

"New Materials with Tailored Properties"

Regulation of the Graduate program

Hannover, January 2006

Contents

Designation of the Graduate Program

- 1 Aims
- 2 Membership
- 3 Duties of the holders of fellowships
- 4 Duties of the project leaders
- 5 Assembly of delegates
- 6 Assembly of fellowship holders
- 7 Head of the graduate program
- 8 Speaker of the graduate program

9 [Term of office](#)

10 [Coming into force](#)

Designation of the Graduate program

The title of the graduate program is:

"New Materials with Tailored Properties"

The graduate program is established in the framework of the "Zentrum für Festkörperchemie und Neue Materialien" (ZFM) and supported by the Institute of Inorganic Chemistry, the Institute of Physical Chemistry and Electrochemistry, the institute of mechanical engineering as well as by the institute of mineralogy of the University of Hannover. The Laser-Zentrum e.V. and the Institute of Physical and Theoretical Chemistry and the Institute of Technical Chemistry of the Technical University of Braunschweig are associated members. In the first instalment, the graduate program has a duration of four years. Membership is open to graduate students from the University of Hannover as well as from abroad. In general, fellowships are advertised in national and international journals.

1. Aims and functions

The primary aim of the program is the interdisciplinary training of the students which accompanies their graduation and helps to obtain shorter times of graduation. The versatility of the involved university teachers and institutes from fields of chemistry, of mechanical engineering and of geosciences guarantees an interdisciplinary approach. The scientific aim of the graduate program is the development and characterization of materials with new properties and potential applications. Within the program, there are two topics, namely (A) Sorption and Catalysis and (B) Atomic Transport and Corrosion, providing a section of the special scientific expertise of the research performed within the ZFM. Sorption processes play an important role in separation procedures of the chemical industry and are also useful for the cleaning of contaminated soils. Heterogeneous catalysis comprises industrial procedures of high relevance in the formation of chemical products and to relieve environmental burdens. Atomic transport is not only of general importance for the reactivity of solids, but also for applications as ionic conductivity in batteries and fuel-cells. Corrosion phenomena stand in close connection to atomic transport.

According to the aims of the graduate program all research projects must show a significant degree of applicability, i.e. they should deal with materials already used in industrial processes or those having a real chance of future applications.

The themes of research promote a close cooperation between the holders of fellowships. This is furthermore enhanced by the collaboration with other graduate

students or postdoctoral students associated to the ZFM. Special lectures, talks of guest scientists, lectures of the participating university teachers as well as graduate seminars and a scientific colloquium, both to be organized by the graduate students, are further parts of the graduate program.

A special aim of the graduate program is to foster its international character by the integration of foreign graduate students and by the invitation of foreign lecturers to workshops and to talks in the scientific colloquium, as well as by a mandatory stay abroad of the graduate students to perform their research at a foreign university.

The graduate program shall actively support women in science. Especially, women who have interrupted their carrier due to family reasons shall obtain support.

Therefore, two of the fellowships to be distributed should be announced as reinstatement fellowships.

2. Membership

The holders of fellowships and the project leaders are members of the graduate program. The project leaders of the graduate program are university teachers from the ZFM. University teachers in the sense of this regulation are scientists who have a professorial chair or who are habilitated. In exceptional cases and with the permission of the head of the graduate program also scientists whose habilitation procedures are in progress can act as project leaders.

The membership of the graduate students lasts for the whole period of their promotion by a fellowship within the program.

The membership of the project leaders lasts for the period of the duration of their projects. A membership of a project leader also ends when he leaves the ZFM, for example due to a change of the university. The membership of a member will end with the end of the running term upon the request of that member. In justified cases the head of the graduate program can decree the exclusion of a member.

Upon request, graduate students and postdoctoral students of the ZFM which do not hold a fellowship of the graduate program can become associate members of the program, if their fields of research are in agreement with the research topics of the graduate program.

3. Duties of the fellowship holders

The fellowship holders have the obligation to fulfil the study achievements as embodied in the "Course of Study" of the graduate program. In addition they should actively take part in shaping the program.

After graduation, each fellowship holder has to deliver three printed copies of the dissertation. Only then the head of the graduate program awards the certificate about the successful participation in the graduate program.

4. Duties of the project leaders

The project leaders are committed to collaborate actively in shaping the graduate program. This implies especially their participation in teaching by offering special lectures in English language.

From each publication in a scientific journal which is based on work carried out under the auspices of the graduate program, three copies have to be sent to the head. Upon demand of the head, the project leaders are committed to give an interim report of the actual status of the project. At the end of a project, a final report has to be sent to the head.

5. Assembly of delegates

The assembly of delegates consists of one project leader of the participating projects. The assembly elects three of its members for the head of the graduate program. It has the final decision about the defence of the head after its annual report. A transfer of votes is possible. A written declaration has to be given to the head at least one day before the assembly of delegates takes place.

6. Assembly of fellowship holders

The assembly of fellowship holders consists of the fellowship holders of the graduate program. It elects from its members a spokesperson and a deputy spokesperson. Both spokespersons become members of the head of the graduate program. They report on a yearly basis to the assembly and have to be discharged. The spokesperson of the assembly of fellowship holders and its deputy are responsible for the organisation of the graduate students' seminar.

7. Head of the graduate program

The head of the graduate program consists of three delegates, the spokesperson of the ZFM and the spokespersons of the assembly of fellowship holders. The head coordinates the projects of the graduate program and prepares a cost and finance plan. When grants are applied for, it arranges the application and is responsible for the adherence to the rules of appropriation. Considering the duties of the head, §§111 No. 5 and 7 of the NHG apply analogously.

The representatives of the delegates in the head report once a year to the assembly of delegates. Thereafter they have to be discharged. If no discharge is given, the assembly of the delegates elects new representatives. The representatives of the assembly of fellowship holders in the head will give their report to the assembly of

fellowship holders. They must be discharged by the assembly of fellowship holder. The granting of a fellowship is given on the proposal of the project leader in agreement with the head of the graduate program. All decisions of the head concerning the granting and prolongation of fellowships will exclusively decided by the representatives of the assembly of the delegates and the speaker of the ZFM. The head decides over the fulfilment of the performance criteria of the graduate program. In justified cases it can decree the exclusion of individual members. The head decides about controversial questions concerning the course of study. The head decides about the distribution of lecturing capacities originating from the graduate program upon the institutes involved.

8. Spokesperson of the graduate program

The speaker and the deputy speaker are elected from the delegates in the head. The spokesperson represents the graduate program to the public. He is the authorized to handle the financial affairs of the graduate program and is therefore responsible for their proper use. The speaker is responsible for the lectures and courses within the course of studies of the graduate program. This implies especially the assembly of a list of lectures and courses which are part of the course of studies. This list has to be available to the graduate students timely enough before the start of a term. The speaker invites to scientific colloquia.

9. Term of office

The term of office is two years for the representatives of the delegates and one year for the representatives of the fellowship holders. Re-election is possible.

10. Coming into force

This regulation comes into force after the agreement of the assembly of delegates and the corresponding departments as well as after the corresponding decision of the senate of the University of Hannover.