for outgoing profile.
 - 10% inspect to 100% sort for incoming profile from supplier.
 - all sampling have to be recorded
 - defect of profile, sorting
 - checking ongoing profile at extrusion department.

CONTINENTAL TYRE TECHNOLOGY CENTRE MALAYSIA

Ontinental 5

SDN.BHD.

By NORATIQAH BT MOHD HIRKAM, 3SSCC

CONTACTS

CONTINENTAL TYRE PJ MALAYSIA

ADDRESS: NO2 JALAN TANDANG 46050 PETALING JAYA

PHONE: 0377878888 (EXT 974) EMAIL: staffing.pj@conti.my

Internship in Material & Simulative Evaluation (MSE) (Chemical Testing Lab) under Research and Development Department with Flexible time working

MSE'S TEAM

✓ Operation of laboratory instruments and equipments

- GC-FID
- FTIR
- ICP-OES
- TGA
- Sulphur & Nitrogen determinator
- Soxhlet extractor
- 2-roll mill,
- Pressure filtration
- ✓ Proper handling of laboratory apparatus
- ✓ Communication skills and technical presentation skill
- They help on improving your PowerPoint and presentation. (final presentation for general manager and sometimes for the staffs) *you should experience it!

LESSONLEARNT

- √Time management
 - Especially for the project since internship period is short

MSE is a one stop analysis provider for all Continental industry worldwide.

In MSE have:

- Physical testing lab
- Chemical testing lab

Both lab carried different type of testing

MINI PROJECT

Project: Create FTIR Library for PJ plant Compound & Comparing polymer composition by FTIR AND GC-FID Process involve:

- 1) Homogenization (using 2-roll mill)
- 2) Acetone extraction (SOXHLET Extractor)
- 3) Digestion in heating block and filter out
- 4) Analyze by FTIR

Instead using FTIR, the project also involve GC-FID for analyze polymer composition in rubber.

Project assigner: CHOONG L.K

- > Lab documentation and administrative
- Organize and update the general documents according to assigned tasks. (delivery order, Tax invoice), Certificate of Analysis and etc.)
- > Sample management
- organizing of incoming sample, safe keeping, delivery of sample and disposal of sample.
- ➤ Update spare part checklist
- Conduct testing (support routine testing)Maintain and keep up the cleanliness of laboratory

SECONDARY STANDARD DOSE LABORATORY AGENSI NUKLEAR MALAYSIA

By: Nur Afigah Othman (3 SSCC)



INDUSTRIAL APPLICATION: DOSE MAPPING OF JACKERUIT





EXPERIMENT





INSTRUMENT & SOURCE USED



Cobalt - 60



UV-Spectrophotometer

TASK

- Prepare and study the calibration of reference dosimeter.
- Determine the output of Gamma Cell.
- Prepare the calibration high
 - dose of Ceric Cerous dosimeter.
- Study the calibration of Radiaochromic Film FWT-60 with Gamma Cell 220 Excell.

JOB SCOPE

- Preparation of Fricke and Ceric cerous dosimeter.
- Quality control of Fricke dosimeter.
- Calibration of four type of dosimeter.



ANOSTI CHELLI ELLER ELLE

NUR KHAIRUNAJWA BINTI KHAIRUDDIN 4SSCC

INTRODUCTION

A subsidiary of TNB focusing on energy and environmental sector R&D, and services.

Provides a centralised, one-stop centre for technical solutions and innovation.











COMPANY PROFILE

Address: No. 1, Lorong Ayer Hitam, Kawasan Institusi Penyelidikan 43000 Kajang , Selangor Contact number: 03-89225000

TNB RESEARCH SDN BHD









Stray Gassing in Transformer Oil

- Journal reading
- Data analysis
- •Sample preparation
- •Lab work
- •GC training

Asset Management Policy and Guidelines

- Attend the meeting
- Data sorting/analysis
- •Overview of TNBD Primary Equipment
- •Extensive Usage of MS Excel

JOB SCOPE

Using Optical Chromatic Transformer Oil Monitoring (OCTOM)

- •Sample preparation
- •Lab work in UNITEN

Cost Analysis

•Incentive Based Regulations (IBR)

3 SSCA (BACHELOR OF SCIENCE IN CHEMISTRY) A15SC0219 961210-29-5146

WATER ANALYSIS

PH, TDS,

Conductivity

Jurbidity

Huoride, Sulphate,

Nitrate, Nitrite,

Ammonia Mitrogoro

Total Chlorine, Free

Chlorine

MR DAVID LEE

Lab Manager at My Test Lab Sdn Bhd

Email: david@mytest.com.my Phone no: 603-8948 9822

DR NAJI ARAFAT BIN HAJI MAHAT

Department of chemistry, Faculty of Science, UTM.

Field of Testing



Food Analysis











COD







FOOD ANALYSIS



Carbohydrate

Alkalinity.

Chloride

Priceless Experience:

I had such a great experience to have my internship at this organisation. I have met such a helpful lab manager and also a capable chemist. This 3 months internship give an idea for me what a great life after graduation.



Energy

0

SB TAPE INTERNATIONAL SDN. BHD.

COMPANY PROFILE

Established on 1977 by late Mr. Toh Sue Bee Largest manufacturer of self-adhesive tapes in Malaysia

Producers of adhesive, non-adhesive tapes and decorative polypropylene ribbons.

RESEARCH & DEVELOPMENT

This department are divided into two division (glue and tape) which focuses on

- evaluation of raw material and product
- coordinate application test
- monitor performance

ORGANIZATION CHART

R&D (TAPE DIVISION)

AZMI NASSARUDDIN Head of Department

LAU SIAW JING — AMIRA WAHAB

Process Dream

MAIN TASKS AND PROJECTS

Analyzing and perform

- lab coating procedures
- adhesive feasibility of glue mixture
- standard profiling by test its performance
- given project with specific glue

INSTRUMENTATION

VISCOMETER

STIRRING MACHINE

HOLDING POWER

EXPERIENCES



CHEMSHERPA TRAINING

HANDLING INSTRUMENTS (TENSILE MACHINE)

COMMUNICATIONS

CONTACT DETAILS

- 038946 3600 / 038946 3712
- Mr-2@sbgroup.com.my
 - Lot.1812, Jalan KPB 1, Kawasan Perindustrian Kg. Baru Balakong, 43000 Seri Kembangan





COMPANY DETAILS

PETRONAS Research Sdn Bhd, Lot 3288 & 3289, Off Jalan Ayer Itam, Kawasan Institusi Bangi, 43000 Bandar Baru Bangi, Selangor.

Phone No: 03-8928 1000, Fax: 03-89281000

PERSONAL DETAILS

Syahidin Arsyad B. Mohd Bukhari A15SC0283 3 SSCA

SUPERVISOR DETAILS

Organisation: Shamsina Bt Sabdin

Office: 03-89281153

Email: shamsin@petronas.com Faculty: Dr. Naji Arafat Hj. Mahat

PROJECT TITLE

Ceramic Membrane For Nitrogen, N₂ Removal

TRAINING SCOPE

- ✓ Literature reviews
- ✓ Permeation Test
- ✓ Synthesis of Zeolites
- Characterisation of synthesized zeolites
- ✓ Data analysis

MINI PROJECTS

- Study the effect of stirrer speed during aging process from the synthesis of pure phase of NaX zeolite.
- Study the effect of pH content forwards formation of pure NaX zeolite.

INSTRUMENTATIONS

- SEM Hitachi TM3000
- MSH-20D WiseStir
- HI 8424 pH Meter

OTHER ACTIVITIES

- Safe handling of chemical training
- HSE Weekly Inspection: Hazard Hunt



ABOUT ME

SUMARNI BT SYAHRUDDIN A15SC0280 3 SSCA- CHEMISTRY

SUPERVISORS

UTM: DR RAJA KAMARULZAMAN BIN RAJA IBRAHIM (FACULTY OF SCIENCE)

INDUSTRIAL: PN NOR SURIATI BT AHMAD (SECTION HEAD OF QC (AMB))

PROJECTS

- 1) BLACK PARTICLES STUDY
- VACCUM FILTRATION TECHNIQUE
- FTIR
- 2) RAW MATERIAL HAZARD ANALYSIS
- CoA and VIPD REFERRED
- USING MICROSOFT EXCEL

PRICELESS EXPERIENCES

- BEEN EXPOSED TO JOB NATURE OF CHEMIST IN FOOD COMPANY.
- PASSED EXCELLENTLY THE YEARLY BASIC SENSORY TEST IN QC.
- GOT TO WORK WITH A HARWORKING AND HELPFUL TEAMWORK.





MY INTERNSHIP JOURNEY





FINDINGS







FILTER PAPER WITH/WITHOUT BLACK PARTICLES

FTIR SCREENING
TO IDENTIFY



SAMPLING PROCEDURE



PROBLEMATIC PRODUCT CHECKING ATOTHER DEPARTMENT

ABOUT COMPANY & QUALITY CONTROL SECTION

- AJINOMOTO (MALAYSIA) BERHAD (AMB) IS THE FIRST JAPANESE COMPANY TO BE SET UP IN MALAYSIA.
 - IN QC SECTION: PROVIDE TESTING AND INSPECTION ON ROUTINE PRODUCTION OF FOOD SAMPLES, MONITORING ON WASTE WATER TREATMENT PLANT AND ON SITE TESTING OF PRODUCTION SITE &A SUPPORT TO FACTORY BY MONITOR HYGIENE MONITORING, COMPLAINT INVESTIGATION AND HIGHLIGHT PRODUCT QUALITY TREND.
 TEL: 03-7980 6958

JOB/ TRAINING

- INVOLVED IN SAFETY & HEALTH, SENSORY AND ERGONOMIC TRAINING.
- WEIGHING AND PIPEETING TRAINING.
- CHEMICAL, SENSORY & MICROBIOLOGY LABORATORY ANALYSIS TRAINING.

