

# Annual Report Academic year 2018-2019 Programme Committee CSE/ChE

## Members

The Educational Committee consists of four teachers and four student members (see table 1). The student members are chosen through an election which is held during the TOSTIS activity organized by the study association C.T.S.G. Alembic. Teacher members are appointed in consideration with the other members and the programme director

**Table 1:** Educational Committee members

	Name	Function or Group	Date of taking office
<b>Teacher Members</b>	dr.ir. W.M. de Vos	Membrane Science and Technology	November 2017
	prof.dr.ir. P. Jonkheijm	Molecular Nanofabrication	May 2015
	prof.dr.ir. M. Huijben	Inorganic Materials Science	September 2014
	dr.ir. B. Schuur (chair)	Sustainable Process Technology	September 2013
<b>Student Members</b>	J.J. Ter Horst	Student B-CSE	September 2017
	A.K. Mehendale	Student M-ChE	September 2017
	P.S. Duenas Robles	Student M-ChE	September 2018
	J. Bruggeman	Student B-CSE	September 2018
<b>Advise, support, regular guests</b>	dr.ir. B.H.L. Betlem	Programme Director	<i>Not applicable</i>
	prof.dr.ir. J.E. ten Elshof	Programme Director	<i>Not applicable</i>
	M.A. Stehouwer	Study Advisor and Programme Coordinator (CSE)	<i>Not applicable</i>
	A.S. Elbersen – Grote	Study Advisor and Programme Coordinator (ChE)	<i>Not applicable</i>
	N.H. Oesterholt	Study Advisor and Programme Coordinator (CSE)	<i>Not applicable</i>
	dr.ir. L.E. Krab-Hüsken	Programme Coordinator (CSE)	<i>Not applicable</i>
	drs. H.J. van den Hengel	Coordinator Quality Assurance	<i>Not applicable</i>
	R. Kersten	Commissioner of Educational Affairs Study Association C.T.S.G. Alembic	<i>Not applicable</i>

## Meetings

On the following dates, a meeting took place:

- 25<sup>th</sup> of October 2018
- 15<sup>th</sup> of November 2018
- 24<sup>th</sup> of January 2019
- 5<sup>th</sup> of April 2019
- 21<sup>st</sup> of May 2019
- 20<sup>th</sup> of June 2019
- 11<sup>th</sup> of July 2019

On the next pages, a summary of each of these meetings can be found.

<b>Meeting October 25<sup>th</sup> 2018</b>	
<b>Educational evaluation</b>	<p><b>NSE.</b> Overall score of 4.39, most marks are around 4 except for "Preparation for career" where apparently there is not much attention given to it. It is pointed out that "English skills" for teachers was scored low in bachelor but a lot higher in masters, despite some teachers give lectures in both.</p> <p><b>CSE Survey 2017-2018</b> Bachelor students satisfied with final project.</p> <p><b>B1- 2<sup>nd</sup> block:</b> -High number of students passed. Modules are well organized -PoA*: Exchange and AT students can participate in this module, and if so, lectures must be given in English. A lecturer does not want to give the lecture in English. However, for this year there are not either exchange nor AT students and next year the course will be given in English.</p> <p><b>B1-3<sup>rd</sup> block:</b> -The grades the students received in the project was not very clear for them. They would like to receive feedback and their grades for the individual parts of the project without having to ask for them to the lecturer.</p> <p><b>B2 3<sup>rd</sup> block:</b> -Students do not like learning things by heart, they prefer applied knowledge.</p> <p><b>B3 3<sup>rd</sup> block:</b> -Students are very satisfied with ethics and statistics.</p> <p><b>AMM Organic Materials Science.</b> -The module worked out very well even though, J. Vancso was not available. Hubert and Sissi de Beer were involved in the module.</p> <p><b>Project Organic Materials</b> -Research groups cannot be very big. Since the project is also opened for BME students, ChE students will have the opportunity to pick first.</p> <p><b>AMM Project Inorganic Materials</b> -Some complains were made about missing a connection between prior knowledge and the laboratory practice given.</p> <p><b>Multicomponent mass transport</b> -Good grade</p> <p><b>Process Plant Design</b> -Students think it is a good course but with high study load. The amount of students is increasing, thus maybe PhD students could help as tutors. The current professor is of a respectable age, therefore, he could be replaced by another professor.</p> <p><b>Technology venturing</b> -Well graded course, however, the group was very small and thus, the course will not be given again.</p>
<b>Discussions regarding curricula</b>	<p><b>ChE Masters</b> -CPE track: "Electrochemical Engineering" course has been moved from second quarter (1B) to third quarter (2A) - MME track: the course "Venturing" by Bliet (NIKOS) has been cancelled</p>
<b>General education</b>	<p><b>EER Bachelor's programme</b> -Regulation of 15EC-all or nothing will be applied for 2019-2020</p>
<b>Other business</b>	<p>New programme director: Prof. André ter Elshof, starting on November 1<sup>st</sup>.</p>

