PREFACE

Praise and Gratitude must be prayed to Almighty God, for all the gracing and blessing that provide health and wisdom to the author so he can finish this thesis well. The title of this thesis is "The Effectiveness of Problem Based Learning Model Based on Lesson Study to Increase Student’s Achievement in Salt Hydrolysis Topic" that was done in SMA N 15 Medan academic year 2014/2015. It was prepared to get degree of Sarjana Pendidikan of Chemistry Education, FMIPA, UNIMED.

On this occasion, the author also conveys a respect and gratitude to:

1. Prof. Dr. Retno Dwi Suyanti, M.Si, as a thesis supervisor who has provided guidance and suggestion to the author since the beginning of the study until the completion in writing this thesis.

2. Prof. Dr. Ramlan Silaban, M.Si, Dr. Simson Tarigan, M.Pd, and Drs. Jasmidi, M.Si, who have provided suggestions from the planning until the completion of this thesis.

3. Prof. Drs. Manihar Situmorang, M.Sc, Ph.D, as the Academic Supervisor who always guided researcher during the lecture course and the entire along with Mr. and Mrs. Staff and Lecturer in chemistry department, FMIPA, UNIMED.

4. Drs. Darwin Siregar, M.Pd as a school principals of SMA N 15 Medan and Lisnawati Ginting, S.Pd as a chemistry teacher of SMA N 15 Medan and staff which assist in the implementation of this research.

5. Parlindungan Siahaan, lovely father, and Erita Eli Rosa Tampubolon, lovely mother, who always care, always educate, always pray on the author. The author say thank you to their sweat that make the author to be Sarjana Pendidikan. Special gratitude and appreciation also the author say to his brother, Aron Siahaan, Darwis Siahaan, Handiego Siahaan, and all of his family, that always support him since enter this university till achieve the degree of Sarjana Pendidikan (S-1) of Chemistry Education at State University of Medan.
6. Bilingual Chemistry Education 2011, the author classmate, he also say thanks to all of them that always support, remind, lend out him money, and teach the author to be better since first semester till the arrange this thesis. The author can’t say them one by one, because they are all special for the author.

7. All of senior of author, especially to PK (Posko Keselamatan), the author say thanks to people of PK that always support the author in college and in organization of IKBKK.

8. Lamhot Tua Silaban, Januelman Purba, Albert Telambanua, Hendra Sinaga, Reymondo Sitinjak, Hermanto Sinaga, and Ginting, the people of MABES that fill the daily life of author specially in refreshing time of “Leng, Lotere”, “Singing Concert”, “Futsal”, to arrange of this thesis.

9. IKBKK (Ikatan Keluarga Besar Ikatan Kimia) UNIMED, the organization that always teach the author, change the mindset of author to be better, know senior and junior, know the lecturers, and have the fun journey with them in joy and sorrow.

10. Suraman Leo Situmorang, Eris Hutapea, and the people of Gang Bahagia Tuamang, the author’s friend, the author say thanks for all of their time that was always support and accompany the author from Senior High till now.

11. Deby Elfinasti Br. Sitepu, special girl for the author, the author says thanks for her to all of love that was share to the author and all of her praying.

The author has done the maximal effort in the completion of this thesis, but the author is aware there are many weaknesses in terms of both of content and grammar. Author hopes the suggestions and constructive criticism from readers for completeness the thesis perfectly. At least, author hope this thesis can be useful to enrich the reader in science education.

Medan, June 2015

Author,

Jori Josua S. Siahaan