G



Nur Farah Dina Ajid 3 SSCC Job Scope

Wastewater Quality Analyses

Lab Skills Presentation Skills ngs Learned

Major Activities

- Provide testing for wastewater sample
- Industrial Consultation

Atomic Absorption Spectrometry UV Spectrophotometer

Instrumentation

Ms Kalaivani A/P Palachandran (Senior Chemist)

Industrial Supervisor

Introduction

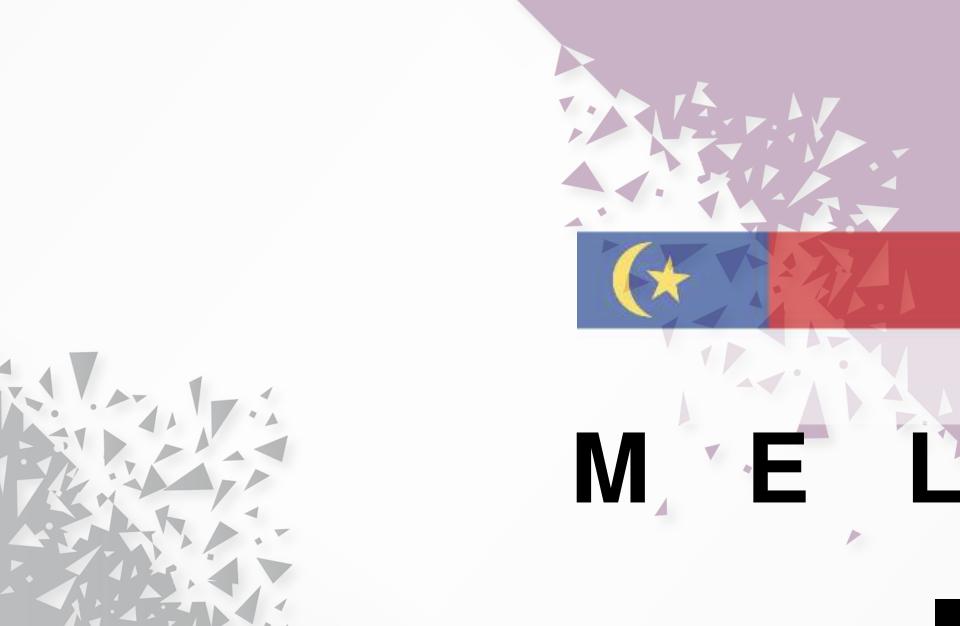












(KILANG MAKANAN MAMEE SDN. BHD.)

AYER KEROH, MELAKA

Mamee Double-Decker, better known simply as MAMEE is a Malaysian based company with interests in the manufacturing, marketing and distribution of snack foods, beverages, and other products, that exports to around 100 international countries. NUR AIN ATIQAH BINTI MOHD AMIN SSCA



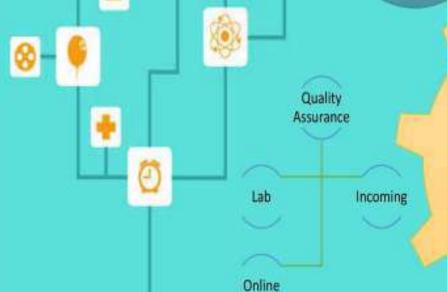




Throughout the three months period of internship in factory of MAMEE Company, the real working environment in Food Science and manufacturing field were being exposed and experienced. In the factory, the experiences as the Quality Assurance, the task of incoming raw materials checking, inspection production line, conducting lab analysis, issue non-conformance report (NCR) and resample have provided better understanding of the Quality Assurance responsibility.



SV : Ms Nadia 8t Salleh 016-6604740

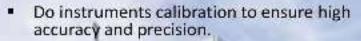


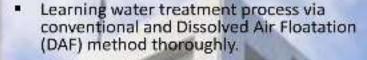
SYARIKAT AIR MELAKA BERHAD (SAMB)



Experiences gained from SAMB Team:

- Handling different water quality test in laboratory such as total coliform bacteria test, jar test, turbidity test and pH test in raw water as well as in treated water.
- Do water sampling with Quality Team.





- Chemicals dosing calculation used in water treatment plant for instance, Sodium Silicofluoride, Chlorine gas and Calcium Hydroxide.
- Learn about Electrochlorination System (EC).
- Mini project entitled effectiveness of using primary coagulant Poly Aluminium Chloride (PAC) in reducing water turbidity.







AC) in reducing water turbidity.

Prepared by; Nurul Farah Syaheyra Binti
Rahmat (3SSCA)

MY JOURNEY OF INTERNSHIP AT ENVILAB SDN BHD

TEAM





NAME: AIDA AMIRAH BINTI MOHD

SALLEH

COURSE: BACHELOR OF SCIENCE

INDUSTRIAL CHEMISTRY

MATRIC NO: A15SC0008 (3SSCC)

JOB SCOPE(Daily Task):

LEADING TO COMPANY A STATE OF THE PARTY OF T

- BOD Analysis
- AN Analysis
- TN Analysis
- PH and TDS Analysis
- Preparing Certificate of Analysis (COA)
- Auditing and Filing
- Preparing Delivery Order

INTRODUCTION:

Over a span of more than 30 years, ITS acts as a fully integrated scientific solutions group in Asia, with core businesses in Water & Environmental Management, Scientific & Medical products, and Healthcare Services. It mainly provides high quality products, services and solutions through R&D and environmental conservation in order to improve a better quality of life.

WORK



TEAM WORK WHAT I LEARNED





CONTACT

NAME: VOON WAN SIN MOBILE: 011-21793950 EMAIL:wsvoon@its-envilab.com

ADDRESS OF ORGANIZZATION: ENVILAB SDN BHD 38, JALAN PINGAL, TAMAN PELANGI, 80400 JOHOR BAHRU, JOHOR, MALAYSIA.

INTERNSHIP

AYU FATINI BINTI YUSOP A15SC0024



Prisma Laboratory (M) Sdn. Bhd. (1121612-X) is a local company of environment, health and safety which began their operation since year 2015.

Contact details : +607-556 5050

Address of company: No 36-01, Jalan Kempas Indah 1/1, Taman Kempas

Indah, Johor Bahru, Johor.

Company's website : http://www.prisma-lab.com.my

Email address : info@prisma-lab.com.my

There are services like testing and analysis all types of samples, monitoring noise and ambient air and also sampling all kind of samples such as river and marine water.



INDUSTRIAL SUPERVISOR

Name : MADAM NUR SHAMIMI BINTI MOHD RUSLI

Position : LABORATORY MANAGER

Department: LABORATORY DEPARTMENT

ANALYSIS DONE IN LAB

- AMMONICAL NITROGEN
- TOTAL SUSPENDED SOLID
- CHEMICAL OXYGEN DEMAND
 - BIOCHEMICAL OXYGEN
 DEMAND
 - HEAVY METALS ANALYSIS
 - OIL AND GREASE

INSTRUMENT IN

- · GC-MS
- HPLC-PDA
 - GC-FID
 - ICP-OES



SAMPLES

- WATER
- SOIL
- BLOOD
- URINE
- FOOD
- CHEMICALS



Karex Industries Sdn. Bhd. (KISB) manufactures medical devices.

KISB manufactures male condom, personal lubricant and transducer cover. The company was founded in 1988 by the Goh family. It is based in Pontian, Johor Malaysia.



What I learned?

- Team work
- Communication skill
 - Multitasking

INFORMATION

NAME: HAMIZAH BINTI

MAIDIN

NO. MATRIC: A15SC0052 COURSE: BACHELOR OF SCIENCE (INDUSTRIAL

CHEMISTRY)

JOB SCOPE

 Establish work instruction with pictorial work flow.