PoA\* = Point of attention

Meeting November 15 <sup>th</sup> 2018	
<b>Educational evaluation</b>	<p><b>Bachelor's</b></p> <ul style="list-style-type: none"> <li>-Modules 6 and 8 are graded high. Teachers put great effort in their modules, they are well structured and cohesive.</li> <li>-Students struggle with English language and would like to have more feedback on their writing skills.</li> </ul>
<b>Discussions regarding curricula</b>	-
<b>General education</b>	-Bachelor students would like to get at least an introduction to LaTeX and Alembic could organize a training for it, even though a course was given in the past but not anymore.
<b>Other business</b>	<p>The Huishoudelijk Reglement is accepted with the change in Article 6.</p> <p><b>Diploma language:</b></p> <p>The CvB decided that the diploma will be made in English, but the study will still be the first CROHO name (in our case Scheikundige Technologie). The name Chemical Science and Engineering will be put between brackets behind 'Scheikundige Technologie'.</p>

Meeting 24 <sup>th</sup> of January, 2019	
<b>Educational evaluation</b>	<p>AMM-Characterization 2018-2019</p> <ul style="list-style-type: none"> <li>- The overall grade is higher this year compared to last year. Some improvements in the courses have been made.</li> </ul> <p>AMM-Molecular and biomolecular chemistry &amp; technology</p> <ul style="list-style-type: none"> <li>- There was some confusion about point 6.6.</li> </ul> <p>Learning goals could be improved, since it is assessed as not good.</p>
<b>Discussions regarding curricula</b>	The 15 EC rule for passing a module will disappear, and it is left to the educational programs to fill in the details. This will be implemented in September 2019.
<b>General education</b>	Some problems with the drivers of laptops during lab courses appeared. There is no easy solution available, so action will be taken.
<b>Other business</b>	<p>Canvas</p> <ul style="list-style-type: none"> <li>- It is unclear what to do with the OLC course on Canvas. Some ideas came up.</li> </ul> <p>Members</p> <ul style="list-style-type: none"> <li>- M. Stehouwer announces that this will be her last meeting of the OLC for now.</li> <li>- A. Elbersen will be leaving in three weeks for maternity leave and will be back in around five months.</li> </ul>

Meeting 5 <sup>th</sup> of April, 2019	
<b>Educational evaluation</b>	<p>B1 4<sup>th</sup> block (17-18)</p> <ul style="list-style-type: none"> <li>- Results for math are on the low end.</li> <li>- Students complained about equilibria lectures.</li> <li>- Study load is not spread equally.</li> </ul> <p>B2 M8a</p> <ul style="list-style-type: none"> <li>- The passing rate on process design was remarkably low.</li> <li>- Students complained about the way the project was evaluated.</li> <li>- Some groups plagiarized in the practical/project. Students say it is unfair to grade everyone the same. It will be discussed in a teacher meeting.</li> </ul>

	<p>B2 M8b</p> <ul style="list-style-type: none"> <li>- The passing rate was quite good.</li> </ul> <p>It was remarked that the exercises were not representative for the test.</p> <ul style="list-style-type: none"> <li>- The pass rate for organic chemistry in the 7th block is very low. Some comments are being made about the lab course which is included in the block and not separated like usual.</li> </ul>
<b>Discussions regarding curricula</b>	<p>TOM 2.0</p> <ul style="list-style-type: none"> <li>- The rector magnificus has decided that the modules will be divided into smaller pieces that can have a variable size and credits can be rewarded for passing those pieces. It should be implemented in September 2020 officially.</li> <li>- J.E. Ten Elshof would like to restructure the CSE curriculum for the first and second year during the coming months in order to effectively work with the new TOM 2.0 system from September 2019.</li> <li>- Some question about the BSA are presented. Mainly, because it would be possible with the new model to build up 45 EC from several uncompleted modules. There are also concerns about the proposed BSA-requirement to pass at least 3 out of 4 math modules.</li> <li>- There are no final decisions made concerning repairs, except that the 0-15 rule will stop.</li> <li>- The major thing that changes in the first 10 year, is that thermodynamics and process technology will become 1 submodule. Some remarks are made.</li> <li>- The new TOM system gives big problems for premaster students. In the the second year there is problem with combining industrial chemistry and processes with the project, because the course is part of the premaster. This is discussed.</li> </ul>
<b>General education</b>	<ul style="list-style-type: none"> <li>- There is a formal decision of the board of the university to introduce a half-point grading system. The implementation will be combined with the implementation of TOM 2.0.</li> </ul>
<b>Other business</b>	<p>Members</p> <p>N.H. Oesterholt joins for the first time as an advisor to the OLC. She will be the new study advisor in the bachelor. From next month onward another person will join the programme staff</p>

