



CERTIFICATE

The organizing committee certifies that

Prof. Sutopo Hadi

has contributed as

KEYNOTE SPEAKER

The 2ndInternational Conference on Applied Sciences, Mathematics and Informatics (ICASMI)

"The Contribution of Sciences on Sustainable Valorization of Natural Resources"

Held by Faculty of Mathematics and Natural Sciences, University of Lampung August 09th-11th, 2018 at Horison Hotel, Bandar Lampung, Indonesia.

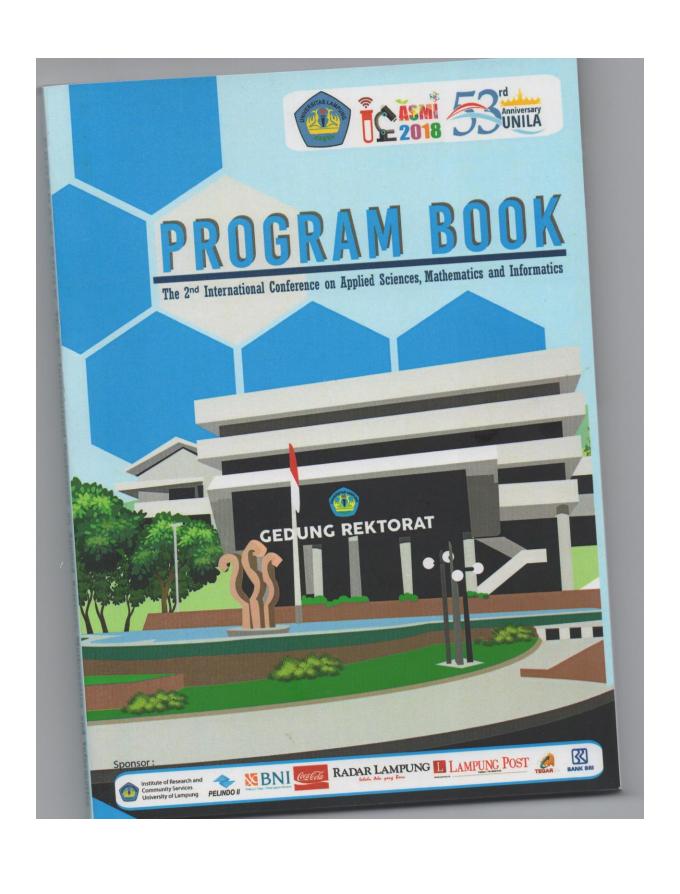
Prof. Warsito, S.Si., DEA., Ph.D.

Dr. Junaidi, S.Si., M.Sc. Chairman

Sponsor:







Time	Duration	Activity	PIC
		and Behaviour Monitoring"	
		Keynote speaker 6 Prof. Celestine C. Kokonendji "How to Measure a Multivariate	
09,35 am	15 mins.	Dispersion for Count Data/Models?" Coffee Break	Widiarti, M.Si.
09.50 am	60 mins.	Plenary Session 3 Keynote speaker 7 Prof. Wannapong Triampo "Speech title" Keynote speaker 8 Prof. Sutopo Hadi "The Biological Activity of Some Organotin(IV) benzoate compounds"	Moderator: Dr. Favorisen R. Lumbanraja Operator: Muhammad Ibrahim & Aris Subagio
10.50 am	40 mins.	Poster session	Dr. Aang Nuryaman
11.30 pm	90 mins.	Lunch break	Widiarti, M.Si.
01.00 pm	120 mins.	Parallel Session 4 Room A: Chemistry and Applied Chemistry Room B: Biology and Applied Biology Room C: Mathematics and Applied Mathematics Room D: Informatics and Computer Science Room E: Physics and Applied Physics	Moderator: Room A: Dr. Ni Luh Gede Ratna Juliasih Room B: Dra. Elly Lestari Rustiati, M.Sc Room C: Dr. Notiragayu Room D: Ani Rose Irawati, M.Cs. Room E: Gurum A. Pauzi, M.T. Operator: Room A: Ahmad Ikhsanudin Room B: Muhammad Ibrahim Room C: Theresia Indah Room D: Destia Latifah A Room E: Alvin Wiwiet Susanto
03.00 pm	15 mins.	Coffee break	Widiarti, M.Si.



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The Biological Activity of Some Organotin(IV) benzoate compounds

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Abstrak: The organotin(IV) carboxylate andits derivatives are widely known since the derivative of these compounds are very active and strong even at very low concentration. This conditionmakes these compounds continue to attract more attention to be used in many biological activities. We have previously succeededin the syntheses and performed many activity studies of some organotin(IV) benzoates, in this work, we reported the antibacteria and antimalaria activity studies of some organotin(IV) derivatives. The targeted compounds were prepared from their organotin(IV) chlorides via the intermediate products of dibutyltin(IV) oxide, diphenyltin(IV) dihydroxide and triphenyltin(IV) hydroxide, respectively and followed by reacting the intermediate products with benzoic desiered. The antimalaria activity was performed against Plasmodium fulcifarum. While the antibacterial activity was performed against Pseudomonas aeruginosa and Bacillus subtilis. The results showed that the IC50 of all organotin(IV) compounds lested were little bit higher than the chloroquine as the positive control, however one advantage is that the organotin(IV) compounds are not resistent to the Plasmodium, thus making the used of organotin(IV) as antimalaria is widely opened. The triphenyltin(IV) compound is more potent to be used as antimalaria and has potential to be developed as antimalarial drug in the near future. The results of antibacterial activity revealed that the implenyltin(IV) 4-chlorobenzoate was the most active compound although it is less active compared to the chloramphenicol.

Keywords: antibacteria, antimalaria, organotin(IV) benzoate