C31 Turnitin L. R. Telly Savalas

by Lalu Rudyat Telly Savalas C31

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ICICS 2015

THE 4th INTERNATIONAL CONFERENCE OF THE INDONESIAN CHEMICAL SOCIETY

29 - 30 SEPTEMBER 2015

MEDAN - INDONESIA

THEME : ENHANCEMENT INNOVATIVE CHEMISTRY RESEARCH

PROGRAME AND ABSTRACT

Pemerintah Propinsi Sumatera Utara

HKI Himpunan Kimia Indonesia

ELSEVIER

ICICS 2015

CHAIRMAN

Dear Collegues,
Welcome aboard!

The ICICS 2015 has been organized to provide a platform for the academicians and researchers to assemble and share the recent knowledge as well as to discuss the initiations required for the growing field of Analytical Sciences. Response to this conference is overwhelming. The conference will have total of 163 papers comprising two plenary, 4 keynotes, 96 orals and 61 posters.

Many thanks to Rector Universiti Sumatera Utara, Rector Univeristi Negeri Medan and Himpunan Kimia Indonesia (HKI) for organized this wonderful event. On behalf of the organizing committee, I thank our Patron, Gabernor Sumatera Utara. I am also thankful to co-chairs of this conference, Dr. Muhammad A. Martoprawiro from Himpunan Kimia Indonesia, and their colleagues for their invaluable support. Also, many thanks for them who supported us financially by giving advertisements in the conference digest.

My team, the organizing committee of the ICICS 2015, has been working relentlessly from the conference call to the registration desk to make the ICICS 2015 a memorable event. There were passionate and those services are beyond comparison. I acknowledge them with deep sense of gratitude and love. I wish you a fruitful stay at ICICS 2015! Once again, I thank you, on the behalf of the organizing committee for your participation and support.

Best Regards,
Organizing Committee

Prof. Dr. Harry Agusnar
Chairman

RECTOR OF SUMATERA UTARA UNIVERSITY

Assalamulaikum Warahmatullahi Wabarakatuh.
Very Good Morning Ladies and Gentlemen.

First of all I would like to welcome to our Distinguished Guests and Keynote Speakers, as well as Prensenters and Participants of The 4thInternational Conference of Indonesia Chemical Society (ICICS) 2015 which is jointly organized by : Departemen of Chemistry USU with UNIMED and The Indonesian Chemical Society North Sumatera,held in Tiara Convention Centre, Medan, Indonesia. On behalf of The Organizing Committee and Civitas Academica of The University of Sumatera Utara, I would like to welcome you all to Medan and North Sumatera Province. Especially to our guests and Speakers coming from Japan, Taiwan, USA, Thailand and Malaysia and other Countries and Provinces in Indonesia, we do hope that you enjoy your stay duringthe Scientific Session in The ICICS.

We are honoured to have you all here and would like to thank you to your interest and participation in the ICICS to discuss our main issue we are facing today, especially in North Sumatera Province, regarding "EnhancementInovation Research".

This issue is directly related into the development of our economy and enterprises which have been subseptible to global crisis, due to their commodity-oriented products. Various agricultural and plantation products. Various agricultural and plantation products, especially in Sumatera Island and Indonesia in general, such as : palm oil, natural rubber, wood, biomass, and other natural resources have not been processed to end products and only been exported as commodities. Whereas several synthetic consumer products, including : foods, medicines, as well as polymeric and other engineering materials have to be imported to fulfill domestic demands. Processing of the renewable natural resources requires chemistry as well as polymer material epertise to increase value-added of the products, which inturn minimizing subseptibility of our economy againts the global crisis.

In this occassion we would like to thank to Keynote Speakers and Lecturers : Particularly The Governor of North Sumatera for your invaluable contributions and recommendations in this seminar. We also thank to all presenters and participants dor your interest and discussions.

Secondly, I would like to congratulate The Organisers of The Indonesian Chemical Society (ICS) will gather all professionals and practitioners in the field of chemistry to contribute to the developments of North Sumatera Province and other countries in general.

Assalamulaikum Warahmatullahi Wabarakatuh.

Medan, 29 September 2015

Prof. Subhilhar. Ph. D
Rector of The University of Sumatera Utara

ICICS 2015
PROGRAMME SEMINAR
29 – 30 September 2015

MONDAY, 28th September 2015

19.30 – 22.00	**Pre-registration** *Lobby, Hotel Tiara, Medan, Indonesia*

TUESDAY, 29th September 2015

07.30 – 08.30	**REGISTRATION** *Ground floor, Tiara Convention Centre (TCC), Medan, Indonesia*
08.30 – 09.30	**OPENING CEREMONY** ***1st floor,Balai Raya, TCC)***
09.30 – 10.00	**COFFE BREAK** ***(1st floor,Balai Raya, TCC)***

10:00 – 12:00 SEMINAR PLENARY

Room : **Balai Raya, PCC**
Moderator : **Prof. Dr. Harlem Marpaung**

10.00 – 10.30	KP-1	Prof. Dr. Tomatshu Takahashi (*Catalysis Research Center, Hokkaido University* Okayama- Japan)	Three Decades of Optical Chemical Sensors Research: Malaysia Experience & The Way Forwards
11.00 – 11.30	KP-3	Prof. Dr. Taifo Mahmud (Department of Pharmaceutical Sciences, Oregon State University, USA)	Research at the Interface of Chemistry, Biology, and Medicine: A Collaborative Journey
11.30 – 12.00	KP-4	Prof. Dr. Zuriati Zakaria (Universiti Teknologi Malaysia)	Assessment of Toxic Elements in Surface Sediment from Linggi River, Malaysia
10.30 – 11.00	KP-2	Prof. Dr. Duen Ren-Hou (Taiwan)	
12:00 – 13:00 Lunch (Balai Raya), Sholat and Rest			

13:10 – 15:30 The First Session

Sesion 1 : Material Chemistry, Catalysis, and Processes (A)

Room : Balai Raifa

Hari/Tgl : Selasa/29 September 2015

13.10 – 13.30	1A-1	*Rudy Tahan Mangapul Situmeang, Raden Supryanto, Lolita Albert Kahar, Liza Apriliya Sukartiningsih*	Characteristics of $LaCrO_3$ Nano Particles prepared using Pectin as emulsifying agent *Rudy Tahan Mangapul Situmeang, Raden*
13.30 – 13.45	IA-2	*Yulia Eka Putri, Diana Vanda Wellia, Alviionita Alvionita*	Morphology-controlled synthesis of SrTiO3 nanocube via solvothermal method
13.45 – 14.00	IA-3	*Safni S Safni, Diana Vanda Wellia, Puti Sri Komala, Reza Putri Audina*	Degradation of Textile Dye (Yellow-Gcn) by Photolysis with UV Light and Solar Irradiation Using C-N-Codoped TiO_2 Catalyst
14.00 – 14.15	IA-4	*Sri-Wardhani*	Hydrogen Peroxides for Improved Dyes Photodegradation Hydrogen Peroxides for Improved Dyes Photodegradation.
14.15– 14.30	1A-5	*Atiek Rostika Noviyanti, Dani Gustaman Syarif, Riansyah Amynurdin Riansyah Amynurdin*	The Effect Of NaOH and KOH on Preparation of Apatite Lanthanum Silicate using Hydrothermal Method.
14.30 – 14.45	1A-6	*li Andri, Evy E Ernawati, Iwan Hastiawan, Muhammad Prasha Silitonga*	Synthesis and Characterization of Nanocomposite Sulfonated PVDF Membrane.
14.45 – 15.00	1A-7	*Evy Ernawati, Solihudin Solihudin, Rubianto A A Lubis, Juliandri Juliandri, Diana Rakhmawaty E, Atiek Rostika Noviyanti, Roekmiati Tjokronegoro*	Cellulose Isolation from Rice Husk using Alkaline Peroxide
15.00 – 15.15	**COFFE BREAK**		
15.15 – 15.30	1A-8	*Diana Rakhmawaty Eddy, muhammad rofik usman, atiek rostika noviyanti Diana Rakhmawaty Eddy, muhammad rofik usman, atiek rostika noviyanti*	The Role of Base Solvent Variant to Structure And Crystal Size Titanium Dioxide (TiO2) by Hydrothermal Method

15.30 – 15.45	1A-9	*Junifa Layla Sihombing, Ary Anggara Wibowo, Ahmad Nasir,Jasmidi*	Hydrocracking Mefa Rubber Seed Oil into Biogasoline and Diesel Fraction over The Combination Y-Zeolite and Ni Catalyst
15.45 – 16.00	1A-10	*Sahrul Hidayat*	Synthesis of C-Lifepo4 Composite by Solid State Reaction Method
16.00 – 16.15	1A-11	*Amir Awaluddin, Saryono Saryono*	Experimental And Kinetic Studies on The Acid-Catalysed Hydrolysis of Manihot Esculenta to Levulinic Acid.
16.15 – 16.30	1A-12	*Swatika Juhana, Agus Taufiq, Cheppy Asnadi*	Pembuatan Silika Gel Berbasis Abu Bonggol Jagung Gunung Kidul serta Karakterisasi dan Uji Kemampuan Absorpsi Air
16.30 – 16.45	1A-13	*Mita Rilyanti.*	Preparation of Zeolites with High Purity Using Bagasse Ash as The Aluminosilicate Source Materials Preparation of Zeolites with High Purity Using Bagasse Ash as The Aluminosilicate Source Materials
16.45– 17.00	1A-14	*Rachmat Triandi Tjahjanto, Masruroh -, Tamam Abimanyu*	Synthesis of PZT Thin Film using Zircone(IV) Nitrate as The Zirconium Source with Sol-Gel Technique Synthesis of PZT Thin Film using Zircone(IV) Nitrate as The Zirconium Source with Sol-Gel Technique
17.00 – 17.15	1A-15	*Ilim - Ilim, Buchari - Buchari, Bunbun - Bundjali, Yana Maolana Syah, Wasinton – Simanjuntak*	Gravimetric and Electrochemical Evaluation Of Fractions of Oligomer 4-Vinylpyridines on Mild Steel In CO_2 Saturated Brine Solution

Sesion 1 : Natural Product and Medicinal Chemistry (B)
Room : Balai Citra 1.
Hari/Tgl : Selasa/29 September 2015

13.10-13.30	IS-4	*Muktiningsih Nurjayadi, Fera Kurnia Dewi, Fernita Puspasari, Kurnia Agustini*	Potential Anti-Fim-C-Salmonella Typhi Antibodies to Develop Detection Method for Typhoid Disease
13.30 – 13.45	1B-1	*Ni Komang Tri Dharmayani, Yana Maolana Syah, Lia Dewi Juliawaty*	A new triterpenoid with antibacterial activities from Dysoxylum densiflorum
13.45 – 14.00	1B-2	*Mohammad Basyuni, Hiroshi Sagami, Baba Shigeyuki, Hirosuke Oku*	Distribution and Occurance of Polyisoprenoid in Mangrove Tree Species