INDUSTRY SUPERVISOR:

MS. LIM LAI PENG

NO. TEL:

012-3270682

EMAIL:

lplim@karex.com. my



Eurofins NM Laboratory Sdn bhd

• 27, Jln Impian Emas 5, Taman Impian Emas, 81300, Skudai, Johor

Testing Laboratory (DOSH & DOE)



· Ms Shieley Chiu Su Thin

Faculty Supervisor

 Dr Fazira Ilyana Binti Abdul Razak

Completed Standard Operation (SOP), regarding to viscosity test of polymer samples

**Includes title, parameter, scope & application, principle, apparatues 8 equipment



- UV-Visible meter
- Conductivity meter
 - •PH meter
 - DO meter



- CHRA
- Sample registration and reporting
- *Test *ADMI Test *pH Test
- .BOD Test .Turbidity Test
- . Digestion Sample for ICP
- Total Solid Tests Ultralow Range Silica Test
 - Chromium
 - Hexavalent

Test

- Can expose to working environment
 - Improve laboratory skill
 - Enhance the communication skill

SUPERVISOR DETAILS

MINI PROJECT INSTRUMENT

JOB & TRAINING SCOPE

PRICELESS EXPERIENCES





SSCU 3905 - 01

HEW SIEW N. 4 A15SC0055





LOTTE CHEMICAL TITAN (M) SDN BHD

ISAIAH CHEONG YANG SHENG 3-SSCC SUHAIMI BIN ABDUL (QM SENIOR MANAGER) DR. SUSILAWATI BINTI TOEMEN (UTM-FS)

TRAINING SCOPE & INSTRUMENTATION



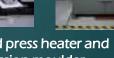


Karl Fischer coulometric moisture analysers (solid and liquid phase)



OCS PS25C pellet inspection system





Carver hand press heater and compression moulder

LCT, which was established in 1989, currently is Malaysia's first and largest integrated producer of olefins and polyolefins, and one of the largest polyolefins producer in South-East Asia (SEA). LCT was

acquired by Lotte Chemical Corp., a listed company

forming part of the Lotte conglomerate of Korea, in

2010 and meanwhile had becoming one of Lotte

Chemical Corp.'s largest overseas subsidiaries.



Retsch sieve and sieve shaker



Melt indexer

Contact of Organization Tel: +603-20934222 Email: Inquiry-general@lottechem.my



INFOGRAPHIC OF INTERNSHIP



PERSONAL DETAILS

JUANI BINTI IBRAHIM
3 SSCC (INDUSTRIAL
CHEMISTRY)
12 WEEKS INTERNSHIP AT CCM
CHEMICALS SDN BHD PASIR
GUDANG
LABORATORY (TECHNICAL
DEPARTMENT)
RESEARCH AND DEVELOPMENT

SUPERVISOR DETAILS (FACULTY)

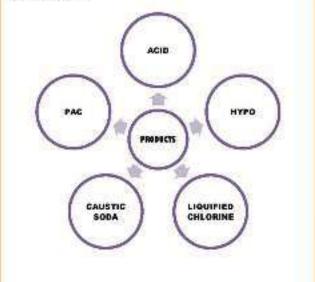
DR SEE HONG HENG FACULTY OF SCIENCE UNIVERSITI TEKNOLOGI MALAYSIA

SUPERVISOR DETAILS (INDUSTRY)

LEE KI YIP SENIOR EXECUTIVE, APPLICATION TECHNOLOGIST lee-ki-yip@ccmberhad.com

COMPANY BACKGROUND

JALAN PERAK SATU KAWASAN
PERINDUSTRIAN PASIR GUDANG
GOVERNMENT LINKED COMPANY
PERBADANAN NASIONAL BERHAD(PNB)
PRODUCT:



EXPERIENCES

- Build career skills
- Lesson learned
- Networking
- Safety awareness
- Work culture
- Handling apparatus and instruments

PROJECT

ALUMINUM CHLOROHYDRATE (ACH) PROJECT

Variable controlled:

- TEMPERATURE
- AMOUNT OF ACID
- ·AMOUNT OF WATER

PROFILES & BACKGROUND

LIM SHUH XINE Studying Bachelor of Science (Chemistry) in UTM

Shuhxine@gmail.com



INDUSTRIAL SUPERVISORS



DR. LIEW KOK FUI DR. SINI GEORGE Lecturer in School of Pharmacy, University of Reading Malaysia



FACULTY SUPERVISOR

DR. YAP YUNG SZEN

Lecturer in Department of Physics, Faculty of Science, University Teknologi Malaysia (UTM)



COMPANY BACKGROUND

University of Reading Malaysia

C+ 60 (7) 268-6200

O Persiaran Graduan Kota Ilmu, Educity 79200 Iskandar Puteri Johor, Malaysia.

☑ uor-malaysia@reading.edu.my



RESEARCH TALK & SEMINAR





INSTRUMENTATION







UV-Vis



Ultrasonicator

TRAINING SCOPE

- Writing of Review Paper
- Preparation of chemicals for student's experiment
- Research lab work
 - Formation of hydrogel



APPLICATIONS OF HYDROGEL



drug delivery



Hydrogel





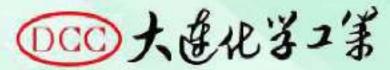
PRICELESS EXPERIENCE

- Get to know people from different countries
- Hari Raya Celebration
- Videa Shooting for University Introduction



Lim Yen Yee 3SSCA A15SCO074

At



DAIREN CHEMICAL CORP.

Company Profile

- ✓ First oversea subsidiary of Dairen Chemical Corporation established in 1998
- ✓ Main product: VAE,EVACL,EVCL
- Certified by ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007

Company Contact & Location

- ✓ Tel: 60-7-2565800 ext 240
- ✓ Fax: 60-7-2565799
- √ E-mail: service@dcc.com.my
- ✓ Location: PLO 18, Tanjung Langsat Industrial Estate, Mukim Sg. Tiram, 81700 Pasir Gudang, Johor, Malaysia

Supervisor details

Industry: Mr Lee Wei Shen
-Technical Service Engineer
(Construction field)

Faculty: Dr. Norazah bt Basar

R&D Activities and Job Scope

- ✓ Run tests with diff application of VAE.
- Check properties of VAE by using instruments (viscometer, pH meter, auto-titrator, solid content analyzer)
- Compunding emulsion with other additives
- Adjust solid content, viscosity, and pH of emulsion



auto-titrator



pH meter



solid content analyzer







STUDENT'S INFORMATION

Name: Noor Adyanti binti Rusdi Course: Bachelor of Science (Chemistry)

Matric No.: A15SC0120

COMPANY INFORMATION

Day Incorperated: March 13, 1997 Tel no.: +607-386 5991/2/7 Website: www.lipidchem.com Fax: +067-386 5990/6

COMPANY ADDRESS:

No.9, Jalan Bukit 2, Kawasan MIEL, Bandar Seri Alam Fasa VII, 81750 Masai, Johor Bahru, Johor, Malaysia.



Project: Title

Method validation and verification for Atomic Absorption Spectroscopy(AAS)

Objective

To validate and verify method from AOAC International (20th Edition, 2016, Ch.9 1,09) in determining trace metal (Cadmium) in oil sample using iCE3000 Series.



LIPIDCHEM

LIPIDCHEM SDN BHD is a subsidiary of TROPICAL NETWORK SDN BHD. Trading activities predominantly consist of buying, selling and exporting of specialty fats and oils, oleochemicals, hydrogenated oils and fats, essential oils and food stuffs. Among the manufacturing facilities provided are storage tank for raw materials, screening machines, bagging machines, blending facilities, dedicated beading tower, palletizing and warehouse facilities. Raw materials produced for customers are non-animal based, non-GMO, sustainable, bio-degradable and environmental friendly. There are plenty products of interest that can be manufactured, all of which are within the business activities and technical capabilities of Tropical Network Sda Bhd. However, stearic acid powder is one of the well known product of and been given priority.

- Toll manufacture various beads for fatty acids, animal feed supplements, food emulsifiers
- Handle toll packing for products
- Toll manufacture candles, together with packing if required

Instruments Available include tests done during internships

- Agilent 7890B (GC)- determine fatty acid composition
- > iCE 3000 Series (AAS)- heavy metal test
- CILAS (Particle Size Analyzer)- measure size of particle
- KFT Titrator (Moisture)- measure percentage of moisture in sample
- Auto Titrator (Acid Value)- determine acid value using titration method
- V-760 Spectrophotometer (UV)
- Sieve test



Field of Testing • Water Analysis • Environmental Air Analysis

Environmental Air Analysis

SPECTRUM LABORATORIES

AN

Spectrum Laboratories (Johore) Sdn. Bhd. provides analytical testing and environmental monitoring services. It offers water analysis, effluent analysis, soil analysis, food analysis, organic analysis, environmental air and research and development services.

Water Analysis





Suspended Solid ICP Sample Prep



Steam Distillation- AN, TN, ON, Phenol





Turbidity

BOD

Industry SV

Madam Hartini Saini Lab Supervisor

Faculty SV

Dr Norazah Basar Chemistry Dept.

Contact

Miss Nor Hidayah speclabjb@gmail.com

Priceless Experience
Within my three months internship, I have
worked with the full support of the senior
employees; chemists and lab assistants.
Besides , my industry SV also trusted me
to handle 70k-worth project for AN and
Suspended Solid testing on my own .

NORZULFIKA BT AMIT 3 SSCA 961212085580 O A155C0140 5



Allowance

provided and friendly staffs



wilmar

Personal details: Nur Adillah binti Musa (3SSCA)

Natural Oleochemicals Sdn Bhd

Fatty acid and 9lycerine





Job Scope: assist supervisor as the instrument chemist.

Task: prepare calibration standard solution, prepare samples to be analyse in the instrument and handle the instruments

Project:

Calibration

of NIRS

Faculty Supervisor: Dr. Fezira Ilyana A. Razak Industry Supervisor: Nurul Azyen Arse'et

Office no.



PERSONAL DETAIL

Name= Nur Ain Nadirah Binti Abdullah No matrics= A15SC0146 Course= 3 sscc

Introduction

Uyemura (Malaysia) Sdn. Bhd Plo 553, Jalan Keluli 8, Zone 12, 81700 Pasir Gudang, Johor, Malaysia

Specializes in: 1. electro and electroless plating chemicals 2. treatment chemicals 3. research

centres

What i had been learned

- -had been placed at production line -had been introduced to store, production, QA&QC and facility department -focus on facility department that consist of:
 - Waste water treatment plant (wwtp)
 - Testing a sampling of ammonia and IETS analysis
 - Monitoring scrubber
 - Testing hardness water supply in boiler
 - Take a reading on RO system

Supervisor

Rahmat Yunus bin Ahmad Shafie Osman



Experiance

-i can learned on how the wastewater treatment plant process in a large scale which benefit is can use in others industry in future career world.

 know what and how the scrubber works and also monitoring the scrubber

CASE STUDIES

On jar test which about coagulation process.

-purpose by add a chemical which produces positive charges to neutralize the negative charges on the particles. Then the particles can stick together, forming larger particles which are more easily removed.









INTRODUCTION

Department of Chemistry
Malaysia provides analytical,
scientific and consultation
services with respect to
criminal justice system,
public safety, public health,
environment quality,
consumer protection,
evaluation of government
supplies and laboratory
inspection.

NUR FARAHIN BINTI FARROK A15CS0163 3 SSCA

PRICELESS EXPERIENCE

- Learn new things
- Hand on instruments
- New environment and friends

JABATAN KIMIA MALAYSIA (JOHOR Branch)

CIK FARIZSYA HANI BINTI HAMMIM HEAD OF FOOD SECTION

- Online Registration at Jabatan Kimia Malaysia portal: http://www.kimia.gov.mv/v3/ms/
- Allowance provided (RM15/day)



INTERESTING PART

- Learn the procedures on receiving and returning samples
- Analysis for the parameters;
 Formaldehyde,
 Benzoic Acid,
 Synthetic Colorings,
 Heavy Metals, Total
 Nitrogen, Sulphur
 Dioxide & Calcium



TRAINING SCOPE

(Food Section)

Monitoring the Safety and Quality of Food

MINI PROJECT

Verification of heavy metal (Cadmium) by AAS



INSTRUMENTATIONS

- Atomic Absorption
 Spectrometer
- High Performance Liquid
 Chromatography
- . Gas Chromatography
- Ultraviolet-Visible Spectrophotometer



INTRODUCTION

INFOGRAPHIC

NUR FATIHAH BT YUSOF 3 SSCC A15SC0169



ADDRESS

NAME OF COMPANY

Plo 553, Jalan Keluli 8, Zone 12, 81700 Pasi

Gudang, Johor, Malaysia

UYEMURA (MALAYSIA) SDN BHD

Contact: +607 251 1566

Fax: +607 252 0631

WHAT THIS COMPANY DO

Manufacturing of electro and electroless plating chemicals and treatment chemicals

FACULTY SUPERVISOR

DR SUSILAWATI BINTI TOEMEN (LECTURER FACULTY OF SCIENCE, UTM)

INDUSTRIAL SUPERVISOR

Dr Wong Jia Tian (R&D Manager OF Uyemura (Malaysia) Sdn. Bhd)

Malaysia

EXPERIANCES

I had been placed at R&D Department for this 12 weeks. A lot of things that had been learned especially about the electro and electroless plating. Besides, I had been assigned to test quite a lot of sample from the customers using basic skill which was titration and also other method. In addition, had a chance to learn and run various type of instrumentation at this company such as AAS, UV-Vis, CE, IC, Salt Spray Chamber and many more. I also had the opportunity to join the First Aid Training from Bulan Sabit Merah

THING I LEARNED

Get

creative in solving the problem

Working smart

under pressure

with working environme

nt

Familiar

Improve

communic ation skill



CF



INSTRUMENTATIONS

AAS



0 5

SALT SPRAY CHAMBER

MINI PROJECT

Title:

Evaluation on Corrosion Performance of HEBAT CHROME CMP and NIMUDEN MVP Towards **Electroless Nickel Application**

Objectives:

To evaluate corrosion performance of HEBAT CHROME CMP and NIMUDEN MVP towards Electroless Nickel application.





NURUL AINI BINTI MAT SIDIK

3 S S C C | U T M | 1 7 / 1 8

SPECTRUM LABORATORIES JOHORE

SPECTRUMLABS is fully committed to providing high quality and efficient services to its clients. On top of that you can be assured of total reliability and strict confidentially at all times. We are accredited under Skim Akreditasi Makmal Malaysia (SAMM) by the Department of Standard Malaysia to MS ISO / IEC 17025 for chemical testing speciabjb@gmail.com

SPECTRUM LABORATORIES
(JOHORE) SDN. BHD.
18A, JALAN MOLEK 2/5,
TAMAN MOLEK,
31100 JOHOR BAHRU, JOHO

SPECTRUM



GET TO LEARN AND HANDLING THE INSTRIMENT

WORK WITH WATER SAMPLES FOR CHEMICAL TESTING





GET TO LEARN AND HANDLING THE LABORATORY APPARATUS



being for intenship at spectrum lab was enjoyable for me and got a lot to learn especially in doing chemical testing with great team mates there!!

INTERNSHIPAT



PREPARED BY:

NURUL SAKINAH BINTI ISMAIL

THIRD YEAR STUDENT

BACHELOR OF SCIENCE (INDUSTRIAL CHEMISTRY)

A BRIEF HISTORY OF SUNWARD PHARMACEUTICAL

- INCORPORATE IN 1968
- AIM: IMPROVE HEALTH AND QUALITY OF LIFE
- ONE OF LARGEST GENERIC PHARMACEUTICAL MANUFACTURERS IN SINGAPORE WITH FACTORY IN MALAYSIA (1992)



RESPONSIBILITIES



- + ASSAYTEST
- DISSOLUTION TEST
- * DOCUMENTATION
- + STABILITY SAMPLE
- DISPOSE SAMPLE WAS TE

ASSAY TEST

- Analytical procedure to qual acress success or quantitatively excess presents amount or binactical across of largest statute.
- · Western released purery colony and quality
- · Descript method Photometryl Spectrophotometry



DISSOLUTION

- . Process of dissolving a solute into a solvent to produce solution
- Importance: Characterize performance of oral solid dosage forms.
- Rate or extent of drug absorption are determine by dissolution from dosage form.









SUNWARD PRODUCTS

TABLET	SYRUP	CREAM
METFORMIN TAB (BLISTER)	PAEDICOF SYRUP	AQUEOUS CREAM
SUNVASC 5 TABLET (BLISTER)	DECONDINE SYRUP	BETAMETHASONE CREAM
SUN-GLIZIDE TABLET (BLISTER)	LYCOMINE SYRUP	CROTAMIXONE CREAM
SUNPROX 550 TABLET (BLISTER)	PHOLCODYL FORTE SYRUP	MICONAZOLE CREAM
PRENAVIT TABLET	SUNEX COUGH SYRUP	LOBESOL CREAM
SUNOLUT TABLET	SUNTUSS SYRUP	ZORAX CREAM

DOCUMENTATION & STABILITY SAMPLE

- * DOCUMENTATION
 - Arrange and compile report
 - Key in data for report
 - Filing report
- + STABILITY SAMPLE
 - · Help arrange in chamber
 - Help take out sample for text

DISPOSING SAMPLE WASTE

- Dispose monthly stability sample waste for tablet, syrup and cream
- Dispose stability sample waste
- . Dispose QC test sample waste for tablet, syrup and cream





Water Quality Department of SAJ Ranhill Sdn. Bhd monitors and ensures the quality of water supplied to customers are within the guideline set by the Ministry of Health



bt Ad Ghapur



Foculty Supervisor AP. Dr. Md Supar bin Rohani





Auto-titrator for Hardness and Chloride Gas Chromatography-Moss Spectrometry



Aerator at Sri Gading, Water Treatment Plant



Industry Supervisor

Mrs. Sa'diah

Analyse sample for parameter colour



Taking coagulated water for Snap Test



Gunung Ledang Dam



Jar Tester



Ammonia samples



Mini Project

Gunung Pulai, LRA Sq. Johor)

Address: Makmal Pusat SAJ Ranhill Sdn. Bhd. Lot 4705, Kawasan Perindustrian Sri Gading Batu 6, Jalan Kluang, 83300 Batu Pahat, Joha Contact +607-4554726



LEE PINEAPPLE CO. (PTE) LTD





TRAINING INFROMATION:

QA/QC Activities

- Determination of titratable acidity, pH, sugar strength & percentage of solid
- Determination of iron & chlorine concentration
 - Double seam inspection
 - Microbiological testing

Apparatus

- Refractometer
- Colorimeter test kit

ORGANISATION BACKGROUND

Lee Pineapple Co. (Pte) Ltd has been in the pineapple business for over half of a century. From a small company, they have grown to become a world-famous grower, canner and exporter of canned pineapple and juice.

CONTACTS:

Address:

8 1/2 M.S. Jalan Skudai, 81300, Skudai, Johor, Malaysia

Tel:

07-5561411, 07-5561363

Email:

leepine@lee-pineapple.com

SUPERVISOR DETAILS:

Industry:

Ms. Serene Soh

(QA Executive)

Faculty:

Dr. Fazira Ilyana binti Abdul Razak

PANG SIEW WOON (SSCC)





INTERNSHIP INFOGRAPHICS KAREX INDUSTRIES SDN BHD

SHAHRUL EZLAN BIN MOHD ALEFF 3SSCC

ABOUT COMPANY

Karex started as a family business with a manufacturing capacity of only 60 million pieces of condom per annum. On November 2013 Karex was listed on the Main Market of Bursa Malaysia.

