

Recommendation of the supervisor

Supervisor's opinion on PhD thesis of Mr.Jawad Naeem M.Sc.

Thesis title: THERMAL PROTECTIVE PERFORMANCE OF FIREFIGHTER PROTECTIVE CLOTHING

Mr. Jawad Naeem B.Sc. is an PhD student in Department of Clothing Technology, Faculty of textile, Technical University of Liberec. He is an excellent hard working and efficient student who is very dedicated and attentive to detail. He was able to learn the experimental procedures and was also able to solve technical problems. His approach is always systematic and precise. He has successfully passed all the course examinations and also passed his internship exam. Later on, he successfully passed State doctoral exam.

Up to now he has published seven articles as main author in different scientific journals like Journal of Textile Institute, Fibers and Textiles in Eastern Europe, journals Industria Textila, Vlakna a textil and Tekstilec. Out of these seven articles, five articles were published in impact factor journals. He has also published his scientific work in two conferences of Autex and NART respectively.

His PhD thesis titled "THERMAL PROTECTIVE PERFORMANCE OF FIREFIGHTER PROTECTIVE CLOTHING" is quite comprehensive and fulfils the planned objectives. The work is very interesting and is related to thermal protective performance of firefighter protective clothing. He was able to analyze thermal protective behaviour of different firefighter combinations. Moreover, improvement in thermal protective performance was also analyzed with the help of aerogel blankets and coating of silver particles. Furthermore, numerical model was implemented to understand temperature distribution in multilayer clothing assembly.

I therefore strongly recommend him for defence of his doctoral work.

Prof.Dr.Ing. Zdeněk Kůs

Supervisor

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