14.00 – 14.15	1B-3	*Ade Arsianti, Fadilah Fadilah, Anton Bahtiar, Surya Dwira, Dadan Ramadhan Apriyanto, Akmal Primadian Suprapto, Hiroki Tanimoto, Kiyomi Kakiuchi*	In Silico Study, Synthesis and In vitro Evaluation of Gallic Acid Derivatives as Novel Antiviral Agents of Hepatitis C
14.15– 14.30	1B-4	*Erwin Erwin, Suryani Suryani*	Phytocemical Analysis, Toxicity and Anti Oksidant Activity of The Wood and Bark Extracts of Sirih Hutan (Pipe aduncum)
14.30 – 14.45	1B-5	*Din Saif Budiman*	Separasi Resin dari Buah Jernang Blood) dengan Cara Ekstraksi Du Metode Maserasi dan Infundasi
14.45 – 15.00	1B-6	*Dini – Hadiarti*	Organoleptic Test, pH and High Foam of Shampoo Formula from Kesum Leaves (Polygonum minus) Ethanol Extract
15.00 – 15.15	**COFFE BREAK**		
15.15 – 15.30	1B-7	*Dede – Sukandar*	Characterization of Compounds in Antioxidant Active Fraction from Ethanol Extract The Seeds of Basil (*Ocimum basilicum L.*)
15.30 – 15.45	IB-8	*Murniaty Simorangkir, Ribu Surbakti, Tonel Barus, Partomuan Simanjuntak*	Inhibitory Activity of Steroidal Alkaloida Glycoside β2-solanine of Extract Ethanol Ranti Hitam (*Solanum blumei Nees ex Blume*) Fruits on Leukimia L1210 Cells Growth
15.45 – 16.00	1B-9	*Rurini Retnowati, Suratmo Suratmo, Sutrisno Sutrisno, Atikah Adhikara, Unggul Punjung Juswono*	In Vitro Nitric Oxide Scavenging Activity of Methanol Extracts and Its Fraction of Mangifera casturi Kosterm Leaves
16.00 – 16.15	IB-10	*Tati Herlina, Unang Supratman, Suseno Amien, Dikdik Kurnia*	Antimalarial Isoflavonoids from The Stem Bark of Erythrina variegate
16.15 – 16.30	1B-11	*Euis Julaeha, Tati Herlina, Tri Mayanti, Ajeng Diantini, Riza Yulisar, Aditya Seiza Wibison*	Isolation and Characterization of Chemical Compounds from Ki Encok (*Plumbago zeylanica*) Plant
16.30 – 16.45	1B-12	*Ikhwan Resmala Sudji, Michael Wink*	Digitonin Synergistically Enhances The Cytotoxicity of Dexamethasone in Pancreatic Cancer Cell Lines
16.45– 17.00	1B-13	*Laurent Octaviana*	KMMC-3, a New Methoxylated Diels-Alder Type Adduct from The Media of Morus cathayana Root Culture
17.00 – 17.15	1B-14	*Ferlinahayati, Eliza Eliza, Khoirunnisah, Jamilah Jamilah*	Chemical Compounds and Cytotoxic Activity of Rhodomyrtus tomentosa

Sesion 1 : **Workshop How Toget Publish**
Room : **Balai Rama**
Hari/Tgl : **Selasa/29 September 2015**

13.10 – 13.30	1C-1	*Sri Adelila Sari Eka Rizka Waleny*	Analysis of Sodium Benzoate Preservative in Red Chili (Capsicum annum L.) Powder from Some Traditional Markets in Banda Aceh
13.30 – 13.45	1C-2	*Aman Sentosa Panggabean*	The Utilization of Nitrogen Gas as A Carrier Gas in The Determination Of Hg Ions by Using Cold Vapour-Atomic Absorption Spectrophotometer (CV-AAS)
13.45 – 14.00	1C-3	*Herlinawati Herlinawati, Buchari Buchari, M. Bachri Amran Amran*	Determination Of Antimony (Sb(Iii) And Sb(V)) Using Hydride Generation-Atomic Absorption Spectrophotometry (Hg-Aas) Technique
14.00 – 14.15	1C-4	*Irdhawati Irdhawati, Wayan Hermawan, Emmy Sahara*	Anodic Stripping Voltammetry for Determination of Cu(II) in Seawater around Benoa Port Bali
14.15– 14.30	1C-5	*Fitri Dara, Indra Noviandri, B Buchari*	Cyclic Voltammetric Study Of Selenite Ion At The Amalgam Copper-Mercury (Cuhg) Electrode
14.30 – 14.45	1C-6	*Untung Triadhi, Muhammad Ali Zulfikar, Muhammad Bachri Amran*	Pengaruh Komposisi Monomer-Pengikat Silang-Inisiator Pada Sintesis Polimer Untuk Retensi Catechin Dan Turunannya
14.45 – 15.00	1C-7	*Qonitah Fardiyah, Barlah Rumhayati*	Selectivity of The Potentiometric Sensor For Detection of Lead (II) Based On Phyropillite Membrane
14.45 – 15.00	1C-8	*Santhy Wyantut*	Kajian Preparasi Elektrode Glassy Carbon Dimodifikasi Nanopartikel Emas dan Aplikasinya terhadap Determinasi Kromium(VI) dengan Pengaruh Kromium(III), Nikel(II) dan Seng(II) secara Voltammetri
15.00 – 15.15	**COFFE BREAK**		
15.15 – 15.30	IC-9	*Atikah Adhikara, Rurini Retnowati, Qonitah Fardiyah, Siti Jazimah Iswarin .*	Chitosan as Membrane Carrier of Tetraborate Ion Sensor for Determination Tetraborate in Snack Food
15.30 – 15.45	IC-10	*Rinawati, Diky Hidayat*	Optimization of Solid Phase Micro-extraction (SPME) Method for Analysis of Polycyclic Aromatic Hydrocarbons (PAHs) in Seawater

15.45 – 16.00	IC-11	*Zul Alfian, Harlem Marpaung, Muhammad Taufik*	Analysis Of Methamphetamine In Users Hair By Gas Chromatography-Mass Spectroscopy (Gc-Ms)
16.00 – 16.15	ID-1	*Jaslin Ikhsan, Siti Sulastri, Erfan Priyambodo*	Adsorption Isotherm of Phosphate Ions onto Silica and Amino-Modified Silica from Lapindo Mud
16.15 – 16.30	ID-2	*Rikson Asman Siburian*	Sintesis Grafena Dan Kinerja Grafena Sebagai Material Pendukung Energi Terbarukan
16.30 – 16.45	ID-3	Suherman, dan Sitti Rahmawati	Pemulihan dan Peningkatan Produksi Buah Kakao
16.45 – 17.00			

