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To:  
Whom it may concern

Villigen PSI, November 5<sup>th</sup>, 2021



## Supervisor's opinion - the doctoral studies of Mr Jan Crha

Dear Madam/Sir,

being the principal supervisor of Mr Jan Crha throughout his doctoral studies at the Faculty of Civil Engineering, Czech Technical University in Prague (CTU), I am pleased to provide my opinion on the entire doctoral studies of Mr Crha.

Jan Crha has commenced his PhD studies in July 2016 after successfully completing the master studies at the Czech Technical University, Faculty of Nuclear and Physical Engineering of the Czech Technical University in Prague. From the start on, he proved to be very bright and capable student with enthusiastic approach.

Between 2016 and 2018, Jan Crha spent three times two months at the Paul Scherrer Institute (PSI) in Neutron Imaging and Activation Group (currently called Applied Materials Group). During this time, he performed experiments that were later summarized in the publication that consists the two chapters of his dissertation. Apart from the experimental investigations, he focused also on computer simulations of processes in scintillator screens that are summarized in another chapter of his thesis. Jan compiled a well above average dissertation in which he summarized his achievements in the field of (high spatial resolution) neutron-sensitive scintillator screens and their applications. With 175 cited publications cited in his dissertation, he provided an encompassing overview of the field. The first published paper (Crha et al., 2019) of his doctoral studies is already frequently cited (12 citations).

Apart from his own papers/manuscripts, he -while being scientific guest at PSI- assisted to perform several neutron imaging user experiments and contributed significantly to their successful completion. It is worth noting here that two of these experiments became the scientific highlights of PSI (Vopicka et al, 2020 and Im et al, 2021 - the latter publication being published in a journal of extraordinarily high impact factor).



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Regarding other extracurricular activities, I like to confirm that Jan significantly helped with the organization of courses of Universita třetího věku (U3V) at CTU supervised by his second supervisor Assoc. Prof. Karel Trtík.

I am pleased to write that it has always been a pleasure to work with Jan throughout the entire course of his PhD studies. He always communicated clearly and politely -be it in person or remotely. As we (myself and Jan) have not shared the same work location for the major part of Jan's studies, Jan proved that while being able to stay focussed on his tasks, he is able to work very independently. Clearly, he is going to be a valuable asset to any team which he is going to be part of in the future. I understand that immediately on finishing his contract with CTU, Jan has found a position in industry.

I like to recommend from the position of the principal supervisor of Mr Jan Crha to approve his dissertation and thus award him the title of Ph.D. and, in general, it is my true pleasure to wish him well in any aspect of life.

In case of any question/queries, please do not hesitate to contact me at the time of your convenience.

With best regards



Assoc. Prof. Dr. Pavel Trtik  
NEUTRA beamline senior scientist, Paul Scherrer Institut, Switzerland  
Assoc. Prof., Czech Technical University in Prague, Czech Republic

cc: Assoc. Prof., Karel Trtik, CTU