

**IMPEDANCE STUDIES OF PVC-PEMA –LiCF<sub>3</sub>SO<sub>3</sub>-PC ELECTROLYTES**

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**Final Year Project Report Submitted in  
Partial Fulfillment of the Requirements for the  
Degree of Bachelor of Science ( Hons.) Physics  
in the Faculty of Applied Sciences  
University Technology Mara**

**MAY 2009**

This final Year Project Report entitled “**Impedance studies of PVC-PEMA–LiCF<sub>3</sub>SO<sub>3</sub> PC electrolytes**” was submitted by Nabilah Bt Mohd Noor., in partial fulfillment of the requirements for the Degree of Bachelor of Sciences (Hons.) Physics, in the Faculty of Applied Sciences and was approved by

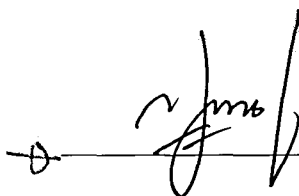


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## ACKNOWLEDGEMENT

Alhamdulillah, I am highly indebted with praise to Allah S.W.T the most merciful and the most graceful. Finally my thesis entitled '**Impedance studies of PVC-PEMA–LiCF<sub>3</sub>SO<sub>3</sub>–PC electrolytes**' has been successfully done and submitted as planned.

I would like to thank my supervisors, Assoc.Prof.Dr.Ri Hanum Yahaya Subban and Assoc.Prof.Dr.Nor Sabirin Mohamed. They always guided and gave advice upon numerous drafts of this thesis proposal. Besides they also gave encouragement in order to finish up this proposal.

I also would like to express my appreciation and thanks especially to Siti Sumaiyah Syeikh Abdul Aziz for her cooperation who supported me in doing this thesis proposal. Lastly special appreciation is dedicated to my family that gives continuous support, attention and encouragement in doing this proposal. Thank you.

## ABSTRACT

PVC – PEMA blend with addition  $\text{LiCF}_3\text{SO}_3$  and PC was prepared in order to study their ionic conductivity by impedance spectroscopy. The PVC – PEMA blend ratio was fixed at 95-5 wt% while  $\text{LiCF}_3\text{SO}_3$  concentration is varied to study the effect of addition of  $\text{LiCF}_3\text{SO}_3$  on the conductivity of PVC – PEMA blend. PC was used then added to a fix concentration of PVC – PEMA -  $\text{LiCF}_3\text{SO}_3$  in order to further enhance the conductivity.

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