

ZÁPIS O OBHAJOBĚ DISERTAČNÍ PRÁCE

Průběh obhajoby:

Ing. Michaela Fecková: „Organic and organometallic heterocyclic luminescent materials: towards OLED applications“
Members of jury: in full accordance with attendance list. Defense was initiated by chair of the jury – prof. Ing. Miroslav Ludwig, CSc. in presence of all eight members of the jury (both opponents were also members of the jury) and both supervisors and co-supervisor. Chair of the jury confirmed that jury is complete for voting. Ing. Michaela Fecková was shortly introduced with additional information that all requirements requested by Study and Examination Regulations were fulfilled. It continued by reading of positive assessment of the head of the Institute of Organic Chemistry and Technology prof. Ing. Miloš Sedlák, DrSc. As well as reading of assessments of both supervisors prof. Ing. Filip Bureš, Ph.D. and Assoc. prof. Dr. Sylvain Achelle. This was followed by approx. 30 min. presentation of the doctoral thesis by Ing. Michaela Fecková. This presentation was found by jury as detailed and interesting summary of her work with good orientation in the problematics. Both opponents read their assessments with following questions Assoc. prof. Dr. Julien Massue: 1) What was the reason for synthesis of pyrimidine derivatives in water with aliquat 336 instead of organic solvents? 2) Have you observed isomerization/photo-switching of double bonds in vinyl derivatives? 3) What conditions were used for study of AIE of acridane derivatives? doc. Ing. Vitězslav Zima, CSc.: 1) Explain the motives for synthesis and study of organometallic/platinum materials after two series of pure organic materials? 2) What can you say, according to X-ray analysis of 232h, about spatial arrangement of benzene rings with contrast to central pyrimidine moiety? Both opponents were satisfied by given answers. The discussion was then opened to all members of the jury. prof. Ing. Roman Jambor, Ph.D.: 1) Your thesis includes significant number of synthesized compounds, its analysis as well as study of its properties, what was your part, what except of synthesis you measured yourself? 2) Have you measured platinum and nitrogen NMR? Dr. Jeanne Crassous: 1) Have you measured emission in solid state? 2) Why were not synthesized derivatives with two or three acridane units? Dr. Jean-Luc Fillaut: 1) Can you explain used amounts of acids for protonation because there is no clear connection between this and pKa? 2) Why were synthesized these types of platinum complexes of your ligands, namely monodentate chloride-pyridine complexes? All members of jury were satisfied by given answers. In the next non-public part eight members of jury evaluate defense, presentation and doctoral thesis as well as major part of Ing. Michaela Fecková in this research. In the secret ballot all members of the jury voted (voting protocol included) and chair of the jury announced that all members of jury decided that Ing. Michaela Fecková defended her work. Prof. Ing. Miroslav Ludwig, CSc. as the chair of the jury also announced that everything was in full accordance of Study and Examination Regulations for doctoral studies at the Faculty of Chemical Technology, University of Pardubice and this will be followed with proposal to dean prof. Ing. Petr Kalenda, CSc. to award Ing. Michaela Fecková the title of Ph.D. 17th Jun 2021 in Pardubice Prof. Ing. Miroslav Ludwig, CSc – chair of the jury, Assoc. prof. Dr. Christine Paul – vice-chair of the jury, prof. Ing. Roman Jambor, Ph.D., doc. Ing. Pavel Drabina, Ph.D., Dr. Jeanne Crassous, Dr. Jean-Luc Fillaut – members of the jury, doc. Ing. Vitězslav Zima, CSc. and Assoc. prof. Dr. Julien Massue opponents.

Souvislost mezi výsledky uvedenými v disertační práci a předkládanými publikacemi:

Ing. Michaela Fecková showed clear relationship between her doctoral thesis and five of her seven articles in international journals, namely: Journal of Photochemistry & Photobiology A: Chemistry, Physical Chemistry Chemical Physics, Dyes and Pigments, Chemistry – A European Journal, European Journal of Inorganic Chemistry.

Vyjádření komise k podílu studenta na předkládaných publikacích:

Contribution of Ing. Michaela Fecková on the research and aforementioned articles was: synthesis, basic characterization (NMR, MS, basic UV/Vis absorption and emission...). She wrote experimental parts and supporting parts to those articles.

Zápis podepíše předseda komise, všichni její přítomní členové a přítomní oponenti.

UNIVERZITA PARDUBICE
FAKULTA CHEMICKO-TECHNOLOGICKÁ

**PROTOKOL O HLASOVÁNÍ KOMISE
pro obhajoby disertačních prací**

P1421 Organická chemie
z programu:.....
Organická chemie
obor:.....

**O VÝSLEDKU OBHAJOBY DISERTAČNÍ PRÁCE
Ing. Michaela Fecková**

jméno a příjmení:.....

Z celkového počtu.....8..... členů komise pro obhajoby disertačních prací se
hlasování zúčastnilo.....8.....členů.

Při hlasování bylo odevzdáno celkem.....hlasovacích lístků, z toho

pro hodnocení **SPLNĚNO** bylo odevzdáno.....8.....hlasů

pro hodnocení **NESPLNĚNO** bylo odevzdáno.....0.....hlasů

neplatných hlasů.....0.....

Výsledek klasifikace.....**SPLNĚNO**.....

Datum: 17.6.2021

Předseda komise:

Podpisy členů komise:



