

## Teaching Portfolio

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Chemistry and Pharmacy

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## Employment

### Professor

Chemistry and Pharmacy

SDU

1. Mar 2021 → present

### Institut for Fysik, Kemi og Farmaci

SDU

Odense M

1. Mar 2021 → present

## Formal educational training

- Was the College of Science and Engineering representative at the 3-day course in pedagogics for the SDU lecturer training course (Koldinghus, March, 2006). Participated actively in all the sessions, both commenting and getting more inspiration for my own teaching.
- Participated in Nordic 2-day Course on PhD Supervision twice, 2004 and 2006 (as Head of PhD Studies, College of Science and Engineering, SDU)
- Effective University teaching, a 1-day course with Richard Felder and Rebecca Brent (2006)
- Projektarbejde i praksis på Syddansk Universitet, a 2-day course on project work in practice at SDU (2006)
- Participated and taught at SDU 2-day course in PhD Supervision (2007).
- Stemmen - i personlig udvikling, a 2-day course in using your voice better (2009)
- Accredited to teach in English (2016)

## Administrative tasks relating to education

- Member of the PhD Study board for science and engineering and the departmental committee, 1994-2003.
- As Head of PhD Studies, College of Science and Engineering, SDU (2003-2007) I chaired all meetings of the PhD study board; participated in all faculty leadership meetings, and in this context I have participated in planning of changes in the general study programs, after recommendations from the study boards; evaluated all applications for admission to one of our PhD programs after recommendation from evaluation committees; evaluated biannual progress reports from all PhD students at faculty (about 120); developed the content and administration of the PhD programs; was in charge of the PhD administration; served in accreditation committees for education on university level.
- On the more specific level of research training in computational quantum chemistry, in addition to my supervisor roles, I was Danish node leader in the EU research training networks MOLPROP (2000-2003) and NANOQUANT (2004-2007), hosting and training PhD students and postdocs from other European countries. I was also Director of COMPKEM, the Danish research school in computational chemistry 2006-2010, funded for five years by a special government program in 2006 for quality improvement of PhD

education. Among other things we arranged “summer schools” and we had annual meeting of all Danish PhD students in computational chemistry.

- Internal supervisor for two assistant professors when they participated in the SDU lecturer training program (2005 and 2010).
- I have been opponent at PhD defenses in Denmark, Norway, Sweden, and Netherlands.

### **Experience of study programmes, supervision and examinations**

- I have been responsible teacher and examiner for
  - o Physical Chemistry A, bachelor level, 5-6 ECTS depending on year, 1993-2003, 2005, 2008.
  - o Quantum Chemistry, bachelor level, 5-6 ECTS depending on year, 2004-2014.
  - o Quantum Chemistry and Theoretical Spectroscopy, bachelor level, 10 ECTS, 2014-now.
  - o Advanced Quantum Chemistry, master level, 5 ECTS, 2005-2009.
  - o Computational Quantum Chemistry, master level, 5 ECTS, 2010-2015, 2018-now.
- I have given lectures and been examiner in Mathematical Methods in Chemistry and Nano Science, bachelor level, 5 ECTS, 2013-2015.
- I have supervised a number of individual study activities (5-10 ECTS) and first year science projects (10 ECTS).
- I have supervised 10 Ph.D. students, >10 international guest Ph.D. students, 11 master students.
- I have supervised 6 post docs, 5 of which are now professors.
- I have been external examiner at oral exams in molecular physics at Aarhus University
- I have been external examiner in a number of bachelor project exams, master exams, and PhD qualifying exams at Aarhus University and Copenhagen University.

### **Methods, materials and tools**

- In 1993-2003 I annually revised the “Course notes and exercises” to KF01/KF03 (Physical Chemistry A), which was printed by the university printing office and sold to the students in the university bookstore. Each year I modified the course notes and some of the exercises based on experiences from the teaching in the previous year. I also added the newest exam sets
- I started ca. 1995 to use a local web server for disseminating information, additional exercises, additional lecture notes, etc. to the students in KF01 and KF03.
- When I started to teach KK01, Introductory Quantum Chemistry, in 2003 I used this webserver as the primary means of disseminating information etc., that is, I didn't make printed lecture notes using the university printing office.
- After the introduction of blackboard at SDU I switched to using that.