<b>Meeting 21<sup>st</sup> of May, 2019</b>	
<b>Educational evaluation</b>	<p>A short evaluation of CSE B1 block 1 2018-2019 was done, it was generally positive with almost no points of attention.</p> <p>Also, CSE B2 block 1 was evaluated. The lower pass rate compared to a couple of years ago were suggested to be possibly due to more students failing the project, but this was also the case a couple of years ago and according to the lecturer no significant changes were made. The response of students to the surveys was good, even though the pass rates were not that high.</p>
<b>Discussions regarding curricula</b>	<p>-</p>
<b>General education</b>	<p>The OER of the bachelor for 2019 was discussed. Very few changes were made to the previous OER. It was stated that certain parts of the OER are more difficult to change than other ones. The changes made to the OER were discussed, the following points were found to need changing:</p> <ul style="list-style-type: none"> <li>- several grammatical errors needed to be corrected</li> <li>- a negative advice was given regarding the changes to article 5.2.3, a letter about this was sent out.</li> </ul>

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	<p>The module coordinators were also informed of changes that they needed to implement according to the new OER. The master OER was also discussed, here the same points were made and the same negative advice on article 5.2.3 was given.</p> <p>Next a short explanation was given by H.A. Akse about a double degree master's degree opportunity with the University of Parma. Reactions were generally positive, but some remarks were made about the study load for students following the biochemistry track at the end of the second year.</p>
<b>Other business</b>	<p>Most of the members were present, 1 teacher and 1 staff member weren't present for this meeting. The minutes of the previous meeting were fine. The action points from the previous meeting were the following:</p> <ul style="list-style-type: none"> <li>- sending the minutes of internal meetings =&gt; done</li> <li>- E-mail the faculty about a letter that was received =&gt; done</li> </ul> <p>An incoming e-mail about a meeting between the program committees and the faculty council came in. A student will be able to be present and also it will be tried to have a teacher present as well. B. Schuur was tasked to e-mail the faculty council about who from this program committee will be present.</p> <p>Lastly the low number of students that show up for the quality assurance panel meetings in the master was discussed. It is an intrinsic problem of the master, since some courses are only taken by very few students. It was discussed whether sending the minutes to lecturers is useful when only very few students show up. It will take a lot of time and might not be useful since it is hard to distinguish outliers. A positive advice was given on the procedure stated in attachment 10, while a remark was made that discarding the opinions of the few students that show up should be reconsidered.</p> <p>2 agenda points were moved to the next meeting due to time constraints. A short comment was made about the program committee introduction course and the next meeting was scheduled.</p>

<b>Meeting 20<sup>th</sup> of June, 2019</b>	
<b>Educational evaluation</b>	-
<b>Discussions regarding curricula</b>	-
<b>General education</b>	<p>The program specific appendix in the OER for the bachelor and master were discussed. For the bachelor OER some comments were made about old articles that would give students the option to choose between Dutch and English for tests/reports. Since the whole program is switching to English these can be removed. For courses that are also taken by other study programs that are in Dutch, the rules of our program still apply.</p> <p>Some remarks about the changes TOM 2.0 will make to the way EC's are granted have to be made more specific for this program as well. Since mathematics can now not officially be compensated anymore within the module, so this will need to be changed for this program. It will now be possible to compensate the mathematics exams using other mathematics exams. The compensation has to be changed from the normal rules in TOM 2.0, it is advised that one five can be compensated with one grade higher than a six. Also, it can be beneficial to only allow compensation with grades from the module afterwards, to give more clarity about when students should prematurely stop with the program.</p> <p>The master OER was also discussed, all of the changed suggested were considered good by the committee. A small comment was made on the ruling for students coming from a school of applied sciences. These students are able to take the premaster for</p>

