



Report for 1st TAC Meeting

Meeting details Date:	18.06.2020			
Location:	Video-conference meeting			
PhD Candidate Dmitry Belyaev Name, Surname: Dmitry Belyaev Host institution: Max Bergmann Center of Biomaterials Dresden				
PhD thesis supervisor:	Prof. Gianaurelio Cuniberti			
, Day-to-Day Supervisor:	Dr. Larysa Baraban			
Further Members:	Dr. Bergoi Ibarlucea			
	(Second thesis referee and minor subject in Rigorosum)			
Meeting content		timeline	Done	
 Kick-off Meeting with Prof. Cuniberti and your day to day supervisor Discuss the PhD task, scope, impact, feasibility and associated risk of the project Set up the PhD task definition 		2 nd month		
 1st TAC Meeting Presentation and follow-up on the progress of the project Discussion of the research results obtained so far Receive suggestions for the future 		4 th month		

Student's presentation:

15 min on time?	Yes 🗹	No 🗆
Slides clear?	Yes 🗹	No 🗆
Discussion?	Yes 🗹	No 🗆

General feedback on the presentation:

The presentation was on time and with clear slides. Preferably the corporate slides should have been used. The student should be more frontal with the publications, and show in more visible way the paper in which he was first author as well as the projects in which he has been involved even if he was not paid by them.

The presentation has led to scientific discussion related to the content too, in which the student has participated with his answers and comments.





After the student's presentation, please discuss the following areas:

A. Ph.D. Project – Research and Progress		
Aspects to consider: e.g. frequency and quality of interaction, relevance of the problem, experimental approach; results and accomplishments from the previous year; new scientific discoveries; goals for the next year/meeting; knowledge of the literature; oral presentation		
Highlights:	Deviation from plan / Improvements:	
Published paper	Plan is going on through possible improvements on the experimental setups after the findings of the first paper. The only deviation has been the application to the Dresden Exists call, which is on the other hand an appreciated initiative coming from the student	

Recommendation:

The student has interacted frequently with supervisors and his initiative is appreciated (intention of participation in funding calls for start-ups, etc.). The progress has been clear with a published paper and findings of possibilities for improvements to continue the experimental research for a next paper, which is the next goal together with the Dresden Exists topic.

B. Working Style / Personal Skills		
Aspects to consider: e.g. to work in a systematic and structured way; to be able to set priorities; to develop and		
apply creative and innovative solutions; to communicate	openly, actively and clearly	
Highlights:	Improvements / Potentials:	
He works systematically and clearly setting his priorities. He has applied creative solutions to limitations found during the first publication (moto perpetuo of droplets in closed loop). His communication skills have dramatically improved.		
Recommendation:		





C. Scientific Visibility and Qualifications		
Aspects to consider: e.g. publications; conferences; internal nanoSEMINAR during the semester break; Group Re-		
Highlights:	Improvements / Potentials:	
Paper in Micromachines journal	Potential for a better publication this year	
Recommendation:		
The visibility was not optimal, with a publication in a journal with not very high impact factor. With the plan of droplet recirculation in closed loop and for long duration and a clear application this should be improved this year. He has been recommended to schedule a nanoseminar for January 2021 or a flash talk in the General Assembly		

Next Meeting: must be held on <u>early December 2020</u> (*date*). If the date is before the next regularly meeting, please explain:

□ Major problems have been identified (Identify problems and solutions in your comments)

Project is not viable & a new direction must be taken

□ Thesis Proposal approved for final submission Yes □ No □

TAC Statements

1. Gained experiences/learnings/establishments

What are the student's experiences with other scientific cultures and other countries? What has the student learned during the stay abroad/at other universities? Which collaborations established during these stays are still active today?

The whole PhD is an international experience for him, embedded in an international team.

He has learnt several micro- nanofabrication and measurement techniques as well as specific software for simulation, graph plotting, CAD and 3D design. Communication and presentation skills have also been improved.

The collaboration he established during a travel to Austria for a conference (Prof. M. Kaltenbrunner) is still active today.





2. Participation in lectures/internal group activities/training courses

Has the student participated in lectures/path activities/training courses to improve personal skills? Yes \bowtie No \square

If yes, please give details below which kind of courses/workshops have been attended.

Training by Dresden Exists for start-up formation Lectures in addition to the mandatory ones for his own education

3. Scientific qualifications/skills

Which scientific qualifications/skills should be acquired?

He has already learnt several skills during the last years which are critical to complete his PhD: nanofabrication, microfluidics, various software...

4. Proposal for research prize / doctoral PhD prize

Applying for doctoral PhD prize is not recommended given the low impact factor of the journal where he published. Applying for the start-up funding with Dresden Exists is recommended as prize for his initiative





Attachments

All slides/presentation slides attached Does this report include additional attachments? Presentation slides sent per E-Mail to office@nano.tu-dresden.de:

\boxtimes	Yes
	Yes
\mathbf{X}	Yes

	No
	No
Γ	No

Dresden, <u>18.06.2020</u>	
Signature PhD candidate:	
Signature PhD thesis supervisor:	
Signature Day-to-Day advisor:	
Signature Further member 1:	
Signature Further member 2:	

After signature, please hand in this agreement to the office of Prof. Cuniberti.