Sesion 1 : **Essential Oils, Drugs and Narcotic (E)**
: **Agricultural Chemistry and Food Chemistry (F)**
: **Theoretical and Computational Chemistry (G)**

Room : **Balai Duta**

Hari/Tgl : **Selasa/29 September 2015**

13.10 – 13.30	1E-1	*Adil Ginting*	Constituents of leaf essential oil of Pluchea indica (L.) Less. from Indonesia
13.30 – 13.45	IE-2	*Noor Fitri*	Patchouli essential Oil Extraction using light fermentation - Water Bubble distillation
13.45 – 14.00	1E-3	*Edi Priyo Utomo*	Dehydration of patchouli alcohol and PCA approach to determine product isomers.
14.00 – 14.15	1E-4	*Heri Septya Kusuma, Mahfud Mahfud*	Response Surface Methodology for Optimization Studies of Microwave-assisted Extraction of Sandalwood Oil.
14.15– 14.30	1E-5	*Warsito warsito, Edi Priyo Utomo, Siti Mariah Ulfa*	Effect of hydration and oxidation reactions of the chemical composition of Kaffir lime oil.
14.30 – 14.45	1F-1	*Titania Tjandrawati Nugroho, Hilwan Yuda Teruna, Riryn Novianti, Dinda Yulia Octaviani, Nikmatul Maul*	HPLC Evidence of possible transglycosylation by Cellulose assisted extraction of plant polar compounds in in 40% Ethanol.
14.45 – 15.00	1F-2	*Adam Wiryawan*	The Role of Chemical Sciences to 1F-3The Critical point in the halal Certi1F-4fication of foods product, Beverage, Medicine and Cosmetics
14.45 – 15.00	IF-3	*Eliza Bachtiar, Herlina Herlina, Ines Sugiri Sugiri.*	Preparation and Characterization Edible Film from Dioscorea Starch Incorporated with Liquid Smoke and It's Antibacterial and Antioxidant Properties.
15.00 – 15.15	**COFFE BREAK**		

15.15 – 15.30	1F-4	*Helmina Br. Sembiring, Tonel Barus, Partomuan Simanjuntak, Lamek Marpaung*	Isolation, Determination of antioxidant activity and chemical structure of Flavonoid Compound from Leaves of Scurrula fusca G.Don (Orange Parasite Plant (Citrus si
15.30 – 15.45	1G-1	*Akram La Kilo*	Study Of Stabilisation Of Mg2+ DOPED Beta-Bi2VO5,5
15.45 – 16.00	1G-2	*Parsaoran Siahaan, Tri Windarti, Suci Zulaikha Hildayani*	The Effect of Molecular Ionic Orientation of Ca(PO4)- on It's Interaction Energy with Celulose Segment: Study of Ab Initio Quantum Mechanical
16.00 – 16.15	1-G-3	*Reza Aditama, Didin Mujahidin, Yana Maolana Syah, Rukman Hertadi*	Screening of Carbonic Anhydrase II Inhibitor from Flavones Group With Docking and Molecular Dynamics Simulation
16.15 – 16.30	I-G-4	*Rustaman Rustaman, Muhammad Yusuf, Ukun MS Soedjanaatmadja, Abdul Mutalib, Achmad Zainuddin, Iman Rahayu, Iman Permana Maksum, Retna Putri Fauzia, Ida Nurfarida, Shabarni Gaffar*	In Silico Study of Folate Derivative Compounds for the Development of Anti-Cancer Agents
16.30 – 16.45	IG-5	*Yusthinus T. Male, Marcella Lopulalan, I Wayan Sutapa dan I.B. Kapelle*	Studi Hubungan Kuantitatif Struktur dan Aktifitas (HKSA) Senyawa Turunan 1-aril-tetrahidroisokuinolin dengan Metode Semi empirik PM3
16.45 – 17.00			

Sesion 1 : **Organic &Bioorganic,Bio Inorganic and Inorganic Chemistry (H)**
: **Natural Product (B)**
Room : **Balai Wara**
Tgl : **Selasa/ 29 September 2015**

13.10 – 13.30	1H-1	*Muhammad Isa Siregar*	Impact Analysis of Waste Detergen 4a Zeolite Builders with The Substance of Life Fish
13.30 – 13.45	1H-2	*Prio Santoso, Chairil Anwar, Jumina Jumina, Dwi Siswanta, Keisuke Ohto*	Synthesis Of Calix[4]Resorsinarene-Chitosan Hybrid
13.45 – 14.00	1H-3	*Bambang Purwono, Beta Achromi Nurohmah*	Synthesis Of Pyrazoline And Pyrazole Derivative From Vanillin As An Anion Sensor
14.00 – 14.15	1H-4	*Retno Widiastuti, Eka Nuryanto, Eddiyanto*	Isolasi Squalene dari Palm Fatty Acid Distillate (PFAD) Sebagai Hasil Samping Pabrik Minyak Goreng Kelapa Sawit

		Gandasasmita, Muhammad Bachri Amran	alginate crosslinked with glutaraldehyde
16.00-16.15	2L-1	*Seri Maulina, Iloan Pandang H Manalu, Yos Pawer Ambarita*	Comparison Utilization of Oil Palm Frond to Produce Oxalic Acid by using Alkali Fusion Method and Oxidation Method
16.15 – 16.30	2L-2	*Tri Sutanti Budikania, Candra Irawan, Kartini Afriani, Nelson Saksono.*	Degradation of Linear Alkylbenzene Sulfonate (LAS) by Using Contact Glow Discharge Electrolysis (CGDE) with NaOh Electrolyte Solution
16.30 – 16.45	2L-3	*Indra – Mawardi*	Effect of Injection Temperature on Defect Plastic Products
16.45 – 17.00	2L-4	*Dwi Rasy Mujiyanti[1*], Utami Irawati[1], Nur Mauliddiyah Akhir*	Study Of Silica Gel And Merkapto-Silica Hybrid Desorption for Co(II) Ion

Sesion 2 : Chemical Education (M)
Room : Balai Citra I
Hari/Tgl : Rabu / 30 September 2015

10.30 – 10.50	2M-1	*Ramlan silaban*	Preparing An Innovative Chemistry Teaching Module Of Electrolyte And Non Electrolyte Solution Material Integrated Character Education
10.50 – 11.05	2M-2	*Jaslin Ikhsan, Septi Riyanningsih, Sulistiowati Sufiardi*	Analytical Chemistry at SMK – SMAK Bogor through Scientific Approach and Assisted by ICT-based Media
11.05 – 11.20	2M-3	*Agus Abhi Purwoko*	Pengaruh Pendekatan Brain Based Learning Terhadap Hasil Belajar Kimia Di Sma
11.20 – 11.35	2M-4	*Bajoka Nainggolan, Ruth Dharmayana Sinaga*	Applying Of Model Of Quantum Teaching Learning With Media Map Conception To Increase Result Of Learning And Character Cooperation Student At Fundamental Discussion Atomic Structure In Sma
11.35 – 11.50	2M-5	*Ratu Evina Dibyantini*	Comparison Of Students' Learning Outcomes Which Taught By Using Problem – Based Learning Model And Cooperative Type Of Think – Pair – Share By Using Macromedia Flash

11.50 – 12.05	2M-6	*Freddy Tua Musa Panggabean, Nora Susanti*	The Effect Of Using Computer Animation Media With Problem Solving Approach To Chemistry Learning Outcomes In Terms Of The Students Creativity In The Learning Of Reaction Rate
12.05 – 12.20	2M-7	*Dessy Ratna Sari*	The Development Of Innovative Chemistry Module With Integration Of Experiment On Learning Of Salt Hydrolysis Topic In Senior High School
12.20 – 12.35	2M-8	*Fitri Anggraini*	Analisis Kesulitan Siswa Kelas Xi Ia Sma Negeri 1 Tanah Jawa Dalam Menyelesaikan Soal-Soal Kelarutan Dan Hasil Kali Kelarutan
12.35 – 13.30	***L U N C H***		
13.40 – 14.00	2M-9	*Yuni Delniza*	The Effectiveness Of Guided Inquiry With Demonstration Method In Teaching Colloidal System To Increase Student's Achievement In Senior High School
14.00 – 14.15	2M-10	*Liesa Afridhila*	The Development Of Innovative And Interactive Chemistry Learning Material On The Teaching Of Acid Base
14.15 – 14.30	2M-11	*Ikhwani*	Application Of PBL Material Influence On The Reaction Rate In Madrasah Ulumul Quran City Langsa
14.30 – 14.45	2M-12	*Juliani Aswita*	The Effectiveness Of Guided-Inquiry With Concept Mapping Toward Student's Metacognition And Student's Achievement In The Teaching Of Solubility And Solubility Product
14.45 – 15.00	2M-13	*Lukman A. R. Laliyo*	Reconstruction Of Teaching Material Content Based On Analogy And Representation Of Submicroscopic In Reducing Students' Misconception On Acid-Alkaline Concept
15.00 – 15.15	2M-14	*Lalu Rudyat Telly Savalas*	Multistage Assistantship: A Self Reflection
15.15 – 15.30	2M-15	*Ajat Sudrajat*	Implementation Of Cooperative Problem Based Learning Model In The Improving Of Learning Outcomes And Develop The Students Character.

Multistage Assistantship: A Self Reflection

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ABSTRACT

In the University of Mataram, and perhaps in many other state universities, science education is not adequately developed. A typical situation is that basic science laboratories are not good equipped, so that it is not uncommon that one lab serves all lab courses of one study program. In this disadvantage circumstance, many students gain better understanding of practical courses once they serve as lab course assistant on the following year. On the other hand, supervision by lecturers is also far from sufficient, so that most practical works went by without controls or evaluation. In this setting, author set up two lab courses, i.e. Fundamental Chemistry and Biochemistry by involving senior lab assistants recruited from fresh graduate. They involved in testing or validation of all practical works, occasionally involved in designing new practical work manuals, training of junior lab assistants and evaluation of the whole lab course every semester. Qualitatively, students and junior lab assistants responded positively to this approach.

Keywords: *multistage assistantship, lab course, experiment validation*

ICICS 2015

CERTIFICATE OF ATTENDANCE

This is to certify that

LALU RUDYAT TELLY SAVALAS

as

PRESENTER

The 4th International C[illegible]donesian Chemical Society
29 - [illegible]r 2015
Me[illegible]nesia

Indonesian Chemical Society
President

Muhammad A. Martoprawiro

Organizing Committee
Chairman

Prof. Dr. Harry Agusnar, M.Sc

Himpunan Kimia Indonesia

Multistage Assistantship: A Self Reflection

Lalu Rudyat Telly Savalas, Nabila Hasan
Jurusan Pendidikan MIPA
Universitas Mataram