	<p>CPE to afterwards enroll for the MME track. This is not yet legally possible to stop, so this will be discussed further.</p> <p>The progress quality agreements were discussed as last and where the extra funds should go to. The main point the students made was that there are not enough study places. This might change when Alembic moves to Carré. There still should be more focus to create more of these study places. The overall spending of the money seems to go to projects which were already going to happen anyway.</p> <p>The meeting was reopened later with more student members present, so decisions made were valid. All decision made were voted for in favor. This validated all decision made during the meeting on 20th of June 2019.</p>
<p><b>Other business</b></p>	<p>Only very few members were present, notably only 1 student member was present. Therefore, decisions made during this meeting weren't officially valid. This was resolved by scheduling an extra meeting in which sufficient members were present, and where all decisions were validated. The minutes of the previous meeting were changed slightly and afterwards approved.</p> <p>A letter was received about the international student barometer of 2018 for the faculty. The results were quite nice, but there were some remarks. First of all the host culture was not perceived as optimal, foreign student find it difficult to integrate into the student society. Also, the career advice is not handled optimally. The student present was international and was asked about her opinion. She did agree with what was said in the report. A remark was made that already effort is put in to make the transition easier.</p> <p>Another letter about an information session regarding TOM 2.0 was received. One member visited this meeting. The remarks were generally positive.</p>

<p style="text-align: center;"><b>Meeting 11<sup>th</sup> of July, 2019</b></p>	
<p><b>Educational evaluation</b></p>	<p><b>B2 M6</b></p> <ul style="list-style-type: none"> <li>- Success rate is moderate, but this module is also experienced as one of the most difficult. Participation in this module was very good. There was some trouble concerning the new lecturer of <i>Numerical Methods</i>. However, the former lecturer Thomas Weinhart will resume coming academic year.</li> </ul> <p><b>B2 M3</b></p> <ul style="list-style-type: none"> <li>- The success rate is quite low. It is suggested that this is partially due to the work ethics of students. Students do not seem very responsible for their own success. Also, the number of students present during the was not high. It is suggested to make students more aware of their own responsibility during their academic career.</li> <li>- This was the first year the module is completely taught in English. It is suggested that this might also lead to a decrease of attendance of Dutch students. This point was not raised by first year students with the programme staff.</li> </ul> <p><b>Statistical Thermodynamics</b></p> <p>The course was very well received. The teacher was nominated by the study association for teacher of the year. A few points of improvement were raised during the evaluation.</p> <p><b>Electrochemistry Fundamentals &amp; Techniques</b></p> <p>This is a new course. The course was well received by students. The course is mainly participated by SET students. Some indicated they found the course quite</p>

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	challenging. Coming academic year, the teacher wants to use a different study book.
<b>Discussions regarding curricula</b>	-
<b>General education</b>	The double degree programme with Parma has been officially approved. Starting next academic year, MME students can participate in this programme.
<b>Other business</b>	<p>L.E. Krab joins the OLC as advisor. Within the study program, she will be responsible for coordinating part of the bachelor, especially to be working on the essential skills offered during the bachelor.</p> <p>On the 19<sup>th</sup> of June, a meeting took place with the faculty council. This was quite a chaotic event. Schuur advises the faculty council to send a clear agenda before the next meeting in order to improve this. These meetings will take place twice per academic year.</p> <p>On the 5<sup>th</sup> of July, a meeting took place regarding the extra budget received for new projects. The extra budget was mostly spent on projects that would have taken place anyway. However, with the extra budget, the projects could be expanded. Several points were advised on which extra money could be spent, such as project rooms.</p> <p>For the coming academic year, there are plans to make integrated master's programme's with courses from other studies as well. Also, for the bachelor there will be looked at the offered range of essential skills. Additionally, the movement to Carré is coming up, which will probably take place around Eastern 2020.</p> <p>B.H.L. Betlem is in the process of obtaining accreditation through IchemE, which is especially interesting for international master students.</p> <p>A few trends are emerging for the coming academic year. For example, E-learning is becoming more relevant and also 2.5 EC courses are becoming more popular.</p> <p>B. Schuur announces that he will leave the programme committee in October 2019. J.A. Faria Albanese will be his successor. W.M. de Vos will take over as chair for the committee starting in the academic year 2019-2020.</p> <p>J.J. ter Horst and A.K. Mehendale will leave the committee as well. New student members will be elected using the standard procedure.</p>