LOCATION

Pontian, Johor (Headquarters)

TRAINING SCOPE

Primary Production Department

SUPERVISOR
En Mohd Asri bin Che Me
Primary Production Manager

THINGS LEARNED IN KAREX

- ⇒Dipping Process
- ⇒Latex Compounding
- ⇒Teamwork and Time Management

PRODUCTS



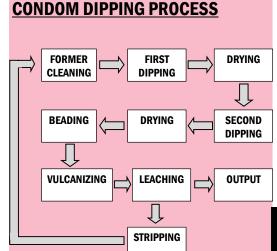
Condoms



Lubricating Jelly



Probe Cover



The laboratories provide analytical and environmental monitoring services such as:

- Water analysis - Effluent analysis - Soil analysis- Food analysis-Organic analysis-Environmental air and noise level monitoring for EIA studies- Water quality monitoring for EIA studies-Air emission monitoring-Isokinetic stack monitoring-Wastewater characteristic studies (WWCS)-Treatibility studies-Reseach and Development (R & D)

SPECTRUM LABORATORIES

BY SITI ASMAH BAHAROM(4 SSCC)

Place: Taman Molek, Johor Bahru Tel: 07 - 353 9288 / 2088 / 7088

Fax: 07 - 358 1088

Email: speclabjb@gmail.com









Background

- · Previously, known as IOI lipid Enzymtec Sdn. Bhd
- Now, known as Bunge Loders Croklaan
- · A leading producer as premium quality oils and fats
- · 6 continents to serve 100+ countries
- · 100% traceability sourced from paim oil





500+ Products

- animal nutrition
- confectionary
- Daily fat alternatives
- Infant nutrition





Training Scope

TOPIC		
Betapol/ Betabuse Background	SPD Process	
Basic Analysis (Theory)	Dry fractionation	
Heidure (MNE)	Neutralization	
Peroxide Value (PV)	Solvent Fractionation	
Indine Value (TV)	Contaminant Background	
Slip Melting Paint (SMP)	QC training (Intro)	
Soap Content Analysis	CN/ SNZ analysis	
Refining Process (Theory)	TG/ Httri analysis	
Refining Application	FAC analysis	
ETE Process	111000010100	

Terms and Conditions

Attached department : R&D

Training allowance : RM500/month
 Working hours : Monday-Friday

8.30 am - 5.45 pm

Caupon canteen : RM 115/month

Things Learned

- Gained knowledge and skills in performing severals tests to determine oil quality
- Informed about instruments used for analysis :
 - GC-MS
 - AAS
 - TD-NMR
 - > HPLC
- Familiarized with std oil refining and several key process in oils and fats
- Able to practice laboratory work ethics, precaution steps and procedure.

Mini Project

Treatment on oil for contaminants mitigation by using difference concentration of alkaline solution.



Refining process



Bleaching



Filteration



Siti Mariah

Bt Abd

Wahab

3SSCC

Deodorisation

Contact Information

Bunge Loders Croklaan Sdn Bhd

PLO 8&9 Jalan Timah, 81700, Pasir Gudang Johor

07-3818888 (tel)



0 6 5

My Internship synthomer



Liquid Properties Testing



Total Solid

Content







pH meter

About Me

Siti Nur Aisyah Binti Jalaluddin 3SSCC - Industrial Chemistry

Supervisor

UTM - Dr Aemi Syazwani Industry - Dr Sobhan Bahraeian



About Company

SYNTHOMER SDN. BHD. 1½ MILES, JALAN BATU PAHAT, 86000 KLUANG, JOHOR.

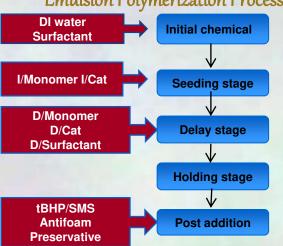
Phone: +6077391116 Fax: +6077391031

Human Resource Department



- ☐ Prepare of Emulsion Polymerization (21 samples).
- ☐ Do liquid properties testing on sample.
- ☐ Prepare paints for coating application.
- ☐ Test performance of paint coating (19 samples).

Emulsion Polymerization Process





Scrub Test



Natural Weathering Test



Stain Test











TIME MANAGEMENT

ADAPTIBILITY

LESSON GAINED COMMUNICATION SKILLS

INITIATIVE





Siti Nuraini Mohd Sokri 3 SSCA At AMR: Laboratory

Department At UTM: Chemistry Department



Mr. Farhan Zainal Lab Manager AMR Environmental



Mrs. Susilawati Lecturer Department of Chemistry UTM





+606 601 4550



amr@enquiry.com.n



WITH ALLOWANCE



Contact:

- Lot 2244, Batu 391/2 Pontian Besar. 82000 Pontian, Johor
- +07-6861996
- karex@karex.com.my



TENG CHIN CHAI (SSCC) A15SC0292

R&D Activities



Toluene Swell



Lab Scale Dipping



Viscosity



Total Solid Content



Physical Test



Total Alkalinity



Mechanical Stability

Company Overview

- The world's largest condom manufacturer
- Products are principally sold in commercial, tender and OBM markets
- Manufacture rubber-based medical

Job Scope

- Optimize productivity
- Improve product quality
- Cater customer's demands
- Design and develop products

Project



Determine the suitable work-off level of black compound in latex



Develop a new coloured condom

TRAINING SCOPE

- To observe and learn production team operations and handling parameters
- ☐ To learn and conduct SPC on devices before manufacturing for quality purposes
 - To involve in data collection and analysis for process improvement projects

ABOUT ST: TOP 20 GLOBAL SEMICONDUCTOR COMPANY LEADING IN INTEGRATED DEVICE MANUFACTURING FOR AUTOMOTIVE, GADGETS, INFRASTRUCTURE AND GREEN TECHNOLOGY



Experiences from VELMURUGAN 3 SSCC









TASKS DURING INTERNSHIP

- Carry out SPC for on-hold engineering lot
- Check for cavity structure to improve molding process
- Do cavity mapping activity to locate reject pattern
- Conduct a mini project on removing a SPC control from assembly area



SKILLS GAINED DURING INTERNSHIP:

- ANALYTCAL SKILL
- DECISION MAKING SKILL BASED ON CRITICAL THINKING
- IMPROVED COMMUNICATION
- ENHANCED PRESENTATION SKILL



Contact Person:
Ms. THURGA CHANARAN
Email:thurga.chanaran@st.com
Address:TANJUNG AGAS INDUSTRIAL
AREA, P.O. BOX 28, 84007 MUAR,
JOHOR, MALAYSIA.



NOR SHAHIRAH ISMAIL

A15SC0130 SSCC





GAS PROCESSING PLANTS SANTONG, PETRONAS GAS BERHAD. KM 8, KG. TOK ARUN, OFF JALAN SANTONG, 23100 PAKA, DUNGUN, TERENGGANU.



09-8312345





Training Scope:

Analyse sample based on its specification before to

commercial.



My Supervisor:

Faculty Supervisor:

Dr. Che Rozid Mamat

Industrial's Supervisor:

M.Fakaruddin Abdullah





3) Condensate Analysis





Conductivity Meter





Spectrophotometer

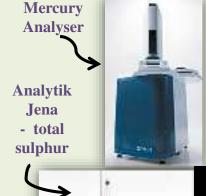


2) Gas Chromatography

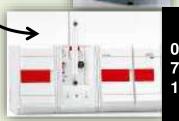








4) Contaminant Analysis



Flow Chart Water Treatment Process

Raw Water

Screening

Aeration

Coagulation & Flocculation

Sedimentation

Filtration

Disinfection & Fluoridation

Service Tank

Users

THINGS LEARN

- Communicate efficiently with any level of people at SATU.
- Gain more knowledge about water treatment process, piping system and billing.
- Water Quality Analysis
- Jar Test Analysis
- Handle instruments such as Jar Tester, Turbidimeter, Ph meter and colorimeter.

INSTRUMENTATIONS



PRICELSS EXPERIENCES

- □ Able to work under pressure
 □ Adapt to work environment
- Having good relationship with other training students and workers in SATU
- □ Develop soft skills for example when present in front of SATU's chief and supervisor

NUR ATIKAH BINTI ABDUL KARIM A15SC0158 3 SSCA Supervisor Details Industry: En Nik Mohamad Syahmi Bin Khalib Faculty: Dr Che Rozid Mamat

PHONE: 09-6811214

TERENCGANU

FAX: 09-6812212

Syarikat Air Terenggamu Sdn. Bhd. Daerah Hulu Terenggamu

WEBSITE: www.satuwater.com.my

SDN.BHD DAERAH HULL

start its construction on 2004 with the cost 120 million. The operation of water treatment plant start at 26 July 2006. The plant was developed to increase water supply in Hulu Terengganu district. The plant's design can support 55 million litres water every day which supply treated water to overall 80 percent of Hulu Terengganu district.