Background

Problems that you might also know

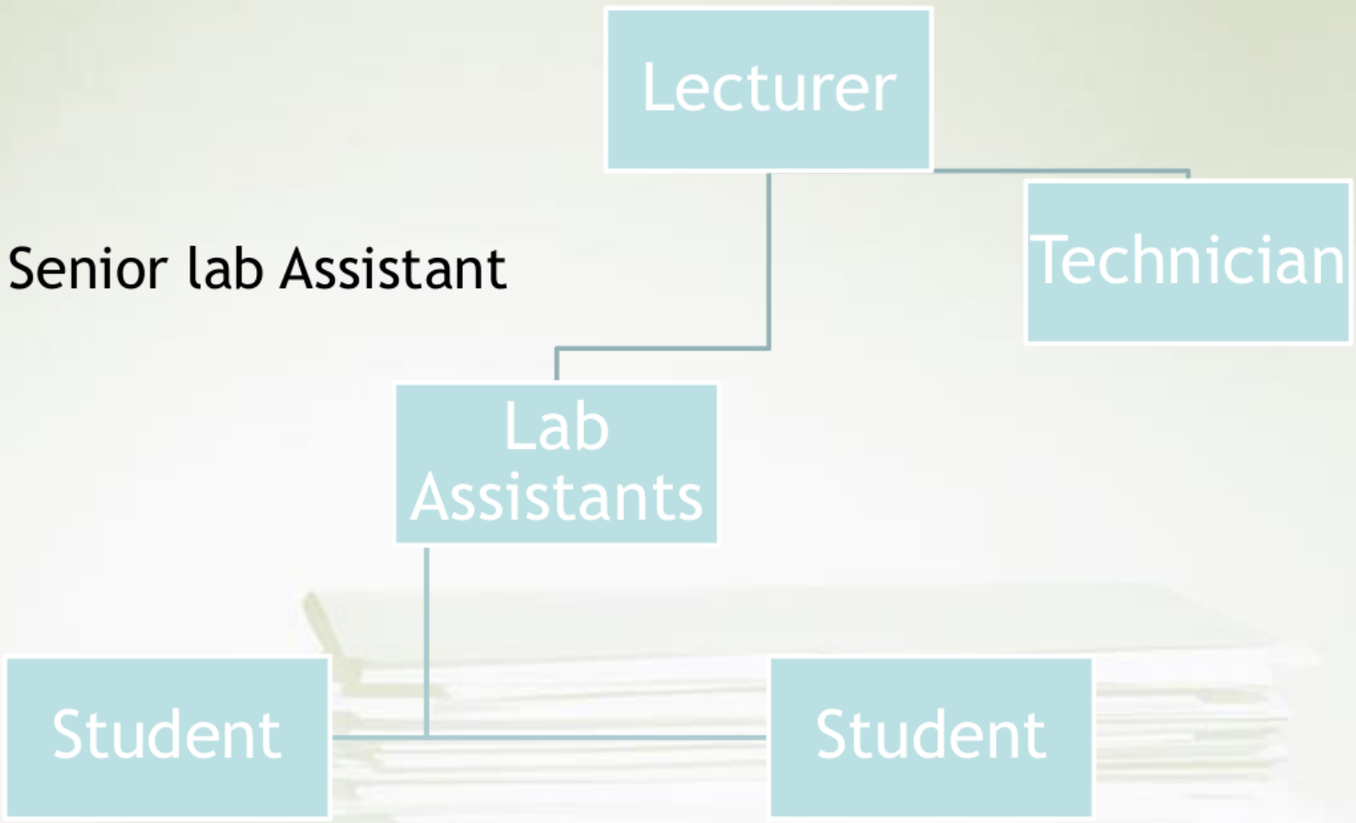
1. Lack of lab facilities
2. Insufficient lab guidance for students and lab assistants
3. Lecturers : Students (lecture obligatory)
   and Assistants : Students ratio
4. Chemical supply
5. Experiment validation and up date
6. Etc..etc

Poor laboratory Skill

Lab Assistant

- Product of the same process, unlikely to be able to provide a better service for students undertaking lab course
- Lab supervision by lecturer remains a question
- Futile cycle

What can be done



Senior Lab Assistant

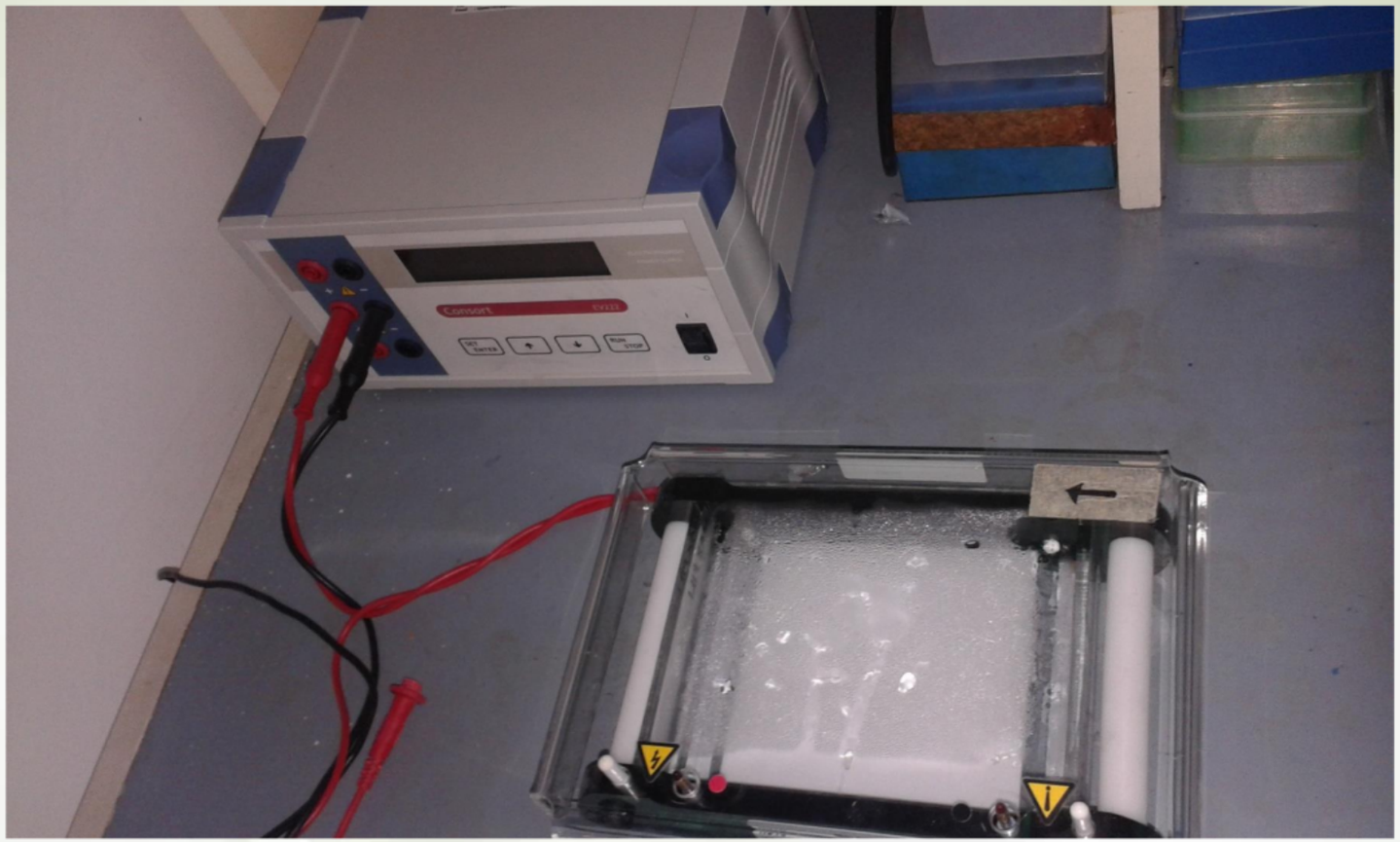
- Really a senior student, a student under project supervision
- Fresh graduates (especially those who academic minded)
- Invovles in diverse tasks

