

September 14<sup>th</sup>, 2018

**Subj.: Supervisor's opinion on Ph. D. student, Mr. Ahmed Maraden, M.Sc.**

Ahmed Mohamed Ali Maraden, M.Sc. (born 1982) began his Ph.D. study at our Institute in 1<sup>st</sup> December 2015 as a Ph.D. student on the basis of a requisite selection procedure and subsequently of MOU between the Egyptian Armament Authority (EAA) and the Faculty of Chemical Technology, University of Pardubice about the gratuitous implementation of the three-year Ph.D. study appointed on the subject "*Kinetic study of selected combustion processes*". Supervisor-specialist of Ahmed Maraden was Petr Stojan, M.Sc., specialist on the measuring of ballistic parameters of propellants (Petr Stojan works as a designer and researcher in the field of instruments for the testing of ballistic parameters of propellants in the company OZM Research)

Ahmed's work was dependent on a collaboration with Explosia company, which, as the only workplace in the Czech Republic, has facilities for the preparation of propellers and equipment for measuring of ballistic parameters. This collaboration initially developed very slowly due to the company's own research and production tasks. Another delay in the Ahmed's work was the injury that occurred on 21<sup>st</sup> September 2016 during his research activity in Explosia. He was burned on the left hand and on the forehead. After the injury he was hospitalized for one week and then he visited the hospital for one month for healing his burning of skin. Even though Ahmed managed to meet all of the goals of his thesis, thanks to Ahmed's persistence in the final phase of work.

The results of Ahmed's work were published in three scientific papers (two of them were already published, one is accepted for publication). He already presented his results in two international conferences. The scientific committee of 6<sup>th</sup> International Symposium on Energetic Materials and Their Applications in Japan evaluated his presentation as the excellent oral presentation in the conference.

Ahmed passed all exams prescribed by his study plan and his Doctoral State Exam was successfully passed on April 4<sup>th</sup>, 2018. Ahmed Maraden meets the conditions for the defense of his dissertation. Therefore, as his supervisor I strongly recommend this defense.



Doc. Ing. Robert Matyáš  
Supervisor of Ahmed Maraden, M.Sc.  
Institute of Energetic Materials  
Faculty of Chemical Technology  
University of Pardubice