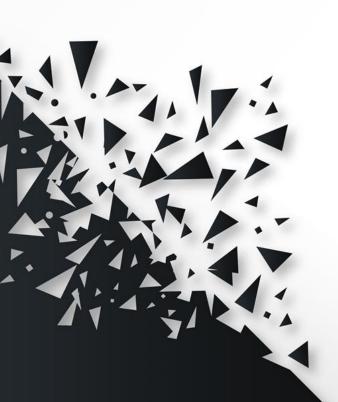
The Water Treatment Plant of Hulu Terengganu



TERENGGANU, JALAN KAMPUNG

GAUNG, 21700 KUALA BERANG, HULU

0 7 2







Sarawak Biodiversity Centre

Contact:

Tel: 00 6 082 610610

· Email: biosar@sbc.org.my

Focuses biotechnology research and documentation on traditional knowledge of Sarawak's biological resources

Personal Information

- · Name: Tan Jun Hao
- · Year/Course: 3 Year in Bachelor of Science, Industrial Chemistry

Organisation Supervisor

Madam Nuraqilah binti Othman (Research Officer of Analytical Chemistry Laboratory

Faculty Supervisor

Assoc. Prof. Dr. Ismail Mohamad (Lecturer of Mathematics Department)





Assisting Research Officers' project



Attending international conference



Going on a field trip to Bako National Park



LitSara® exhibition booth duty

Instruments Handled



system



Evaporator



Freeze Dryer

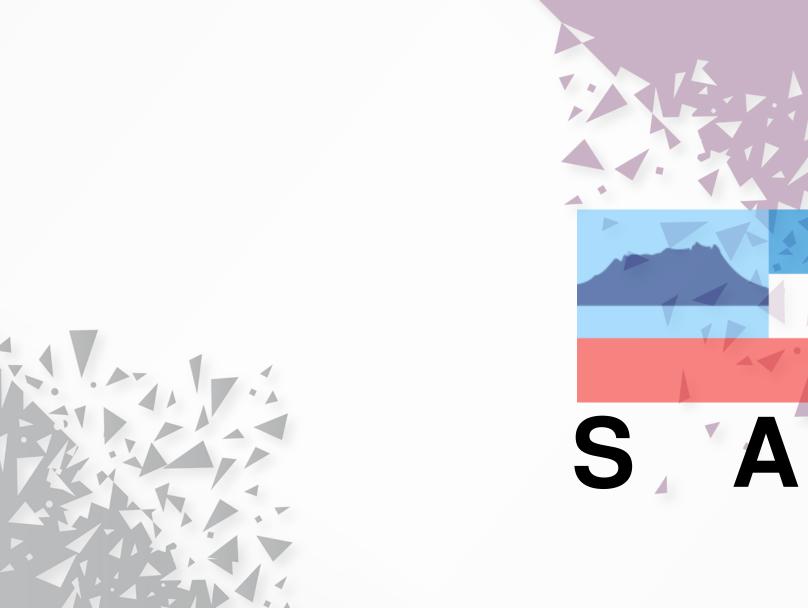
AND MUCH MORE ...

New knowledge relating to chemistry

Skills to operate analytical instruments

Experience Gained

Familiar with the working environment



Personal Details

Name : Ray Georgeny No. Matric: A15SC0237 Course: 3SSCC (Industrial

Chemistry)

Supervisor Details

Puan Jessieca Junas (Industry)

Dr. Suhairul Hashim (Faculty)

Introduction to **Internship Place**

The Department of Chemistry (DOC) is a national organization of laboratories under the Ministry of Science, Technology and Innovation (MOSTI) that provides analytical, investigatory and consultancy services to government agencies for the enforcement of laws and regulation and the implementation of programs related to the public health.





Instrument







D.O Meter

UV-Vis Spectrophotometer

Kjehdal Distillation

System

pH Meter

Mini Project

Things I Learned at Work Place

- Monitoring the environment to ensure it follows the regulation that the government already enforce.
 - Learned how to conduct analysis based on method that are approved by JKM

VERIFICATION OF APHA METHOD, 21ST EDITION.

METHODS

- **Sulphate**
- Conductivity

CRITERIA FOR VERIFICATION

- Recovery of sample must be between 80%-120%
- Coefficient of Variation (CV) must be 20% or lower
- F Test between old data and new data does not have a significant difference.

*All Method (Above) are accepted as all of them fulfil 7 the criteria for acceptance.

DEPARTMENT OF CHEMISTRY (SABAH)

- An agency under the Ministry of Energy, Science, Technology, Environment & Climate Change, of Malaysia
- Provides analysis, investigations and scientific consultancy to government agencies

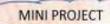
TER QUALITY SECTION

Analysis of COD in water using UV-Vis Spectrophotometer

Analysis of Organochlorinepesticide in water using GC-ECD

12 WEEKS PRICELESS EXPERIENCES

- Attend "Merck Day" seminar
- Organise Hari Raya celebration
- Presentation and Talks
- Deep exposure to variety of instruments
- Step by step analysis
- Explanation and guide from industry supervisor, lab assistants



Verification of 5 organochlorine pesticides analytes using GC-ECD

Alpha HCH

Gamma HCH

Beta Endosulfan

Aldrin

4,4 DDT











SUPERRVISORS

Industrial Supervisor

Madam Siti Faridah binti Mohd Yunus Science Officer Department of Chemistry (Sabah) Assoc Prof Dr Suhairul Hashim Lecturer Department of Physics

Faculty Superviso

CONTACTS

Address: Makmal Negeri Sabah Rose Garden, Jalan Penampang 88300 KOTA KINABALU FB: Jabatan Kimia Malaysia Negeri Sabah Phone no: 088 – 259 090 / 088 – 252 112

7

INTERNSHIP PROGRAMME (2018)

PROFILE

Name: Siti Zuraine Zainol Matric No.: A15SC0312

Supervisors: Azlinah Ahmad Banjar (DOC) Dr. Suhairul Hashim (UTM)



TAWAU

KOTA KINABALU

Address: Makmal Negeri Sabah, Rose Garden, Jalan Penampang, Sabah, 88300

Kota Kinabalu.

Phone No.: 088 - 259 090

Main Activities

- ✓ Analysis of cigarettes
- Quantitative test for flour
- ✓ Determination of fuels
- ✓ Determination of sugar
- ✓ Determination of ethanol content in alcoholic beverages
- ✓ Determination of LPG



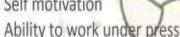


Things I learned

- Communication skill
- Working skill
- Handling instrument by myself
- Self motivation
- Ability to work under pressure

Department of Chemistry

A national organization of laboratories under the Ministry of Science, Technology and Innovation (MOSTI) that provides analytical, investigatory and consultancy services to government agencies.







PERSONAL DETAIL



THINGS LEARNED!!!

Critical thinking

Planning and scheduling

Common

Ability to stay caim

MY INTERNSHIP'S JOURNEY AT



Ai Chia Patrick Melet A155C0007

* Bachelor Degree of Science (Pure Chemistry)

🔯 elainejiajia96Zamail.com









Research Topic: Gold/Silver Core Shell
Nanoparticles on Distance-based
Paper Sensor and Application for
Colorimetric Sensing of Ascorbic Acid
Detection









Assistant Prof. Dr. Wijitar Dungchai (KMUTT)



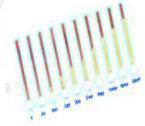
PM. Dr. Zaiton Abdul Majid (UTM)





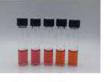


Au NPs solution



Distance-based device







Synthesis of a Novel Benzylalcohol-phenylacetylene for Fluorescent Sensor

Abstract:

benzylalcohol-phenylacetylene successfully prepared from Sonogashira coupling reaction in three steps with a high percentage of yield. The compound 3 acquired the fluorescence properties and showed a fluorescent light under the black light. Nuclear Magnetic Resonance spectrometer (NMR) was applied to characterise this compound. As a result, compound 3 functioned as an alternative fluorescent chemosensor in which there are more research and investigation needed to be conducted in future time.





TEO HWEE LI 3 SSCA hweeli4156@gmail.com



Organisation SV:

Asst. Prof. Dr. Nakorn Niamnont

Faculty SV:

Prof. Madya. Dr. Zaiton bt Abdul Majid



Connected with people from different countries Cultural and language exchange Explore the real research environment Be critical in handling the challenges in experiment



Divisions in Department of Chemistry: Analytical Chemistry, Inorganic Chemistry, Organic Chemistry, Physical Chemistry, Biochemistry, Environmental Chemistry and Polymer Chemistry.



International Affairs, Faculty of Science (FSci), KMUTT 126 Pracha Uthit Rd., Bang Mod, Thung Khru, Bangkok 10140, Thailand.