Senior Lab Assistant

- For running lab course:
  1. Coordinating lab assistants
  2. Evaluate and reporting lab courses

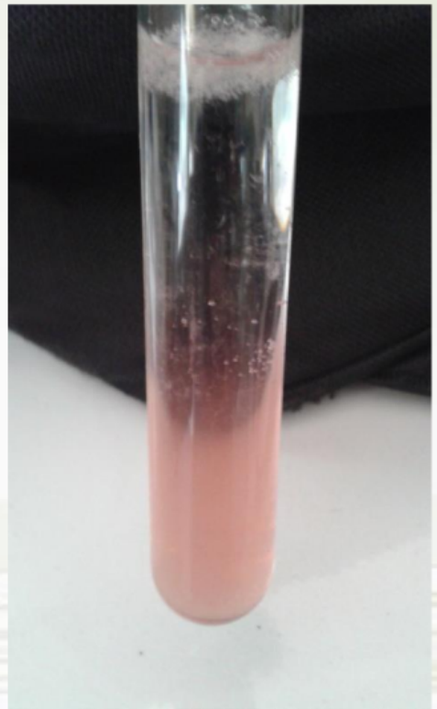
- For next lab course
  1. Validating lab experiment
  2. Designing new lab courses/experiments
  3. Testing new lab courses/experiments

Example: Designing DNA Isolation from fruits



Example: Designing DNA Isolation from fruits

Banana

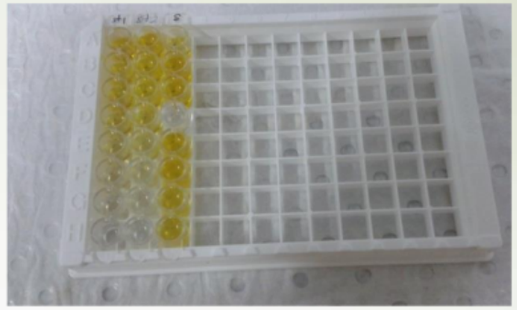


Strawberry

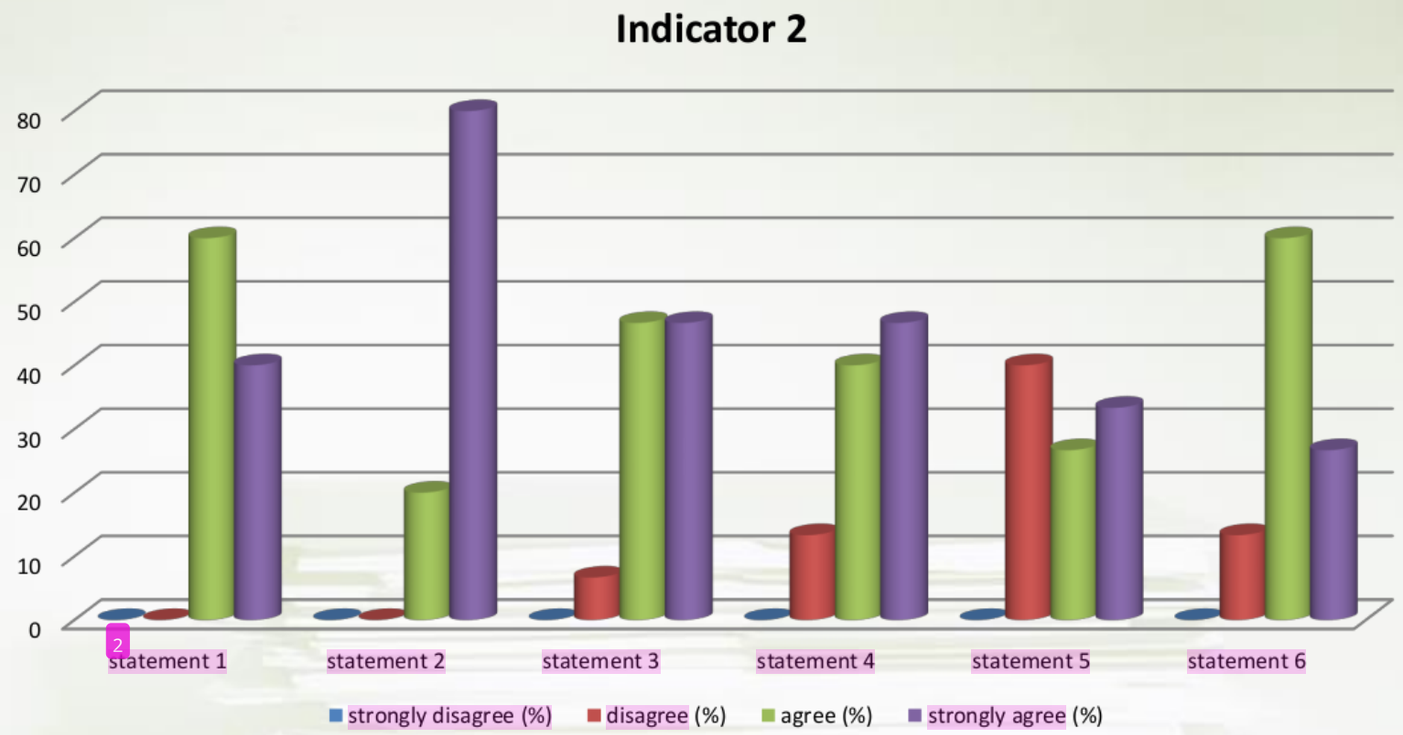
Broccoli

Why?? → Connecting concept to Biochem II

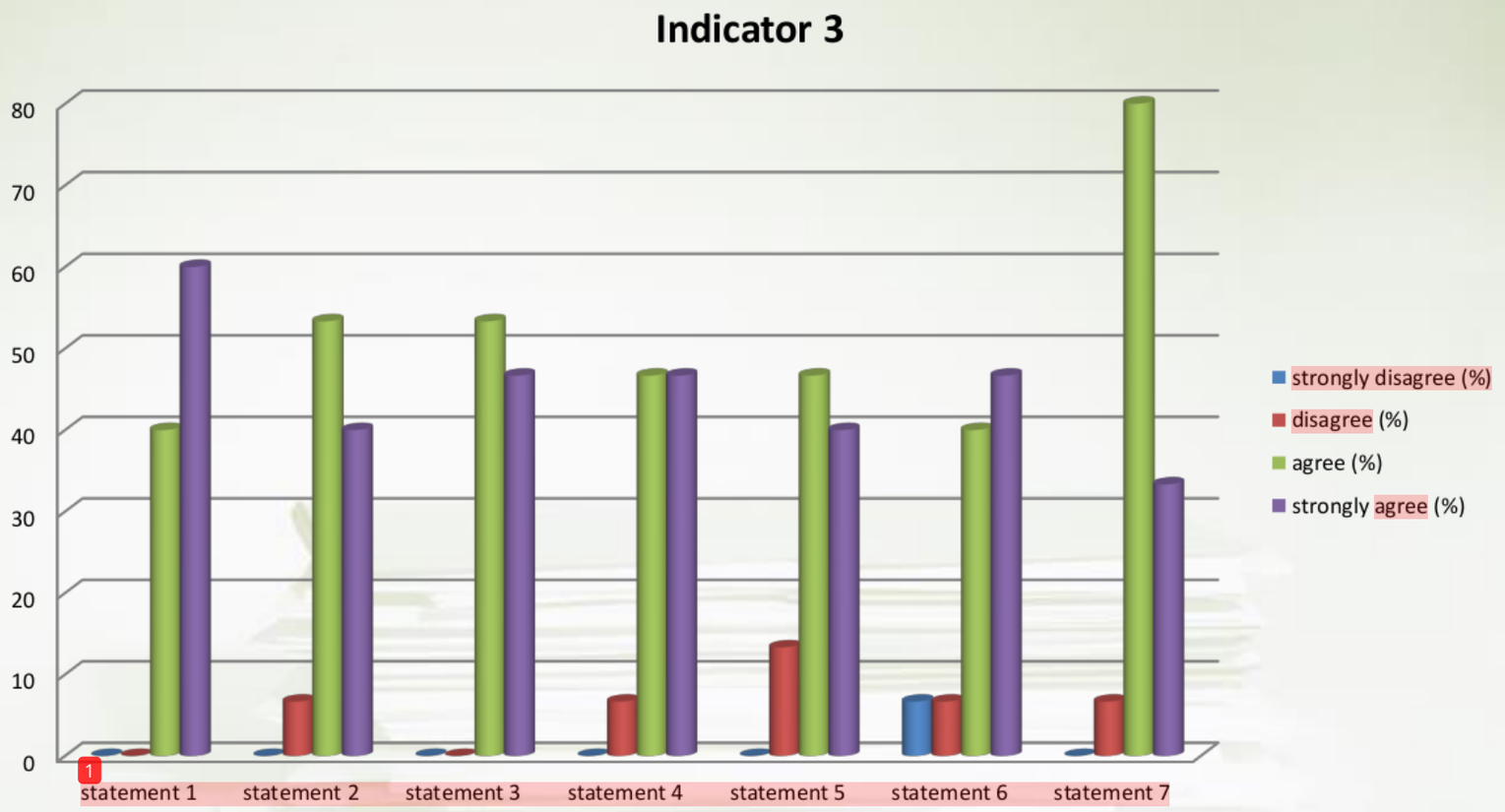
Example: ELISA analysis (Biochem/Analytical Chem Lab)



Fundamental Chem Lab Students response to the question: Is lab manual OK?



Question: Positive role of lab assistants?



Conclusion

- A multistage lab assistantship may provide a good way to overcome limitation in lab facility, resource and may save energy and time while at the same improving lab course.
- As a counter balance, senior lab assistant may also gain more experience, develops his/her managerial skills through know-how and knowledge transfer process, data mining/browsing, etc

THANK YOU

?

Do not think so

Suggestion and share of experiences are particularly welcome

C31 Turnitin L. R. Telly Savalas

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