Tel: +662 470 8974

Email: inter.sci@mail.kmutt.ac.th

PROGRAM	NAME	ADDRESS OF COMPANY	DISTRICT	STATE
SSCC	MOHD SOLIHIM BIN JOHARI	DXN PHARMACEUTICAL SDN. BHD. LOT 1109, MUKIM MALAU DAERAH KUBANG PASU 06000 JITRA KEDAH	JITRA	KEDAH
SSCA	NOORFAINNAS BIN NOORAZMAN	JABATAN KIMIA MALAYSIA CAWANGAN KEDAH SEKSYEN ALAM SEKITAR & AIR JALAN SUKA MENANTI 15150 ALOR SETAR KEDAH	ALOR SETAR	KEDAH
SSCC	SITI NOR AMALINA BINTI MOHD AKHIR	DXN PHARMACEUTICAL SDN. BHD. LOT 1109, MUKIM MALAU DAERAH KUBANG PASU 06000 JITRA KEDAH	JITRA	KEDAH
SSCA	VARANYA A/P VIRAK	JABATAN KIMIA MALAYSIA CAWANGAN NEGERI KEDAH JALAN SUKA MENANTI 15150 ALOR SETAR KEDAH	ALOR SETAR	KEDAH
SSCA	MONISHA DEVI A/P MURAGAN	PGEO EDIBLE OILS SDN. BHD. 2039, TINGKAT PERUSAHAAN TIGA PRAI INDUSTRIAL COMPLEX 13600 SEBERANG PERAI PULAU PINANG	SEBERANG PERAI	PULAU PINANG
SSCC	NG JIA YA	EUROFINS NM LABORATORY (M) SDN. BHD. NO. 78 & 80, LORONG PERDANA SELATAN 1 BANDAR PERDANA 14000 BUKIT MERTAJAM PULAU PINANG	BUKIT MERTAJAM	PULAU PINANG
SSCA	EZIAN AMELYA BINTI ABDUL MALEK	SPRITZER BHD. (CHUAN SIN SDN.BHD.) LOT 898, JALAN RESERVOIR OFF JALAN AIR KUNING 34000 TAIPING PERAK	TAIPING	PERAK
SSCC	NUR ATIKAH BINTI ABDULLAH	EXCELVITE SDN. BHD. LOT 56442, 7 1/2 MILES JALAN IPOH/CHEMOR 31200 PERAK	JALAN IPOH/CHEMOR	PERAK
SSCA	SUMITRA A/P VENUGOPAL	TOYO TIRES MALAYSIA SDN. BHD. PT 23101 JALAN TEMBAGA KUNING KAWASAN PERINDUSTRIAN KAMUNTING RAYA 34600 TAIPING PERAK	TAIPING	PERAK

PROGRAM	NAME	ADDRESS OF COMPANY	DISTRICT	STATE
SSCC	ANAMIRA BINTI ZAKARIA	TOP GLOVE SDN BHD GMP MEDICARE FACTORY 29, LOT 4985 JALAN BUNGA RAYA BATU 6 OFF JALAN MERU 41050 KLANG SELANGOR	KLANG	SELANGOR
SSCC	DAASHNA A/P SUPPIAH	MACFOOD SERVICES (M) SDN. BHD. NO. 7, JALNA SS13/5 47500 SUBANG JAYA SELANGOR	SUBANG JAYA	SELANGOR
SSCA	HASNIZA BINTI MUHAMMAD	JABATAN KIMIA MALAYSIA JALAN SULTAN 46200 PETALING JAYA SELANGOR	PETALING JAYA	SELANGOR
SSCC	LIYANA AQILAH BINTI ABD KARIM	SIME DARBY RESEARCH SDN. BHD. R & D CENTRE KM 10, JALAN BANTING-KELANANG P.O BOX 207 42700 BANTING SELANGOR	BANTING	SELANGOR
SSCC	MOHAMAD HASIF BIN SHAMSUDDIN	TNB RESEARCH SDN. BHD. NO.1, LORONG AYER HITAM KAWASAN INSTITUSI PENYELIDIKAN 43000 KAJANG SELANGOR	KAJANG	SELANGOR
SSCC	MOHAMAD SYAZWAN BIN SAFARUDIN	JABATAN KIMIA MALAYSIA PUSAT LATIHAN KIMIA MALAYSIA TINGKAT 3, BANGUNAN PERSEKUTUAN JALAN SULTAN 46661 PETALING JAYA SELANGOR	PETALING JAYA	SELANGOR
SSCC	MUHAMMAD HILMAN BIN HAMZAH	ALUMAC INDUSTRIES SDN. BHD. LOT 8463, KAMPUNG JAYA INDUSTRIAL AREA 47000 SUNGAI BULOH SELANGOR	SUNGAI BULOH	SELANGOR
SSCC	NORATIQAH BINTI MOHD HIRKAM	CONTINENTAL SIME TYRE PJ SDN. BHD. QUALITY MANAGEMENT DEPARTMENT MANUFACTURING PLANT NO. 4, JALAN TANDANG 46050 PETALING JAYA SELANGOR	PETALING JAYA	SELANGOR
SSCC	NUR AFIQAH BINTI OTHMAN	AGENSI NUKLEAR MALAYSIA KEMENTERIAN SAINS, TEKNOLOGI & INOVASI MALAYSIA BANGI 43000 KAJANG SELANGOR	KAJANG	SELANGOR

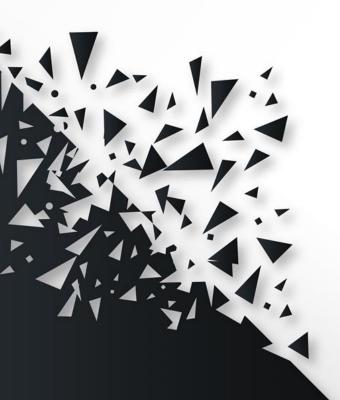
PROGRAM	NAME	ADDRESS OF COMPANY	DISTRICT	STATE
SSCC	NUR KHAIRUNAJWA BINTI KHAIRUDDIN	TNB RESEARCH SDN. BHD. NO.1, LORONG AYER HITAM KAWASAN INSTITUSI PENYELIDIKAN 43000 KAJANG SELANGOR	KAJANG	SELANGOR
SSCA	NURUL IZZATI BINTI HAMDAN	MyTEST LAB SDN BHD. A-3-G, BLK A, PUTRA WALK, JALAN PP25 TAMAN PINGGIRAN PUTRA SEKSYEN 2, BANDAR PUTRA PERMAI 43300 SERI KEMBANGAN SELANGOR	SERI KEMBANGAN	SELANGOF
SSCC	RAZAN SYAZNA BINTI MOHAMAD ARIP	SB TAPE INTERNATIONAL SDN. BHD. LOT. 1812, JALAN KPB 1 KAWASAN PERINDUSTRIAN KG BARU BALAKONG 43300 SERI KEMBANGAN SELANGOR	SERI KEMBANGAN	SELANGOF
SSCA	SYAHIDIN ARSYAD BIN MOHD BUKHARI	PETRONAS RESEARCH SDN. BHD. GROUP RESEARCH & TECHNOLOGY LOT 3288 & 3289 OFF JALAN AYER ITAM KAWASAN INSTITUSI BANGI 43000 KAJANG SELANGOR	KAJANG	SELANGOF
SSCA	SUMARNI BINTI SYAHRUDDIN	AJINOMOTO (MALAYSIA) BERHAD LOT 5710, JALAN KUCHAI LAMA 58200 PETALING KUALA LUMPUR	PETALING	KUALA LUMP
SSCC	NUR FARAH DINA BINTI AJID	NABBIR LABORATORY (KL) SDN. BHD. NO.265-267, JALAN NILAI 3/21 KAWASAN PERINDUSTRIAN NILAI 3 71800 NILAI NEGERI SEMBILAN	NILAI	NEGERI SEMBILAN
SSCC	PUTRI NADHIRAH BINTI ROSLIN	NABBIR LABORATORY (KL) SDN. BHD. NO. 267, JALAN NILAI 3/21 KAWASAN PERINDUSTRIAN NILAI 3 71800 NILAI NEGERI SEMBILAN	NILAI	NEGERI SEMBILAN
SSCA	NUR AIN ATIQAH BINTI MOHD AMIN	PACIFIC FOOD PRODUCTS SDN. BHD. (KILANG MAKANAN MAMEE SDN. BHD.) LOT. 1, AIR KEROH INDUSTRIAL ESTATE 75450 AYER KEROH MELAKA	AYER KEROH	MELAKA
SSCA	NURUL FARAH SYAHEYRA BINTI RAHMAT	SYARIKAT AIR MELAKA BHD. JABATAN SUMBER MANUSIA TINGKAT 6, WISMA AIR JALAN HANG TUAH 75300 MELAKA	JALAN HANG TUAH	MELAKA

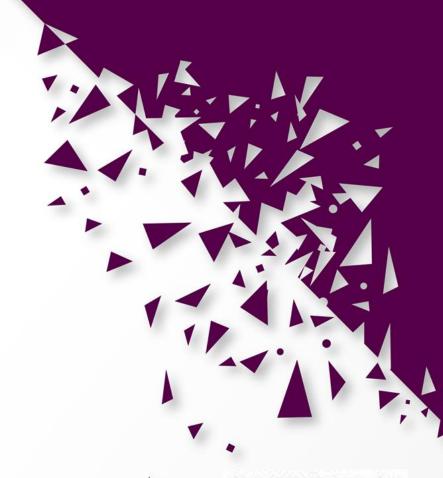
ROGRAM	NAME	ADDRESS OF COMPANY	DISTRICT	STATE
SSCC	AIDA AMIRAH BINTI MOHD SALLEH	ENVILAB SDN. BHD. 38A, JALAN PINGAL, TAMAN PELANGI 80400 JOHOR BAHRU JOHOR	JOHOR BAHRU	JOHOR
SSCA	AYU FATINI BINTI YUSOP	PRISMA LABORATORY (M) SDN. BHD. NO. 36-01, JALAN KEMPAS INDAH 1/1 81300 JOHOR BAHRU JOHOR	JOHOR BAHRU	JOHOR
SSCC	HAMIZAH BINTI MAIDIN	KAREX INDUSTRIES SDN. BHD. LOT 2244, BT. 39 1/5 PONTIAN BESAR 82000 PONTIAN JOHOR	PONTIAN	JOHOR
SSCC	HEW SIEW NI	EUROFINS NM LABORATORY (M) SDN. BHD. 27, JALAN IMPIAN EMAS 5 TAMAN IMPIAN EMAS 81300 JOHOR BAHRU JOHOR	JOHOR BAHRU	JOHOR
SSCC	ISAIAH CHEONG YANG SHENG	LOTTE CHEMICAL TITAN (M) SDN. BHD HR DEPARTMENT PLO 312, JALAN TEMBAGA 4 PASIR GUDANG INDUSTRIAL ESTATE 81700 PASIR GUDANG JOHOR	PASIR GUDANG	JOHOR
SSCC	JUANI BINTI IBRAHIM	CCM CHEMICALS SDN. BHD. PLOT 411, JALAN PERAK 1 PASIR GUDANG INDUSTRIAL ESTATE 81700 PASIR GUDANG JOHOR	PASIR GUDANG	JOHOR
SSCA	LIM SHUH XINE	UNIVERSITY OF READING MALAYSIA SCHOOL OF PHARMACY PERSIARAN GRADUAN KOTA ILMU EDUCITY 79200 ISKANDAR PUTRI JOHOR	ISKANDAR PUTRI	JOHOR
SSCA	LIM YEN YEE	DAIREN CHEMICAL (M) SDN. BHD. PLO 18, JALAN NIBONG 1 TANJUNG LANGSAT INDUSTRIAL ESTATE 81700 PASIR GUDANG JOHOR	PASIR GUDANG	JOHOR
SSCA	NOOR ADYANTI BINTI RUSDI	LIPIDCHEM SDN.BHD. 9, JALAN BUKIT 2, KAWASAN MIEL BANDAR SERI ALAM FASA VII 81750 MASAI JOHOR	MASAI	JOHOR

PROGRAM	NAME	ADDRESS OF COMPANY	DISTRICT	STATE
SSCA	NORZULFIKA BINTI AMIT	SPECTRUM LABORATORIES (JOHORE) SDN. BHD. 18A, JALAN MOLEK 2/5 TAMAN MOLEK 81100 JOHOR BAHRU JOHOR	JOHOR BAHRU	JOHOR
SSCA	NUR ADILLAH BINTI MUSA	NATURAL OLEOCHEMICALS SDN. BHD. PLO 428, JALAN BESI SATU 81700 PASIR GUDANG JOHOR	PASIR GUDANG	JOHOR
SSCC	NUR AIN NADIRAH BINTI ABDULLAH	UYEMURA (MALAYSIA) SDN. BHD. PLO 553, JALAN KELULI 8, ZONE 12 81700 PASIR GUDANG JOHOR	PASIR GUDANG	JOHOR
SSCA	NUR FARAHIN BINTI FARROK	JABATAN KIMIA MALAYSIA CAWANGAN NEGERI JOHOR JALAN ABDUL SAMAD 80100 JOHOR BAHRU JOHOR	JOHOR BAHRU	JOHOR
SSCC	NUR FATIHAH BINTI YUSOF	UYEMURA (MALAYSIA) SDN. BHD. PLO 553, JALAN KELULI 8, ZONE 12 81700 PASIR GUDANG JOHOR	PASIR GUDANG	JOHOR
SSCC	NURUL AINI BINTI MAT SIDIK	SPECTRUM LABORATORIES (JOHORE) SDN. BHD. NO.18A, JALAN MOLEK 2/5 81100 JOHOR BAHRU JOHOR	JOHOR BAHRU	JOHOR
SSCC	NURUL SAKINAH BINTI ISMAIL	SUNWARD PHARMACEUTICAL SDN. BHD. 9, 11 & 17, JALAN KEMPAS 4 TAMAN PERINDUSTRIAN TAMPOI INDAH 81200 JOHOR BAHRU JOHOR	JOHOR BAHRU	JOHOR
SSCA	NUR SYAHIERAH BINTI JOHAN	SAJ RANHILL SDN. BHD. LOT 4704 KAWASAN PERINDUSTRIAN SRI GADING BATU 6, JALAN KLUANG 83300 BATU PAHAT JOHOR	BATU PAHAT	JOHOR
SSCC	NUR SURAYA BINTI OTHMAN	ENVILAB SDN. BHD. 38A, JALAN PINGAL, TAMAN PELANGI 80400 JOHOR BAHRU JOHOR	JOHOR BAHRU	JOHOR
SSCC	PANG SIEW WOON	LEE PINEAPPLE CO. (PTE) LTD. 8 1/2 MILES JALAN SKUDAI 81300 SKUDAI JOHOR	SKUDAI	JOHOR

PROGRAM	NAME	ADDRESS OF COMPANY	DISTRICT	STATE
SSCC	SHAHRUL EZLAN BIN MOHD ALEFF	KAREX INDUSTRIES SDN. BHD. LOT 2244, BT. 39 1/5 PONTIAN BESAR 82000 PONTIAN JOHOR	PONTIAN	JOHOR
SSCC	SITI ASMAH BINTI BAHAROM	SPECTRUM LABORATORIES (JOHORE) SDN. BHD. NO.18A, JALAN MOLEK 2/5 81100 JOHOR BAHRU JOHOR	JOHOR BAHRU	JOHOR
SSCC	SITI MARIAH BINTI ABD WAHAB	IOI LODERS CROKLAAN OILS SDN. BHD. PLO 8 & 9, JALAN TIMAH PASIR GUDANG INDUSTRIAL ESTATE 81700 PASIR GUDANG JOHOR	PASIR GUDANG	JOHOR
SSCC	SITI NUR AISYAH BINTI JALALUDDIN	SYNTHOMER SDN. BHD. 1 1/2 MILES JALAN BATU PAHAT 86000 KLUANG JOHOR	KLUANG	JOHOR
SSCA	SITI NURAINI BINTI MOHD SOKRI	AMR ENVIRONMENTAL SDN. BHD. 29 & 29A, JALAN PULAI PERDANA 11 TAMAN SRI PULAI PERDANA 81110 JOHOR BAHRU JOHOR	JOHOR BAHRU	JOHOR
SSCC	TENG CHIN CHAI	KAREX INDUSTRIES SDN. BHD. LOT 2244, BT. 39 1/5 PONTIAN BESAR 82000 PONTIAN JOHOR	PONTIAN	JOHOR
SSCC	VEL MURUGAN A/L NAGALINGGAM	ST MICROELECTRONICS SDN. BHD. TANJUNG AGAS INDUSTRIAL AREA P.O. BOX 28 84007 MUAR JOHOR	MUAR	JOHOR
SSCC	NOR SHAHIRAH BINTI ISMAIL	PETRONAS GAS BERHAD KM 105 JALAN KUANTAN-KUALA TERENGGANU 24300 KERTIH TERENGGANU	KERTIH	TERENGGANU
SSCA	NUR ATIKAH BINTI ABDUL KARIM	SYARIKAT AIR TERENGGANU SDN. BHD. LOJI AIR SATU HULU TERENGGANU JALAN SULTAN ISMAIL 20200 KUALA TERENGGANU TERENGGANU	KUALA TERENGGANU	TERENGGANI

PROGRAM	NAME	ADDRESS OF COMPANY	DISTRICT	STATE
SSCC	RAY GEORGENY	JABATAN KIMIA MALAYSIA CAWANGAN SABAH ROSE GARDEN JALAN PENAMPANG 88300 KOTA KINABALU SABAH	KOTA KINABALU	SABAH
SSCA	NORSAHIRUTIARA BINTI MOHD. ASRUL	JABATAN KIMIA MALAYSIA CAWANGAN NEGERI SABAH ROSE GARDEN, JALAN PENAMPANG 88300 KOTA KINABALU SABAH	KOTA KINABALU	SABAH
SSCA	SITI ZURAINE BINTI ZAINOL	JABATAN KIMIA MALAYSIA CAWANGAN NEGERI SABAH ROSE GARDEN, JALAN PENAMPANG 88300 KOTA KINABALU SABAH	KOTA KINABALU	SABAH
SSCC	TAN JUN HAO	SARAWAK BIODIVERSITY CENTRE KM 20, JALAN BORNEO SEMENGOH LOCKED BAG NO. 3032 93990 KUCHING SARAWAK	KUCHING	SARAWAK
SSCA	AI CHIA PATRICK MELET	KING MONGKUT'S UNIVERSITY OF TECHNOLOGY THANBURI 126, PRASHA UTHIT RD BANGMOD THUNG KHRU 10140 BANGKOK THAILAND	BANGKOK	THAILAND
SSCA	TEO HWEE LI	KING MONGKUT'S UNIVERSITY OF TECHNOLOGY THANBURI 126, PRASHA UTHIT RD BANGMOD THUNG KHRU 10140 BANGKOK THAILAND	BANGKOK	THAILAND





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